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CHARLES SAWYER, *Secretary*

U. S. Patent Office
JOHN A. MARZALL, *Commissioner*

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T. M. Renewals	47	
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Plant Patents	1—No.	735
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Total	556	

Patents expiring: Patent Numbers 1,756,930 to 1,757,949, inclusive, issued May 6, 1930, expire May 6, 1947

Condition of Applications Under Examination at Close of Business April 18, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 145,797; Trade-Mark Division, 12,886. Oldest new case, July 14, 1945; oldest amended, July 19, 1945.)
(The dates given are 1945 except where * indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Sept. 14	Nov. 26	2868
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 15	Oct. 19	3570
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Nov. 7	Oct. 6	2023
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	Nov. 30	Nov. 27	2891
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 14	July 25	4320
6. BYERS, J. H., Acting. Carbon Chemistry (part)	*Feb. 11	*Feb. 25	1992
7. HANLIN, GEORGE, Optics, Photography	*Apr. 18	*Apr. 11	1987
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 5	Nov. 30	3656
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 9	Oct. 1	2220
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Dec. 17	Dec. 22	1458
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	*July 13	*July 3	819
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Dec. 10	Dec. 17	2682
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Aug. 2	Sept. 5	2272
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	*Jan. 23	Nov. 15	1443
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	*Mar. 22	*Mar. 8	1333
16. LOVEWELL, N. N., Telegraphy; Telephony	*Feb. 23	*Feb. 27	1289
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	*Jan. 12	Nov. 16	1310
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 23	Sept. 1	1827
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	*Feb. 1	*Jan. 19	1791
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Oct. 23	Oct. 16	2193
21. THOMPSON, T. J., Textiles	*June 18	*July 30	921
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Nov. 30	Dec. 3	1922
23. LEWIS, J. B., Cash Registers; Calculators (part)	Dec. 21	*Feb. 15	247
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	*Aug. 21	*Aug. 7	1613
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Oct. 5	Dec. 12	1755
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 19	Nov. 26	2180
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	Dec. 8	Dec. 20	2399
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	Oct. 29	Aug. 24	1563
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	Sept. 28	*Jan. 16	2626
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	*Jan. 7	*Jan. 9	2496
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	*Oct. 25	*Oct. 24	679
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Dec. 14	Dec. 15	2426
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Oct. 18	Oct. 15	3662
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	*Jan. 3	Dec. 29	1374
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Oct. 4	*Jan. 23	2311
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 24	Sept. 28	1890
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	*Jan. 15	*Jan. 24	1608
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	*Mar. 13	*Mar. 4	1404
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Sept. 1	Sept. 1	2607
40. DRUMMOND, E. J., Receptacles (part); Packages	Dec. 6	Dec. 21	2812
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	Aug. 20	Nov. 2	1235
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	*May 1	*May 18	1049
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	*Apr. 30	*Feb. 1	1084
44. HARVEY, L. P., Refrigeration; Preserving	Aug. 23	Sept. 8	1381
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Oct. 19	Oct. 23	2477
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	*Jan. 18	*Jan. 18	1726
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	*Feb. 11	*Feb. 8	2849
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Oct. 10	Oct. 25	1948
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	*Jan. 26	*Jan. 2	1577
50. LEVIN, SAMUEL, Synthetic Resins	*Feb. 25	*Feb. 25	2605
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	Dec. 4	Dec. 3	2134
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	*Feb. 19	*Jan. 19	3366
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Aug. 9	July 19	4320
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	Dec. 15	Dec. 21	2157
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Oct. 4	Oct. 30	1904
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	*Feb. 15	*Feb. 11	1488
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks	Oct. 10	Nov. 1	3116
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	*Feb. 26	*Feb. 28	1389
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Sept. 26	Oct. 5	2109
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Oct. 25	*Jan. 26	2016
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Dec. 3	Nov. 19	2751
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Aug. 17	Aug. 24	4099
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Nov. 20	Oct. 26	2081
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	*Oct. 17	*Oct. 18	1215
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Sept. 24	Sept. 29	2294
TRADE-MARKS: MERCHANT, J. H.	*June 1	*Oct. 24	12886
DESIGNS: BREHM, G. L., Acting	*Jan. 25	*Oct. 23	8988

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adams Plastic Co., Inc., Holyoke, Mass. Cutlery handles and picker sticks. Serial No. 502,609; May 6. Class 23.

Advance Packing & Supply Co., Chicago, Ill. Mechanical packing. Serial No. 510,558; May 6. Class 35.

Air Cleaner Service Company: *See*—
Simonsen, Charles W.

Airite Corporation, The, Stamford, Conn. Air conditioners of the humifier heating and cooling type. Serial No. 506,361; May 6. Class 34.

Allied Chemical & Dye Corporation, New York, N. Y. Felt base shingles. Serial No. 505,469; May 6. Class 12.

American Elan Corporation, New York, N. Y. Piece goods of pure wool, cotton, silk, etc. Serial No. 498,678; May 6. Class 42.

American Home Foods, Inc., New York, N. Y. Coffees. Serial No. 506,287; May 6. Class 46.

American Metalcraft Corporation, Detroit, Mich. Toy scooters. Serial No. 515,358; May 6. Class 22.

Anco Manufacturing & Supply Company, Tulsa, Okla. Metallic, bulk tanks and cylinders. Serial No. 515,360; May 6. Class 2.

Apex Electrical Manufacturing Co., The, Cleveland, Ohio. Clothes washing machines. Serial No. 510,472; May 6. Class 24.

Arco Company, The, Cleveland, Ohio. Publication. Serial No. 501,622; May 6. Class 38.

Arco Metalcraft Inc., New York, N. Y. Plastic combs. Serial No. 510,047; May 6. Class 40.

Arms, Leland J., San Francisco, Calif. Sound recordings. Serial No. 491,950; May 6. Class 21.

Arnold, Hoffman & Co. Incorporated, Providence, R. I. Coloring products. Serial No. 504,654; May 6. Class 6.

Artex Co., Union, N. J. Photographic film, sensitized photographic paper, cameras, etc. Serial No. 504,417; May 6. Class 26.

Atlas-Ansonia Company, The, North Haven, Conn. Rope tighteners, combination garden rakes and hoes, knife sharpeners, etc. Serial No. 510,154; May 6. Class 23.

Atlas Paint and Varnish Co., Inc., New York, N. Y. Ready-mixed paints, varnishes, and paint enamels. Serial No. 492,887; May 6. Class 16.

Automatic Temperature Control Co., Inc., Philadelphia, Pa. Electric motorized operators for valves; electric motorized controls; electric motorized drives, etc. Serial Nos. 509,815–16; May 6. Class 21.

Baby Craft Carriage Co.: *See*—
Brodsky, Irving.

Beers, Charles W., doing business as Identification Photo Service, San Francisco, Calif. Individual photographs. Serial No. 503,048; May 6. Class 38.

Bendix Aviation Corporation, Teterboro, N. J. Electric motors, generators, magnetos, etc. Serial No. 503,418; May 6. Class 21.

Bernal, Rodolfo, San Juan, Puerto Rico. Vitamin preparation. Serial No. 504,088; May 6. Class 6.

Best Manufacturing & Equipment Company, Wichita, Kans. Lawn mowers. Serial No. 509,690; May 6. Class 23.

Binney & Smith Company, New York, N. Y. Product composed of carbon black resin and solvent for coloring paints, etc. Serial No. 498,577; May 6. Class 16.

Bonheur Co., Inc., The, Brooklyn, N. Y. Hair lotion and bay rum, cleansing cream and lemon cleansing cream. Serial No. 486,190; May 6. Class 6.

Bontee Laboratories, Pomona, Calif. Cleanser for manikins and similar painted or enameled display fixtures, etc. Serial No. 504,878; May 6. Class 4.

Borg-Warner Corporation, Chicago, Ill. Refrigerator parts and accessories. Serial No. 515,154; May 6. Class 31.

Boyle-Midway Inc., Jersey City, N. J. Mops. Serial No. 510,875; May 6. Class 29.

Brill Metal Fabricators, Jersey City, N. J. Hampers and garbage cans. Serial No. 516,059; May 6. Class 2.

Brite Specialty Company, New York, N. Y. Leather wrist watch straps and bracelets, and for buckles, etc. Serial No. 498,823; May 6. Class 40.

Brodsky, Irving, doing business as Baby Craft Carriage Co., Brooklyn, N. Y. Doll carriages. Serial No. 497,526; May 6. Class 22.

Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Monthly publication. Serial No. 501,045; May 6. Class 38.

Buttny, Joseph A., doing business as JAB Co., Chicago, Ill. Liquid mouth wash. Serial No. 484,238; May 6. Class 6.

Celanese Corporation of America, New York, N. Y. Airplane and aircraft dopes, lacquers, automobile and furniture polishes, etc. Serial No. 508,096; May 6. Class 16.

Chemical Specialties Company: *See*—
Shapiro, Harry.

Christian Peper Tobacco Company, St. Louis, Mo. Cigarettes and smoking tobacco. Serial No. 506,257; May 6. Class 17.

Christianson, David A., Associates, Inc., New York, N. Y. Razor blades. Serial No. 510,009; May 6. Class 23.

Christina, Vincent, & Company, Inc., New York, N. Y. Medicinal preparation. Serial No. 502,558; May 6. Class 6.

Clover Bags, New York, N. Y. Ladies' handbags. Serial No. 502,121; May 6. Class 3.

Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Carbon paper. Serial No. 506,011; May 6. Class 11.

Continental Ore Company, New York, N. Y. Mineral mixture with the base of magnesite. Serial No. 503,284; May 6. Class 1.

Cowan, Louis G., Incorporated, New York, N. Y. Scripts. Serial No. 506,012; May 6. Class 38.

Crider Corporation, The, Lima, Ohio. Refrigerant compressors. Serial No. 509,267; May 6. Class 31.

Crosley Corporation, The, Cincinnati, Ohio. Radio scripts. Serial Nos. 504,159–60; May 6. Class 38.

Crown Fastener Corporation, Warren, R. I. Separable slide fasteners. Serial No. 508,102; May 6. Class 13.

Cutler-Hammer, Inc., Milwaukee, Wis. Surface heating units. Serial No. 508,646; May 6. Class 21.

D'Hennery, Jean, Inc., New York, N. Y. Perfume and toilet water. Serial No. 503,873; May 6. Class 6.

D'Hennery, Jean, Inc., New York, N. Y. Perfume and toilet water. Serial Nos. 503,875–6; May 6. Class 6.

D'Hennery, Jean, Inc., New York, N. Y. Perfume and toilet water. Serial Nos. 503,878–80; May 6. Class 6.

D'Hennery, Jean, Inc., New York, N. Y. Perfume and toilet water. Serial Nos. 503,883–5; May 6. Class 6.

De Lisser Manufacturing Corp., New Rochelle, N. Y. Electric household appliances. Serial No. 509,566; May 6. Class 21.

Dempster Brothers, Incorporated, Knoxville, Tenn. Machines for preparing aggregates for the manufacture of concrete blocks. Serial No. 504,754; May 6. Class 23.

Dermetics, Inc., Seattle, Wash. Toilet preparations. Serial No. 470,901; May 6. Class 6.

Design Inc., St. Louis, Mo. Refreshment bars, refreshment back bars, tables, and chairs. Serial No. 497,466; May 6. Class 32.

Dewmia Company, South Bend, Ind. Gall stone remedy. Serial No. 502,195; May 6. Class 6.

Duffy, J.: *See*—
Duffy, John J.

Duffy, John J., doing business as J. Duffy, New York, N. Y. Suspension mixture of soap, abrasive and oil for cleansing. Serial No. 504,099; May 6. Class 4.

East Alabama Fabricators, Lafayette, Ala. Rope and sash cords. Serial No. 510,496; May 6. Class 7.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic lenses. Serial No. 509,406; May 6. Class 26.

Elzaguirre, Cristobal B., San Sebastian, Spain. Perfumery articles. Serial No. 491,072; May 6. Class 6.

Ekco Products Company, Chicago, Ill. Flashlights. Serial Nos. 511,735–6; May 6. Class 21.

Electronic Units, Inc., Dayton, Ohio. Artificial fish lures. Serial No. 505,812; May 6. Class 22.

Ellsworth Industries, Inc., Milwaukee, Wis. Furniture, and more particularly for domestic and office chairs. Serial No. 502,811; May 6. Class 32.

Ernst, Edward S., doing business as Ernst Food Sales, New Orleans, La. Frozen shell fish, creole gumbo, and creole courtbouillon. Serial No. 491,002; May 6. Class 46.

Ernst Food Sales: *See*—
Ernst, Edward S.

Evergreen Broom Manufacturing Company, The, Pittsburgh, Pa. Brooms and the like. Serial No. 510,241; May 6. Class 29.

Executive Sales Company: *See*—
Rose, Edith.

Farmcraft, Inc., Portland, Oreg. Insecticides. Serial No. 504,041; May 6. Class 6.

Fernandez, Alice L., doing business as Victory Enterprises, New York, N. Y. Cleaner for pots, and pans, woodwork, etc. Serial No. 496,177; May 6. Class 4.

Fernandez, Alice L., doing business as Victory Enterprises, New York, N. Y. Cleaner for diapers, clothes, and other fabrics. Serial No. 496,179; May 6. Class 4.

Food Fair Stores, Inc., Philadelphia, Pa. Cartoons. Serial No. 504,894; May 6. Class 38.

Forest Converting Corporation, New York, N. Y. Knitted and woven fabrics. Serial No. 495,284; May 6. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 496,074; May 6. Class 42.

Fry, William J., Chicago, Ill. Plastic containers. Serial No. 501,126; May 6. Class 2.

Garrett Corporation, (Airesearch Manufacturing Company Division), Los Angeles, Calif. Automatic controlling valve units. Serial No. 506,925; May 6. Class 26.

Geigy Company, Inc., New York, N. Y. Chemical agent used in the application of dyes. Serial No. 501,663; May 6. Class 6.

General Motors Corporation, Detroit, Mich. Ice trays. Serial No. 507,251; May 6. Class 31.

Gibbons, James, Dublin, Eire. Fancy goods, furnishings, and notions. Serial No. 504,353; May 6. Class 40.

Gillette Safety Razor Company, Boston, Mass. Safety razor blades. Serial No. 509,936; May 6. Class 23.

Glenbrook Laboratories: *See—*
Levinstein, Eugene.

Glick, S. M., Co.: *See—*
Glick, Samuel.

Glick, Samuel, doing business as S. M. Glick Co., Jackson Heights, New York, N. Y. Hair nets. Serial No. 509,837; May 6. Class 39.

Goldicide Laboratories: *See—*
Goldwag, Harry L.

Gold Leaf and Metallic Powders Co., assignor to Gold Leaf and Metallic Powders Inc., New York, N. Y. Bronze powder, aluminum powder, copper powder, etc. Serial No. 488,216; May 6. Class 11.

Gold Leaf and Metallic Powders Inc., assignee: *See—*
Gold Leaf and Metallic Powders Co.

Goldsmith Metal Lath Co., The, Cincinnati, Ohio. Metal roof deck. Serial No. 513,823; May 6. Class 12.

Goldwag, Harry L., doing business as Goldicide Laboratories, New York, N. Y. Germicides and fungicides. Serial No. 493,348; May 6. Class 6.

Grissmer, Earl, Company, Anderson, Ind. Cleaner for rugs, upholstery, woolens, canvas, etc. Serial No. 498,061; May 6. Class 4.

Gyco Instruments Inc., Bloomfield, N. J. Variable transformers. Serial No. 503,725; May 6. Class 21.

Hacker Import Corporation, The, New York, N. Y. Threads and yarns. Serial Nos. 514,815–16; May 6. Class 43.

Hanscom Baking Corporation, Long Island City, N. Y. Cakes and cookies. Serial Nos. 505,825–6; May 6. Class 46.

Haugron Cientificial, S. A., Barcelona, Spain. Preparation for skin diseases, external skin wounds and scratches, etc. Serial No. 498,766; May 6. Class 6.

Hightower Laboratories, Los Angeles, Calif. Medicinal dosages. Serial No. 505,651; May 6. Class 6.

Hillman Periodicals, Inc., New York, N. Y. Magazine. Serial No. 507,005; May 6. Class 38.

Hollywood Doll Manufacturing Company: *See—*
Ippolito, Domenick.

Horn, Max, Zerner & Lewis, Inc., New York, N. Y. China and crystal electric table and floor lamps. Serial No. 510,841; May 6. Class 21.

Ideal Industries, Inc., Sycamore, Ill. Pneumatic tools. Serial No. 502,696; May 6. Class 23.

Identification Photo Service: *See—*
Beers, Charles W.

Industrial Synthetics Corporation, Irvington, N. J. Wristwatch straps. Serial No. 513,114; May 6. Class 40.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial Nos. 496,793–4; May 6. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial No. 496,810; May 6. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial No. 496,812; May 6. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial No. 496,814; May 6. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial Nos. 496,828–9; May 6. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial No. 496,833; May 6. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial No. 496,840; May 6. Class 22.

JAB Co.: *See—*
Buttny, Joseph A.

J. E. T. Pharmacal Co., Allentown, Pa. Boric acid, deodorizing and soothing foot powder, etc. Serial No. 493,194; May 6. Class 6.

Jellum, Inc., Joliet, Ill. Macaroni. Serial No. 509,008; May 6. Class 46.

Johnston, F. A., Jr., and Associates, Inc., St. Louis, Mo. Game. Serial No. 516,190; May 6. Class 22.

Kelco Company, San Diego, Calif. Algin product for use in water paints. Serial No. 507,533; May 6. Class 16.

Kingston-Conley Electric Company, North Plainfield, N. J. Electric motors. Serial No. 511,331; May 6. Class 21.

Klauber, Eleanor F., doing business as Klauber Novelty Co., Chicago, Ill. Card games. Serial No. 515,352; May 6. Class 22.

Klauber Novelty Co.: *See—*
Klauber, Eleanor F.

Kroll Brothers Company, Chicago, Ill. Crib springs. Serial No. 493,127; May 6. Class 32.

Kroll Brothers Company, Chicago, Ill. Cribs. Serial No. 493,128; May 6. Class 32.

Kroll Brothers Company, Chicago, Ill. Crib springs. Serial No. 493,129; May 6. Class 32.

Lang, Gerhard, Brewery, Buffalo, N. Y. Beer and ale. Serial No. 484,095; May 6. Class 48.

Lee, Sharon, Candy Co.: *See—*
Nassar, Nicholas, Jr.

Lehn & Fink Products Corporation, Bloomfield, N. J. Lipsticks. Serial Nos. 503,914–15; May. 6. Class 6.

Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. Serial No. 502,644; May 6. Class 6.

Levinstein, Eugene, doing business as Glenbrook Laboratories, Glendale, N. Y. Analgesic lotion. 504,985; May 6. Class 6.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 502,384; May 6. Class 6.

Londex Limited, London, England. Electric and magnetic relays and parts thereof. Serial No. 497,727; May 6. Class 21.

Lonergan, J. E., Company, Philadelphia, Pa. Instruments for mechanically indicating and/or recording pressures and temperatures of liquids, etc. Serial No. 504,113; May 6. Class 26.

Lopez, Raphael, doing business as Maison Raphael, Paris, France. Perfumes, toilet waters, rouge, lipstick, and face creams. Serial No. 504,115; May 6. Class 6.

Lovell and Covel Company, Cambridge, Mass. Candy. Serial No. 448,735; May 6. Class 46.

Lovell and Covel Company, Cambridge, Mass. Candy. Serial No. 458,077; May 6. Class 46.

Lufkin Rule Company, The, Saginaw, Mich. Tape measures. Serial Nos. 505,657–8; May 6. Class 26.

Lynn Laboratories, Newburgh, N. Y. Nose drops. Serial No. 515,354; May 6. Class 6.

M. & S. Farms, Fresno and Parlier, Calif. Fresh deciduous fruits and fresh grapes. Serial No. 488,825; May 6. Class 46.

Mac-Ray Products, Detroit, Mass. Toy velocipedes. Serial No. 507,919; May 6. Class 22.

Maison Raphael: *See—*
Lopez, Raphael.

Manufacturers and Fabricators, Inc., Elyria, Ohio. Nonelectric industrial furnaces and parts therefor. Serial No. 509,521; May 6. Class 34.

Martin Fish Lure Co., Seattle, Wash. Fish lures and fish baiting devices. Serial No. 490,679; May 6. Class 22.

Marwin Company, The, West Caldwell, N. J. Metallographic abrasives and materials. Serial No. 496,851; May 6. Class 4.

Matthews of Erie, Inc., Erie, Pa. Electrically operated instruments. Serial No. 515,667; May 6. Class 44.

Mayrand, Louis P., Greensboro, N. C. Poultry remedy. Serial No. 505,271; May 6. Class 6.

Messina, Anthony, New York, N. Y. Fitted sewing kits. Serial No. 509,714; May 6. Class 40.

Milani, Louis, Foods, Inc., Chicago, Ill. Thousand Island dressing. Serial No. 507,062; May 6. Class 46.

Milwaukee Lace Paper Company, Milwaukee, Wis. Paper cups. Serial Nos. 493,799–800; May 6. Class 2.

Minicrafters of Baltimore, Baltimore, Md. Toy and model airplanes and parts thereof. Serial No. 497,399; May 6. Class 22.

Modern Materials Inc., Los Angeles, Calif. Asphalts and asphalt compounds. Serial No. 511,825; May 6. Class 12.

Molloy Machine Corporation, Chicago, Ill. Insulation blowing machines. Serial No. 500,113; May 6. Class 23.

Nassar, Nicholas, Jr., doing business as Sharon Lee Candy Co., Toledo, Ohio. Chocolates, candy, and nut meats. Serial No. 493,929; May 6. Class 46.

National Pressure Cooker Company, Eau Claire, Wis. Interval timers. Serial No. 505,118; May 6. Class 27.

Nelkin, Frances, New York, N. Y. Combs and hat fastening devices. Serial No. 513,524; May 6. Class 40.

Newton, Chambers & Company Limited, near Sheffield, England. Starch and blue, perfumery, disinfectant fluids, etc. Serial No. 501,001; May 6. Class 6.

Oil City Brass Work, The, Beaumont, Tex. Trawler blocks. Serial No. 506,889; May 6. Class 23.

Okonite Company, The, Passaic, N. J. Non-metallic tape, non-metallic sheaths, and insulation. Serial No. 510,272; May 6. Class 21.

Pal Blade Co., Inc., New York, N. Y. Razor blades. Serial No. 507,337; May 6. Class 23.

Palmer, John G., Chicago, Ill. Razor blades. Serial No. 509,719; May 6. Class 23.

Palmer Manufacturing Corporation, Phoenix, Ariz. Heating apparatus, specifically gas fired furnaces. Serial No. 516,593; May 6. Class 34.

Patterson Publishing Company, Chicago, Ill. Section in a magazine. Serial No. 502,454; May 6. Class 38.

Pennex Products Co., Incorporated, Pittsburgh, Pa. Medicinal preparations. Serial No. 496,267; May 6. Class 6.

Perma-Temp Products, Inc., Philadelphia, Pa. Frozen food cabinets. Serial No. 516,718; May 6. Class 31.

Pessl, Helene, Inc., New York, N. Y. Soap. Serial No. 500,768; May 6. Class 4.

Peterson, Charles A., Company, The, Cleveland, Ohio. Shelled edible nuts. Serial No. 488,926; May 6. Class 46.

Pharma-Craft Corporation, The, New York, N. Y. Hair tonic. Serial No. 505,444; May 6. Class 6.

Phillips Pharmaceutical Products, Inc., Darien, Conn. Liniments. Serial No. 489,008; May 6. Class 6.

Plystone Company: *See—*
Shelton, Carl M.

Practical Methods for Industry, Inc., New York, N. Y. Bi-monthly publication. Serial No. 491,586; May 6. Class 38.

Prentiss Wabers Products Co., Wisconsin Rapids, Wis. Portable picnic ice boxes. Serial No. 518,320; May 6. Class 31.

Presto Manufacturing Co., New York, N. Y. Make-up sponges and sponge brushes. Serial No. 515,449; May 6. Class 29.

R & E Doll & Novelty Co., New York, N. Y. Rubber dolls. Serial No. 518,390; May 6. Class 22.

Raxon Fabrics Co., New York, N. Y. Silk and rayon fabrics in the piece. Serial No. 516,634; May 6. Class 42.

Raxor Trading Corporation, New York, N. Y. Mechanically grooved phonograph records. Serial No. 506,390; May 6. Class 36.

Reflectal Corporation, New York, N. Y. Heat protecting and insulating material. Serial No. 515,198; May 6. Class 12.

Regal Chemical Corporation, Brooklyn, N. Y. Insecticide dispensers. Serial No. 496,470; May 6. Class 6.

Rogers, Glenn M., Inc., Buffalo, N. Y. Unitary structures. Serial No. 500,828; May 6. Class 23.

Ronson Art Metal Works, Inc., Newark, N. J. Flints. Serial No. 506,962; May 6. Class 34.

Rose, Edith, doing business as Executive Sales Company, Philadelphia, Pa. Typewriter paper and manuscript covers. Serial No. 506,963; May 6. Class 37.

Rosser, Robert F., Miami, Fla. Clamp for holding concrete forms. Serial No. 504,634; May 6. Class 12.

Rotwitt, Marius, Copenhagen, Denmark. Tooth paste. Serial No. 490,399; May 6. Class 6.

Sasha Studios, Los Angeles, Calif. Figurines and statuettes. Serial No. 488,708; May 6. Class 50.

Schirmer, E. C., Music Company, Boston, Mass. Musical publications. Serial No. 504,636; May 6. Class 38.

Schnair, M. R., & Co.: *See—*
Schnair, Milton R.

Schnair, Milton R., doing business as M. R. Schnair & Co., Chicago, Ill. Receptacle-like device. Serial No. 494,130; May 6. Class 26.

Seagren, Carl, Enterprises, Brooklyn, N. Y. Edible decalcomania. Serial No. 503,395; May 6. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Fibre base enameled surface wall covering. Serial No. 488,934; May 6. Class 20.

Selectronic Dispersions, Inc., Montclair, N. J. Plastic compounds, alloys, and dispersions. Serial No. 507,345; May 6. Class 1.

Shapiro, Harry, doing business as Chemical Specialties Company, New York, N. Y. Insecticidal shampoo. Serial No. 497,972; May 6. Class 6.

Shelton, Carl M., doing business as Plystone Company, Columbia, S. C. Semi-liquid resurfacing material. Serial No. 498,259; May 6. Class 12.

Shepherd Worsted Mills, Newton, Mass. Yarns. Serial Nos. 514,630–1; May 6. Class 43.

Sherman Products: *See—*
Sherman, Sol.

Sherman, Sol, doing business as Sherman Products, New York, N. Y. Neckties. Serial No. 509,676; May 6. Class 39.

Simonsen, Charles W., doing business as Air Cleaner Service Company, Glencullen, Oreg. Air cleaners and oil filters and filter elements. Serial No. 503,534; May 6. Class 23.

Sinclair, John, Limited, Newcastle-on-Tyne, England. Smoking tocacco and cigarettes. Serial Nos. 501,016–17; May 6. Class 17.

Sioux Electrical Appliance Co., Sioux City, Iowa. Electrical refrigerators. Serial No. 508,392; May 6. Class 31.

Smith-Johnson Corporation, Los Angeles, Calif. Machine tool equipment. Serial No. 482,509; May 6. Class 23.

Sondheim, Herbert, Inc., New York, N. Y. Piece goods of cotton, rayon and wool, etc. Serial No. 473,347; May 6. Class 42.

Southern Dairies, Inc., Washington, D. C. Ice cream, frozen confections, fluid milk, etc. Serial No. 479,994; May 6. Class 46.

Southern Dairies, Inc., Washington, D. C. Ice cream, ices, sherbets, etc. Serial No. 479,996; May 6. Class 46.

Southern Dairies, Inc., Washington, D. C. Ice cream, ice cream tarts, sherbets, etc. Serial No. 479,997; May 6. Class 46.

Southern Dairies, Inc., Washington, D. C. Ice cream, ices, sherbets, etc. Serial No. 479,999; May 6. Class 46.

Southern Dairies, Inc., Washington, D. C. Milk, cream, buttermilk, etc. Serial No. 480,802; May 6. Class 46.

Southern Saw Works, Inc., East Point, Atlanta, Ga. Saw bits and saw shanks. Serial No. 510,283; May 6. Class 23.

Spalding, A. G., & Bros. Inc., Chicopee, Mass. Hand luggage and suitcases. Serial No. 502,539; May 6. Class 3.

Spartan Products Co., Brooklyn, N. Y. Hair nets. Serial No. 507,862; May 6. Class 39.

Specialty Development Company, The, Bluffton, Ind. Bakery product. Serial No. 494,290; May 6. Class 46.

Spotnails, Inc., Chicago, Ill. Machines for driving securing elements. Serial No. 500,633; May 6. Class 23.

Standard Fuel Engineering Company, Detroit, Mich. Fire brick. Serial No. 504,800; May 6. Class 12.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Cleaning compounds. Serial No. 505,988; May 6. Class 4.

Staze, Inc., New York, N. Y. Preparation for cleaning dentures. Serial No. 503,267; May 6. Class 4.

Steinam, A., Company, Inc., New York, N. Y. Rayon piece goods. Serial No. 506,701; May 6. Class 42.

Stewart, Fred P., Miami Beach, Fla. Concentrated cleaning product. Serial No. 467,822; May 6. Class 4.

Strobo Research, Milwaukee, Wis. Apparatus and accessories used in producing a high speed light source. Serial No. 508,320; May 6. Class 26.

Structural Insulation Corporation, The, Quincy, Ill. Building board. Serial No. 510,129; May 6. Class 12.

Sulloway Hosiery Mills, Franklin, N. H. Hosiery. Serial No. 492,969; May 6. Class 39.

Swallow, Kingston F., Milwaukee, Wis. Cork pullers. Serial No. 502,855; May 6. Class 23.

Telicon Corporation, New York, N. Y. Radio and television receiving sets and radio and television signal transmission sets, etc. Serial No. 492,532; May 6. Class 21.

Terrill, D. D., Saw Company: *See—*
Terrill, Delmer D.

Terrill, Delmer D., doing business as D. D. Terrill Saw Company, Bangor, Maine. Saw blades. Serial No. 505,532; May 6. Class 23.

Thriloplane Company, Los Angeles, Calif. Toy merry-go-rounds. Serial No. 497,510; May 6. Class 22.

Todd, Floyd, doing business as Todd Scientific Co., Springfield, Pa. Mercury diffusion pumps. Serial No. 500,262; May 6. Class 26.

Todd Scientific Co.: *See—*
Todd, Floyd.

Tool Specialty Co., Los Angeles, Calif. Metal working tools. Serial No. 506,068; May 6. Class 23.

Trimedge, Inc., Youngstown, Ohio. Metallic and plastic mouldings. Serial Nos. 491,526–7; May 6. Class 12.

Trump, F. J.: *See—*
Trump, Frederic J.

Trump, Frederic J., doing business as F. J. Trump, Stamford, Conn. Cleansing cream, cold cream, lipstick, etc. Serial No. 505,086; May 6. Class 6.

Ung, Thomas, doing business as United China Trading Co., Los Angeles, Calif. Brilliantine, hair oil, hand lotion, etc. Serial No. 501,792; May 6. Class 6.

United China Trading Co.: *See—*
Ung, Thomas.

United States Plywood Corporation, New York, N. Y. Impregnated paper materials. Serial No. 492,478; May 6. Class 12.

Universal Zonolite Insulation Company, Chicago, Ill. Fertilizer preparation. Serial No. 502,860; May 6. Class 10.

Unsinger-A P Corporation, Fremont, Ohio. Razor blades. Serial No. 510,133; May 6. Class 23.

Uris Sales Corp., New York, N. Y. Watches. Serial No. 509,803; May 6. Class 27.

Utility Yarns and Supply Company: *See—*
Weinberg, Irving R.

Vernan Manufacturing Company, Johnstown, Pa. Product for bringing out the luster and conditioning the hair of dogs. Serial No. 507,281; May 6. Class 6.

Victory Enterprises: *See—*
Fernandez, Alice L.

Vokes Limited, Guildford, England. Air filters and oil filters. Serial No. 512,879; May 6. Class 31.

Walker Vitamin Products, Inc., Mount Vernon, N. Y. Dietary supplement in liquid form. Serial No. 504,809; May 6. Class 6.

Waltz, Guy G., doing business as Waltz the Camera Man, Canton, Ohio. Photographic prints, snap shots, enlargements and framed photographic prints. Serial No. 507,444; May 6. Class 38.

Waltz the Camera Man: *See—*
Waltz, Guy G.

Warner, William R., & Co., Inc., New York, N. Y. Composition of penicillin and aluminum hydroxide gel. Serial Nos. 504,232–3; May 6. Class 6.

Weinberg, Irving R., doing business as Utility Yarns and Supply Company, New York, N. Y. Yarns. Serial No. 510,371; May 6. Class 43.

Welwel Cigar Mfg. Co., New York, N. Y. Cigars. Serial No. 506,975; May 6. Class 17.

Western Exterminating Co., Inc., Newark, N. J. Liquid and powder insecticides. Serial No. 505,024; May 6. Class 6.

White Mountain Freezer Company, Inc., The, Nashua, N. H. Ice cream freezers. Serial No. 517,335; May 6. Class 31.

Whitty Company, Inc., Boston (Brighton), Mass. Electrical controls. Serial No. 465,240; May 6. Class 21.

Wilkening Manufacturing Company, Philadelphia, Pa. Toy. Serial No. 512,944; May 6. Class 22.

Winthrop Chemical Company, Inc., New York, N. Y. Units for the parenteral administration of medicinals. Serial No. 515,350; May 6. Class 44.

Wolf, L., & Company, Chicago, Ill. Electric floor and table lamps and shades therefor. Serial No. 509,486; May 6. Class 21.

Zakwin, David D., Los Angeles, Calif. Finger rings, earrings, metal wrist watch bands, etc. Serial No. 508,198; May 6. Class 28.

LIST OF REGISTRANTS OF TRADE-MARKS

Academy Award Products, Inc., New York, N. Y. Electric, gas, ice, and dry ice refrigerators. 429,579; May 6; Serial No. 500,445; published Feb. 18, 1947. Class 31.

Aktiebolaget Kanthal, Hallstahammar, Sweden. Hearths and dampers. 429,574; May 6; Serial No. 499,982; published Feb. 18, 1947. Class 34.

Alabastine Company, to Alabastine Paint Products, Grand Rapids, Mich. Wall paint or coating. 50,358; re-renewed Mar. 13, 1947. O. G. May 6. Class 16.

Alabastine Paint Products: *See—*
Alabastine Company.

Allen-Brash Company, Coraopolis, Pa. Wood putty. 429,647; May 6. Class 12.

American Chain & Cable Company, Inc.: *See—*
Standard Chain Co.

American Chain & Cable Company, Inc., New York, N. Y., and Bridgeport, Conn. Lawn mowers. 429,532; May 6; Serial No. 482,961; published Jan. 28, 1947. Class 23.

American Glossite Co., Inc., Putnam, Conn. Hat braids. 429,629; May 6. Class 40.

American Spectacle Co., Inc., assignee: *See—*
Comptone Company.

American Spectacle Co., Inc., New York, N. Y. Sun glasses. 429,554–5; May 6; Serial Nos. 495,004–5; published July 23, 1946. Class 26.

American Syrup & Sorghum Co.: *See—*
American Syrup and Sorghum Co.

American Syrup and Sorghum Co., to American Syrup & Sorghum Co., St. Louis, Mo. Blend of corn sirup, molasses, and pure country sorghum. 221.109; renewed Nov. 23, 1946. O. G. May 6. Class 46.

American Weekly, Inc., New York, N. Y. Department, feature, or section of a newspaper. 429,625; May 6. Class 38.

Antoine de Paris, Inc., New York, N. Y. Hand and bath soap. 429,589; May 6; Serial No. 501,810; published Feb. 18, 1947. Class 4.

Army Ordnance Association, Washington, D. C. Quarterly publication. 429,618; May 6. Class 38.

Asam Brothers, Inc., Philadelphia and Reading, Pa. Wallpapers. 429,622; May 6. Class 37.

Baldwin Belting Inc.: *See—*
Baldwin Belting & Leather Co., Inc.

Baldwin Belting & Leather Co., Inc., to Baldwin Belting Inc., New York, N. Y. Leather belting. 219,902; renewed Oct. 26, 1946. O. G. May 6. Class 35.

Ballard & Ballard Co., Louisville, Ky. Wheat flour. 429,563; May 6; Serial No. 497,989; published Feb. 11, 1947. Class 46.

Basford, H. R., Co., San Francisco, Calif. Wrenches and pliers. 429,536; May 6; Serial No. 484,388; published Dec. 25, 1945. Class 23.

Belding Heminway Company: *See—*
Corticelli Silk Company, The.

Bliss, E. W., Company: *See—*
Toledo Machine & Tool Co., The.

Brian Fabrics Corp., New York, N. Y. Ladies' handkerchiefs, scarves, and fascinators. 429,531; May 6; Serial No. 482,270; published Feb. 18, 1947. Class 39.

Briquet S. A. (Lighter S. A.), Lausanne, Switzerland. Pyrophoric cigarette lighters. 429,613; May 6. Class 34.

Bristol-Myers Company: *See—*
Evans, Geo. B.

Brunswick-Balke-Collender Company, The, Chicago, Ill., and Wilmington, Del. Bowling ball cleaner. 429,573; May 6; Serial No. 499,537; published Feb. 4, 1947. Class 4.

Calgon, Inc., Pittsburgh, Pa. Detergent chemical compound for washing milking machines, etc. 429,593; May 6; Serial No. 501,899; published Feb. 18, 1947. Class 4.

California Spray Chemical Corporation, Wilmington, Del., and Richmond, Calif. Periodical publications. 429,604; May 6; Serial No. 503,865; published Jan. 28, 1947. Class 38.

Calot Modes, Inc., New York, N. Y. Ladies' hats. 429,600; May 6; Serial No. 503,054; published Feb. 18, 1947. Class 39.

Cal-Pacific Fisheries, Wilmington, Calif. Canned fish. 429,621; May 6. Class 46.

Carborundum Company, The, Niagara Falls, N. Y. Molded abrasive articles. 429,548; May 6; Serial No. 492,682; published Feb. 11, 1947. Class 4.

Cate, S. L., Company: *See—*
Cate, Sidney L.

Cate, Sidney L., doing business as S. L. Cate Company, Salt Lake City, Utah. Farm and road spreading machinery. 429,581; May 6; Serial No. 500,645; published Feb. 4, 1947. Class 23.

Chase Candy Company, assignee: *See—*
Clinton Industries, Inc.

Chipmans, Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co., Inc., New York, N. Y. Hosiery. 61,376; re-renewed Mar. 19, 1947. O. G. May 6. Class 39.

Chipman's, Chas., Sons Co., Inc.: *See—*
Chipmans, Chas., Sons.

Church & Dwight Company, to Church & Dwight Co. Inc., New York, N. Y. Saleratus and soda. 59,096; re-renewed Jan. 1, 1947. O. G. May 6. Class 6.

Church & Dwight Co. Inc.: *See—*
Church & Dwight Company.

Clinton Industries, Inc., Chicago, Ill., assignor to Chase Candy Company. Candy. 429,566; May 6; Serial No. 498,600; published Feb. 18, 1947. Class 46.

Cohen, Charles: *See—*
Peter Pan Shoe Store.

Colgate & Company, to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap chips. 225,536; renewed Mar. 22, 1947. O. G. May 6. Class 4.

Colgate-Palmolive-Peet Company: *See—*
Colgate & Company.

Columbia Chemical Works, Brooklyn, to Parsons Ammonia Company, Inc., New York, N. Y. Aqua-ammonia. 60,715; re-renewed Feb. 19, 1947. O. G. May 6. Class 6.

Columbia Chemical Works, Brooklyn, to Parsons Ammonia Company, Inc., New York, N. Y. Aqua ammonia. 61,007; re-renewed Feb. 26, 1947. O. G. May 6. Class 6.

Combs, Inc., Leominster, Mass. Combs, and hat and hair fasteners and retainers. 429,637; May 6. Class 40.

Comfort Press, Inc., St. Louis, Mo. Magazines. 429,642; May 6. Class 38.

Comptone Company, assignor to American Spectacle Co., Inc., New York, N. Y. Sun glasses, eye glasses, spectacles, etc. 429,553; May 6; Serial No. 494,783; published July 23, 1946. Class 26.

Consolidated Cosmetics, assignor to Veralin, Inc., Chicago, Ill. Ground bone fertilizer, dried blood fertilizer, and animal manure compounds. 429,580; May 6; Serial No. 500,603; published Jan. 28, 1947. Class 10.

Corticelli Silk Company, The, Florence, Mass., to Belding Heminway Company, New York, N. Y. Threads of silk, cotton, flax, etc. 225,456; renewed Mar. 22, 1947. O. G. May 6. Class 43.

Cuesta Rey and Company: *See—*
Cuesta, Rey & Co.

Cuesta, Rey & Co., West Tampa, to Cuesta Rey and Company, Tampa, Fla. Cigars. 60,148; re-renewed Jan. 29, 1947. O. G. May 6. Class 17.

Current Detective Stories, Inc., New York, N. Y. Magazine or publication. 429,643; May 6. Class 38.

Curtiss-Wright Corporation, New York and Buffalo, N. Y.; Columbus, Ohio; Louisville, Ky.; St. Louis, Mo., and elsewhere. Airplanes and structural parts thereof. 429,526; May 6; Serial No. 470,656; published Jan. 21, 1947. Class 19.

D. P. W. Company, The, Akron, Ohio. Ready-mixed paints. 224,808; renewed Mar. 8, 1947. O. G. May 6. Class 16.

Daly Bros. Shoe Co., Inc., Boston, Mass. Shoes. 429,564; May 6; Serial No. 498,121; published Feb. 18, 1947. Class 39.

Davidson Publishing Company, Chicago, Ill. Magazine. 429,638; May 6. Class 38.

Diamond, Leon, doing business as Swiss Laboratory, Cleveland, Ohio. Wax and grease removers, hand cleansers, and soaps. 429,630–1; May 6. Class 4.

Diamond, Leon, doing business as Swiss Laboratory, Cleveland, Ohio. Automobile body solder, solder and brazing and welding metals. 429,633; May 6. Class 14.

DoAll Company, The, assignor to The DoAll Company, Des Plaines, Ill. Saws and saw bands. 429,595; May 6; Serial No. 502,429; published Feb. 11, 1947. Class 23.

Doub, Peter B., Los Angeles, Calif. Printed charts. 429,527; May 6; Serial No. 477,462; published Feb. 18, 1947. Class 38.

Dubuque Packing Company, Dubuque, Iowa. Canned prepared pork meat. 429,529; May 6; Serial No. 481,890; published Feb. 11, 1947. Class 46.

Duplex Fabrics Corporation: *See—*
Duplex Silk Mills, Inc.

Duplex Silk Mills, Inc., to Duplex Fabrics Corporation, New York, N. Y. Sheer silk crepe in the piece. 220,473; renewed Nov. 9, 1946. O. G. May 6. Class 42.

Du Pont, E. I., Company, to E. I. du Pont de Nemours and Company, Wilmington, Del. Gunpowder, including smokeless powder. 57,418; re-renewed Nov. 13, 1946. O. G. May 6. Class 9.

Du Pont, E. I., de Nemours and Company: *See—*
Du Pont, E. I., Company.
Hazard Powder Company, The.

Elcro Tool Co., Inc., Rochester, N. Y. Blanking and forming dies, snap and plug gages, and drill jigs. 429,587; May 6; Serial No. 501,651; published Feb. 11, 1947. Class 23.

Endicott Johnson Corporation, Endicott, N. Y. Leather boots and shoes. 225,495; renewed Mar. 22, 1947. O. G. May 6. Class 39.

Englund, Everett H., assignee: *See—*
Morse, Fred J.

Evans, Geo. B., Philadelphia, Pa., to Bristol-Myers Company, New York, N. Y. Hair remover. 218,261; renewed Sept. 21, 1946. O. G. May 6. Class 6.

Ever-Tite Alloys Corporation, New York, N. Y. Brazing alloys and welding alloys. 429,628; May 6. Class 14.

F-R Publishing Corporation, The, New York, N. Y. Magazine column. 429,590; May 6; Serial No. 501,841; published Jan. 21, 1947. Class 38.

Feldmühle A. G., Rorschach: *See—*
Feldmühle A.-G., vormals Loeb, Schoenfeld & Co. Rorschach.

Feldmühle A.-G. vormals Loeb, Schoenfeld & Co. Rorschach, to Feldmühle A. G., Rorschach, Rorschach, Switzerland. Artificial-silk yarns, artificial-silk twisted threads. 222,820; renewed Jan. 11, 1947. O. G. May 6. Class 43.

Feldmühle A.-G., vormals Loeb, Schoenfeld & Co. Rorschach, to Feldmühle A. G., Rorschach, Rorschach, Switzerland. Fabrics. 224,265; renewed Feb. 22, 1947. O. G. May 6. Class 42.

Ferriot Bros. Inc., Akron, Ohio. Air operated mechanic's hand tools. 429,539; May 6; Serial No. 486,142; published Feb. 11, 1947. Class 23.

Firestone Industrial Products Company: *See—*
Firestone Tire & Rubber Company, The.

Firestone Rubber & Latex Products Company: *See—*
Firestone Tire & Rubber Company, The.

Firestone Tire & Rubber Company, The, doing business as Firestone Rubber & Latex Products Company, Fall River, Mass., and Firestone Industrial Products Company, Akron, Ohio. Fatigue packs. 429,603; May 6; Serial No. 503,360; published Jan. 14, 1947. Class 19.

First Industrial Corporation: *See—*
Holtzer-Cabot Electric Co., The.

Fisher Flouring Mills Company, Seattle, Wash. Cereal product. 429,543; May 6; Serial No. 489,212; published Feb. 11, 1947. Class 46.

Flour City Ornamental Iron Company, The, Minneapolis, Minn. Boats (namely small pleasure craft including row boats), and oars. 429,596; May 6; Serial No. 502,432; published Jan. 21, 1947. Class 19.

Ford Motor Company, Dearborn, Mich. Motorcars. 429,559–60; May 6; Serial Nos. 495,873–4; published Jan. 14, 1947. Class 19.

Galter, Louis, Chicago, Ill. Magazine. 429,609; May 6. Class 38.

Garland, Douglas C., Los Angeles, Calif. Cooked food product. 429,557; May 6; Serial No. 495,466; published Feb. 11, 1947. Class 46.

Gemmill, C. H., doing business as C. H. Gemmill Company, Chicago, Ill. Metal cutting and forming tools. 429,533; May 6; Serial No. 483,611; published Feb. 4, 1947. Class 23.

Gemmill, C. H., Company: *See—*
Gemmill, C. H.

General Juice's, Inc., Ocala, Fla. Canned citrus juices. 429,601; May 6; Serial No. 503,076; published Feb. 11, 1947. Class 46.

General Mills, Inc.: *See—*
Sperry Flour Company.

General Shoe Corporation, Nashville, Tenn. Shoe and boot polish. 429,561; May 6; Serial No. 495,963; published Feb. 18, 1947. Class 4.

General Tire & Rubber Company, The: *See—*
India Tire and Rubber Company, The.

Gillette Safety Razor Company, Boston, Mass. Safety razors and safety razor blades. 429,567; May 6; Serial No. 498,618; published Feb. 18, 1947. Class 23.

Gillette Safety Razor Company, Boston, Mass. Safety razors and safety razor blades. 429,568; May 6; Serial No. 498,619; published Feb. 4, 1947. Class 23.

Gillette Safety Razor Company, Boston, Mass. Safety razors and safety razor blades. 429,569–70; May 6; Serial No. 498,620–1; published Feb. 18, 1947. Class 23.

Gillette Safety Razor Company, Boston, Mass. Safety razors and safety razor blades. 429,571; May 6; Serial No. 498,623; published Feb. 18, 1947. Class 23.

Glatron, Baschet & Cie., to Glatron Pere & Fils, Baschet & Cie., Paris, France. Cigarette papers. 205,921; renewed Nov. 17, 1945. O. G. May 6. Class 8.

Glatron Pere & Fils, Baschet & Cie.: *See—*
Glatron, Baschet & Cie.

Globe Milker Inc., Des Moines, Iowa. Milking machines. 429,541; May 6; Serial No. 487,614; published Feb. 11, 1947. Class 23.

Greenblatt, Samuel, doing business as Monogram Soap Company, Hollywood, Calif. Soap. 429,551; May 6; Serial No. 493,923; published Feb. 11, 1947. Class 4.

Grinnell Lithographic Co., Inc., New York, N. Y. Greeting cards. 429,645; May 6. Class 38.

Haco Gesellschaft A. G.: *See—*
Haco-Gesellschaft A.-G. Bern.

Haco-Gesellschaft A.-G. Bern, Gumligen, to Haco Gesellschaft A. G., Bern-Guemligen, Switzerland. Condiments, sauces, bouillon cubes, and soup tablets. 209,045; renewed Feb. 16, 1946. O. G. May 6. Class 46.

Hale Bros., Inc., to Hale Bros. Stores, Inc., San Francisco, Calif. Ladies' dresses. 223,665; renewed Feb. 8, 1947. O. G. May 6. Class 39.

Hale Bros. Stores, Inc.: *See—*
Hale Bros., Inc.

Harbauer Company, The, Toledo, Ohio. Tomato catchup, pickles, vinegar, etc. 224,977; renewed Mar. 8, 1947. O. G. May 6. Class 46.

Harrison Studios, Portland and Gresham, Oreg., and Santa Monica, Calif. Photographs, portraits, and pictures. 429,540; May 6; Serial No. 486,673; published Jan. 21, 1947. Class 38.

Hazard Powder Company, The, Hazardville, Conn., to E. I. du Pont de Nemours and Company, Wilmington, Del. Cannon-powder. 58,012; re-renewed Dec. 4, 1946. O. G. May 6. Class 9.

Hazard Powder Company, The, Hazardville, Conn., to E. I. du Pont de Nemours and Company, Wilmington, Del. Gunpowder. 58,013; re-renewed Dec. 4, 1946. O. G. May 6. Class 9.

Hearst Corporation, The, New York, N. Y. Newspaper cartoon. 429,594; May 6; Serial No. 502,292; published Jan. 21, 1947. Class 38.

Hearst Corporation, The, New York, N. Y. Newspaper section, feature or department. 429,632; May 6. Class 38.

Hearst Magazines Inc., New York, N. Y. Magazine feature, section or department. 429,598; May 6; Serial No. 502,751; published Feb. 18, 1947. Class 38.

Heinrich, H. H., Inc., New York, N. Y. Apparatus adapted to receive and facilitate the proper setting of printing elements. 429,550; May 6; Serial No. 493,352; published Feb. 4, 1947. Class 23.

Heirloom Needlework Guild, Inc., New York, N. Y. Crocheting and knitting thread and yarn. 429,620; May 6. Class 43.

Hercules Powder Company, Wilmington, Del. Smokeless shotgun powder. 225,253; renewed Mar. 15, 1947. O. G. May 6. Class 9.

Holtzer-Cabot Electric Co., The, Brookline, Mass., to First Industrial Corporation, Wilmington, Del. Automatic gaslighting apparatus, annunciators, complete telephones and parts thereof, etc. 58,523; re-renewed Dec. 18, 1946. O. G. May 6. Class 21.

Houston Oil Field Material Company, Inc., Houston, Tex. Oil well tools and parts thereof. 429,546; May 6; Serial No. 492,268; published Feb. 18, 1947. Class 23.

India Tire and Rubber Company, Mogadore and Akron, to The General Tire & Rubber Company, Akron, Ohio. Pneumatic automobile tires. 224,998; renewed Mar. 8, 1947. O. G. May 6. Class 35.

International Nickel Company, Inc., The, New York, N. Y. Nickel in the form of cold drawn seamless tubing, cold drawn welded tubing, etc. 429,584; May 6; Serial No. 501,456; published Feb. 11, 1947. Class 14.

International Nickel Company, Inc., The, New York, N. Y. Nickel in the form of cold rolled strip. 429,585–6; May 6; Serial Nos. 501,457–8; published Feb. 11, 1947. Class 14.

Jordan Marsh Company, Boston, Mass. Witch-hazel cream, cucumber cream, cold cream, etc. 224,686; renewed Mar. 1, 1947. O. G. May 6. Class 6.

Jordan Marsh Company, Boston, Mass. Toilet tissue. 225,200; renewed Mar. 15, 1947. O. G. May 6. Class 37.

Kelso, Willis A., Sharpsburg, Pa. Wheel elevators in the nature of blocks, having tapered end portions. 429,544; May 6; Serial No. 490,124; published Feb. 11, 1947. Class 23.

Kelvinator Corporation, to Nash-Kelvinator Corporation, Detroit, Mich. Electrically-operated mechanical refrigerators. 219,339; renewed Oct. 19, 1946. O. G. May 6. Class 31.

Kenney Manufacturing Company, Cranston, R. I. Metal curtain rods, drapery hardware, and window-shade hardware. 225,240; renewed Mar. 15, 1947. O. G. May 6. Class 13.

Kerrigan Iron Works, Inc., Nashville, Tenn. Open steel grating, pipe rails, stair treads, etc. 429,640; May 6. Class 12.

Knouse Corporation, The, Peach Glen, Pa., assignor to National Fruit Product Company, Inc., Winchester, Va. Canned fruit. 429,605; May 6; Serial No. 504,110; published Feb. 18, 1947. Class 46.

Laclede Stoker Company, doing business as Tower Grove Foundry, St. Louis, Mo. Iron castings. 429,545; May 6; Serial No. 491,140; published July 9, 1946. Class 14.

Latin-American Buyers Guide Co., New York, N. Y. Quarterly publication. 429,617; May 6. Class 38.

Lehn & Fink Products Corporation: *See*—
Lysol, Incorporated.

Leon, May M., Los Angeles, Calif. Articles in newspapers and magazines. 429,578; May 6; Serial No. 500,398; published Feb. 18, 1947. Class 38.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. 429,556; May 6; Serial No. 495,058; published Aug. 13, 1946. Class 4.

Levin, Bruno, doing business under the name, United Video, Brooklyn, N. Y. Title for a periodical. 429,562; May 6; Serial No. 497,109; published Feb. 18, 1947. Class 38.

Lister-Torsen, Aksel, Brooklyn, N. Y. Venetian blinds. 429,612; May 6. Class 32.

Lodi Fertilizer Company, Lodi, Calif. Mineral soil conditioner. 429,576; May 6; Serial No. 500,234; published Feb. 18, 1947. Class 10.

Lustberg, Nast & Co., Inc., New York, N. Y. Dress and negligee shirts. 225,538; renewed Mar. 22, 1947. O. G. May 6. Class 39.

Lysol, Incorporated, to Lehn & Fink Products Corporation, Bloomfield, N. J. Soap, shaving cream, and preparations having cleaning qualities. 225,545; renewed Mar. 22, 1947. O. G. May 6. Class 4.

M and M Wood Working Company, Portland, Oreg. Laminated sheet material. 429,650; May 6. Class 12.

Markwell Mfg. Co., Inc., New York, N. Y. Stapling machines. 429,542; May 6; Serial No. 488,860; published Jan. 28, 1947. Class 23.

Marlin Firearms Company, The, New Haven, Conn. Rifles and shotguns. 429,575; May 6; Serial No. 500,101; published Feb. 4, 1947. Class 9.

Materials Publishing Company: *See*—
Rimbach, Richard.

Maurella Products Co., Inc., New York, N. Y. Soap. 429,591; May 6; Serial No. 501,856; published Feb. 18, 1947. Class 4.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Publication. 429,624; May 6. Class 38.

Mermentau Rice Mill Co., Inc., Mermentau, La. Rice. 225,609; renewed Mar. 22, 1947. O. G. May 6. Class 46.

Mettenleiter, Michael W., New York, N. Y. Gin rummy sets. 429,626; May 6. Class 22.

Monogram Soap Company: *See*—
Greenblatt, Samuel.

Morse, F. J., & Co.: *See*—
Morse, Fred J.

Morse, Fred J., doing business as F. J. Morse & Co., assignor to E. H. Englund, St. Paul, Minn. Liquid composition for hardening cement floors. 429,639; May 6. Class 12.

Munro & Company Limited, Edinburgh, Scotland. Hand knitting wools. 429,614; May 6. Class 43.

Murphy, John W., doing business as Murphy Laboratories, assignor to Murphy Laboratories, Inc., Upper Darby, Pa. Soap. 429,636; May 6. Class 4.

Murphy Laboratories: *See*—
Murphy, John W.

Murphy Laboratories Inc., assignee: *See*—
Murphy, John W.

Nash-Kelvinator Corporation: *See*—
Kelvinator Corporation.

National Fruit Product Company, Inc., assignee: *See*—
Knouse Corporation, The.

National Grocery Company, doing business as Reliance Pure Foods, Seattle, Wash. Coffee and table syrup. 429,549; May 6; Serial No. 492,943; published Feb. 11, 1947. Class 46.

New Council of American Business, Inc., Washington, D. C. Publications. 429,588; May 6; Serial No. 501,682; published Jan. 21, 1947. Class 38.

Non-Pareil Publishing Corp., New York, N. Y. Magazine or publication. 429,644; May 6. Class 38.

Norland Manufacturing Corporation, Brooklyn, N. Y. Toy airplanes and parts therefor. 429,648; May 6. Class 22.

Oakite Products, Inc., New York, N. Y. Industrial cleaning preparations. 429,592; May 6; Serial No. 501,865; published Feb. 18, 1947. Class 4.

Oil Color Litho, Chicago, Ill. Advertising displays. 429,611; May 6. Class 38.

Okie, F. G., Inc., Philadelphia, Pa. Printing inks. 429,572; May 6; Serial No. 499,264; published Jan. 28, 1947. Class 11.

Osborn, C. D., Co., Chicago, Ill. Ladies' gloves. 429,538; May 6; Serial No. 485,586; published Feb. 18, 1947. Class 39.

Palter, Dan, Inc., to Palter-Deliso, Inc., New York, N. Y. Leather shoes, fabric shoes and shoes made of combinations of leather and fabric. 221,474; renewed Nov. 30, 1946. O. G. May 6. Class 39.

Palter-Deliso, Inc.: *See*—
Palter, Dan, Inc.

Parsons Ammonia Company, Inc.: *See*—
Columbia Chemical Works.

Pessl, Helene, Inc., New York, N. Y. Pine soap. 429,583; May 6; Serial No. 501,275; published Feb. 4, 1947. Class 4.

Peter Pan Shoe Store, to C. Cohen, Brooklyn, N. Y. Shoes. 222,411; renewed Jan. 4, 1947. O. G. May 6. Class 39.

Phillips Pharmaceutical Products, Inc., Darien, Conn. Semi-annual publications. 429,534; May 6; Serial No. 483,871; published Jan. 21, 1947. Class 38.

Polar Ware Company, Sheboygan, Wis. Metal kitchen and cooking pots, metal kitchen and cooking pans, etc. 224,183; renewed Feb. 22, 1947. O. G. May 6. Class 13.

Ponder, D. E., Opelika, Ala. Worm food. 429,608; May 6; Serial No. 511,699; published Feb. 11, 1947. Class 46.

Pure Oil Company, Philadelphia, Pa., to The Pure Oil Company, Chicago, Ill. Refined petroleum, and burning-oils. 59,829; re-renewed Jan. 22, 1947. O. G. May 6. Class 15.

Pure Oil Company, The: *See*—
Pure Oil Company.

Quality Weaving Company, Philadelphia, Pa. Woven labels. 429,535; May 6; Serial No. 484,357; published Jan. 21, 1947. Class 38.

Rand Rubber Company, Brooklyn, N. Y. Dress shields. 429,623; May 6. Class 40.

Reliance Pure Foods: *See*—
National Grocery Company.

Republic Aviation Corporation, near Farmingdale, Long Island, N. Y. Airplanes and parts thereof. 429,607; May 6; Serial No. 511,108; published Jan. 14, 1947. Class 19.

Rimbach, Richard, doing business as Materials Publishing Company, Pittsburgh, Pa. Publication. 429,616; May 6. Class 38.

Rosenthal, Annie, doing business as Sunstate Produce Co., Fort Lauderdale, Fla. Fresh vegetables. 429,602; May 6; Serial No. 503,132; published Feb. 11, 1947. Class 46.

Saber Blade Co.: *See*—
Smith, Joseph.

Sachs, George E., New York, N. Y. Soaps and soap powders. 429,552; May 6; Serial No. 494,634; published Feb. 11, 1947. Class 4.

Saks & Company, New York, N. Y. Men's and boys' hats, shoes, collars, neckties, etc. 429,635; May 6. Class 39.

Schafer, Ennis L., Detroit, Mich. Bread. 429,547; May 6; Serial No. 492,588; published Feb. 18, 1947. Class 46.

Sciabica, Nick, & Sons, Modesta, Calif. Olive oil. 429,641; May 6. Class 46.

Selzwel Products Co., New York, N. Y. Pacifiers, nursing nipples, druggists' sundries. 429,610; May 6. Class 44.

Sexauer, J. A., Mfg. Co. Inc., New York, N. Y. Enamel cleaner, closet bowl cleaner, and porcelain cleaner and polish. 429,646; May 6. Class 4.

Silmar Foundation Garments, Inc., New York, N. Y. Brassières, girdles, and foundation garments. 429,530; May 6; Serial No. 482,021; published Feb. 18, 1947. Class 39.

Sleeper-Rankin Inc., Portland, Maine. Frozen food products. 429,599; May 6; Serial No. 502,924; published Feb. 11, 1947. Class 46.

Smith, Joseph, doing business as Saber Blade Co., New York, N. Y. Razor blades. 429,558; May 6; Serial No. 495,700; published Feb. 11, 1947. Class 23.

Societe Anonyme Des Papiers Abadie, Paris, France. Cigarette papers, cigarette holders, and cigarette mouthpieces. 196,337; renewed Mar. 17, 1945. O. G. May 6. Class 8.

Societe Anonyme Solex, Neuilly sur Seine, France. Bicycle with auxiliary motor, and parts thereof. 429,565; May 6; Serial No. 498,320; published Jan. 28, 1947. Class 19.

Southern Stove Works, Branch Continental Stove Co. Incorporated, to Southern Stove Works, Inc., Richmond, Va. Stoves and ranges. 60,572; re-renewed Feb. 12, 1947. O. G. May 6. Class 34.

Southern Stove Works, Inc.: *See*—
Southern Stove Works, Branch Continental Stove Co. Incorporated.

Sperry Flour Company, San Francisco, Calif., to General Mills, Inc., Minneapolis, Minn. Rolled-wheat meal. 58,902; re-renewed Dec. 25, 1946. O. G. May 6. Class 46.

Standard Chain Co., Pittsburg, Pa., to American Chain & Cable Company, Inc., Bridgeport, Conn. Chain and chain-links. 57,767; re-renewed Nov. 27, 1946. O. G. May 6. Class 13.

Standard Chain Company, Pittsburg, Pa., to American Chain & Cable Company, Inc., Bridgeport, Conn. Chain and chain links. 58,223; re-renewed Dec. 11, 1946. O. G. May 6. Class 13.

Statistical Publishing Co., Inc., Boston, Mass. Publication. 429,615; May 6. Class 38.

Stein, A., & Company, Chicago, Ill. Garters. 223,576; renewed Feb. 8, 1947. O. G. May 6. Class 39.

Sultana Products, Inc., New York, N. Y. Instruction books relating to art needlework, etc. 429,537; May 6; Serial No. 485,249; published Feb. 11, 1947. Class 38.

Sunstate Produce Co.: *See*—
Rosenthal, Annie.

Swiss Laboratory: *See*—
Diamond, Leon.

Toledo Machine & Tool Co., The, Toledo, Ohio, to E. W. Bliss Company, Brooklyn, N. Y. Punch-presses, drop-hammers, etc., and other machinery and parts of machinery. 59,147; re-renewed Jan. 1, 1947. O. G. May 6. Class 23.

Tower Grove Foundry: *See*—
Laclede Stoker Company.

Tractor Training Service, Portland, Oreg. Booklets, pamphlets, and leaflets. 429,577; May 6; Serial No 500,263; published Jan. 21, 1947. Class 38.

Trerice, H. O., Co.: *See*—
Trerice, Howard O.

Trerice, Howard O., doing business as H. O. Trerice Co., Detroit, Mich. Filters. 429,627; May 6. Class 31.

Trumbull Electric Manufacturing Company, The, Plainville, Conn. Sockets, receptacles, switches, etc. 60,741; re-renewed Feb. 19, 1947. O. G. May 6. Class 21.

United States News Publishing Corporation, Washington, D. C. Section of periodical publications. 429,619; May 6. Class 38.

United Video: *See*—
Levin, Bruno.

Veralin, Inc., assignee: *See*—
Consolidated Cosmetics.

Verity Mills, Inc., Buffalo, N. Y. Food for animals. 429,528; May 6; Serial No. 481,347; published Feb. 11, 1947. Class 46.

Wagner, Florence, doing business under the name of Wagner Publishing Co., Beverly Hills, Calif. Magazine. 429,597; May 6; Serial No. 502,476; published Feb. 18, 1947. Class 38.

Wagner Publishing Co.: *See*—
Wagner, Florence.

Wansco Paper Products Co. Inc.: *See*—
Wansco Paper Products Corp.

Wansco Paper Products Corp., to Wansco Paper Products Co. Inc., New York, N. Y. Typewriting and printing paper. 219,267; renewed Oct. 12, 1946. O. G. May 6. Class 37.

Wanskuck Company, Providence, R. I., to Wanskuck Company, New York, N. Y. Woolen and worsted woven fabrics in the piece. 57,174; re-renewed Nov., 6, 1946. O. G. May 6. Class 42.

Wentink, Frank C., Grand Rapids, Mich. Refrigeration equipment. 429,649; May 6. Class 31.

Western Pumistone Products Company, San Carlos, Calif. Pumice building blocks. 429,606; May 6; Serial No. 506,907; published Feb. 18, 1947. Class 12.

Windsor Wax Company, Inc., Hoboken, N. J. Floor cleaner. 429,582; May 6; Serial No. 500,919; published Feb. 4, 1947. Class 4.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 4

Abrasive articles, Molded. Carborundum Company. 429,548; May 6; Serial No. 492,682; published Feb. 11, 1947.

Chemical compound for washing milking machines, etc., Detergent. Calgon, Inc. 429,593; May 6; Serial No. 501,899; published Feb. 18, 1947.

Cleaner, Bowling ball. Brunswick-Balke-Collender Company. 429,573; May 6; Serial No. 499,537; published Feb. 4, 1947.

Cleaner, closet bowl cleaner, and porcelain cleaner and polish, Enamel. J. A. Sexauer Mfg. Co. Inc. 429,646; May 6.

Cleaner, Floor. Windsor Wax Company, Inc. 429,582; May 6; Serial No. 500,919; published Feb. 4, 1947.

Cleaning preparations, Industrial. Oakite Products, Inc. 429,592; May 6; Serial No. 501,865; published Feb. 18, 1947.

Polish, Shoe and boot. General Shoe Corporation. 429,561; May 6; Serial No. 495,963; published Feb. 18, 1947.

Removers, hand cleansers and soaps, Wax and grease. L Diamond. 429,630–1; May 6.

Soap. S. Greenblatt. 429,551; May 6; Serial No. 493,923; published Feb. 11, 1947.

Soap. Maurella Products Co., Inc. 429,591; May 6; Serial No. 501,856; published Feb. 18, 1947.

Soap. J. W. Murphy. 429,636; May 6.

Soap chips. Colgate & Company. 225,536; renewed Mar. 22, 1947. O. G. May 6.

Soap, Hand and bath. Antoine de Paris, Inc. 429,589; May 6; Serial No. 501,810; published Feb. 18, 1947.

Soap, Pine. Helene Pessl, Inc. 429,583; May 6; Serial No. 501,275; published Feb. 4, 1947.

Soap, shaving cream, and preparations having cleaning qualities. Lysol, Incorporated. 225,545; renewed Mar. 22, 1947. O. G. May 6.

Soaps and soap powders. G. E. Sachs. 429,552; May 6; Serial No. 494,634; published Feb. 11, 1947.

Soaps, Toilet. Les Parfums de Dana, Inc. 429,556; May 6; Serial No. 495,058; published Aug. 13, 1946.

CLASS 6

Aqua-ammonia. Columbia Chemical Works. 60,715; re-renewed Feb. 19, 1947. O. G. May 6.

Aqua ammonia. Columbia Chemical Works. 61,007; re-renewed Feb. 26, 1947. O. G. May 6.

Cream, cucumber cream, cold cream, etc., Witch-hazel. Jordan Marsh Company. 224,686; renewed Mar. 1, 1947. O. G. May 6.

Hair remover. Geo. B. Evans. 218,261; renewed Sept. 21, 1946. O. G. May 6.

Saleratus and soda. Church & Dwight Company. 59,096; re-renewed Jan. 1, 1947. O. G. May 6.

CLASS 8

Cigarette papers. Glatron, Baschet & Cie. 205,921; renewed Nov. 17, 1945. O. G. May 6.

Cigarette papers, cigarette holders, and cigarette mouthpieces. Societe Anonyme Des Papiers Abadie. 196,337; renewed Mar. 17, 1945. O. G. May 6.

CLASS 9

Cannon-powder. Hazard Powder Company. 58,012; re-renewed Dec. 4, 1946. O. G. May 6.

Gunpowder. Hazard Powder Company. 58,013; re-renewed Dec. 4, 1946. O. G. May 6.

Gunpowder, including smokeless powder. E. I. du Pont Company. 57,418; re-renewed Nov. 13, 1946. O. G. May 6.

Rifles and shotguns. Marlin Firearms Company. 429,575; May 6; Serial No. 500,001; published Feb. 4, 1947.

Shotgun powder, Smokeless. Hercules Powder Company. 225,253; renewed Mar. 15, 1947. O. G. May 6.

CLASS 10

Fertilizer, dried blood fertilizer, and animal manure compounds, Ground bone. Consolidated Cosmetics. 429,580; May 6; Serial No. 500,603; published Jan. 28, 1947.

Soil conditioner, Mineral. Lodi Fertilizer Company. 429,576; May 6; Serial No. 500,234; published Feb. 18, 1947.

CLASS 11

Inks, Printing. F. G. Okie, Inc. 429,572; May 6; Serial No. 499,264; published Jan. 28, 1947.

CLASS 12

Building blocks, Pumice. Western Pumistone Products Company. 429,606; May 6; Serial No. 506,907; published Feb. 18, 1947.

Composition for hardening cement floors, Liquid. F. J. Morse. 429,639; May 6.

Grating, pipe rails, stair treads, etc., Open steel. Kerrigan Iron Works, Inc. 429,640; May 6.

Putty, Wood. Allen-Brash Company. 429,647; May 6.

Sheet material, Laminated. M and M Wood Working Company. 429,650; May 6.

CLASS 13

Chain and chain-links. Standard Chain Co. 57,767; re-renewed Nov. 27, 1946. O. G. May 6.

Chain and chain-links. Standard Chain Company. 58,223; re-renewed Dec. 11, 1946. O. G. May 6.

Pots, metal kitchen and cooking pans, etc., Metal kitchen and cooking. Polar Ware Company. 224,183; renewed Feb. 22, 1947. O. G. May 6.

Rods, drapery hardware, and window-shade hardware, Metal curtain. Kenney Manufacturing Company. 225,240; renewed Mar. 15, 1947. O. G. May 6.

CLASS 14

Alloys and welding alloys, Brazing. Ever-Tite Alloys Corporation. 429,628; May 6.

Castings, Iron. Laclede Stoker Company. 429,545; May 6; Serial No. 491,140; published July 9, 1946.

Nickel in the form of cold drawn seamless tubing, cold drawn welded tubing, etc. International Nickel Company, Inc. 429,584; May 6; Serial No. 501,456; published Feb. 11, 1947.

Nickel in the form of cold rolled strip. International Nickel Company, Inc. 429,585–6; May 6; Serial Nos. 501,457–8; published Feb. 11, 1947.

Solder, solder and brazing and welding metals, Automobile body. L. Diamond. 429,633–4; May 6.

CLASS 15

Petroleum, and burning-oils, Refined. Pure Oil Company. 59,829; re-renewed Jan. 22, 1947. O. G. May 6.

CLASS 16

Paint or coating. Wall. Alabastine Company. 50,358; re-renewed Mar. 13, 1947. O. G. May 6.

Paints, Ready-mixed. D. P. W. Company. 224,808; renewed Mar. 8, 1947. O. G. May 6.

CLASS 17

Cigars. Cuesta, Rey & Co. 60,148; re-renewed Jan. 29, 1947. O. G. May 6.

CLASS 19

Airplanes and parts thereof. Republic Aviation Corporation. 429,607; May 6; Serial No. 511,108; published Jan. 14, 1947.

Airplanes and structural parts thereof. Curtiss-Wright Corporation. 429,526; May 6; Serial No. 470,656; published Jan. 21, 1947.

Bicycle with auxiliary motor, and parts thereof. Societe Anonyme Solex. 429,565; May 6; Serial No. 498,320; published Jan. 28, 1947.

Boats (namely small pleasure craft including row boats) and oars. Flour City Ornamental Iron Company. 429,596; May 6; Serial No. 502,432; published Jan. 21, 1947.

Motorcars. Ford Motor Company. 429,559–60; May 6; Serial Nos. 495,873–4; published Jan. 14, 1947.

Packs, Fatigue. Firestone Tire and Rubber Company. 429,603; May 6; Serial No. 503,360; published Jan. 14, 1947.

CLASS 21

Automatic gaslighting apparatus, annunciators, complete telephones and parts thereof, etc. Holtzer-Cabot Electric Co. 58,523; re-renewed Dec. 18, 1946. O. G. May 6.

Sockets, receptacles, switches, etc. Trumbull Electric Manufacturing Company. 60,741; re-renewed Feb. 19, 1947. O. G. May 6.

CLASS 22

Gin rummy sets. M. W. Mettenleiter. 429626; May 6.

Toy airplanes and parts therefor. Norland Manufacturing Corporation. 429,648; May 6.

CLASS 23

Apparatus which is adapted to receive and to facilitate the proper setting of printing presses. H. H. Heinrich, Inc. 429,550; May 6; Serial No. 493,352; published Feb. 4, 1947.

Dies, snap and plug gages, and drill jigs, Blanking and forming. Elcro Tool Co., Inc. 429,587; May 6; Serial No. 501,651; published Feb. 11, 1947.

Elevators, in the nature of blocks, having tapered end portions, Wheel. W. A. Kelso. 429,544; May 6; Serial No. 490,124; published Feb. 11, 1947.

Farm and road spreading machinery. S. L. Cate. 429,581; May 6; Serial No. 500,645; published Feb. 4, 1947.

Milking machines. Globe Milker Inc. 429,541; May 6; Serial No. 487,614; published Feb. 11, 1947.

Mowers, Lawn. American Chain & Cable Company, Inc. 429,532; May 6; Serial No. 482,961; published Jan. 28, 1947.

Punch-presses, drop-hammers, etc., and other machinery and parts of machinery. Toledo Machine & Tool Co. 59,147; re-renewed Jan. 1, 1947. O. G. May 6.

Razor blades. J. Smith. 429,558; May 6; Serial No. 495,700; published Feb. 11, 1947.

Razors and safety razor blades, Safety. Gillette Safety Razor Company. 429,567; May 6; Serial No. 498,618; published Feb. 18, 1947.

Razors and safety razor blades, Safety. Gillette Safety Razor Company. 429,568; May 6; Serial No. 498,619; published Feb. 4, 1947.

Razors and safety razor blades, Safety. Gillette Safety Razor Company. 429,569–70; May 6; Serial Nos. 498,620–1; published Feb. 18, 1947.

Razors and safety razor blades, Safety. Gillette Safety Razor Company. 429,571; May 6; Serial No. 498,623; published Feb. 18, 1947.

Saws and saw bands. DoAll Company. 429,595; May 6; Serial No. 502,429; published Feb. 11, 1947.

Stapling machines. Markwell Mfg. Co., Inc. 429,542; May 6; Serial No. 488,860; published Jan. 28, 1947.

Tools, Air operated, mechanic's hand. Ferriot Bros. Inc. 429,539; May 6; Serial No. 486,142; published Feb. 11, 1947.

Tools and parts thereof, Oil well. Houston Oil Field Material Company, Inc. 429,546; May 6; Serial No. 492,268; published Feb. 18, 1947.

Tools, Metal cutting and forming. C. H. Gemmill. 429,533; May 6; Serial No. 483,611; published Feb. 4, 1947.

Wrenches and pliers. H. R. Basford Co. 429,536; May 6; Serial No. 484,388; published Dec. 25, 1945.

CLASS 26

Glasses, eye glasses, spectacles, etc., Sun. Comptone Company. 429,553; May 6; Serial No. 494,783; published July 23, 1946.

Glasses. Sun. American Spectacle Co., Inc. 429,554–5; May 6; Serial Nos. 495,004–5; published July 23, 1946.

CLASS 31

Filters. H. O. Trerice. 429,627; May 6.

Refrigeration equipment. R. C. Wentink. 429,649; May 6.

Refrigerators, Electric, gas, ice and dry ice. Academy Award Products, Inc. 429,579; May 6; Serial No. 500,445; published Feb. 18, 1947.

Refrigerators, Electrically-operated mechanical. Kelvinator Corporation. 219,339; renewed Oct. 19, 1946. O. G. May 6.

CLASS 32

Venetian blinds. A. Lister-Torsen. 429,612; May 6.

CLASS 34

Hearths and dampers. Aktiebolaget Kanthal. 429,574; May 6; Serial No. 499,982; published Feb. 18, 1947.

Lighters, Pyrophoric cigarette. Briquet S. A. (Lighter S. A.). 429,613; May 6.

Stoves and ranges. Southern Stove Works, Branch Continental Stove Co. Incorporated. 60,572; re-renewed Feb. 12, 1947. O. G. May 6.

CLASS 35

Belting, Leather. Baldwin Belting & Leather Co., Inc. 219,902; renewed Oct. 26, 1946. O. G. May 6.

Tires. Pneumatic automobile. India Tire and Rubber Company. 224,998; renewed Mar. 8, 1947. O. G. May 6.

CLASS 37

Paper, Typewriting and printing. Wansco Paper Products Corp. 219,267; renewed Oct. 12, 1946. O. G. May 6.

Toilet tissue. Jordan Marsh Company. 225,200; renewed Mar. 15, 1947. O. G. May 6.

Wall-papers. Asam Brothers, Inc. 429,622; May 6.

CLASS 38

Advertising displays. Oil Color Litho. 429,611; May 6.

Articles in newspapers and magazines. M. M. Leon. 429,578; May 6; Serial No. 500,398; published Feb. 18, 1947.

Booklets, pamphlets, and leaflets. Tractor Training Service. 429,577; May 6; Serial No. 500,263; published Jan. 21, 1947.

Books relating to art needlework, etc., Instruction. Sultana Products, Inc. 429,537; May 6; Serial No. 485,249; published Feb. 11, 1947.

Charts, Printed. P. B. Doub. 429,527; May 6; Serial No. 477,462; published Feb. 18, 1947.

Column, Magazine. F-R Publishing Corporation. 429,590; May 6; Serial No. 501,841; published Jan. 21, 1947.

Department, feature or section of a newspaper. American Weekly, Inc. 429,625; May 6.

Greeting cards. Grinnell Lithographic Co., Inc. 429,645; May 6.

Labels, Woven. Quality Weaving Company. 429,535; May 6; Serial No. 484,357; published Jan. 21, 1947.

Magazine. Davidson Publishing Company. 429,638; May 6.

Magazine. L. Galter. 429,609; May 6.

Magazine. F. Wagner. 429,597; May 6; Serial No. 502,476; published Feb. 18, 1947.

Magazine feature, section or department. Hearst Magazines Inc. 429,598; May 6; Serial No. 502,751; published Feb. 18, 1947.

Magazine or publication: Current Detective Stories, Inc. 429,643; May 6.

Magazine or publication. Non-Pareil Publishing Corp. 429,644; May 6.

Magazines. Comfort Press, Inc. 429,642; May 6.

Newspaper cartoon. Hearst Corporation. 429,594; May 6; Serial No. 502,292; published Jan. 21, 1947.

Newspaper section, feature or department. Hearst Corporation. 429,632; May 6.

Photographs, portraits and pictures. Harrison Studios. 429,540; May 6; Serial No. 486,673; published Jan. 21, 1947.

Publication. McGraw-Hill Publishing Company, Inc. 429,624; May 6.

Publication. R. Rimbach. 429,616; May 6.

Publication. Statistical Publishing Co., Inc. 429,615; May 6.

Publication, Quarterly. Army Ordnance Asosciation. 429,618; May 6.

Publication, Quarterly. Latin American Buyers Guide Co. 429,617; May 6.

Publications. New Council of American Business, Inc. 429,588; May 6; Serial No. 501,682; published Jan. 21, 1947.

Publications, Periodical. California Spray-Chemical Corporation. 429,604; May 6; Serial No. 503,865; published Jan. 28, 1947.

Publications, Semi-annual. Phillips Pharmaceutical Products, Inc. 429,534; May 6; Serial No. 483,871; published Jan. 21, 1947.

Section of periodical publications. United States News Publishing Corporation. 429,619; May 6.

Title for a periodical. B. Levin. 429,562; May 6; Serial No. 497,109; published Feb. 18, 1947.

CLASS 39

Boots and shoes, Leather. Endicott Johnson Corporation. 225,495; renewed Mar. 22, 1947. O. G. May 6.

Brassières, girdles, and foundation garments. Silmar Foundation Garments, Inc. 429,530; May 6; Serial No. 482,021; published Feb. 18, 1947.

Dresses, Ladies'. Hale Bros., Inc. 223,665; renewed Feb. 8, 1947. O. G. May 6.

Garters. A. Stein & Company. 223,576; renewed Feb. 8, 1947. O. G. May 6.

Gloves, Ladies'. C. D. Osborn Co. 429,538; May 6; Serial No. 485,586; published Feb. 18, 1947.

Handkerchiefs, scarves, and fascinators, Ladies'. Brian Fabrics Corp. 429,531; May 6; Serial No. 482,270; published Feb. 18, 1947.

Hats, Ladies'. Calot Modes, Inc. 429,600; May 6; Serial No. 503,054; published Feb. 18, 1947.

Hats, shoes, collars, neckties, etc., Men's and boys'. Saks & Company. 429,635; May 6.

Hosiery. Chas. Chipmans Sons. 61,376; re-renewed Mar. 19, 1947. O. G. May 6.

Shirts, Dress and negligee. Lustberg, Nast & Co., Inc. 225,538; renewed Mar. 22, 1947. O. G. May 6.

Shoes. Daly Bros. Shoe Co., Inc. 429,564; May 6; Serial No. 498,121; published Feb. 18, 1947.

Shoes. Peter Pan Shoe Store. 222,411; renewed Jan. 4, 1947. O. G. May 6.

Shoes, fabric shoes, and shoes made of combinations of leather and fabric, Leather. Dan Palter, Inc. 221,474; renewed Nov. 30, 1946. O. G. May 6.

CLASS 40

Braids, Hat. American Glossite Co., Inc. 429,629; May 6.

Combs, and hat and hair fasteners and retainers. Combs, Inc. 429,637; May 6.

Shields, Dress. Rand Rubber Company. 429,623; May 6.

CLASS 42

Fabrics. Feldmühle A.-G. vormals Loeb, Schoenfeld & Co. Rorschach. 224,265; renewed Feb. 22, 1947. O. G. May 6.

Silk crepe in the piece, Shear. Duplex Silk Mills, Inc. 220,473; renewed Nov. 9, 1946. O. G. May 6.

Woolen and worsted woven fabrics in the piece. Wanskuck Company. 57,174; re-renewed Nov. 6, 1946. O. G. May 6.

CLASS 43

Thread and yarn. Crocheting and knitting. Heirloom Needlework Guild, Inc. 429,620; May 6.

Threads of silk, cotton, flax, etc. Corticelli Silk Company. 225,456; renewed Mar. 22, 1947. O. G. May 6.

Wools, Hand knitting. Munro & Company Limited. 429,614; May 6.

Yarns, artificial-silk twisted threads, Artificial-silk. Feldmühle A.-G. vormals Loeb, Schoenfeld & Co. Rorschach. 222,820; renewed Jan. 11, 1947. O. G. May 6.

CLASS 44

Pacifiers, nursing nipples, druggist's sundries. Selzwel Products Co. 429,610; May 6.

CLASS 46

Bread. E. L. Schafer. 429,547; May 6; Serial No. 492,588; published Feb. 18, 1947.

Candy. Clinton Industries, Inc. 429,566; May 6; Serial No. 498,600; published Feb. 18, 1947.

Canned citrus juices. General Juice's, Inc. 429,601; May 6; Serial No. 503,076; published Feb. 11, 1947.

Canned fish. Cal-Pacific Fisheries. 429,621; May 6.

Canned fruit. Knouse Corporation. 429,605; May 6; Serial No. 504,110; published Feb. 18, 1947.

Canned prepared pork meat. Dubuque Packing Company. 429,529; May 6; Serial No. 481,890; published Feb. 11, 1947.

Catchup, pickles, vinegar, etc., Tomato. Harbauer Company. 224,977; renewed Mar. 8, 1947. O. G. May 6.

Cereal product. Fisher Flouring Mills Company. 429,543; May 6; Serial No. 489,212; published Feb. 11, 1947.

Coffee and table syrup. National Grocery Company. 429,549; May 6; Serial No. 492,943; published Feb. 11, 1947.

Condiments, sauces, bouillon cubes and soup tablets. Haco-Gesellschaft A.-G. Bern. 209,045; renewed Feb. 16, 1946. O. G. May 6.

Flour, Wheat. Ballard & Ballard. 429,563; May 6; Serial No. 497,989; published Feb. 11, 1947.

Food for animals. Verity Mills, Inc. 429,528; May 6; Serial No. 481,347; published Feb. 11, 1947.

Food product, Cooked. D. C. Garland. 429,557; May 6; Serial No. 495,466; published Feb. 11, 1947.

Food products, Frozen. Sleeper-Rankin Inc. 429,599; May 6; Serial No. 502,924; published Feb. 11, 1947.

Food, Worm. D. E. Ponder. 429,608; May 6; Serial No. 511,699; published Feb. 11, 1947.

Meal, Rolled-wheat. Sperry Flour Company. 58,902; re-renewed Dec. 25, 1946. O. G. May 6.

Olive oil. Nick Sciabica & Sons. 429,641; May 6.

Rice. Mermentau Rice Mill Co., Inc. 225,609; renewed Mar. 22, 1947. O. G. May 6.

Sirup, molasses, and pure country sorghum, Blend of corn. American Syrup and Sorghum Co. 221,109; renewed Nov. 23, 1946. O. G. May 6.

Vegetables, Fresh. A. Rosenthal. 429,602; May 6; Serial No. 503,132; published Feb. 11, 1947.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

General Baking Company, assignee: *See—*
  Grimm, William C., and Linneman.
Grimm, William C., and R. H. Linneman, Jersey City, N. J., assignors, by mesne assignments, to General Baking Company, New York, N. Y. Bun making machine. Re. 22,875; May 6.
Linneman, Richard H.: *See—*
  Grimm, William C., and Linneman.

LIST OF PLANT PATENTEES

Barbier, Pierre, Orleans, France, assignor to Gulf Stream Nursery, Inc., Wachapreague, Va. Maple tree. 735; May 6.
Gulf Stream Nursery, Inc., assignee: *See—*
  Barbier, Pierre.

LIST OF DESIGN PATENTEES

Alan, Richard, Inc., assignee: *See—*
  Glaser, Alex.
American Gas Machine Company, assignee: *See—*
  Schory, Kenneth P.
Ballard, Wade E., assignor to Modern Plastic Co., Los Angeles, Calif. Condiment dispenser set. 146,733; May 6.
Beck, William A., Itasca, Ill., assignor to Ekco Products Company. Cooking utensil. 146,734; May 6.
Benton, Bernard M., assignee: *See—*
  McCormack, Roy L.
Carpenter, Thelma M., Brentwood, Pa. Slipper. 146,735; May 6.
Childs, Woodrow M., Oakland, Calif. Game board. 146,736; May 6.
Dohm, Daniel, Jr., assignor to Dohm & Nelke, Inc., St. Louis, Mo. Bone cutting saw or similar article. 146,737; May 6.
Dohm & Nelke, Inc., assignee: *See—*
  Dohm, Daniel, Jr.
Ekco Products Company, assignee: *See—*
  Beck, William A.
Elzinga, Clarence A., Kalamazoo, Mich. Easel. 146,738; May 6.
Floss, Norbert P., assignee, et al.: *See—*
  Keller, Clarence H.
Glaser, Alex, Paris, France, assignor to Richard Alan Inc. Handbag. 146,739; May 6.
Hallward, Michael, Swampscott, Mass. Bureau. 146,740; May 6.
Keller, Clarence H., assignor of one-third to N. P. Floss and one-third to H. W. Rust, Buffalo, N. Y. Pull toy. 146,741; May 6.
Landers, Frary & Clark, assignee: *See—*
  Russell, William J.
McCormack, Roy L., Geneva, Ohio, assignor of one-half to B. M. Benton. Wheeled toy. 146,742; May 6.
Modern Plastic Co., assignee: *See—*
  Ballard, Wade E.
Murray, Harold W., San Pedro, Calif. Sewing box. 146,743; May 6.
Nor Jay Company, assignee: *See—*
  Sidell, Sidney J.
Plate, Robert T., Detroit, Mich. Activated toy bird figure. 146,744; May 6.
Raphaels, Edwin, assignor to N. Wishbow & Raphaels, Inc., New York, N. Y. Textile fabric. 146,745; May 6.
Raphaels, Edwin, assignor to N. Wishbow & Raphaels, Inc., New York, N. Y. Textile fabric. 146,746; May 6.
Roemisch, Harry S., Brecksville, Ohio. Fly swatter blade. 146,747; May 6.
Russell, William J., Newington, assignor to Landers, Frary & Clark, New Britain, Conn. Electric flatiron. 146,748; May 6.
Rust, Henry W., assignee, et al.: *See—*
  Keller, Clarence H.
Schory, Kenneth P., Chicago, Ill., assignor to American Gas Machine Company, Albert Lea, Minn. Space heater. 146,749; May 6.
Sidell, Sidney J., Detroit, Mich., assignor, by mesne assignments, to Nor Jay Company. Locking cap for gasoline tanks. 146,750; May 6.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,751; May 6.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,752; May 6.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,753; May 6.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,754; May 6.
Spitalny, Fred, Hillside, N. J. Vanity case or similar article. 146,755; May 6.
Warren, Dorothy L.: *See—*
  Warren, Robert A. and D. L.
Warren, Robert A. and D. L., Lakewood, Ohio. Baby's formula mixer and container. 146,756; May 6.
Webb, James A., Rochester, N. Y. Educational device to teach children to read a clock. 146,757; May 6.
Wishbow, N., & Raphaels, Inc., assignee: *See—*
  Raphaels, Edwin.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbe, Edward J., Cleveland Heights, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Truck hoist mechanism. 2,419,938; May 6.
Adams, Arthur R., Glendale, Calif. Fastener. 2,420,060; May 6.
Adams, Arthur R., Glendale, Calif. Fastener. 2,420,061; May 6.
Adams, Roger, Urvana, Ill. Optically active tetrohydrodibenzopyrans having marihuana activity and making same. 2,419,934; May 6.
Adams, Roger, Urbana, Ill. Marihuana active compounds. 2,419,935; May 6.
Adams, Roger, Urbana, Ill. Preparation of compounds with marihuana activity. 2,419,936; May 6.
Adams, Roger, Urbana, Ill. Marihuana active compounds. 2,419,937; May 6.
Adamson, Arthur P., Ballston Spa, N. Y., assignor to General Electric Company. Self-synchronous system for transmitting angular motion. 2,420,160; May 6.
Aeronautical & Mechanical Investments Limited, assignee: *See—*
  Conway, Hugh G.
Agriculture, United States of America, as represented by the Secretary of: *See—*
  Filachione, Edward M., and Fisher.
Air Reduction Company, Incorporated, assignee: *See—*
  Anderson, James L.
Aldrich, John A., Hampton, N. H. Oarlock. 2,420,161; May 6.
All American Aviation, Inc., assignee: *See—*
  Setz, Walter H.
Allen, Frank B., Lower Merion Township, Montgomery County, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Automatic dust removing system. 2,420,217; May 6.
Allen-Sherman-Hoff Company, The, assignee: *See—*
  Allen, Frank B.
Allis, Louis, Company, The, assignee: *See—*
  Goran, Steven J.
American Cyanamid Company, assignee: *See—*
  Lacey, Harold T., Millson, and Heiss.
  West, Herbert J.
American Optical Company, assignee: *See—*
  Ellis, Charles A.
  Splaine, Edward M.
American Steel Foundries, assignee: *See—*
  Cottrell, Robert B.
Ames, Adelbert, Jr., Hanover, N. H. Binocular vision test. 2,419,939; May 6.
Ames, Robert G., assignor of one-half to G. Williams, and one-fourth to S. Ames, Burlingame, Calif. Corner finishing tool. 2,420,062; May 6.
Ames, Stanley assignee, et al.: *See—*
  Ames, Robert G.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated. Torch cutting machine. 2,419,983; May 6.
Anderson, John W., Elizabeth, assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J. Connecting shielded ignition leads. 2,420,118; May 6.
Argyle, Christopher S.: *See—*
  Olpin, Henry C., Stanley, and Argyle.
Arnold Bros. Company, assignee: *See—*
  Fitzpatrick, Jeremiah.
Austin, Ellsworth W., assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa. Earth-working implement. 2,420,027; May 6.
Automatic Devices Corporation, assignee: *See—*
  Johnson, Arthur A.
Ayers, George W., assignor to The Pure Oil Company, Chicago, Ill. Sweetening hydrocarbon oils. 2,420,218; May 6.
Ayers, George W., Jr.: *See—*
  Henderson, Lawrence M., and Ayers.
B M C Manufacturing Corporation, assignee: *See—*
  Snell, Francis A.
Backoff, William J.: *See—*
  Williams, Norman D., and Backoff.
Baker, Wilson C., Madison, Ind. Shirt sleeve restrainer. 2,420,162; May 6.
Baldwin, Ernest W., assignor, by mesne assignments, to Baldwin-Ward Manufacturing Co., Inc., Ottawa, Kans. Cutter bar control. 2,420,219; May 6.
Baldwin-Ward Manufacturing Co., Inc., assignee: *See—*
  Baldwin, Ernest W.
Balsiger, Harold E., Waynesboro, Pa., and J. A. Boller, Thurmont, Md., assignors to Landis Tool Company, Waynesboro, Pa. Grinding machine. 2,419,940; May 6.
Barrett, Daniel, Appeal, Md. Cooking and seasoning hard crabs. 2,420,063; May 6.
Bartlett, Walter F., La Grange, and M. J. Grzenia, assignors to Karpen & Bros., Chicago, Ill. Seat back construction. 2,420,220; May 6.
Beach, Robert W., assignee, et al.: *See—*
  Wildman, Benjamin H.
Bell, Charles J., Chicago, Ill., assignor to The Gates Rubber Company, Denver, Colo. Duplex welding tube. 2,420,221; May 6.
Bell Telephone Laboratories, Incorporated, assignee: *See—*
  Edwards, Charles F., and Jansky.
  Lamberty, Frederick R.
Beltice Corporation, assignee: *See—*
  Knowles, Frank W.
Belzung, Alexander E., San Diego, Calif. Center gage for threading tool. 2,419,941; May 6.
Bendix Aviation Corporation, assignee: *See—*
  Bremser, Albert T.
  Buxton, James E., and Miller.
  Gilbert, Harrison C.
  Miller, Donald L.
Benning, Anthony F., Woodstown, N. J., and J. D. Park, assignors to Kinetic Chemicals, Inc., Wilmington, Del. Preparing fluoro-chloro compounds. 2,420,222; May 6.
Bleakney, Robert M., and E. J. Workman, Albuquerque, N. Mex., assignors to the United States of America, as represented by the Secretary of the Navy. Electrical switch. 2,420,028; May 6.
Boake, A., Roberts & Company Limited, assignee: *See—*
  Edwards, Lawrence J.
Boddy, Edward J., London, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Apparatus for flanging and curving metal strips. 2,420,064; May 6.
Boehm, Robert M., Laurel, Miss., and A. A. Ladon, Cleveland, Ohio, assignors to Masonite Corporation, Laurel, Miss. Method and apparatus for bending sheet material. 2,420,119; May 6.
Boller, John A.: *See—*
  Balsiger, Harold E., and Boller.
Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit controlling means. 2,420,065; May 6.
Boothroyd, Wilson P., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Wide-band superheterodyne receiver. 2,419,984; May 6.
Borsini, Frederick H., Dayton, Ohio, assignor to Marion Power Shovel Company. Gantry. 2,420,163; May 6.
Boston Wire Stitcher Company, assignee: *See—*
  Maynard, Arthur H.
Bowditch, Hoel L., Sharon, assignor to The Foxboro Company, Foxboro, Mass. Pressure operated switch. 2,420,282; May 6.
Brady, John B., Somerset, Md. Printing telegraph transmission and reception system. 2,420,029; May 6.
Brandon, Richard C., Elizabeth, N. J., assignor to Standard Oil Development Company. Motor fuels and preparation thereof. 2,420,030; May 6.
Bremser, Albert T., Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Pump. 2,420,164; May 6.
Brewer, Nathaniel, Hatfield, assignor to Fischer & Porter Company, Hatboro, Pa. Flow actuated switch. 2,419,942; May 6.
Brewer, William, Edmonton, London, assignor to Sparklets Limited, London, England. Atomizer. 2,420,223; May 6.
British Celanese Limited, assignee: *See—*
  Olpin, Henry C., Stanley, and Argyle.
Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Reactance compensation. 2,419,985; May 6.
Brown, William R., El Paso, Tex. Rotary gang assembly. 2,419,986; May 6.
Bruchsaler, Karl, Stockton, Calif. Hammer. 2,420,120; May 6.
Bryant Heater Company, The, assignee: *See—*
  Higley, Frank R.
Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of sulfur-containing polymers. 2,419,943; May 6.
Burnett, John W., Chicago, Ill., assignor to Reynolds Metals Co., Richmond, Va. Railway tank car. 2,420,121; May 6.
Buxton, James E., and D. L. Miller, Chemung County, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Starting mechanism. 2,420,283; May 6.
Bymark, Carl V., Biwabik, Minn. Tire inflator. 2,420,224; May 6.

Callahan, Jay: *See—*
  Green, William G., and Callahan.
Campbell, Erwin A.: *See—*
  Woolslayer, Homer J., Campbell, and Jenkins.
Carlson, Wendell L., Haddonfield, N. J., assignor to Radio Corporation of America. Direction finder. 2,419,987; May 6.
Carswell, Thomas S., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Cutting polymerized vinyl aromatic material. 2,420,284; May 6.
Carthage Mills, Inc., assignee: *See—*
  Krug, Richard S.
Chaffee, Stewart W., assignee: *See—*
  Farnham, Evelyn C.
Chenicek, Joseph R., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Suppression of metal catalysts. 2,420,122; May 6.
Chilcott, William J., Wichita, Kans. Fuel pump adjustor. 2,420,225; May 6.
Chrysler Corporation, assignee: *See—*
  Lamb, Ernest P.
Claesson, Per H. E.: *See—*
  Rost, Helge F., Thunell, Vigren, and Claesson.
Claus, Clyde R., assignor to Gates Rubber Company, Denver, Colo. Oil well packer. 2,420,226; May 6.
Clausing, George, assignor to Vulcan Corporation, Portsmouth, Ohio. Shoe last. 2,419,944; May 6.
Clemmer, Julius B., and M. F. Williams, Jr., Tuscaloosa, Ala. Froth flotation of silica from iron ore. 2,419,945; May 6.
Clutter, Russel F., assignor to Glenn Tool & Manufacturing Co., Cleveland, Ohio. Work clamp. 2,420,165; May 6.
Coburn, William K., Cambridge, assignor to Serdex, Inc., Boston, Mass. Nephoscope. 2,420,227; May 6.
Cohn, Irwin E., Leominster, Mass. Cigarette package holder. 2,420,031; May 6.
Condon, John, Whitestone, assignor of one-half to R. J. Welsh, Long Island City, N. Y. Bulkhead and dock. 2,420,228; May 6.
Continental Can Company, Inc., assignee: *See—*
  Kastel, Ferdinand.
Conway, Hugh G., Warrington, England, assignor to Aeronautical & Mechanical Investments Limited. Landing gear control and indicating arrangement. 2,420,066; May 6.
Cooper, Melbourne J., Wichita Falls, Tex. Heat circulating device. 2,420,123; May 6.
Corey, Clement P., and E. R. Deming, Millbury, Mass. Safety control device for disconnecting switches. 2,420,166; May 6.
Cornish, Irving R.: *See—*
  Paxton, John W. and G. N., and Cornish.
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,420,229; May 6.
Coulson, Charles C., Mobile, Ala. Motor-compressor unit. 2,420,124; May 6.
Covel Mfg. Co., assignee: *See—*
  Erikson, Gustaf, and Filstrup.
Crawford, Chester C.: *See—*
  McAllister, Sumner H., and Crawford.
Crist, James J., Rockford, Ill. Key guard. 2,420,125; May 6.
Crompton & Knowles Loom Works, assignee: *See—*
  Kronoff, Clarence R., and Herard.
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Phase modulation receiver. 2,420,230; May 6.
Crotty Manufacturing Corporation, assignee: *See—*
  Crotty, Michael C.
Crotty, Michael C., Flushing, assignor to Crotty Manufacturing Corporation, New York, N. Y. Auxiliary boiler. 2,420,231; May 6.
Crozier, Harold E., Hawthorne, Calif. Collet attachment for lathes or other metalworking machines. 2,420,067; May 6.
Curll, Harold E., Norristown, and P. K. Smith, Plymouth Meeting, assignors to Vulcan Corporation, Philadelphia, Pa. Heat treating furnace. 2,420,126; May 6.
Cutler-Hammer, Inc., assignee: *See—*
  Mekelburg, Harold L.
Cyr, Benjamin: *See—*
  Sparrow, Hubert T., and Cyr.
Dasher, George M.: *See—*
  Goodwin, Robert R., and Dasher.
Davis, Ronald F., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Electric furnace control. 2,419,988; May 6.
Day, Floris W., Massillon, Ohio. Infant's sleeping cover. 2,419,989; May 6.
Deal, Harmon B., Glen Ridge, N. J., assignor to Radio Corporation of America. Signaling system. 2,420,232; May 6.
Deming, Earl R.: *See—*
  Corey, Clement P., and Deming.
Dewey and Almy Chemical Company, assignee: *See—*
  Mark, Jacob G.
Dickinson, Arthur H., Scarsdale, and J. N. Wheeler, Hawthorne, assignors to International Business Machines Corporation, New York, N. Y. Relay type cross-totalizing device for record card data. 2,420,167; May 6.
Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Achromatic light reflecting and transmitting film. 2,420,168; May 6.
Dishmaker, Orville A., Oshkosh, assignor of one-half to L. J. Kaufman, Manitowoc, Wis. Hare and tortoise toy. 2,419,990; May 6.
Doelling, George L., assignor to Wagner Electric Corporation, St. Louis, Mo. Corrosion preventive composition. 2,420,127; May 6.
Dols, Charles G., Long Beach, Calif., assignor to D. W. Onan & Sons, Minneapolis, Minn. Magneto. 2,420,169; May 6.
Dominion Engineering Works Limited, assignee: *See—*
  Maude, John H.
  Muir, William P.
Douglas Aircraft Company, Inc., assignee: *See—*
  Ostergren, Ralph H.
Duncan, Gordon W., Westerfield, and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Lubricant. 2,420,068; May 6.
Dunning, Robert M., assignor to Waldorf Paper Products Company, St. Paul, Minn. Method and apparatus for sealing cartons by suction. 2,419,991; May 6.
Du Pont, E. I., de Nemours & Company, assignee: *See—*
  Burke, William J.
  Richards, Lawrence M.
  Tinker, John M., and Stallmann.
  Trepagnier, Joseph H., and Vaughen.
Eastman Kodak Company, assignee: *See—*
  Stauffer, Robert E., and Smith.
  Trivelli, Adrian P. H., and Smith.
Edwards, Charles F., Red Bank, and K. G. Jansky, Little Silver, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-frequency direction finder. 2,419,946; May 6.
Edwards, Lawrence J., assignor to A. Boake, Roberts & Company Limited, Stratford, London, England. Production of aluminum salts of organic acids. 2,420,233; May 6.
Egly, William D., South Bend, Ind. Bottle carrier. 2,420,069; May 6.
Eitel-McCullough, Inc., assignee: *See—*
  Rayfield, George T.
Electric Controller & Manufacturing Company, The, assignee: *See—*
  Rathbun, Harold J.
Electro-Protective Corporation, assignee: *See—*
  Laford, Herbert M.
Elliott Company, assignee: *See—*
  Hennig, Fritz O.
Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Trial frame. 2,420,032; May 6.
Elwell-Parker Electric Company, The, assignee: *See—*
  Abbe, Edward J.
Emsco Derrick & Equipment Company, assignee: *See—*
  Renouf, Ralph R., and Mason.
Engineering Laboratories, Inc., assignee: *See—*
  Green, William G., and Callahan.
Erikson, Gustaf, Benton Harbor, and E. C. Filstrup, St. Joseph, assignors to Covel Mfg. Co., Benton Harbor, Mich. Grinding machine tool carriage control. 2,420,170; May 6.
Fairbairn, Robert A., Wellesley, Mass. Method and apparatus for separating fibers. 2,420,033; May 6.
Fairbairn, Robert A., Wellesley, Mass. Method and apparatus for separating fibers. 2,420,035; May 6.
Fairbairn, Robert A., Needham, Mass. Method of and apparatus for parallelizing textile fibers. 2,420,034; May 6.
Fairbairn, Robert A., Needham, Mass. Separating short coarse fibers from long fine fibers. 2,420,036; May 6.
Fairey Aviation Company Limited, The, assignee: *See—*
  Boddy, Edward J.
Farnham, Evelyn C., San Bernardino, Calif., assignor to S. W. Chaffee, New York, N. Y. Telephone dial attachment. 2,420,070; May 6.
Fausz, William H., Newport, Ky. Quick release means for parachute harness. 2,420,037; May 6.
Ferguson, Frank A., Baytown, Tex., assignor to Standard Oil Development Company. Lined vessel. 2,420,038; May 6.
Fields, George C., Wilmette, Ill., assignor to Solar Corporation, Milwaukee, Wis. Turbine type hydraulic coupling. 2,420,071; May 6.
Filachione, Edward M., Philadelphia, and C. H. Fisher, Abington, Pa., assignors to United States of America as represented by the Secretary of Agriculture. Purification of lactic acid. 2,420,234; May 6.
Filstrup, Eddie C.: *See—*
  Erikson, Gustaf, and Filstrup.
Fischer & Porter, assignee: *See—*
  Brewer, Nathaniel.
Fisher, Charles H.: *See—*
  Filachione, Edward M., and Fisher.
Fisher, George, Leeds, England. Collet chuck. 2,420,128; May 6.
Fitzpatrick, Jeremiah, assignor to Arnold Bros. Company, Weymouth, Mass. Last. 2,420,235; May 6.
Flock, Bernard J., and C. G. Gerhold, assignors to Universal Oil Products Company, Chicago, Ill. Controlling the flow of fluidized solids and liquids. 2,420,129; May 6.

Foote, Leonard, Palo Alto, Calif. Differential hoist. 2,420,072; May 6.
Foreman, Gerald E., U. S. Navy. Signal snap hook. 2,419,947; May 6.
Foss, George H., Hamilton, Mass. Apparatus for jacking up and lowering motor vehicle wheels. 2,420,130; May 6.
Foxboro Company, The, assignee: *See—*
Bowditch, Hoel L.
Frank, Carl W.: *See—*
Miller, Arthur S., Frank, and Hagglund.
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Partial dealkylation. 2,420,073; May 6.
Frisby, Frank D., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Shaft sealing ring. 2,420,039; May 6.
Frisby, Frank D., and M. W. Marien, assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Shaft oil seal. 2,420,040; May 6.
Froland, Olav, assignor to J. R. Kearney Corporation, St. Louis, Mo. Electrical switch. 2,420,074; May 6.
Full, Peter, Vermillion, Ohio. Lifeboat fastening means. 2,420,236; May 6.
Fuse Indicator Corporation, assignee: *See—*
Linton, William C.
Gates Rubber Company, assignee: *See—*
Claus, Clyde R.
Gates Rubber Company, The, assignee: *See—*
Bell, Charles J.
Yelm, Charles W.
General Aniline & Film Corporation, assignee: *See—*
Lessler, Lew W.
Semerau, Walter J.
Sweet, Monroe H.
General Electric Company, assignee: *See—*
Adamson, Arthur P.
Rich, Theodore A.
Roberts, Bruce.
General Electric Company Limited, The, assignee: *See—*
Ransley, Charles E., Ryde, and Williams.
General Fireproofing Company, The, assignee: *See—*
Straubel, Clarence W., and Holbrook.
General Spring Corporation, assignee: *See—*
Wood, Joseph K.
Gerhold, Clarence G.: *See—*
Flock, Bernard J., and Gerhold.
Gilbert, Harrison C., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Door latch. 2,420,285; May 6.
Girouard, Philias H., Washington, D. C. Bomb fuse device. 2,420,237; May 6.
Glasgow, Clarence O.: *See—*
Walker, Jay P., and Glasgow.
Glenn Tool & Manufacturing Co., assignee: *See—*
Clutter, Russel F.
Glitsch Engineering Company, assignee: *See—*
Glitsch, Hans C.
Glitsch, Hans C., assignor, by mesne assignments, to Glitsch Engineering Company, Dallas, Tex. Bubble tray downcomer. 2,420,075; May 6.
Goldblatt, Leo A., and S. Palkin, Washington, D. C.; dedicated to the free use of the People of the Territory of the United States. Converting nopinene to myrcene. 2,420,131; May 6.
Goodrich, B. F., Company, The, assignee: *See—*
Hunter, Willson H.
Goodwin, Robert R., and G. M. Dasher, Augusta, Ga. Toy machine gun. 2,420,076; May 6.
Goran, Steven J., assignor to The Louis Allis Company, Milwaukee, Wis. Collector ring. 2,419,992; May 6.
Gordon, Murray, assignee: *See—*
Wulstein, Charles.
Graham, George M., Detroit, assignor to Hinckley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich. Link chain spanner wrench. 2,420,171; May 6.
Gray, John B.: *See—*
Roe, Robert B., and Gray.
Green, William G., Jenks, and J. Callahan; said Callahan assignor to Engineering Laboratories, Inc., Tulsa, Okla. Pumping mechanism. 2,419,993; May 6.
Greene, Joseph R.: *See—*
Sprenger, Harold A., and Greene.
Griffeth, Robert L., Delanson, and J. J. Pickney, Ballston Lake, assignors to Mica Insulator Company, Schenectady, N. Y. Electrical insulating material containing mica. 2,420,172; May 6.
Gryniuck, Michael, Los Angeles, Calif. Detachable head wrench. 2,420,132; May 6.
Grzenia, Mitchell J.: *See—*
Bartlett, Walter F., and Grzenia.
Guest, Howard L.: *See—*
Salle, Anthony J., and Guest.
Gunther, Leo A., assignee: *See—*
Salle, Anthony J., and Guest.
Gyorgy, Paul, Cleveland, Ohio, assignor to Wyeth Incorporated, Philadelphia, Pa. Stabilized fat compositions. 2,420,238; May 6.
Hack, Nathan, assignor to Hack Shoe Company, Detroit, Mich. Convalescent shoe. 2,420,239; May 6.
Hack Shoe Company, assignee: *See—*
Hack, Nathan.
Haggerty, William B., Tampa, Fla. Prevention of frost on refrigerator doors. 2,420,240; May 6.
Hagglund, Reynold R.: *See—*
Miller, Arthur S., Frank, and Hagglund.
Hall, Russell M., assignor to Philco Corporation, Philadelphia, Pa. Shelf structure. 2,420,173; May 6.
Hammond, John H., Jr., Gloucester, Mass., assignor to the United States of America, as represented by the Secretary of the Navy. Torpedo control valve. 2,420,241; May 6.
Hansell, Clarence W., Port Jefferson, N. Y. assignor to Radio Corporation of America. Direction finding. 2,419,994; May 6.
Harcourt, George A.: *See—*
Sproule, William K., and Harcourt.
Hardig, Eugene J., assignor to The Studebaker Corporation, South Bend, Ind. Track for track-laying vehicles. 2,420,133; May 6.
Harmon, Robert R., Charlottesville, Va., assignor to Peabody Engineering Corporation, New York, N. Y. Gas scrubber. 2,420,242; May 6.
Harper, Carolyn L., assignee: *See—*
Harper, Philip S.
Harper, Carolyn L., Trust, et al.: *See—*
Harper, Philip S.
Harper, Philip S., assignor of one-fourth to P. S. Harper, one-fourth to C. L. Harper, Chicago, Ill., one-fourth to Harris Trust and Savings Bank, an Illinois banking corporation, as trustee of the Philip S. Harper Trust, and one-fourth to said Harris Trust and Savings Bank, as trustee of the Carolyn L. Harper Trust. Air shutter for gas burners. 2,419,995; May 6.
Harper, Philip S., Trust, et al.: *See—*
Harper, Philip S.
Harris Trust and Savings Bank, trustee, assignee: *See—*
Harper, Philip S.
Hartford National Bank and Trust Company, trustee, assignee: *See—*
Van Suchtelen, Harold.
Haskins, Robert, Jr., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Gyrocompass. 2,419,948; May 6.
Hasler, Maurice F., and R. W. Lindhurst, Glendale, Calif. Direct reading spectrochemical analysis. 2,420,077; May 6.
Heiss, Frederick H.: *See—*
Lacey, Harold T., Millson, and Heiss.
Helms, Clyde E., Alamosa, Colo. Sack holder. 2,420,243; May 6.
Hempel, Charles H., and F. J. Ploederl, Manitowoc, Wis., assignors to Heresite & Chemical Company. Coating composition comprising phenolformaldehyde resin in a mixture of solvents. 2,420,134; May 6.
Henderson, Lawrence M., Winnetka, and G. W. Ayers, Jr., assignors to The Pure Oil Company, Chicago, Ill. Recovery of naphthenic acids. 2,420,244; May 6.
Hennig, Fritz O., Greensburg, assignor to Elliott Company, Jeannette, Pa. Support for expansible members. 2,420,135; May 6.
Herard, Archibald J., Jr.: *See—*
Kronoff, Clarence R., and Herard.
Hercules Powder Company, assignee: *See—*
Lundblad, Oscar W.
Heresite & Chemical Company, assignee: *See—*
Hempel, Charles H., and Ploederl.
Higley, Frank R., Cleveland Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Thermally responsive device. 2,420,078; May 6.
Hill, Ralph H., Flint, Mich. Six cycle engine. 2,420,136; May 6.
Hinckley-Myers Division of Kent-Moore Organization, Inc., assignee: *See—*
Graham, George M.
Hoe, R., & Co., Inc., assignee: *See—*
Huck, William F.
Hogquist, Bernard C., assignee: *See—*
Meek, Melvin J.
Holbrook, John S.: *See—*
Straubel, Clarence W., and Holbrook.
Holley, Earl, assignee, et al.: *See—*
Holley, George M., Jr.
Holley, George M., assignee, et al.: *See—*
Holley, George M., Jr.
Holley, George M., Jr., Detroit, Mich., assignor to G. M. and E. Holley. Pressure carburetor. 2,420,079; May 6.
Honikman, Alfred H., Rondebosch, Cape Town, Cape of Good Hope, Union of South Africa. Roof gutter. 2,419,996; May 6.
Hotinger, Edwin J., Rockaway, N. J. Device for securing a propellent charge to an artillery primer. 2,419,949; May 6.
Hotze, Henry, & Sons Company, assignee: *See—*
Riess, John.
Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Catalytic dehydrogenation of aliphatic hydrocarbons. 2,419,997; May 6.
Houdry Process Corporation, assignee: *See—*
Houdry, Eugene J.
Howards & Sons Limited, assignee: *See—*
Lock, Ritchie H.
Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism for printing machines. 2,420,080; May 6.

Hunt, William E., Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Rotary wing structure. 2,420,174; May 6.
Hunter, Willson H., Lakewood, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflation apparatus for eliminating ice from airfoils. 2,420,137; May 6.
Hunting, Roy W., assignee: *See—*
Shuford, Edward L.
Hurst, Samuel, Boston, Mass. Plastic ear muff. 2,420,245; May 6.
Hutchins, Roy E., Jr., Raymond, N. H. Egg cleaning machine. 2,419,933; May 6.
Hydraulic Development Corporation, Inc., The, assignee: *See—*
Tucker, Warren R.
Ingalls, David, Westfield, assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J. Lead-in device for manifold of ignition harness. 2,420,138; May 6.
International Business Machines Corporation, assignee: *See—*
Dickinson, Arthur H., and Wheeler.
International Nickel Company, Inc., The, assignee: *See—*
Sproule, William K., and Harcourt.
Iraq Petroleum Company Limited, assignee: *See—*
Kelly, Frederick R.
Jansky, Karl G.: *See—*
Edwards, Charles F., and Jansky.
Jenkins, Cecil: *See—*
Woolslayer, Homer J., Campbell, and Jenkins.
Jensen, Robert P., Kansas City, Kans. Wall table. 2,420,041; May 6.
Johnson, Arthur A., assignor to Automatic Devices Corporation, Bridgeport, Conn. Holder for cigar lighters. 2,419,950; May 6.
Johnson, Frank E., Malden, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Shiftable rotary operative fastener attaching unit. 2,420,042; May 6.
Johnson, Oliver W.: *See—*
Papalexis, James, and Johnson.
Johnson, Raymond A., Dallas, Tex., assignor, by mesne assignments, to Storm-Vulcan Manufacturing Company, Inc., Minneapolis, Minn. Traversing mechanism for grinding machines. 2,420,081; May 6.
Johnson, Robert H., Weston, W. Va. Control apparatus. 2,420,043; May 6.
Johnson, Wallace J. S., Berkeley, Calif. Exercising machine. 2,419,998; May 6.
Johnstone, Robert A., Aurora, Ind. Electric water heater. 2,420,175; May 6.
Jones, Howard A.: *See—*
Travis, Bernard V., and Jones.
Jones, Raymond H.: *See—*
McKenzie, Alexander C., and R. H. and R. J. Jones.
Jones, Reginald J.: *See—*
McKenzie, Alexander C., and R. H. and R. J. Jones.
Jowett, John A., Scottsville, N. Y. Gun swab or cleaner. 2,420,044; May 6.
Joy Manufacturing Company, assignee: *See—*
Osgood, Charles F.
Wineman, Wade H.
Karpen, S. & Bros., assignee: *See—*
Bartlett, Walter F., and Grzenia.
Kastel, Ferdinand, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Sealing compound applying apparatus. 2,419,951; May 6.
Kaufman, Leonard J., assignee: *See—*
Dishmaker, Orville A.
Kearney, James R., Corporation, assignee: *See—*
Froland, Olav.
Keller, Philip B., Santa Monica, Calif. Coin bank. 2,420,246; May 6.
Kelly, Frederick R., Shipston-on-Stour, assignor to Iraq Petroleum Company Limited, London, England. Pipe joint. 2,420,139; May 6.
Kidd, Thomas D., assignor of fifty one-hundredths to R. Kreiser, Mendota, Ill. Conveyor mechanism for portable grinding mills. 2,420,247; May 6.
Kilgore, George R., Princeton, N. J., assignor to Radio Corporation of America. Cathode-ray tube with inclined target. 2,420,176; May 6.
Kinetic Chemicals, Inc., assignee: *See—*
Benning, Anthony F., and Park.
Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Machining rectangular apertures. 2,420,140; May 6.
Klinger, Earl W., Long Island City, N. Y., assignor to Standard Oil Development Company. Bituminous composition comprising an asphalt and a polymerized ester of methacrylic acid. 2,420,082; May 6.
Knowles, Frank W., Seattle, Wash., assignor to Beltice Corporation. Ice machine. 2,419,953; May 6.
Knox, Harry A., Washington, D. C. Track support. 2,419,955; May 6.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Amplitude limiter circuit. 2,420,248; May 6.
Konicek, Frank, Baltimore, and H. J. Vennes, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Mounting and adjusting potentiometer elements. 2,419,952; May 6.
Koppers Company, Inc., assignee: *See—*
Rodman, Hugh, Jr.
Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Amplitude modulation reducing circuit. 2,420,249; May 6.
Krall, Mark B., Lebanon, Pa. Drain plug. 2,420,177; May 6.
Kreiser, Ray, assignee: *See—*
Kidd, Thomas D.
Kronoff, Clarence R., and A. J. Herard, Jr., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Cloth roll control mechanism for looms. 2,420,178; May 6.
Krug, Richard S., assignor to Carthage Mills, Inc., Cincinnati, Ohio. Label or the like with captive coupon. 2,420,045; May 6.
Kuzelka, William R., New York, N. Y. Carbureting and fuel supply means for motor-driven vehicles. 2,419,956; May 6.
Kyrides, Lucas P., Webster Groves, and F. B. Zienty, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparing gamma-valerolactone. 2,420,250; May 6.
Lacey, Harold T., and H. E. Millson, Plainfield, and F. H. Heiss, Martinsville, N. J., assignors to American Cyanamid Company, New York, N. Y. Chemiluminescent compositions. 2,420,286; May 6.
Ladon, Aaron A.: *See—*
Boehm, Robert M., and Ladon.
Laford, Herbert M., Bloomfield, assignor to Electro-Protective Corporation, Newark, N. J. Electrical protective alarm system. 2,419,957; May 6.
La Foriyes, Frank, Rockford, Ill. Hair drier with air recirculating means. 2,420,251; May 6.
Lamb, Ernest P., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Gun-carrying vehicle. 2,420,179; May 6.
Lamberty, Frederick R., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 2,419,958; May 6.
Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Optical interference sight for guns, cameras, or the like. 2,420,252; May 6.
Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Optical interference sight for guns, cameras, or the like, including polarizers and a biaxial birefringent element. 2,420,253; May 6.
Landau, Miles E., New York, N. Y. Liquid applicator. 2,419,959; May 6.
Landis Tool Company, assignee: *See—*
Balsiger, Harold E., and Boller.
La Plant-Choate Mfg. Co., Inc., assignee: *See—*
Austin, Ellsworth W.
Laughlin, William C., New York, N. Y. Apparatus and method for hydraulic concentration. 2,420,180; May 6.
Leck, George W., Princeton Junction, N. J., assignor to Radio Corporation of America. Orienting mechanism for pulse echo systems. 2,419,999; May 6.
Legg, David A., Philadelphia, Pa., assignor to Publicker Industries, Inc. Fermenting sugars by mixed yeasts. 2,419,960; May 6.
Lessler, Lew W., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic printer. 2,420,141; May 6.
Lett, Julian T., assignee: *See—*
Wiley, Lee M.
Levin, David, Brooklyn, N. Y. Fruit squeezer. 2,420,142; May 6.
Lickteig, Albert F., assignor to National Brass Company, Grand Rapids, Mich. Inside locking latch construction. 2,420,083; May 6.
Lind, Rudolf E., Milwaukee, Wis. Physiotherapy cabinet. 2,420,254; May 6.
Lindhurst, Roland W.: *See—*
Hasler, Maurice F., and Lindhurst.
Link Aviation, Inc., assignee: *See—*
Marsh, Harold A.
Links, Julian A., San Francisco, Calif. Motion-picture projection apparatus. 2,419,961; May 6.
Linney, Albert T., Lexington, Ky. Sounding toy. 2,420,287; May 6.
Linton, William C., Washington, D. C., assignor to Fuse Indicator Corporation, Rockville, Md. Illuminator for cover plates. 2,420,000; May 6.
Lock, Ritchie H., Chigwell, assignor to Howards & Sons Limited, Ilford, England. Manufacture of addition compounds of lactic acid salts with acetic acid. 2,420,255; May 6.
Loeb, Carl, Chicago, Ill. Camera film cutoff and storage device. 2,420,046; May 6.
Logsdon, Harry, Newton, Iowa. Mail box. 2,420,084; May 6.
Long, Armistead R., Fayetteville, W. Va., and J. B. Long, U. S. Navy, Washington, D. C. Conveyor. 2,420,085; May 6.
Long, John B.: *See—*
Long, Armistead R. and J. B.
Long, Sidney L., Minneapolis, Minn. Toy. 2,420,181; May 6.
Lundblad, Oscar W., Ishpeming, Mich., assignor to Hercules Powder Company, Wilmington, Del. Lowering device. 2,420,182; May 6.

MacKenzie, Neil J., Superior, Wis. Shackle. 2,420,256; May 6.

Marien, Melvin W.: *See—*
Frisby, Frank D., and Marien.

Marien, Melvin W., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Composite sealing ring. 2,420,047; May 6.

Marion Power Shovel Company, assignee: *See—*
Borsini, Frederick H.

Mark, Jacob G., Brookline, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Scale resistant concrete and cement. 2,420,144; May 6.

Mars., Solomon, New York, N. Y. Shoulder mark. 2,420,257; May 6.

Marsh, Harold A., Boston, Mass., assignor to Link Aviation, Inc., Binghamton, N. Y. Training device. 2,420,048; May 6.

Martin, Homer Z., Roselle, N. J., assignor to Standard Oil Development Company. Catalytic hydrocarbon conversion starting up procedure. 2,420,049; May 6.

Mason, Frank E.: *See—*
Renouf, Ralph R., and Mason.

Masonite Corporation, assignee: *See—*
Boehm, Robert M., and Ladon.

Mattox, William J., La Grange, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of a polycyclic hydrocarbon. 2,420,143; May 6.

Maude, John H., Montreal, Quebec, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada. Hoist drum. 2,420,050; May 6.

Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,420,258; May 6.

Maytag Company, The, assignee: *See—*
Smith, Thomas R.

McAfee, Jerry, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons at high cracking temperature. 2,420,145; May 6.

McAllister, Sumner H., Lafayette, Calif., and C. C. Crawford, Bartlesville, Okla., assignors to Shell Development Company, San Francisco, Calif. Isomerizing paraffins and naphthenes in a mixed feed. 2,420,086; May 6.

McCollum, John, Oakland, Calif. Cargo moving device. 2,420,001; May 6.

McDermott, John K., Pittsburgh, Pa. Adjustable valve guide. 2,420,183; May 6.

McGraw Electric Company, assignee: *See—*
Olving, Bror G.
Osterheld, Clark M.
Riker, Burton M.

McKay, Leslie J., Orlando, Fla. Bench vise. 2,420,002; May 6.

McKenzie, Alexander C., Beaverton, Ontario, and R. H. and R. J. Jones, Toronto, Ontario, Canada. Garment stretcher. 2,420,051; May 6.

McLarty, Gordon, Battle Creek, Mich. Fan assembly. 2,419,962; May 6.

McNamara, Harold, Butler, Pa. Antiglare rear view mirror. 2,420,259; May 6.

Meek, Melvin J., assignor of one-half to B. C. Hogquist, South Bend, Ind. Fish landing net. 2,420,087; May 6.

Mekelburg, Harold L., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Cover fastening device. 2,420,184; May 6.

Merck & Co., Inc., assignee: *See—*
Tishler, Max.

Meridian Clock Co. (Gt. Britain) Limited, assignee: *See—*
Rosenfeld, Paul W.

Messmore, Harold E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Producing asphaltic materials. 2,420,185; May 6.

Mica Insulator Company, assignee: *See—*
Griffeth, Robert L., and Pickney.

Micromatic Hone Corporation, assignee: *See—*
Kline, John E.

Milburn, John E., Redwood City, Calif. Child's cart. 2,420,088; May 6.

Miller, Arthur S., C. W. Frank, and R. R. Hagglund, Minneapolis, Minn. Airplane hangar, administrative, and shop unit. 2,420,186; May 6.

Miller, Donald L.: *See—*
Buxton, James E., and Miller.

Miller, Donald L., Pine City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter drive. 2,420,288; May 6.

Miller, Donald L., Pine City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Starter for internal combustion engines. 2,420,289; May 6.

Miller Engineering Corporation, assignee: *See—*
Miller, Raymond J.

Miller Pottery Engineering Company, assignee: *See—*
Miller, William J.

Miller, Raymond J., assignor to Miller Engineering Corporation, Detroit, Mich. Temperature control mold. 2,420,003; May 6.

Miller, William J., Swissvale, assignor to Miller Pottery Engineering Company, Swissvale, Pittsburgh, Pa. Apparatus for decorating pottery ware. 2,419,963; May 6.

Millson, Henry E.: *See—*
Lacey, Harold T., Millson, and Heiss.

Minneapolis-Honeywell Regulator Company, assignee: *See—*
Sparrow, Hubert T., and Cyr.
Whempner, Russell H.

Moir, Harry L.: *See—*
Yule, John S., and Moir.

Monsanto Chemical Company, assignee: *See—*
Carswell, Thomas S
Kyrides, Lucas P., and Zienty.

Moore, Lee C., & Company, Inc., assignee: *See—*
Woolslayer, Homer J., Campbell, and Jenkins.

Mueller, Otto, Dearborn, Mich. Locking and ejecting device. 2,420,146; May 6.

Muir, William P., Hampsted, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada. Control apparatus for hydraulic machines. 2,420,052; May 6.

Mull, Raymond A., St. Joseph Township, Barrien County, Mich. Surgical instrument. 2,420,004; May 6.

Muller, Frans G. D., La Porte, Tex. Swing joint. 2,420,053; May 6.

Murphey, William, Chattanooga, Tenn. Undergarment. 2,420,089; May 6.

Myszkowski, Anton O., Gilman Hot Springs, Calif. Fruit jar washer. 2,420,260; May 6.

Nadean, Joseph A. L., The Forks, Maine. Snowshoe harness. 2,420,261; May 6.

National Bank of Bloomington, The, executor: *See—*
Paxton, John W. and G. N., and Cornish.

National Brass Company, assignee: *See—*
Lickteig, Albert F.
Vander Henst, Abraham.

National Pneumatic Company, assignee: *See—*
Newkirk, John R.

Navaretta, Malio, Providence, R. I. Removing fire film from heated silver-copper alloys. 2,420,262; May 6.

Navy, United States of America, as represented by the Secretary of the, assignee: *See—*
Bleakney, Robert M., and Workman.
Hammond, John H., Jr.
Sanders, Edwin R.

Nelson, Paul A., Lake Grove, Oreg. Straightedge protractor. 2,420,090; May 6.

Newkirk, John R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Spring return push door with door lock. 2,419,964; May 6.

Newman, Max M. and V. M., New York, N. Y. Necktie. 2,420,054; May 6.

Newman, Victor M.: *See—*
Newman, Max M. and V. M.

Niagara Searchlight Company, assignee: *See—*
Sherwood, Lewis G., and Wohler.

Nordling, Selma, Pasadena, Calif. Chest and shoulder protector. 2,420,091; May 6.

Norgren, Eric K., Chicago, Ill., assignor, by mesne assignments, to United States Government, as represented by the Secretary of War. Making metallic cartridge belt links. 2,420,147; May 6.

Northwestern Steel and Wire Company, assignee: *See—*
Davis, Ronald F.

Nuccio, Joseph, Chicago, Ill. Curtain rod. 2,420,005; May 6.

O'Hare, James W., Richmond Heights, Mo. Carrier for bottled goods. 2,420,006; May 6.

Olden, Roger G., Princeton Township, Mercer County, N. J., assignor to Radio Corporation of America. Flexible joint for waveguides. 2,420,007; May 6.

Olin Industries, Inc., assignee: *See—*
Seavey, Frederick R.
Sefried, Harry H., II.

Olpin, Henry C., E. Stanley, and C. S. Argyle, Spondon, near Derby, assignors to British Celanese Limited, London, England. Disazo dyes containing higher acylamino group. 2,420,008; May 6.

Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Automatic electric toaster. 2,420,188; May 6.

Onan, D. W., & Sons, assignee: *See—*
Dols, Charles G.

Osgood, Charles F., Claremont, N. H., assignor to Joy Manufacturing Company. Apparatus for transferring material in mines. 2,420,009; May 6.

Ostergren, Ralph H., Los Angeles, assignor to Douglas Aircraft Company, Inc., San Monica, Calif. Pressure indicator. 2,420,148; May 6.

Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Multicontact bimetallic thermal retarder for electric water heaters. 2,420,189; May 6.

Otte, Harry C., Brookhaven, Miss. Barrel planter. 2,420,092; May 6.

Papalexis, James, Ashtabula, and O. W. Johnson, Geneva, Ohio. Attachment for holding bags and other articles. 2,420,263; May 6.

Park, Joseph D.: *See—*
Benning, Anthony F., and Park.

Parks, Henry E.: *See—*
Parks, Henry U. L. and H. E.

Parks, Henry U. L. and H. E., Indianapolis, Ind. Combined curtain, drape, and shade. 2,420,149; May 6.

Paxton, Arlie L., executor: *See—*
Paxton, John W. and G. N., and Cornish.

Paxton, George N.: *See—*
Paxton, John W. and G. N., and Cornish.

Paxton, John W.: *See—*
Salsman, Thomas J., and Paxton.

Paxton, John W. and G. N., Bloomington, and I. R. Cornish, Elmhurst, A. L. Paxton and The National Bank of Bloomington, Bloomington, Ill., executors of said G. N. Paxton, deceased. Filing cabinet with tiltable compartment. 2,420,010; May 6.

Paxton, John W. and G. N., Bloomington, and I. R. Cornish, Elmhurst; A. L. Paxton and The National Bank of Bloomington, Bloomington, Ill., executors of said G. N. Paxton, deceased. Filing cabinet with tiltable compartment. 2,420,011; May 6.

Peabody Engineering Corporation, assignee: *See—*
Harmon, Robert R.

People in the Territory of the United States, Dedicated to the free use of the: *See—*
Goldblatt, Leo A., and Palkin.
Travis, Bernard V., and Jones.

Philco Corporation, assignee: *See—*
Boothroyd, Wilson P.
Hall, Russell M.

Phillips, Frederick W., New Orleans, La. Rebuilding worn rubber heels. 2,420,187; May 6.

Phillips Petroleum Company, assignee: *See—*
Frey, Frederick E.
Messmore, Harold E.

Pickney, Joseph J.: *See—*
Griffeth, Robert L., and Pickney.

Pieper, Alphonse F., Brighton, N. Y. Electric lighting means. 2,419,965; May 6.

Pieper, Alphonse F., Brighton, N. Y. Electric lighting means. 2,420,190; May 6.

Place, Willard P., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,420,093; May 6.

Ploederl, Francis J.: *See—*
Hempel, Charles H., and Ploederl.

Pokorny, Oldrich S.: *See—*
Stratford, Reginald K., and Pokorny.

Polaroid Corporation, assignee: *See—*
Land, Edwin H.
Thomas, Alexander.
West, Cutler D.
Young, Clinton J. T.

Polkingharn, Oril M., Cheyenne, Wyo. Self-riveting seal. 2,420,094; May 6.

Publicker Industries Inc., assignee: *See—*
Legg, David A.

Pure Oil Company, The, assignee: *See—*
Ayers, George W.
Henderson, Lawrence M., and Ayers.
Williams, Norman D., and Backoff.
Yule, John S., and Moir.

Putnam, Otto A., West Reading, Pa. Ophthalmic test instrument for the ocular muscles. 2,420,012; May 6.

Radio Corporation of America, assignee: *See—*
Brown, George H.
Carlson, Wendell L.
Crosby, Murray G.
Deal, Harmon B.
Dimmick, Glenn L.
Hansell, Clarence E.
Kilgore, George R.
Koch, Winfield R.
Korman, Nathaniel I.
Leck, George W.
Olden, Roger G.
Rajchman, Jan A.
Sanders, Royden C., Jr.
Schoenfeld, Earl.
Sinnett, Chester M.
Smith, Perry C.
Sontheimer, Carl G.
Tourshou, Simeon I.

Rainier, Maurice N., Los Angeles, Calif. Bed hook. 2,420,095; May 6.

Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Electron computing device. 2,420,013; May 6.

Ramsey Accessories Manufacturing Corporation, assignee: *See—*
Frisby, Frank D.
Frisby, Frank D., and Marien.
Marien, Melvin W.

Ransley, Charles E., Sudbury, J. W. Ryde, London, W. 14, and S. V. Williams, Kenton, assignors to The General Electric Company Limited, London, England. Crystal contacts of which one element is silicon. 2,419,966; May 6.

Ransom, Frances C., University City, Mo. Bottle holder. 2,420,191; May 6.

Rathbun, Harold J., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Induction motor control system. 2,420,192; May 6.

Rayfield, George T., assignor to Eitel-McCullough, Inc., San Bruno, Calif. Cathode. 2,420,014; May 6.

Reid Brothers Company, Inc., assignee: *See—*
Woodbury, Stephen E.

Renouf, Ralph R., Los Angeles, and F. E. Mason, South Gate, assignors to Emsco Derrick & Equipment Company, Los Angeles, Calif. Oil well pump. 2,420,151; May 6.

Reynolds, Charles L., assignee, et al.: *See—*
Wildman, Benjamin H.

Reynolds Metals Co., assignee: *See—*
Burnett, John W.

Rhein, Louis J., Aberdeen, Md. Fuse. 2,419,967; May 6.

Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Voltage ratio recorder. 2,420,193; May 6.

Richards, Lawrence M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reaction product of a polyethylenically unsaturated polymer and a carbothiolic acid. 2,420,194; May 6.

Riess, John, St. Louis, Mo., assignor to Henry Hotze & Sons Company. Hand-carried luggage. 2,420,150; May 6.

Riker, Burton M., assignor to McGraw Electric Company, Elgin, Ill. Electric sadiron. 2,420,195; May 6.

Roberts, Bruce, Philadelphia, Pa., assignor to General Electric Company. Push button tuner for multiband radio receivers. 2,419,968; May 6.

Robin, Jacob I., New York, N. Y. Suspension means. 2,420,196; May 6.

Rodman, Hugh, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Koppers Company, Inc. Recovering and purifying carbazole and anthracene. 2,419,969; May 6.

Roe, Robert B., West Hempstead, and J. B. Gray, Garden City, N. W., assignors to Sperry Gyroscope Company, Inc. Navigation system. 2,419,970; May 6.

Roose, John I., Los Angeles, Calif. Plumb bob. 2,420,096; May 6.

Rosenfeld, Paul W., London, assignor to Meridian Clock Co. (Gt. Britain) Limited, London, E. C. 2, England. Electrically operated winding means for spring-actuated clocks. 2,420,097; May 6.

Rosenthal, Adolph H., New York, N. Y. System for supervising the taking of moving pictures. 2,420,197; May 6.

Rosenthal, Adolph H., assignor to Scophony Corporation of America, New York, N. Y. Two-way television communication unit. 2,420,198; May 6.

Rost, Helge F., Djursholm, K. H. Thunell, Nockeby, S. D. Vigren, Stockholm, and P. H. E. Claesson, Jakobsberg, Sweden. Stabilizing means for the control of a frequency modulated ultrashort wave transmitter. 2,420,264; May 6.

Rouleau, Wilfred J., Quincy, Mass. Compressor. 2,420,098; May 6.

Royal, Thomas M., & Co., assignee: *See—*
Volksdorf, Hans.

Rumpf, Herman and I. J., Burlingame, Calif. Padding and sound proofing material. 2,419,971; May 6.

Rumpf, Irwin J.: *See—*
Rumpf, Herman and I. J.

Ryde, John W.: *See—*
Ransley, Charles E., Ryde, and Williams.

Salle, Anthony J., West Los Angeles, and H. L. Guest, Ocean Park, assignors of one-half to L. A. Gunther, Robbins, Calif. Phenolic type germicides and making same. 2,420,099; May 6.

Salsbury Corporation, assignee: *See—*
Salsbury, Esley F.
Thostenson, Lewis D.

Salsbury, Esley F., assignor to Salsbury Corporation, Los Angeles, Calif. Vehicle speed governed belt transmission. 2,420,100; May 6.

Salsman, Thomas J., Chicago, and J. W. Paxton, Bloomington, Ill. Filing cabinet. 2,420,015; May 6.

Samann, Eric L., Grand Rapids, Mich. Padding member for garment hangers. 2,420,101; May 6.

Sanders, Edwin R., Silver Spring, Md., assignor to the United States of America, as represented by the Secretary of the Navy. Testing device. 2,420,055; May 6.

Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Reflected wave navigation device. 2,420,016; May 6.

Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Reflected wave navigation device. 2,420,017; May 6.

Sanders, Royden C., Jr., Haddonfield, N. J., assignor to Radio Corporation of America. Frequency modulated altimeter or distance indicator. 2,420,199; May 6.

Schaal, Norbert J., Riverton Heights, Wash. Freezing machine. 2,419,954; May 6.

Schartel, Karl W.: *See—*
Seligmann, Arthur, and Schartel.

Schick, Max, New York, N. Y. Talisman container. 2,420,265; May 6.

Schmitt, George P., New York, N. Y. Catalytic lighter. 2,419,972; May 6.

Schoenfeld, Earl, Mamaroneck, N. Y., assignor to Radio Corporation of America. Deflecting circuit. 2,420,200; May 6.

Schwarz, Benno, Norwich, England. Electric frequency converter. 2,420,266; May 6.

Scophony Corporation of America, assignee: *See—*
Rosenthal, Adolph H.

- Seavey, Frederick R., Alton, Ill., assignor to Olin Industries, Inc. Blasting cap. 2,420,201; May 6.
- Sefried, Harry H., II, assignor to Olin Industries, Inc., New Haven, Conn. Support for rifles and other shoulder firearms. 2,420,267; May 6.
- Seligmann, Arthur, Newark, N. J., and K. W. Schartel, New York, assignors to J. H. H. Voss, Co., Bronx, N. Y. Valve. 2,420,056; May 6.
- Semerau, Walter J., Alloy, W. Va., assignor to General Aniline & Film Corporation, New York, N. Y. Range finder coupling for cameras. 2,420,018; May 6.
- Serdex, Inc., assignee: *See*—
  - Coburn, William K.
- Setz, Walter H., Upper Darby, Pa., assignor to All American Aviation, Inc., Wilmington, Del. Tension testing machine. 2,420,202; May 6.
- Shell Development Company, assignee: *See*—
  - McAllister, Sumner H., and Crawford.
- Sherbondy, Anna L., executrix: *See*—
  - Sherbondy, William E.
- Sherbondy, William E., deceased, Shaker Heights; A. L. Sherbondy, executrix, assignor to Vital Products Manufacturing Company, Cleveland, Ohio. Dispensing apparatus for plastic material. 2,420,203; May 6.
- Sherwood, Lewis G., and C. E. Wohler, assignors to Niagara Searchlight Company, Inc., Niagara Falls, N. Y. Flashlight. 2,420,152; May 6.
- Shrack, Philip O., Atchison, Kans. Timing device. 2,420,019; May 6.
- Shuford, Edward L., assignor of fifty per cent to R. W. Hunting, Asheville, N. C. Syringe extension. 2,420,102; May 6.
- Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Method of and system for enhancing sound reproduction. 2,420,204; May 6.
- Sjogren, Walter O., Worcester, Mass. Coupling. 2,420,205; May 6.
- Smith, Chetwood, Worcester, Mass. Pressure and temperature relief valve. 2,420,206; May 6.
- Smith, Perry C., Moorestown, N. J., assignor to Radio Corporation of America. Electron gun mounting. 2,420,207; May 6.
- Smith, Pierson K.: *See*—
  - Curll, Harold E., and Smith.
- Smith, Ralph W., Walton, N. Y. Wiring system fo outdoor auto theatres. 2,420,103; May 6.
- Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Seal guard ring. 2,420,104; May 6.
- Smith, William F.: *See*—
  - Stauffer, Robert E., and Smith.
  - Trivelli, Adrian P. H., and Smith.
- Snell, Francis A., assignor, by mesne assignments, to B M C Manufacturing Corporation, Binghamton, N. Y. Lever-actuated pivoted-jaw wrench. 2,420,020; May 6.
- Solar Aircraft Company, assignee: *See*—
  - Sprenger, Harold A., and Greene.
- Solar Corporation, assignee: *See*—
  - Fields, George C.
- Solomon, Joseph W., Bronx, N. Y., assignor to The Verplex Company, Essex, Conn. Lamp shade mounting member. 2,420,208; May 6.
- Sontheimer, Carl G., Stamford, Conn., assignor to Radio Corporation of America. Frequency modulation detector. 2,420,268; May 6.
- Sparklets Limited, assignee: *See*—
  - Brewer, William.
- Sparrow, Hubert T., and B. Cyr, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Circuit controlling device. 2,420,105; May 6.
- Sperry Gyroscope Company, Inc., assignee: *See*—
  - Haskins, Robert, Jr.
  - Roe, Robert B., and Gray.
  - Wilson, Jack C.
- Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Goggle. 2,420,106; May 6.
- Sprenger, Harold A., and J. R. Greene, assignors to Solar Aircraft Company, San Diego, Calif. Flexible exhaust conduit assembly. 2,420,153; May 6.
- Sproule, William K., and G. A. Harcourt, Copper Cliff, Ontario, Canada, assignors to The International Nickel Company, Inc., New York, N. Y. Separation of copper and nickel sulfides. 2,419,973; May 6.
- Stallins, Lee, Denver, Colo. Pin curl curler. 2,420,107; May 6.
- Stallmann, Otto: *See*—
  - Tinker, John M., and Stallmann.
- Standard Oil Development Company, assignee: *See*—
  - Brandon, Richard C.
  - Duncan, Gordon W., and Zimmer.
  - Ferguson, Frank A.
  - Klinger, Earl W.
  - Martin, Homer Z.
  - Stratford, Reginald K., and Pokorny.
- Stanley, Edmund: *See*—
  - Olpin, Henry C., Stanley, and Argyle.
- Stauffer, Robert E., and W. F. Smith, assignors to Eastman Kodak Company, Rochester, N. Y. Silver halide emulsions containing water-insoluble hydrazine derivatives. 2,419,974; May 6.
- Steffes, Milton J., Dearborn, assignor to Super Tool Company, Macomb County, Mich. Inserted blade cutter and clamping means. 2,420,057; May 6.
- Stephens, Roderick, Jr., New York, N. Y. Rudder control linkage. 2,420,154; May 6.
- Stone, Ernest V., Los Alamitos, Calif. Pneumatic control. 2,420,269; May 6.
- Storm-Vulcan Manufacturing Company, Inc., assignee: *See*—
  - Johnson, Raymond A.
- Stratford, Reginald K., Corunna, and O. S. Pokorny, Sarnia, Ontario, Canada, assignors to Standrd Oil Development Company. Treating a solvent-extracted petroleum distillate with clay and lime. 2,420,108; May 6.
- Straubel, Clarence W., and J. S. Holbrook, assignors to The General Fireproofing Company, Youngstown, Ohio. Tab for guide cards. 2,420,021; May 6.
- Strom, Clifford M., Chicago, Ill. Electric fan. 2,420,209; May 6.
- Studebaker Corporation, The, assignee: *See*—
  - Hardig, Eugene J.
- Sun Chemical Corporation, assignee: *See*—
  - Wekeman, Stephen N.
- Sun Oil Company, assignee: *See*—
  - Young, Wayne W.
- Super Tool Company, assignee: *See*—
  - Steffes, Milton J.
- Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Compensated photoelectric photometer circuits. 2,420,058; May 6.
- Thomas, Alexander, Weston, assignor to Poloroid Corporation, Cambridge, Mass. Laminated optical filter. 2,420,270; May 6.
- Thompson, Max C., South Pasadena, Calif. Cleaning gun. 2,420,109; May 6.
- Thostenson, Lewis D., Inglewood, assignor to Salsbury Corporation, Los Angeles, Calif. Brake control mechanism. 2,420,110; May 6.
- Thostenson, Lewis D., Inglewood, assignor to Salsbury Corporation, Los Angeles, Calif. Throttle control mechanism. 2,420,111; May 6.
- Thunell, Karl H.: *See*—
  - Rost, Helge F., Thunell, Vigren, and Claesson.
- Tinker, John M., Wilmington, Del., and O. Stallmann, Bridgeton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of anthrimides. 2,420,022; May 6.
- Tishler, Max, assignor to Merck & Co., Inc., Rahway, N. J. Tetraacylribonyl-xylidine. 2,420,210; May 6.
- Titeflex, Inc., assignee: *See*—
  - Anderson, John W.
  - Ingalls, David.
- Tourshou, Simeon I., Philadelphia, Pa., assignor to Radio Corporation of America. Pulse-echo radio system testing means. 2,420,211; May 6.
- Transparent-Wrap Machine Corporation, assignee: *See*—
  - Zwoyer, Walter R.
- Travis, Bernard V., and H. A. Jones, Orlando, Fla., dedicated to the free use of the People in the territory of the United States. Insect repellent composition. 2,420,271; May 6.
- Trepagnier, Joseph H., Wilmington, Del., and J. V. Vaughen, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of dinitrosobenzenes. 2,419,976; May 6.
- Trivelli, Adrian P. H., and W. F. Smith, assignors to Eastman Kodak Company, Rochester, N. Y. Increasing speed and contrast of photographic emulsions. 2,419,975; May 6.
- Tucker, Warren R., Oakwood, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Control mechanism for hydraulic transmissions. 2,420,155; May 6.
- Union Switch & Signal Company, The, assignee: *See*—
  - Bone, Herbert L.
  - Place, Willard P.
  - Walker, Alec H. B.
- United Aircraft Corporation, assignee: *See*—
  - Hunt, William E.
- United-Carr Fastener Corporation, assignee: *See*—
  - Johnson, Frank E.
- Universal Oil Products Company, assignee: *See*—
  - Chenicek, Joseph A.
  - Flock, Bernard J., and Gerhold.
  - Mattox, William J.
  - McAfee, Jerry.
- Utzler, Elmer W., Pittsburgh, Pa. Making gratings having interlocked bars. 2,420,112; May 6.
- Vander Henst, Abraham, assignor to National Brass Company, Grand Rapids, Mich. Locking latch. 2,420,113; May 6.
- Vander Henst, Abraham, assignor to National Brass Company, Grand Rapids, Mich. Latch. 2,420,114; May 6.
- Van Suchtelen, Harold, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for electromagnetic deflection of a cathode-ray. 2,420,156; May 6,
- Vaughen, John V.: *See*—
  - Trepagnier, Joseph H., and Vaughen.
- Vennes, Harald J.: *See*—
  - Konicek, Frank, and Vennes.
- Verflex Company, The, assignee: *See*—
  - Solomon, Joseph W.

- Vigren, Sten D.: *See*—
  - Rost, Helge F., Thunell, Vigren, and Claesson.
- Vital Products Manufacturing Company, assignee: *See*—
  - Sherbondy, William E.
- Volksdorf, Hans, assignor to Thomas M. Royal & Co., Philadelphia, Pa. Bag. 2,420,212; May 6.
- Voss, J. H. H., Co., assignee: *See*—
  - Seligmann, Arthur, and Schartel.
- Vulcan Corporation, assignee: *See*—
  - Clausing, George.
  - Curll, Harold E., and Smith.
- Wagner Electric Corporation, assignee: *See*—
  - Doelling, George L.
- Waldorf Paper Products Company, assignee: *See*—
  - Dunning, Robert M.
- Walker, Alec H. B., London, England, assignor, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Apparatus for frequency multiplication of alternating electric currents. 2,420,213; May 6.
- Walker, Jay P., and C. O. Glasgow, Tulsa, Okla. Methods of and apparatus for treating oil well streams. 2,420,115; May 6.
- Wallace, John G., Toronto, Ontario, Canada. Locking device. 2,420,272; May 6.
- Walters, Maxwell I., Rochester, N. Y. Coat hanger. 2,420,116; May 6.
- War, United States of America, as represented by the Secretary of, assignee: *See*—
  - Norgren, Eric K.
- Weatherup, Robert A., Redlands, Calif. Internal-combustion engine. 2,420,117; May 6.
- Wekeman, Stephen N., Saddle River Township, Bergen County, N. J., assignor to Sun Chemical Corporation. Changeable lens and filter structure for copy cameras. 2,420,023; May 6.
- Wellbrock, John H., Queens Village, N. Y. Brake fluid control apparatus. 2,419,977; May 6.
- Welsh, Richard J., assignee: *See*—
  - Condon, John.
- West, Cutler D., assignor to Polaroid Corporation, Cambridge, Mass. Achromatic sight for guns, cameras, or the like, including polarizing and birefringent elements. 2,420,273; May 6.
- West, Herbert J., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Resin finishing of textiles. 2,420,157; May 6.
- Western Electric Company, Incorporated, assignee: *See*—
  - Konicek, Frank, and Vennes.
- Wheeler, John N.: *See*—
  - Dickinson, Arthur H., and Wheeler.
- Whempner, Russell H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Manual control apparatus. 2,420,214; May 6.
- Wildman, Benjamin H., assignor of one-half to C. L. Reynolds and R. W. Beach, Seattle, Wash. Photography system. 2,419,978; May 6.
- Wiley, Lee M., assignor of one-half to J. T. Lett, Marion, Ind. Stacking cups and container for same. 2,420,215; May 6.
- Williams, George, assignee, et al.: *See*—
  - Ames, Robert G.
- Williams, Milton F., Jr.: *See*—
  - Clemmer, Julius B., and Williams.

- Williams, Norman D., Chicago, and W. J. Backoff, Elmhurst, assignors to The Pure Oil Company, Chicago, Ill. Heavy-duty motor oil composition. 2,420,274; May 6.
- Williams, Stanley V.: *See*—
  - Ransley, Charles E., Ryde, and Williams.
- Williamson, Walter L., Glen Iris, Melbourne, Victoria, Australia. Shuttle and bobbin for looms. 2,420,216; May 6.
- Wilson, Jack C., Garden City, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Transformer pickoff. 2,419,979; May 6.
- Wilson, Johnnie S., Cleveland, Ohio. Sweeping broom. 2,420,158; May 6.
- Winberg, Ragnar W., New York, N. Y. Bobbin thread controlled signal for sewing machines. 2,420,275; May 6.
- Wineman, Wade H., Michigan City, Ind., assignor to Joy Manufacturing Company. Compressor unloader mechanism. 2,420,159; May 6.
- Wohler, Charles E.: *See*—
  - Sherwood, Lewis G., and Wohler.
- Wood, Joseph K., assignor to General Spring Corporation, New York, N. Y. Support. 2,420,276; May 6.
- Woodbury, Stephen E., assignor to Reid Brothers Company, Inc., Beverly, Mass. Grinding machine. 2,420,024; May 6.
- Woolslayer, Homer J., E. A. Campbell, and C. Jenkins, Tulsa, Okla., assignors to Lee C. Moore & Company, Inc., Pittsburgh, Pa. Skeleton mast having legs circular in cross section. 2,420,059; May 6.
- Workman, Everly J.: *See*—
  - Bleakney, Robert M., and Workman.
- Worth, Weldon, Dayton, Ohio. Temperature control unit. 2,419,980; May 6.
- Wulstein, Charles, assignor to himself and M. Gordon, New York, N. Y. Combined handle and hanger. 2,420,277; May 6.
- Wyeth Incorporated, assignee: *See*—
  - Gyorgy, Paul.
- Yardeny, Michel N., New York, N. Y. Dual-remote control apparatus. 2,420,026; May 6.
- Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Curing V-type belts. 2,420,278; May 6.
- Young, Clinton J. T., assignor to Polaroid Corporation, Cambridge, Mass. Laminated polarizer and birefringent layers. 2,420,279; May 6.
- Young, Leo F., Wharton, N. J. Fuse. 2,419,981; May 6.
- Young, Wayne W., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Vibration recorder. 2,420,025; May 6.
- Yule, John S., Chicago, and H. L. Moir, Skokie, assignors to The Pure Oil Company, Chicago, Ill. Lubricant and making same. 2,420,280; May 6.
- Zbar, Marcus J., Tampa, Fla. Diving mask. 2,420,281; May 6.
- Zienty, Ferdinand B.: *See*—
  - Kyrides, Lucas P., and Zienty.
- Zimmer, John C.: *See*—
  - Duncan, Gordon W., and Zimmer.
- Zwoyer, Walter R., Maywood, N. J., assignor to Transparent-Wrap Machine Corporation, New York, N. Y. Automatic packaging machine. 2,419,982; May 6.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bun making machine. W. C. Grimm and R. H. Linneman. Re. 22,875; May 6.

LIST OF PLANT INVENTIONS

Maple tree. P. Barbier. 735; May 6.

LIST OF DESIGN INVENTIONS

Blade, Fly swatter. H. S. Roemisch. 146,747; May 6.
Box, Sewing. H. W. Murray. 146,743; May 6.
Bureau. M. Haliward. 146,740; May 6.
Cap for gasoline tanks, Locking. S. J. Sidell. 146,750; May 6.
Case or similar article, Vanity. F. Spitalny. 146,755; May 6.
Dispenser set, Condiment. W. E. Ballard. 146,733; May 6.
Easel. C. A. Elzinga. 146,738; May 6.
Educational device to teach children to read a clock. J. A. Webb. 146,757; May 6.
Fabric, Textile. E. Raphaels. 146,745–6; May 6.
Flatiron, Electric. W. J. Russell. 146,748; May 6.
Game board. W. M. Childs. 146,736; May 6.
Handbag. A. Glaser. 146,739; May 6.
Heater, Space. K. P. Schory. 146,749; May 6.
Mixer and container, Baby's formula. R. A. and D. L. Warren. 146,756; May 6.
Pin or similar article. M. Slater. 146,751–4; May 6.
Saw or similar article, Bone cutting. D. Dohm, Jr. 146,737; May 6.
Slipper. T. M. Carpenter. 146,735; May 6.
Toy bird figure, Activated. R. T. Plate. 146,744; May 6.
Toy, Pull. C. H. Keller. 146,741; May 6.
Toy, Wheeled. R. L. McCormack. 146,742; May 6.
Utensil, Cooking. W. A. Beck. 146,734; May 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid, Purification of lactic. E. M. Filachione and C. H. Fisher. 2,420,234; May 6.
Addition compounds of lactic acid salts with acetic acid, Manufacture of. R. H. Lock. 2,420,255; May 6.
Airplane hangar, administrative and shop unit. A. S. Miller, C. W. Frank, and R. R. Hagglund. 2,420,186; May 6.
Alarm system, Electrical protective. H. M. Laford. 2,419,957; May 6.
Altimeter or distance indicator, Frequency modulated. R. C. Sanders, Jr. 2,420,199; May 6.
Amplitude limiter circuit. W. R. Koch. 2,420,248; May 6.
Amplitude modulation reducing circuit. N. I. Korman. 2,420,249; May 6.
Anthrimides, Production of. J. M. Tinker and O. Stallmann. 2,420,022; May 6.
Apparatus for decorating pottery ware. W. J. Miller. 2,419,963; May 6.
Apparatus for flanging and curving metal strips. E. J. Boddy. 2,420,064; May 6.
Apparatus for frequency multiplication of alternating electric currents. A. H. B. Walker. 2,420,213; May 6.
Apparatus for jacking up and lowering motor vehicle wheels. G. H. Foss. 2,420,130; May 6.
Apparatus for transferring material in mines. C. F. Osgood. 2,420,009; May 6.
Applicator, Liquid. M. E. Landau. 2,419,959; May 6.
Asphaltic materials, Producing. H. E. Messmore. 2,420,185; May 6.
Atomizer. W. Brewer. 2,420,223; May 6.
Attachment for holding bags and other articles. J. Papalexis and O. W. Johnson. 2,420,263; May 6.
Auxiliary boiler. M. C. Crotty. 2,420,231; May 6.
Bag. H. Volksdorf. 2,420,212; May 6.
Bank, Coin. P. B. Keller. 2,420,246; May 6.
Bar control, Cutter. E. W. Baldwin. 2,420,219; May 6.
Bed hook. M. N. Rainier. 2,420,095; May 6.
Belts, Curing V-type. C. W. Yelm. 2,420,278; May 6.
Bench vise. L. J. McKay. 2,420,002; May 6.
Bituminous composition comprising an asphalt and a polymerized ester of Methacrylic acid. E. W. Klinger. 2,420,082; May 6.
Blasting cap. F. R. Seavey. 2,420,201; May 6.
Bob. Plumb. J. I. Roose. 2,420,096; May 6.
Boiler: *See*—
  Auxiliary boiler.
Bottle carrier. W. D. Egly. 2,420,069; May 6.
Bottle holder. F. C. Ransom. 2,420,191; May 6.
Box: *See*—
  Mail box.
Bracket: *See*—
  Combined curtain, drape and shade bracket.
Brake control mechainsm. L. D. Thostenson. 2,420,110; May 6.
Broom, Sweeping. J. S. Wilson. 2,420,158; May 6.
Bulkhead and dock. J. Condon. 2,420,228; May 6.
Cabinet: *See*—
  Filing cabinet.
  Physiotherapy cabinet.
Cabinet with tiltable compartment, Filing. J. W. and G. N. Paxton, and I. R. Cornish. 2,420,010–11; May 6.
Camera film cutoff and storage device. C. Loeb. 2,420,046; May 6.
Cap: *See*—
  Blasting cap.
Car: *See*—
  Railway tank car.
Carbazole and anthracene, Recovering and purifying. H. Rodman, Jr. 2,429,969; May 6.
Carbureting and fuel supply means for motor-driven vehicles. W. R. Kuzelka. 2,419,956; May 6.
Carburetor, Pressure. G. M. Holley, Jr. 2,420,079; May 6.
Cargo moving device. J. McCollum. 2,420,001; May 6.
Carrier: *See*—
  Bottle carrier.
Carrier for bottled goods. J. W. O'Hare. 2,420,006; May 6.
Cart, Child's. J. E. Milburn. 2,420,088; May 6.
Cartons by suction, Method and apparatus for sealing. R. M. Dunning. 2,419,991; May 6.
Cartridge belt links, Making metallic. E. K. Norgren. 2,420,147; May 6.
Catalysts, Suppression of metal. J. A. Chenicek. 2,420,122; May 6.
Cathode. G. T. Rayfield. 2,420,014; May 6.
Chemiluminescent compositions. H. T. Lacey, H. E. Millson, and F. H. Heiss. 2,420,286; May 6.
Chest and shoulder protector. S. Nordling. 2,420,091; May 6.
Cigarette package holder. I. E. Cohn. 2,420,031; May 6.
Circuit: *See*—
  Amplitude limiter circuit.
  Amplitude modulation reducing circuit.
  Deflecting circuit.
Circuit controlling means. H. L. Bone. 2,420,065; May 6.
Circuits, Compensated photoelectric photometer. M. H. Sweet. 2,420,058; May 6.
Circulating device, Heat. M. J. Cooper. 2,420,123; May 6.
Clamp: *See*—
  Work clamp.
Coat hanger. M. I. Walters. 2,420,116; May 6.
Collector ring. S. J. Goran. 2,419,992; May 6.
Collet attachment for lathes or other metalworking machines. H. E. Crozier. 2,420,067; May 6.
Collet chuck. G. Fisher. 2,420,128; May 6.
Combined curtain, drape, and shade bracket. H. U. L. and H. E. Parks. 2,420,149; May 6.
Communication system. F. R. Lamberty. 2,419,958; May 6.
Communication unit, Two-way television. A. H. Rosenthal. 2,420,198; May 6.
Composite sealing ring. M. W. Marien. 2,410,047; May 6.
Compounds with marihuana activity, Preparation of. R. Adams. 2,419,936; May 6.
Compressor. W. J. Rouleau. 2,420,098; May 6.
Computing device, Electron. J. A. Rajchman. 2,420,013; May 6.
Concrete and cement, Scale resistant. J. G. Mark. 2,420,144; May 6.
Conduit assembly, Flexible exhaust. H. A. Sprenger and J. R. Greene. 2,420,153; May 6.
Connecting means for shielded ignition leads. J. W. Anderson. 2,420,118; May 6.
Contacts of which one element is silicon, Crystal. C. E. Ransley, J. W. Ryde, and S. V. Williams. 2,419,966; May 6.
Container: *See*—
  Talisman container.
Control apparatus. R. H Johnson. 2,420,043; May 6.
Control apparatus for hydraulic machines. W. P. Muir. 2,420,052; May 6.
Control device for disconnecting switches, Safety. C. P. Corey and E. R. Deming. 2,420,166; May 6.
Control mechanism for hydraulic transmission. W. R. Tucker. 2,420,155; May 6.
Controlling device, Circuit. H. T. Sparrow and B. Cyr. 2,420,105; May 6.
Converter, Electric frequency. B. Schwarz. 2,420,266; May 6.
Conveyor. A. R. and J. B. Long. 2,420,085; May 6.
Conveyor mechanism for portable grinding mills. T. D. Kidd. 2,420,247; May 6.
Cooking and seasoning hard crabs. D. Barrett. 2,420,063; May 6.
Corner finishing tool. R. G. Ames. 2,420,062; May 6.
Corrosion preventive composition. G. L. Doelling. 2,420,127; May 6.
Coupling: *See*—
  Turbine type hydraulic coupling.
Coupling. W. O. Sjogren. 2,420,205; May 6.
Coupling for cameras, Range finder. W. J. Semerau. 2,420,018; May 6.
Cover: *See*—
  Infant's sleeping cover.
Cross-totalizing device for record card data, Relay type. A. H. Dickinson and J. N. Wheeler. 2,420,167; May 6.
Cups and container for same, Stacking. L. M. Wiley. 2,420,215; May 6.
Curler, Pin curl. L. Stallins. 2,420,107; May 6.
Curtain rod. J. Nuccio. 2,420,005; May 6.
Cutter and clamping means, Inserted blade. M. J. Steffes. 2,420,057; May 6.
Cutting machine, Torch. J. L. Anderson. 2,419,983; May 6.
Dealkylation, Partial. F. E. Frey. 2,420,073; May 6.
Deflecting circuit. E. Schoenfeld. 2,420,200; May 6.
Detachable head wrench. M. Gryniuck. 2,420,132; May 6.
Detector, Frequency modulation. C. G. Sontheimer. 2,420,268; May 6.
Device for electromagnetic deflection of a cathode-ray. H. van Suchtelen. 2,420,156; May 6.

Device for securing a propellent charge to an artillery primer. E. J. Hottinger. 2,419,949; May 6.

Diazo dyes containing higher acylamino group. H. C. Olpin, E. Stanley, and C. S. Argyle. 2,420,008; May 6.

Dinitrosobenzenes, Preparation of. J. H. Trepagnier and J. V. Vaughen. 2,419,976; May 6.

Direction finder. W. L. Carlson. 2,419,987; May 6.

Direction finder, High-frequency. C. F. Edwards and K. G. Jansky. 2,419,946; May 6.

Direction finding. C. W. Hansell. 2,419,994; May 6.

Dispensing apparatus for plastic material. W. E. Sherbondy. 2,420,203; May 6.

Door latch. H. C. Gilbert. 2,420,285; May 6.

Door with door lock, Spring return push. J. R. Newkirk. 2,419,964; May 6.

Drain plug. M. B. Krall. 2,420,177; May 6.

Drier with air recirculating means, Air. F. La Foriyes. 2,420,251; May 6.

Drum, Hoist. J. H. Maude. 2,420,050; May 6.

Dual-remote-control apparatus. M. N. Yardeny. 2,420,026; May 6.

Duplex welding tube. C. J. Bell. 2,420,221; May 6.

Dust removing system, Automatic. F. B. Allen. 2,420,217; May 6.

Ear muff, Plastic. S. Hurst. 2,420,245; May 6.

Egg cleaning machine. R. E. Hutchins, Jr. 2,419,933; May 6.

Electric water heater. R. A. Johnstone. 2,420,175; May 6.

Electrical switch. R. M. Bleakney and E. J. Workman. 2,420,028; May 6.

Electrical switch. O. Froland. 2,420,074; May 6.

Electron gun mounting. P. C. Smith. 2,420,207; May 6.

Engine: *See*—
Internal-combustion engine. Six cycle engine.

Engine starter drive. D. L. Miller. 2,420,288; May 6.

Exercising machine. W. J. S. Johnson. 2,419,998; May 6.

Fan assembly. G. McLarty. 2,419,962; May 6.

Fan, Electric. C. M. Strom. 2,420,209; May 6.

Fastener. A. R. Adams. 2,420,060–1; May 6.

Fastener-applying implement. A. H. Maynard. 2,420,258; May 6.

Fastener attaching unit, Shiftable rotary operative. F. E. Johnson. 2,420,042; May 6.

Fastening device, Cover. H. L. Mekelburg. 2,420,184; May 6.

Fastening means, Lifeboat. P. Full. 2,420,236; May 6.

Fat compositions, Stabilized. P. Gyorgy. 2,420,238; May 6.

Fibers from long fine fibers, Separating short coarse. R. A. Fairbairn. 2,420,036; May 6.

Fibers, Method and apparatus for separating. R. A. Fairbairn. 2,420,033; May 6.

Fibers, Method and apparatus for separating. R. A. Fairbairn. 2,420,035; May 6.

Fibers, Method of and apparatus for parallelizing textile. R. A. Fairbairn. 2,420,034; May 6.

Filing cabinet. T. J. Salsman and J. W. Paxton. 2,420,015; May 6.

Film, Achromatic light reflecting and transmitting. G. L. Dimmick. 2,420,168; May 6.

Filter: *See*—
Laminated optical filter.

Fire film from heated silver-copper alloys, Removing. M. Navaretta. 2,420,262; May 6.

Flashlight. L. G. Sherwood and C. E. Wohler. 2,420,152; May 6.

Flow actuated switch. N. Brewer. 2,419,942; May 6.

Flow of fluidized solids and liquids, Controlling the. B. J. Flock and C. G. Gerhold. 2,420,129; May 6.

Fluid control apparatus, Brake. J. H. Wellbrock. 2,419,977; May 6.

Fluoro-chloro compounds, Preparing. A. F. Benning and J. D. Park. 2,420,222; May 6.

Frame: *See*—
Trial frame.

Freezing machine. N. J. Schaal. 2,419,954; May 6.

Frost on refrigerator doors, Prevention of. W. B. Haggerty. 2,420,240; May 6.

Fruit jar washer. A. O. Myszkowski. 2,420,260; May 6.

Fruit squeezer. D. Levin. 2,420,142; May 6.

Fuels and preparation thereof, Motor. R. C. Brandon. 2,420,030; May 6.

Furnace: *See*—
Heat treating furnace.

Furnace control, Electric. R. F. Davis. 2,419,988; May 6.

Fuse. L. J. Rhein. 2,419,967; May 6.

Fuse. L. F. Young. 2,419,981; May 6.

Fuse device, Bomb. P. H. Girouard. 2,420,237; May 6.

Gage for threading tool, Center. A. E. Belzung. 2,419,941; May 6.

Gamma-valerolactone, Preparing. L. P. Kyrides and F. B. Zienty. 2,420,250; May 6.

Gang assembly, Rotary. W. R. Brown. 2,419,986; May 6.

Gantry. F. H. Borsini. 2,420,163; May 6.

Garment stretcher. A. C. McKenzie and R. H. and R. J. Jones. 2,420,051; May 6.

Gas scrubber. R. R. Harmon. 2,420,242; May 6.

Gear control and indicating arrangement, Landing. H. G. Conway. 2,420,066; May 6.

Germicides and making same, Phenolic type. A. J. Salle and H. L. Guest. 2,420,099; May 6.

Goggle. E. M. Splaine. 2,420,106; May 6.

Gratings having interlocked bars, Making. E. W. Utzler. 2,420,112; May 6.

Grinding machine. H. E. Balsiger and J. A. Boller. 2,419,940; May 6.

Grinding machine. S. E. Woodbury. 2,420,024; May 6.

Gun-carrying vehicle. E. P. Lamb. 2,420,179; May 6.

Gun, Cleaning. M. C. Thompson. 2,420,109; May 6.

Gyrocompass. R. Haskins, Jr. 2,419,948; May 6.

Halide emulsions containing water-insoluble hydrazine derivatives, Silver. R. E. Stauffer and W. F. Smith. 2,419,974; May 6.

Hammer. K. Bruchsaler. 2,420,120; May 6.

Handle and hanger, Combined. C. Wulstein. 2,420,277; May 6.

Hanger: *See*—
Coat hanger.

Harness, Snowshoe. J. A. L. Nadeau. 2,420,261; May 6.

Heat treating furnace. H. E. Curil and P. K. Smith. 2,420,126; May 6.

Heater: *See*—
Electric water heater.

Heels, Rebuilding worn rubber. F. W. Phillips. 2,420,187; May 6.

Hoist, Differential. L. Foote. 2,420,072; May 6.

Hoist mechanism, Truck. E. J. Abbe. 2,419,938; May 6.

Holder: *See*—
Bottle holder. Sack holder.
Cigarette package holder.

Holder for cigar lighters. A. A. Johnson. 2,419,950; May 6.

Hook: *See*—
Bed hook. Signal snap hook.

Hydraulic concentration, Apparatus and method for. W. C. Laughlin. 2,420,180; May 6.

Hydrocarbon conversion starting up procedure, Catalytic. H. Z. Martin. 2,420,049; May 6.

Hydrocarbon, Manufacture of a polycyclic. W. J. Mattox. 2,420,143; May 6.

Hydrocarbon oils, Sweetening. G. W. Ayers. 2,420,218; May 6.

Hydrocarbons at high cracking temperature, Conversion of. J. McAfee. 2,420,145; May 6.

Hydrocarbons, Catalytic dehydrogenation of aliphatic. E. J. Houdry. 2,419,997; May 6.

Ice machine. F. W. Knowles. 2,419,953; May 6.

Illuminator for cover plates. W. C. Linton. 2,420,000; May 6.

Implement, Earth-working. E. W. Austin. 2,420,027; May 6.

Indicator: *See*—
Pressure indicator.

Infant's sleeping cover. F. W. Day. 2,419,989; May 6.

Inflation apparatus for eliminating ice from airfoils. W. H. Hunter. 2,420,137; May 6.

Inflator, Tire. C. V. Bymark. 2,420,224; May 6.

Inking mechanism for printing machines. W. F. Huck. 2,420,080; May 6.

Insulating material containing mica, Electrical. R. L. Griffeth and J. J. Pickney. 2,420,172; May 6.

Internal-combustion engine. R. A. Weatherup. 2,420,117; May 6.

Joint: *See*—
Pipe joint. Swing joint.

Joint for waveguides, Flexible. R. G. Olden. 2,420,007; May 6.

Key guard. J. J. Crist. 2,420,125; May 6.

Laminated optical filter. A. Thomas. 2,420,270; May 6.

Lapel or the like with captive coupon. R. S. Krug. 2,420,045; May 6.

Last. J. Fitzpatrick. 2,420,235; May 6.

Latch: *See*—
Door latch. Locking latch.

Latch. A. Vander Henst. 2,420,114; May 6.

Latch construction, Inside locking. A. F. Lickteig. 2,420,083; May 6.

Lead-in device for manifold of ignition harness. D. Ingalls. 2,420,138; May 6.

Lens and filter structure for copy cameras, Changeable. S. N. Wekeman. 2,420,023; May 6.

Lever-actuated pivoted-jaw wrench. F. A. Snell. 2,420,020; May 6.

Lighter, Catalytic. G. P. Schmitt. 2,419,972; May 6.

Lighting means, Electric. A. F. Pieper. 2,419,965; May 6.

Lighting means, Electric. A. F. Pieper. 2,420,190; May 6.

Link chain spanner wrench. G. M. Graham. 2,420,171; May 6.

Locking and ejecting device. O. Mueller. 2,420,146; May 6.

Locking device. J. G. Wallace. 2,420,272; May 6.

Locking latch. A. Vander Henst. 2,420,13; May 6.

Lowering device. O. W. Lundblad. 2,420,182; May 6.

Lubricant. G. W. Duncan and J. C. Zimmer. 2,420,068; May 6.

Lubricant and making same. J. S. Yule and H. L. Moir. 2,420,280; May 6.

Luggage, Hand-carried. J. Riess. 2,420,150; May 6.

Magneto. C. G. Dols. 2,420,169; May 6.

Mail box. H. Logsdon. 2,420,084; May 6.

Manual control apparatus. R. H. Whempner. 2,420,214; May 6.

Marihuana active compounds. R. Adams. 2,419,935; May 6.

Marihuana active compounds. R. Adams. 2,419,937; May 6.

Mask, Driving. M. J. Zbar. 2,420,281; May 6.

Mirror, Antiglare rear view. H. McNamara. 2,420,259; May 6.

Mold: *See*—
Temperature control mold.

Motor-compressor unit. C. C. Coulson. 2,420,124; May 6.

Motor control system, Induction. H. J. Rathbun. 2,420,192; May 6.

Mounting: *See*—
Electron gun mounting.

Mounting member, Lamp shade. J. W. Solomon. 2,420,208; May 6.

Naphthenic acids, Recovery of. L. M. Henderson and G. W. Ayers. 2,420,244; May 6.

Navigation system. R. B. Roe and J. B. Gray. 2,419,970; May 6.

Necktie. M. M. and V. M. Newman. 2,420,054; May 6.

Nephoscope. W. K. Coburn. 2,420,227; May 6.

Net, Fish landing. M. J. Meek. 2,420,087; May 6.

Nopinene to myrcene, Converting. L. A. Goldblatt and S. Palkin. 2,420,131; May 6.

Oarlock. J. A. Aldrich. 2,420,161; May 6.

Oil composition, Heavy-duty motor. N. D. Williams and W. J. Backoff. 2,420,274; May 6.

Oil well packer. C. R. Claus. 2,420,226; May 6.

Oil well pump. R. R. Renouf and F. E. Mason. 2,420,151; May 6.

Oil well streams, Method of and apparatus for treating. J. P. Walker and C. O. Glasgow. 2,420,115; May 6.

Orienting mechanism for pulse echo systems. G. W. Leck. 2,419,999; May 6.

Packaging machine, Automatic. W. R. Zwoyer. 2,419,982; May 6.

Padding and sound proofing material. H. and I. J. Rumpf. 2,419,971; May 6.

Padding member for garment hangers. E. L. Samann. 2,420,101; May 6.

Paraffins and naphthenes in a mixed feed, Isomerizing. S. H. McAllister and C. C. Crawford. 2,420,086; May 6.

Phase modulation receiver. M. G. Crosby. 2,420,230; May 6.

Phenol-formaldehyde resin in a mixture of solvents, Coating composition comprising. C. H. Hempel and F. J. Ploederl. 2,420,134; May 6.

Photography system. B. H. Wildman. 2,419,978; May 6.

Physiotherapy cabinet. R. E. Lind. 2,420,254; May 6.

Pickoff, Transformer. J. C. Wilson. 2,419,979; May 6.

Pipe joint. F. R. Kelly. 2,420,139; May 6.

Planter, Barrel. H. C. Otte. 2,420,092; May 6.

Plug: *See*—
Drain plug.

Pneumatic control. E. V. Stone. 2,420,269; May 6.

Polarizer and birefringent layers, Laminated. C. J. T. Young. 2,420,279; May 6.

Polymer and carbothiolic acid, Reaction product of a polyethylenically unsaturated. L. M. Richards. 2,420,194; May 6.

Potentiometer elements, Mounting and adjusting. F. Konicek and H. J. Vennes. 2,419,952; May 6.

Pressure and temperature relief valve. C. Smith. 2,420,206; May 6.

Pressure indicator. R. H. Ostergren. 2,420,148; May 6.

Pressure operated switch. H. L. Bowditch. 2,420,282; May 6.

Printer, Photographic. L. W. Lessler. 2,420,141; May 6.

Projection apparatus, Motion-picture. J. A. Links. 2,419,961; May 6.

Protector: *See*—
Chest and shoulder prote

Protractor, Straightedge. P. A. Nelson. 2,420,090; May 6.

Pump: *See*—
Oil well pump.

Pump. A. T. Bremser. 2,420,164; May 6.

Pump adjustor, Fuel. W. J. Chilcott. 2,420,225; May 6.

Pumping mechanism. W. G. Green and J. Callahan. 2,419,993; May 6.

Radio system testing means, Pulse-echo. S. I. Tourshou. 2,420,211; May 6.

Railway tank car. J. W. Burnett. 2,420,121; May 6.

Reactance compensation. G. H. Brown. 2,419,985; May 6.

Recorder, Voltage ratio. T. A. Rich. 2,420,193; May 6.

Rectangular apertures, Machining. J. E. Kline. 2,420,140; May 6.

Release means for parachute harness, Quick. W. H. Fausz. 2,420,037; May 6.

Remote control system. W. P. Place. 2,420,093; May 6.

Repellent composition, Insect. B. V. Travis and H. A. Jones. 2,420,271; May 6.

Resin finishing of textiles. H. J. West. 2,420,157; May 6.

Retarder for electric water heaters, Multicontact bimetallic thermal. C. M. Osterheld. 2,420,189; May 6.

Ring: *See*—
Collector ring. Seal guard ring.
Composite sealing ring. Shaft sealing ring.

Rod: *See*—
Curtain rod.

Roll control mechanism for looms, Cloth. C. R. Kronoff and A. J. Herard, Jr. 2,420,178; May 6.

Roof gutter. A. H. Honikman. 2,419,996; May 6.

Rudder control linkage. R. Stephens, Jr. 2,420,154; May 6.

Sack holder. C. E. Helms. 2,420,243; May 6.

Sadiron, Electric. B. M. Riker. 2,420,195; May 6.

Salts of organic acids, Production of aluminum. L. J. Edwards. 2,420,233; May 6.

Seal guard ring. T. R. Smith. 2,420,104; May 6.

Seal, Self-riveting. O. M. Polkinghorn. 2,420,094; May 6.

Seal, Shaft oil. F. D. Frisby and M. W. Marien. 2,420,040; May 6.

Sealing compound applying apparatus. F. Kastel. 2,419,951; May 6.

Seat back construction. W. F. Bartlett and M. J. Grzenia. 2,420,220; May 6.

Self-synchronous system for transmitting angular motion. A. P. Adamson. 2,420,160; May 6.

Shackle. N. J. MacKenzie. 2,420,256; May 6.

Shaft sealing ring. F. D. Frisby. 2,420,039; May 6.

Sheet material, Method and apparatus for bending. R. M. Boehm and A. A. Ladon. 2,420,119; May 6.

Shelf structure. R. M. Hall. 2,420,173; May 6.

Shoe, Convalescent. N. Hack. 2,420,239; May 6.

Shoe last. G. Clausing. 2,419,944; May 6.

Shoulder mark. S. Mars. 2,420,257; May 6.

Shutter for gas burners, Air. P. S. Harper. 2,419,995; May 6.

Shuttle and bobbin for looms. W. L. Williamson. 2,420,216; May 6.

Sight for guns, cameras or the like, including polarizers and a biaxial birefringent, Achromatic. C. D. West. 2,420,273; May 6.

Sight for guns, cameras or the like, including polarizers and a biaxial birefringent element, Optical interference. E. H. Land. 2,420,253; May 6.

Sight for guns, cameras or the like, Optical interference. E. H. Land. 2,420,252; May 6.

Signal snap hook. G. E. Foreman. 2,419,947; May 6.

Signaling system. H. B. Deal. 2,420,232; May 6.

Silica from iron ore, Froth flotation of. J. B. Clemmer and M. F. Williams, Jr. 2,419,945; May 6.

Six cycle engine. R. H. Hill. 2,420,136; May 6.

Skeleton mast having legs circular in cross section. H. J. Woolslayer, E. A. Campbell, and C. Jenkins. 2,420,059; May 6.

Sleeve restrainer, Shirt. W. C. Baker. 2,420,162; May 6.

Solvent-extracted petroleum distillate with clay and lime, Treating a. R. K. Stratford and O. S. Pokorny. 2,420,108; May 6.

Sound reproduction, Method of and system for enhancing. C. M. Sinnett. 2,420,204; May 6.

Spectrochemical analysis apparatus, Direct reading. M. F. Hasler and R. W. Lindhurst. 2,420,077; May 6.

Speed and contrast of photographic emulsions, Increasing. A. P. H. Trivelli and W. F. Smith. 2,419,975; May 6.

Stabilizing the control of a frequency modulated ultrashort wave. H. F. Rost, K. H. Thunell, S. D. Vigren, and P. H. E. Claesson. 2,420,264; May 6.

Starter for internal-combustion engines. D. L. Miller. 2,420,289; May 6.

Starting mechanism. J. E. Buxton and D. L. Miller. 2,420,283; May 6.

Sugars by mixed yeasts, Fermenting. D. A. Legg. 2,419,960; May 6.

Sulfides, Separation of copper and nickel. W. K. Sproule and G. A. Harcourt. 2,419,973; May 6.

Sulfur-containing polymers, Preparation of. W. J. Burke. 2,419,943; May 6.

Superheterodyne receiver, Wide-band. W. P. Boothroyd. 2,419,984; May 6.

Support: *See*—
Track support.

Support. J. K. Wood. 2,420,276; May 6.

Support for expansible members. F. O. Hennig. 2,420,135; May 6.

Support for rifles and other shoulder firearms. H. H. Sefried, II. 2,420,267; May 6.

Surgical instrument. R. A. Mull. 2,420,004; May 6.

Suspension means. J. I. Robin. 2,420,196; May 6.

Swab or cleaner, Gun. J. A. Jowett. 2,420,044; May 6.

Swing joint. F. G. D. Muller. 2,420,053; May 6.

Switch: *See*—
Electrical switch. Pressure operated switch.
Flow actuated switch.

Syringe extension. E. L. Shuford. 2,420,102; May 6.

System for supervising the taking of moving pictures. A. H. Rosenthal. 2,420,197; May 6.

Tab for guide cards. C. W. Straubel and J. S. Holbrook. 2,420,021; May 6.

Table: *See*—
Wall table.

Talisman container. M. Schick. 2,420,265; May 6.

Telephone dial attachment. E. C. Farnham. 2,420,070; May 6.
Temperature control mold. R. J. Miller. 2,420,003; May 6.
Temperature control unit. W. Worth. 2,419,980; May 6.
Test instrument for the ocular muscles, Ophthalmic. O. A. Putnam. 2,420,012; May 6.
Testing device. E. R. Sanders. 2,420,055; May 6.
Testing machine, Tension. W. H. Setz. 2,420,202; May 6.
Tetraacylribonyl-xylidine. M. Tishler. 2,420,210; May 6.
Tetrahydrodibenzopyrans having marihuana activity and making same, Optically active. R. Adams. 2,419,934; May 6.
Thermally responsive device. F. R. Higley. 2,420,078; May 6.
Thread controlled signal for sewing machines, Bobbin. R. W. Winberg. 2,420,275; May 6.
Throttle control mechanism. L. D. Thostenson. 2,420,111; May 6.
Timing device. P. O. Shrack. 2,420,019; May 6.
Toaster, Automatic electric. B. G. Olving. 2,420,188; May 6.
Tool: *See*—
  Corner finishing tool.
Tool carriage control, Grinding machine. G. Erikson and E. C. Filstrup. 2,420,170; May 6.
Torpedo control valve. J. H. Hammond, Jr. 2,420,241; May 6.
Toy. S. L. Long. 2,420,181; May 6.
Toy, Hare and tortoise. O. A. Dishmaker. 2,419,990; May 6.
Toy machine gun. R. R. Goodwin and G. M. Dasher. 2,420,076; May 6.
Toy, Sounding. A. T. Linney. 2,420,287; May 6.
Track for track-laying vehicles. E. J. Hardig. 2,420,133; May 6.
Track support. H. A. Knox. 2,419,955; May 6.
Training device. H. A. Marsh. 2,420,048; May 6.
Transmission and reception system, Printing telegraph. J. B. Brady. 2,420,029; May 6.
Transmission, Vehicle speed governed belt. E. F. Salisbury. 2,420,100; May 6.
Traversing mechanism for grinding machines. R. A. Johnson. 2,420,081; May 6.
Tray downcomer, Bubble. H. C. Glitsch. 2,420,075; May 6.
Trial frame. C. A. Ellis. 2,420,032; May 6.
Truck, Car. R. B. Cottrell. 2,420,229; May 6.
Tube: *See*—
  Duplex welding tube.
Tube w th inclined target, Cathode-ray. G. R. Kilgore. 2,420,176; May 6.
Tuners for multiband radio receivers, Push button. B. Roberts. 2,419,968; May 6.
Turbine type hydraulic coupling. G. C. Fields. 2,420,071; May 6.
Undergarment. W. Murphey. 2,420,089; May 6.
Unloader mechanism, Compressor. W. H. Wineman. 2,420,159; May 6.
Valve: *See*—
  Pressure and temperature relief valve.
  Torpedo control valve.
Valve. A. Seligmann and K. W. Schartel. 2,420,056; May 6.
Valve guide, Adjustable. J. K. McDermott. 2,420,183; May 6.
Vessel, Lined. F. A. Ferguson. 2,420,038; May 6.
Vibration recorder. W. W. Young. 2,420,025; May 6.
Vehicle: *See*—
  Gun-carrying vehicle.
Vinyl aromatic material, Cutting polymerized. T. S. Carswell. 2,420,284; May 6.
Vision test, Binocular. A. Ames, Jr. 2,419,939; May 6.
Wall table. R. P. Jensen. 2,420,041; May 6.
Washer: *See*—
  Fruit jar washer.
Wave navigation device, Reflected. R. C. Sanders, Jr. 2,420,016–17; May 6.
Winding means for spring-actuated clocks, Electrically operated. P. W. Rosenfeld. 2,420,097; May 6.
Wing structure, Rotary. W. E. Hunt. 2,420,174; May 6.
Wiring system for outdoor auto theatres. R. W. Smith. 2,410,103; May 6.
Work clamp. R. F. Clutter. 2,420,165; May 6.

CLASSIFICATION OF PATENTS

ISSUED MAY 6, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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D45—19: Des. 146,751
Des. 146,752
Des. 146,753
D45—19: Des. 146,754
D49— 6: Des. 146,748
D81—19: Des. 146,749
D86—10: Des. 146,755
D87— 3: Des. 146,739
D92— 1: Des. 146,745
Des. 146,746
D93— 4: Des. 146,737

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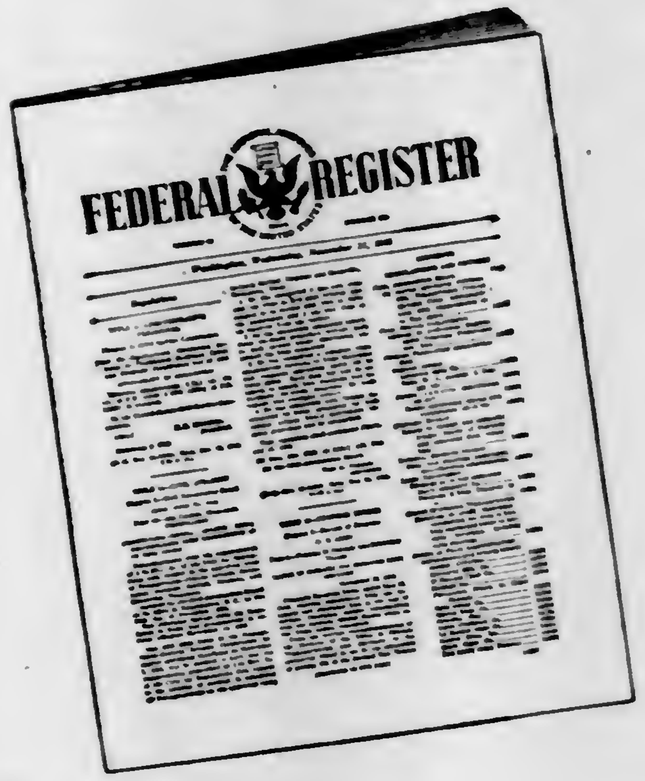

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DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE EAGAN ET AL.

No. 5,212. Decided January 7, 1947. Petition for rehearing denied February 27, 1947

[159 F.(2d) 452; 72 USPQ 442]

PRACTICE—STATEMENT OF FACT.

Where the question involved is one of fact, it "must be determined from the record and not from mere arguments by counsel for appellants."

SAME—SAME.

"This court need not accept factual statements in the decisions of the tribunals of the Patent Office which are contrary to facts of which this court may take judicial notice."

SAME—SAME—RULE 66.

Had counsel for appellants desired to question the accuracy of a statement of fact made by the Primary Examiner, "they might have done so either by requiring the Primary Examiner to substantiate his statement by the filing of an affidavit in accordance with rule 66 of the Rules of Practice of the United States Patent Office, or they might have presented evidence to establish that the Examiner's statement was erroneous."

APPLICATION—DISCLOSURE—DEFINITION OF TERMS.

When it is evident that at the time appellants filed their application they had no intention of limiting the term "rubber" to such as was crude, soft, tough, resilient or elastic, that term in the claims should be given the broadest interpretation which the language will reasonably permit, and a more limited definition may not be read into the term in order to avoid the prior art.

SAME—SAME—SAME.

Where there is an express statement in appellant's application that the colloidal material may be either "soluble" or "swellable" in the polar organic liquid, the terms being used as equivalents, *Held* that it is evident that appellants were of the opinion at the time they filed their application that there was no patentable distinction between these terms.

PATENTABILITY—COMPOSITION—MET BY INTERMEDIATE PRODUCT OF THE ART.

Certain claims for a dispersion of rubber in a polar organic liquid *Held* unpatentable over a reference disclosing such a dispersion as an intermediate product.

APPEAL from the Patent Office. Affirmed.

Mr. George P. Dike (*Mr. Cedric W. Porter* of counsel) for Egan et al.

Mr. W. W. Cochran for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims 16, 17, and 19 to 22, inclusive, in appellants' application for a patent for an invention relating to dispersions of rubber in polar organic liquids.

Claims 11 and 18 in appellants' application were allowed by the Primary Examiner.

Claims 16, 19, and 22 are illustrative of the appealed claims. They read:

> 16. A polar organic liquid dispersion of rubber and a protective colloid which is swellable in the polar organic liquid and insoluble in water said liquid being a non-solvent for rubber.
>
> 19. A polar organic liquid dispersion of rubber and a protective colloid which is swellable in the polar organic liquid and is insoluble in water said liquid being a non-solvent for rubber, sufficient liquid being present to form a continuous phase.
>
> 22. A container closure, the sealing element of which comprises the dried residue of a polar organic liquid dispersion of crude rubber and a protective colloid which is swellable in the polar organic liquid and is insoluble in water said liquid being a non-solvent for rubber.

The references relied upon are: Plauson, 1,392,849, October 4, 1921; Hazell, 1,916,421, July 4, 1933.

It will be observed from quoted claim 19 that appellants' composition is a liquid dispersion of rubber in a polar organic liquid which is a non-solvent for rubber, the liquid being present in sufficient quantity to "form a continuous phase." A protective colloid which is insoluble in water and swellable in the polar organic liquid is also present in the composition.

Claim 16 is broader than claim 19 in that it does not call for a sufficient amount of a polar organic liquid to form a continuous phase, as does claim 19.

Claim 17 specifies that the polar organic liquid is an alcohol.

Claims 20 and 21 call for a container sealing composition composed of the composition defined by claim 16.

Quoted claim 22 calls for a container sealing element which comprises the dried residue of the composition defined by claim 16, except that instead of the broad term "rubber," it calls for an "organic liquid dispersion of *crude* rubber." [Italics ours.]

Appellants state in their application that the lower alcohols, ketones and certain acids may be used as the polar organic liquids which are non-solvents for rubber. They also state that the protective colloid materials which are swellable in the polar organic liquids and insoluble in water are:

> Any colloidal materials which *swell or are soluble* in the polar liquids *may be used as the swellable colloidal material to be associated with the rubber in accordance with this invention.* The cellulose esters, the prolamines, certain gums such as Loba gum, and the polymerized vinyl acetate and polyvinyl acetal resins are good examples of such colloidal materials, but persons skilled in the art will recognize that these are merely representative of a *large class of materials which have a tendency to swell or dissolve in the polar organic solvents.* [Italics ours.]

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In the examples set forth in appellants' application it is stated that the rubber used is "* * * unmilled smoked sheet rubber * * *." It is further stated therein, however, that "By the term 'rubber' in the specification and in the appended claims, we intend to include all rubber-like materials, either natural or synthetic."

The appealed claims were rejected by the tribunals of the Patent Office "for lack of patentable invention over either of the patents to Plauson or Hazell."

The patent to Plauson relates to "Improvements in the Manufacture of Dispersoids [dispersed substances], Colloid Powder and Mases Therefrom."

The patentee states in Example 1 that:

> 1 part of *neutral soap* is dissolved in 100 parts of 96% alcohol and then 5 to 10 parts of previously coarsely comminuted gelatin is added. This mixture is disintegrated at very high speed for from 2 to 5 hours in a mill provided with beaters having a liquid-tight stuffing box about its axis. Continuous treatment is then obtained by using a colloid mill or by providing a pump to circulate the alcohol-gelatin mixture through the disintegrator to a suitable reservoir and back again to the disintegrator.
>
> In the course of time an excessively fine dispersion of gelatin in alcohol is obtained. * * * [Italics ours.]

The patentee also states that instead of gelatin which is used in his Example 1, "* * * other solid colloids can be employed under the same conditions, e. g. glue, agar-agar, tragacanth, gum, starch, dextrin, carrageen moss, casein, albumen, yeast, phenol condensation products, *hard rubber* and the like * * *." [Italics ours.]

The patentee further states, in substance, that after the desired degree of dispersion of rubber is secure, a homogeneous powder may be obtained by removing the "excess of alcohol * * * by centrifugalization" and the powder thus obtained by his process may be used as an "adhesive" and for other purposes.

It will be observed that the patent to Plauson discloses, among other things, a dispersion of hard rubber in a polar organic liquid—alcohol—and a neutral soap which accelerates the dispersion of the hard rubber. The patentee obtains an exceedingly fine dispersion of hard rubber in alcohol in the intermediate stage of his process. It is that disclosure in the patent which the tribunals of the Patent Office relied on in rejecting the appealed claims. Owing to the fact that the patentee obtained in the intermediate stage of his process an exceedingly fine dispersion of hard rubber in alcohol, there would seem to be sufficient liquid present "to form a continuous phase," as called for by appealed claim 19.

It is argued by counsel for appellant that the Plauson patent taught how to make a powdered dispersion of hard rubber which is known as "ebonite" or "vulcanite"; that hard rubber is both physically and chemically different from the kind of rubber referred to in appellants' application which, it is argued, is "soft, tough, resilient, elastic rubber," such as "crude rubber"; and that the soap referred to in Example 1 of the Plauson patent is not a colloid, "swellable" in the polar organic liquid and insoluble in water. Counsel for appellants concede, however, that the term "rubber" as they state in their brief "* * * has at least three technical meanings, viz., crude rubber, soft vulcanized rubber, and hard rubber which is ebonite. As in every problem of semantics, the context must be resorted to for the true meaning of the word. In the Plauson patent, the context shows that it means a hard, rigid substance composed of rubber and sulphur while applicants' specification shows that elastic non-rigid rubber was intended." It is further argued by counsel for appellants that the term "rubber" in the appealed claims should be read in the light of appellants' specification and should be interpretated to mean "soft, tough, resilient, elastic rubber—for instance, crude rubber, just as Plauson intended hard rubber."

It is true, as argued by counsel for appellants, that hard rubber is known as "ebonite" or "vulcanite" and that it is physically and chemically different from crude rubber. It is also true, however, as stated in the quoted excerpts from the brief of counsel for appellants, that the term "rubber" includes hard rubber as well as crude and soft vulcanized rubber.

It has uniformly been held that in determining the patentability of claims in an application for a patent, the claims should be given the broadest interpretation which the language therein will reasonably permit and that limitations may not be read into them in order to avoid the prior art. *In re Carr*, 54 App. D. C. 270, 296 Fed. 1017, 324 O. G. 3; *In re Ora Krichbaum*, 17 C. C. P. A. (Patents) 979, 39 F.(2d) 280, 5 USPQ 300, 396 O. G. 705; *In re Irving L. Stern*, 17 C. C. P. A. (Patents) 1234, 40 F.(2d) 1000, 5 USPQ 441, 401 O. G. 235; *In re Buckwalter*, 22 C. C. P. A. (Patents) 1031, 75 F.(2d) 515, 24 USPQ 417, 457 O. G. 480; *In re Wait*, 23 C. C. P. A. (Patents) 1172, 83 F.(2d) 696, 29 USPQ 527, 471 O. G. 709; *In re Crowell*, 23 C. C. P. A. (Patents) 1246, 84 F.(2d) 206, 30 USPQ 28, 472 O. G. 737; *In re Hoover*, 26 C. C. P. A. (Patents) 1138, 102 F.(2d) 849, 41 USPQ 306, 506 O. G. 286; *In re Newton et al.* 27 C. C. P. A. (Patents) 914, 110 F.(2d) 110, 44 USPQ 458, 517 O. G. 283.

Furthermore, as appears from the quoted excerpt from appellants' application, the term "rubber" was intended to cover "all rubber-like materials, either natural or synthetic." Accordingly, it is evident that at the time appellants filed their application they had no intention of limiting the term "rubber" to such as was crude, soft, tough, resilient or elastic.

We are of opinion that the term "rubber," as called for by appealed claims 16, 17, 19, 20, and 21, is sufficiently broad to include "hard rubber" disclosed in the patent to Plauson.

In his rejection of the appealed claims on the patent to Plauson, the Primary Examiner stated, among other things, in his statement to the Board of Appeals, that "Neutral soaps swell but do not dissolve in water."

It is contended by counsel for appellants that the Examiner was in error in stating that neutral soaps are insoluble in water; that, on the contrary, such

soaps are soluble in water and that, therefore, as the appealed claims call for a protective colloid which is insoluble in water, the patent to Plauson is not a proper reference for the rejection of the appealed claims. In that connection it is sufficient to say that had counsel for appellants desired to question the accuracy of the Primary Examiner's statement in that regard, they might have done so either by requiring the Primary Examiner to substantiate his statement by the filing of an affidavit in accordance with rule 66 of the Rules of Practice in the United States Patent Office, or they might have presented evidence to establish that the Examiner's statement was erroneous and that neutral soaps are soluble in water. Counsel for appellants did neither. On the contrary, they here rely upon arguments in their briefs, without the citation of any authority in support thereof, that all neutral soaps are soluble in water.

The question involved is one of fact which must be determined from the record and not from mere arguments by counsel for appellants. See *In re Burns*, 23 C. C. P. A. (Patents) 1091, 83 F.(2d) 292, 29 USPQ 423, 471 O. G. 246, and *In re Lewis*, 25 C. C. P. A. (Patents) 1273, 96 F.(2d) 1009, 37 USPQ 786, 497 O. G. 18.

It is true, of course, that this court need not accept factual statements in the decisions of the tribunals of the Patent Office which are contrary to facts of which this court may take judicial notice. Some so-called "neutral soaps" are soluble in water. See Modern Soaps Candles and Glycerine by Lamborn, p. 21, et seq. We are unable to hold, however, that all so-called "neutral soaps" are soluble in water.

Whether the neutral soap which the patentee Plauson states is soluble in alcohol is also soluble in water, does not appear from the record and we are unable to hold that it is.

Counsel for appellants further argue that as the patentee Plauson states in his Example 1, hereinbefore quoted, that neutral soap is dissolved in alcohol—a polar organic liquid—such neutral soap is not swellable in a polar organic liquid, as called for by the appealed claims, and that the tribunals of the Patent Office failed to distinguish between a colloid which is *swellable* in such liquid and one which is *soluble* therein. The difficulty with that argument by counsel for appellants is that it appears from the quoted excerpt from appellants' application that the terms "swell" and "soluble" are used as equivalents, that is, that colloidal materials, as stated in substance in their application, "*which swell or are soluble*" in the polar organic liquid may be used "*in accordance with this invention.*" [Italics ours.]

In view of the expressed statement in appellants' application that the colloidal material may be either soluble or swellable in the polar organic liquid, it is evident that appellants were of opinion at the time they filed their application that there was no patentable distinction between colloidal materials which were either swellable or soluble in a polar organic liquid.

As hereinbefore noted, claim 22 differs from the other appealed claims in that it calls for crude rubber.

Obviously, if claims 16, 17, and 19 to 21, inclusive, which call broadly for rubber are not patentable over the disclosure in the Plauson patent, claim 22 which calls for "crude rubber" is not patentable in view of the hereinbefore quoted statement in the brief of counsel for appellants that the term "rubber" has "at least three technical meanings, viz., crude rubber, soft vulcanized rubber, and hard rubber"; that is to say, there is no patentable distinction, so far as concerns the appealed claims, between the terms "crude rubber" and "rubber."

We are unable for the reasons hereinbefore stated, to hold that the tribunals of the Patent Office erred in rejecting the appealed claims in view of the disclosure in the patent to Plauson.

The appealed claims were also rejected by the tribunals of the Patent Office on an intermediate product disclosed in the patent to Hazell.

The patent to Hazell relates to the production of a rubber cement. The patentee states that it is well known that organic liquids which dissolve rubber become viscous when even small amounts of rubber are dissolved in them. To overcome that difficulty he adds to crude rubber "desolvating" agents which are non-solvents of rubber but are soluble in rubber solvents. The patentee discloses ethyl alcohol, denatured alcohol, and acetone as desolvating agents and states that they lessen the swelling of the rubber when it is placed in the solvent, thus reducing the viscosity of the mixture. To expedite the mixture of the rubber in alcohol, the patentee adds a small amount of soap such as "zinc or lead oleate or laurate, triethanolamine oleate or their equivalents." The rubber, soap and alcohol are mixed to produce a dough, the alcohol forming only about eight percent of the total mixture. Thereafter, the dough is dispersed in "naphtha," a rubber solvent, to form the final product.

Each of the appealed claims calls for a liquid dispersion of rubber, that is, the rubber is dispersed in the liquid. In rejecting the claims on the disclosure in the patent to Hazell, the Examiner and the Board held that the rubber-soap-alcohol mixture disclosed in the patent is a liquid dispersion. We are unable to agree with that holding. The liquid (alcohol) is present in such a small amount in Hazell's rubber-soap-alcohol mixture, the intermediate product, that it is in the form of "dough" or a "putty-like mass." Accordingly, the patentee's intermediate product is a dispersion of alcohol in rubber, and hence, not a liquid dispersion of rubber in alcohol, as called for by the appealed claims.

The Examiner suggested that the patentee might use a larger quantity of alcohol in order to obtain a liquid dispersion of rubber in alcohol. However, the idea of using enough alcohol to form such a liquid dispersion is neither disclosed nor suggested by the patentee. Furthermore, his final product is a mixture in which rubber and a rubber solvent (naphtha) are the principal ingredients. It is evident, therefore, that both the intermediate and final products disclosed by the patentee differ materially, and we think patentably, from the product called for by the appealed claims.

We conclude, therefore, that the tribunals of the Patent Office were wrong in rejecting the appealed claims on the disclosure in the patent to Hazell. We are unable to hold, however, for the reasons hereinbefore stated, that the tribunals of the Patent Office erred in rejecting the appealed claims on the disclosure in the patent to Plauson. Accordingly, the decision of the Board of Appeals is affirmed.

Affirmed.

PATENT SUITS

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,751,464, W. A. Beck, Method of manufacturing leather, filed Feb. 27, 1947, D. C. Mass., Doc. 6536, *W. L. Barie v. A. C. Lawrence Leather Co.*

1,800,803. (See Re. 20,818.)

1,903,659, R. J. Smith, Machine and method for applying fastener elements; 2,026,413, Binns & Debart, Method and machine for making flexible closures; 2,078,016, N. J. Poux. Method of forming interlocking members for separable fasteners; 2,078,017, 2,169,176, same, Method of making separable fasteners, filed Mar. 10, 1947, D. C., S. D. N. Y., Doc. 40/557, *Talon, Inc., v. M. Lange et al.*

2,026,413. (See 1,903,659.) 2,078,016. (See 1,903,659.)

2,078,017. (See 1,903,659.)

2,096,289, D. M. Palmer, Machine drive arrangement, filed Mar. 28, 1947, D. C., N. D. Ohio, E. Div., Doc. 24843, *D. M. Palmer et al. v. Standard Oil Co.*

2,143,965. (See 2,200,311.)

2,156,073. (See Re. 21,117.)

2,159,832. (See Re. 20,818.)

2,159,833. (See Re. 20,818.)

2,169,176. (See 1,903,659.) 2,200,252. (See 2,200,311.)

2,200,311, 2,200,312, H. E. Van Voorhees, Hinge; 2,229,615, same, Lid support; 2,272,230, same, Counterbalanced lid support; 2,329,232, 2,143,965, same, Automobile door latch mechanism; 2,200,441, 2,200,252, 2,200,439, S. B. Atwood, Hinge; 2,200,317, Wintercorn & McCanna, same, filed Mar. 27, 1947. D. C., N. D. Ill., W. Div., Doc. 47c6, *H. E. Van Voorhees v. The Atwood Vacuum Machine Co. et al.*

2,200,312. (See 2,200,311.) 2,200,317. (See 2,200,311.)

2,200,439. (See 2,200,311.) 2,200,441. (See 2,200,311.)

2,222,196, B. Vilkomerson, Radio receiving system; filed Oct. 24, 1946, D. C. Mass., Doc. 6095, *Housman & Housman v. De Mambro Distributors, Inc., et al.*

2,229,615. (See 2,200,311.)

2,256,212, A. R. Morrison, Inhalator, filed Mar. 21, 1947, D. C. Ariz. (Tucson), Doc. 410, *T. A. Harrigan et al. v. L. P. Dickey.*

2,267,967, K. C. Augenstein, Extensible linkage, filed Mar. 2, 1947, D. C. R. I., Doc. 780, *Speidel Corp. v. French Jewelry Co.*

2,272,230. (See 2,200,311.) 2,329,232. (See 2,200,311.)

2,348,602, J. B. Calva, Process of treating filameptous material, filed (notice Mar. 31, 1947), D. C. N. J. (Camden), Doc. 9929, *Calva Fur Patents Corp. et al. v. Workman & Co., Inc.*

Re. 20,033, F. W. Hudson, Soft-rubber plug and socket body, D. C. N. J. (Newark), Doc. 8648, *G. D. Hudson v. Cords, Ltd.* Consent judgment in favor of plaintiff; claims 1 to 5 and 9 to 17 inclusive, held valid and infringed Mar. 24, 1947.

Re. 20,818, P. H. Smyth, Jr., Selective phonographic playing machine; 2,159,832, 2,159,833, same, Phonograph; 1,800,803, W. R. Moore, Jr., Automatic talking machine, D. C., N. D. Ill., E. Div., Doc. 46c1503, *Rock-Ola Mfg. Corp. v. Batavia Metal Products Co. et al.* Consent judgment; injunction Mar. 26, 1947.

Re. 21,117, A. R. Visitacion, Hair curler; 2,156,073, Wallace & Leisy, Hair curling device, D. C., S. D. N. Y., Doc. 5/320, *Monogram Mfg. Co. v. Glemby Co., Inc., et al.* Decree holding claims 11, 12, 13, and 15 of Re. 21,117 valid, and patent 2,156,073 invalid, injunction (notice Mar. 27, 1947).

Re. 21,960, C. R. Stough, Vehicle wheel, D. C., E. D. Mich., S. Div., Doc. 5771, *Electric Wheel Co. v. Motor Wheel Corp.* Consent decree of dismissal (notice Mar. 25, 1947).

Des. 144,015, A. Walter, Embroidered fabric, D. C., S. D. N. Y., Doc. 36/275, *Anton Walter & Co. v. Lurumac Novelty Fabrics, Inc., et al.* Decree for plaintiff, sustaining patent, adjudging infringement and granting injunction (notice Mar. 26, 1947).

Des. 146,058, W. B. Ligorner, Mirror, D. C., S. D. N. Y., Doc. 40/206, *W. B. Ligorner v. Abiplast Corp.* Stipulation and judgment for injunction (notice Apr. 1, 1947).

TRADE-MARK REGISTRATIONS CANCELED

100,781. Crackers, Biscuits, Cookies and Cakes. Dubuque Biscuit Company, Dubuque, Iowa. Registered Oct. 27, 1914. Canceled Apr. 14, 1947.

407,269. Shoes. Gale Shoe Mfg. Co., Boston, Mass. Registered May 23, 1944. Canceled Mar. 31, 1947.

422,391. Handbags and Purses. H. A. Adams & Co., Inc., New York, N. Y. Registered July 16, 1946. Canceled Apr. 14, 1947.

422,392. Handbags, Purses, and Key Cases. H. A. Adams & Co., Inc., New York, N. Y. Registered July 16, 1946. Canceled Apr. 14, 1947.

424,065. Cosmetics. Irving F. Sternman, New York, N. Y. Registered Sept. 17, 1946. Canceled Apr. 7, 1947.

425,176. Perfume base used as a constituent in the manufacture of perfumes. S. B. Penick & Company, New York, N. Y. Registered Nov. 5, 1946. Canceled Apr. 8, 1947.

NOTICES

Public Law 690

Agreement by France

U. S. Patent Office, *Washington 25, Apr. 15, 1947.*

The French Government has concluded an agreement whereby it will grant rights reciprocal to sections 1 and 3 of Public Law 690 to citizens of the United States. The agreement, a copy of which follows, will come into force as stated therein.

LESLIE FRAZER,
First Assistant Commissioner.

AGREEMENT BETWEEN THE UNITED STATES OF AMERICA AND FRANCE CONCERNING THE RESTORATION OF CERTAIN INDUSTRIAL PROPERTY RIGHTS AFFECTED BY WORLD WAR II

The Government of the United States of America and the Government of the French Republic,

Being desirous of remedying the effects on industrial property rights of their nationals resulting from World War II by concluding an agreement for extending the rights of priority in patent matters and the times for taking action with respect to patents and patent applications, and related matters,

Have agreed as follows:

Article I

The periods of priority provided by Article 4 of the Convention of Union of Paris for the Protection of Industrial Property, last revised at London on June 2, 1934, and by the laws of the respective countries in accordance therewith, for the filing of applications for patents or designs and models, which had not expired on September 8, 1939, and those which have arisen since that date, are extended by each of the countries, in favor of the nationals of the other country, until August 7, 1947.

Documents required for support of a claim of priority may be filed before the expiration of six months from the date of filing of the application.

Patents already issued without a claim for priority shall benefit from the provisions of the first paragraph of this article on the condition that the request for priority and the required documents be filed by August 7, 1947.

Article II

Applications for patents or designs and models in one of the countries by nationals of the other country, considered as abandoned or forfeited since September 8, 1939, are restored, and the time for the payment of any fee, or the taking of any action or the accomplishment of any formality prescribed by the laws of each country with respect to applications for patents or designs and models which had not expired on September 8, 1939, or which arose after that date, is extended to August 7, 1947, without additional tax.

Article III

Patents or designs and models obtained pursuant to the present agreement shall not affect the right of third parties, or their agents or successors in business, who, before August 8, 1946, or before the date of the restoration of an application under Article II, have in good faith begun the working of an invention, design, or model, to continue such working, or the right of those bona fide in possession of patents and applications for patents, designs, or models, or their agents or licensees before August 8, 1946, to use the inventions covered by such patents or applications for patents or designs and models.

Article IV

The duration of patents obtained pursuant to the present agreement by nationals of each of the two countries shall not exceed twenty years from the day of the first application filed. The dates on which annual taxes are due under the laws of France shall remain unchanged.

Nothing in the present agreement shall be construed to extend the time for filing requests for extensions of the duration of patents authorized by the French law concerning exceptional extension of the duration of patents on account of the war.

Article V

Nationals of the United States of America may pay up to August 7, 1947:

1. those annual taxes for patents which could have been paid on September 8, 1939, accompanied by any additional delay fee due on that date, and
2. the annual taxes due since September 8, 1939, without any additional delay fees, and in such cases the payments will be considered as having been made in time.

Article VI

The period between September 8, 1939, and the date of the coming into force of the present agreement shall not be taken into account in the term provided for the working of a patent.

Article VII

In no case shall the present agreement invalidate a judicial decision regarding the validity of a patent rendered prior to the date of the coming into force of the present agreement.

Article VIII

Trade-mark registrations in one of the countries, of the nationals of the other country, which have expired since September 8, 1939, may be renewed before June 30, 1948, and such renewals shall have retroactive effect to the date of the expiration of the normal term of the expired registrations.

Article IX

The rights granted by the present agreement to nationals of the United States of America shall also be granted to French nationals residing in the United States of America.

Each Government shall deliver to the other Government a notice that it has accepted the present agreement in accordance with its law and has taken all steps necessary to enable it to carry out all its obligations under the present agreement.

The present agreement shall come into force on the day the said notices are delivered by each Government to the other. If the said notices are delivered on different days, the agreement shall come into force on the day of the delivery of the notice later in time.

Done in duplicate, at Washington, in the English and French languages, each equally authentic, on April 4, 1947.

Annex

It is understood that the application to nationals of France of the provisions of sections 1, 3, 4, 10, and 15 of the law of the United States of America approved August 8, 1946, Public Law 690, 79th Congress, relating to patents and designs, shall be considered as complying with the requirements of the present agreement.

It is further understood that the application to nationals of France of the law of the United States of America approved July 17, 1946, Public Law 517, 79th Congress, relating to extension of time for applying for renewal of trade-mark registrations, shall be considered as complying with the requirements of Article VIII of the present agreement.

Adjudicated Patents

(C. C. A. Mass.) Doble patent, No. 1,945,263, for apparatus for testing insulating values, claim 15 *Held* valid and infringed. *Leeds & Northrup Co. v. Doble Engineering Co.*, 159 F.(2d) 644; 72 USPQ 154.

(C. C. A. Ill.) Drew patent, No. 2,177,627, for adhesive sheeting, claims 1 to 8, 10, 11, 15, and 16 *Held* valid and infringed. *Minnesota Mining and Mfg. Co. v. International Plastic Corp.*, 159 F.(2d) 554; 72 USPQ 97.

(C. C. A. N. Y.) Myerson patent, No. 2,202,713, for an artificial tooth, claims 8 and 9 *Held* invalid. *Myerson v. Dentists' Supply Co. of N. Y.*, 159 F.(2d) 681; 72 USPQ 337.

(C. C. A. N. J.) Ferris patent, No. 2,265,637, for high frequency measuring apparatus and method, *Held* invalid. *Measurements Corp. v. Ferris Instrument Corp.*, 159 F.(2d) 590; 72 USPQ. 459.

(C. C. A. N. Y.) Myerson reissue patent, No. 22,331, for an artificial tooth, claims 1, 2, 3, 5, 6, 9, and 10 *Held* invalid. *Myerson v. Dentists' Supply Co. of N. Y.*, 159 F.(2d) 681; 72 USPQ 337.

Disclaimers

2,145,577.—*Jean A. H. Barkeij*, Altadena, Calif. COMBUSTION CHAMBER IN CYLINDER HEADS OF INTERNAL COMBUSTION ENGINES. Patent dated January 31, 1939. Disclaimer filed March 17, 1947, by the inventor.

Hereby enters disclaimer whereby the scope of the disclaimed fourth and fifth object and claim 4 is emphatically applied on, i. e., eliminated from the entire specification, i. e., drawings, description and claims.

Therefore the "simultaneous firing" has been already eliminated from the explanatory or descriptive matter in lines 48 to 52, column 1, page 2, by the first disclaimer and the word "about" in line 51 thereof, is disclaimed.

Therefore he disclaimed already by the first disclaimer from the scope of claim 3 any device in which also the second spark plug is also closer to the edge of the exhaust than to the edge of the inlet valve.

The condenser in Fig. 1*a* is disclaimed.

2,375,007.—*Robert G. Larsen*, Albany, and *Hyman Diamond*, Berkeley, Calif. ANTIFOAMING COMPOSITION. Patent dated May 1, 1945. Disclaimer filed Apr. 7, 1947, by the assignee, *Shell Development Company*.

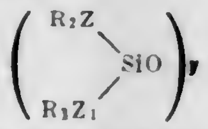
Hereby enters this disclaimer to claims 8, 9, 11, 12, and 13 of said patent;

And further disclaims from claim 1 any composition of matter which does not contain a polymerized dihydrocarbon silicate as an active defoaming compound, except where the organic liquid referred to in said claim is an aqueous solution of an organic substance;

From claims 3, 5, 6, and 7 any composition of matter which does not contain a polymerized dihydrocarbon silicate as an active defoaming compound;

From claims 14, 15, 16, 17, 18, 19, and 20 any motor oil which does not contain a polymerized dihydrocarbon silicate as an active defoamer;

And from claim 2 any composition of matter which does not contain an active defoaming compound corresponding to the formula



wherein R_2, R_3, Z, Z_1 and *y* are as defined in said claim.

2,413,049.—*James Franklin Hyde*, Corning, N. Y. METHYL SILICON HALIDES AND THEIR PRODUCTION. Patent dated Dec. 24, 1946. Disclaimer filed Apr. 8, 1947, by the assignee, *Corning Glass Works*.

Hereby enters this disclaimer to claims 4, 5, 6, and 7 in said specification.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., Apr. 18, 1947.*

Max Krakow, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Walter H. McKenna & Co., Inc., 700 Prairie Ave., Providence 5, R. I., to effect the cancellation of trade-mark registration of Max Krakow, Room 942, Marshall Field Annex Bldg., 25 E. Washington St., Chicago, Ill., No. 257,671, dated June 18, 1929, and the notice of such proceeding sent by registered mail to the said Krakow at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Krakow, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Interference Notices

U. S. PATENT OFFICE, *Washington, D. C., Apr. 18, 1947.*

Chas. Douglis-Mack Co. Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Rosenbloom, Inc., 12–14 North Paca Street, Baltimore 1, Md., for registration of a trade-mark and trade-marks registered March 22, 1927 and December 17, 1929, No. 225,465 and No. 265,219, respectively, to Chas. Douglis-Mack Co. Inc., 826 Broadway, New York, N. Y., and the notice of such declaration sent by registered mail to said Chas. Douglis-Mack Co. Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Chas. Douglis-Mack Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, D. C., Apr. 18, 1947.*

Sultzer-Henderson Co. Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Rosenbloom, Inc., 12–14 North Paca Street, Baltimore 1, Md., for registration of a trade-mark and trade-mark registered March 22, 1927, No. 225,628, to Sultzer-Henderson Co. Inc., 64–70 W 36th St., New York, N. Y., and the notice of such declaration sent by registered mail to said Sultzer-Henderson Co. Inc. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Sultzer-Henderson Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Examination

In accordance with the provisions of rule 17 of the Rules of Practice, an examination for the registration of attorneys and agents to practice before the United States Patent Office will be held on Monday, July 14, 1947.

This examination will be given under the direction of the Civil Service Commission, and may be taken in any of the cities of the country in which the Civil Service Commission regularly conducts examinations. Applications to take the examination must be directed to the Commissioner of Patents and filed in the Patent Office not later than June 16, 1947.

Application blanks may be obtained from the Clerk of the Committee on Enrollment and Disbarment, Room 3717, Commerce Building.

LESLIE FRAZER,
Chairman, Committee on Enrollment and Disbarment.

Changes in Classification

Order No. 1, March 20, 1947, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *class 196, Mineral Oils* (Division 31):

37	**Liquid sulfur dioxid**

In *class 260, Chemistry, Carbon Compounds* (Division 50):

	Synthetic resins
	With carbohydrate or derivative
10	By reaction with phenols or phenoxides
11	By reaction with polycarboxylic acids or anhydrides thereof
12	By sulfurization

CHANGE SUBCLASS TITLES

In *class 18, Plastics* (Division 15), subclass 58 should read:

	Processes
	Molding
58	Casting

In *class 196, Mineral Oils* (Division 31), subclasses 13 and 14 should read:

13	**Extracting with solvents**
14	Solid bituminous bases

In *class 260, Chemistry, Carbon Compounds* (Division 50), subclass 78 should read:

	Synthetic resins
78	Aminocarboxylic acid reaction products or amides from polycarboxylic acids (e. g. nylon)

CHANGE SUBCLASS NUMBER

In *class 74, Machine Elements and Mechanisms* (Divisions 12, 45), change the number of subclass 230.1 to read *230.01*
change the number of subclass 230.2 to read *230.05*
change the number of subclass 242.1 to read *242.05*

In *class 240, Illumination* (Division 30), change the number of subclass 61.1 to read *61.05*.

In *class 280, Land Vehicles* (Division 47), change the number of subclass 33.1 to read *33.05*.

ESTABLISH SUBCLASSES

In *class 18, Plastics* (Division 15):

	Processes
	Molding
	Casting
58.3	Centrifugal
58.4	Dipping
58.5	Forming composite bodies
58.6	With pre-coated form
58.7	With subsequent treatment

In *class 73, Measuring and Testing* (Division 36):

	Stress, strain of materials or structures
88.5	Current generating or modifying type

In *class 89, Ordnance* (Division 22):

6	**Fuse setters** (to follow subclass 4)
6.5	Combined with projecting, launching or releasing devices

In *class 196, Mineral Oils* (Division 31):

	Extracting with solvents
14.10	Tars
14.11	With subsequent cracking
14.12	With chemical reaction
14.13	Sulfuric acid
14.15	Sequential different solvents with intermediate separation
14.17	Oxy compound containing solvent
14.19	Liquid sulfur dioxide
14.20	Plural immiscible solvents
14.25	Organic solvents
14.26	Heterocyclic
14.27	Hetero-N-cyclic
14.30	Non-oxo-carbonylic
14.31	Carboxylic esters
14.35	Nitrogen containing
14.38	Oxo compound containing
14.40	Oxy compound containing
14.41	Ethers
14.42	Aromatic
14.45	Halogen containing
14.46	Hydrocarbon
14.47	Liquid sulfur dioxide
14.48	Manipulative processes
14.49	Countercurrent
14.52	Apparatus

In *class 260, Chemistry, Carbon Compounds* (Division 50):

	Synthetic resins
	With carbohydrate or derivative
17.2	With phenolic compound
17.3	With amine- or amide-aldehyde products
17.4	With polymerized unsaturated compounds
	Mixed synthetic resins
	Phenolic-aldehyde products
	With amine- or amide-aldehyde products
45.1	Ureas or hetero-N-cyclic compounds
45.2	Amine- or amide-aldehyde products
45.3	With polycarboxylic acid-polyhydric alcohol reaction products
45.4	Polycarboxylic acid-polyhydric alcohol reaction products
45.5	Polymerized unsaturated compounds
46.5	Organo-polysiloxanes
	From aldehydes
67.5	With hetero-N-cyclic compounds
67.6	Azines (e. g. melamine)
67.7	C (nuclear)-N-nitrogenous radical
67.8	C (nuclear)-S-radical
77.5	Carbonic, halocarbonic or carbamic acid reaction products
78.3	Oxycarboxylic acid reaction products
78.4	Polycarboxylic acid reaction products
78.5	Interpolymers

MISCELLANEOUS CHANGES

On page 99, in subclass 325, correct the spelling of "Interchangeably".

On page 255 (1945), subclass 26, "Siphon tube" should be coordinate with subclass 23, Uniform density.

On page 320, in class 291, Track Sanders, in subclass 39, correct the spelling of "wheel".

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
196	37	196	14.19, 14.47
260	10	260	17.2
260	11	260	9
260	12	260	9

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
18	58.3 to 58.7	18	58
73	88.5	73	88
89	6	86	23
89	6.5	89	1
196	14.10 to 14.52	196	13, 37
260	17.2	260	9 and 10
260	17.3	260	9
260	17.4	260	9
260	45.1	260	45
260	45.2	260	42
260	45.3	260	42
260	45.4	260	42
260	45.5	260	42
260	46.5	260	2
260	67.5	260	42 and 72
260	67.6	260	42 and 72
260	67.7	260	42 and 72
260	67.8	260	42 and 72
260	77.5	260	2 and 78
260	78.3	260	78
260	78.4	260	78
260	78.5	260	78

IN THE DEFINITIONS:

9, **Boats and Buoys** (Division 61)

in subclass 8, under "Search Classes", insert:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 10 +, for marine type mines.

16, **Miscellaneous Hardware** (Division 20)

in subclass 97 in the note in the reference to class 74, change "230.1" to *230.01*.

18, **Plastics** (Division 15)

in subclass 5.5 under "Search this class", change "58" to *58 + and 58.4 +*,

in subclass 24 in "(2) Search this class", after "dipping," insert:

and subclass 58.4 + for processes of dipping.

in subclass 26 in "(2) Search this class", after "dipping", insert:

and subclass 58 + for casting processes.

in subclass 27 cancel "Search this class, subclasses 24 and 39" and add:

Search this class, subclass—
24—for dipping apparatus.
39 +—for molds employed in casting.
58.5—for processes of making candles by dipping.

in subclass 39 in "(1) Search this class", change "58" to *58 +*,

in subclass 47.5 add the following:

Search this class, subclass—
58.7—for processes of dipping which include some significant treatment of the dipped article which is ancillary to the forming and/or solidifying.

in subclass 57 under "Search this class", change "58" to *58 +*.

rewrite the definition of subclass 58 as follows:

58. Processes under subclass 55 in which liquid or semi-liquid material is given shape by placing it in a mold and hardening it therein.

(1) Note.—The processes classified in this or indented subclass may include, for instance, the use of a melted material which solidifies on cooling, monomeric materials which solidify by polymerization or reaction, or liquid suspensions which solidify by abstraction of the vehicle, or by coagulation.

Search this class, subclass—
5.5—for apparatus for casting sound records.
26 +—for apparatus used in casting.
39 +—for casting molds.
48.5—for processes of casting sound records.
57—for processes in which films are made by coating a surface and stripping the solidified film from the base.

Search Class—
22—Metal Founding, subclass 200 + for processes of casting metal.
49—Glass, subclass 85 for the casting of liquid or semiliquid glass.

establish the following subclass definitions:

58.3. Processes under subclass 58 in which centrifugal force is employed in the casting operation.

Search Class—
22—Metal Founding, subclass 200.5 for processes of casting metal in which centrifugal force is employed.

58.4. Processes under subclass 55 in which a liquid or semi-liquid material is given shape by depositing it on a mold or form and which hardens or solidifies thereon.

(1) Note.—The liquid material may be put on the form by dipping into a bath of the liquid or by spraying, spreading, etc.

(2) Note.—The solidified liquid is usually removed from the form or base on which it is formed.

Search this class, subclass—
5.5—for apparatus for forming sound records by dipping.
24 +—for dipping apparatus.
41—for molds or forms used in dipping.
48.5—for processes of forming sound records by dipping.
57—for processes in which films are formed by coating a surface and stripping off the solidified film.

Search Class—
117—Coating; Processes and Miscellaneous Products, subclass 113 + for immersion coating processes.

58.5. Processes under subclass 58.4 in which the article formed is composed of two or more layers or parts which differ in material or composition, or are contiguous but non-adherent to each other.

(1) Note.—This subclass includes patents in which the base on which the liquid is solidified is retained resulting in a composite structure.

Search this class, subclass—
47.5—for processes which include coating or impregnating a formed body with a dye, etc., even though a non-uniform or composite body is formed.
59—for processes of molding other than casting or dipping and at the same time uniting two or more substances at least one of which is plastic.

Search Class—
22—Metal Founding, subclass 201 + for composite casting of metal.
117—Coating; Processes and Miscellaneous Products, for coating processes, particularly subclass 98 + for coating open-work articles wherein the open-work characteristic is preserved.
154—Laminated Fabric and Analogous Manufactures, subclass 75 + for processes involving the adhesive uniting of two or more pre-formed bodies, subclass 110 providing for such processes combined with molding.

58.6. Processes under subclass 58.4 in which the dipping mold or form is coated with a material other than the liquid material being shaped prior to depositing the liquid material to be shaped on the form or mold.

(1) Note.—This subclass does not include patents claiming processes in which the form is coated consecutively with separate layers of the liquid being formed, even though the layers contain separate materials which react to cause coagulation of the layers or whether one layer contains a material which exerts a coagulating effect on the other. Such processes are classified on some other basis.

58.7. Processes under subclass 58.4 including some significant treatment of the formed body after formation of the layer on the form or mold.

(1) Note.—The subclass does not include patents claiming broad drying, vulcanizing, hardening, etc. of the formed body nor the stripping of the formed article from the dipping form or mold.

Search this class, subclass—
47.5—for processes characteristic of this class combined with other operations per se not classifiable in this class.

in subclass 59 under "(1) Search this class", change "58" to *58 + and 58.5.*

22, Metal Founding (Division 3)

in subclass 200 cancel notes (1) and (2) and substitute:

Search this class, subclass—
57 +—for the corresponding apparatus.

Search Class—
18—Plastics, subclass 58 +, for processes of casting non-metallic material not otherwise provided for.
49—Glass, subclass 85, for processes of casting glass.

in subclass 200.5 under "Search Class" insert:
18—Plastics, subclass 58.3 for processes of centrifugal casting on non-metallic liquid or semi-liquid material.

23, Chemistry (Division 59)

in subclass 309, (4) Note, change "subclasses 13 and 14" to *subclass 13 +.*

28, Textiles (Division 21)

in subclass 59.5, add the following note:

(2.5) Note.—See class 18, Plastics, subclass 8 for filament extruding apparatus combined with means for stretching the freshly formed filaments.

36, Boots, Shoes and Leggings (Division 11)

in subclass 30, add:

Search Class—
128—Surgery, subclass 382 + for sole-like structure.

46, Amusement Devices, Toys (Division 57)

in subclass 201, under "(6) Search Class", insert:
155—Chairs and Seats, subclass 22 +, for non-steered walkers and walkers convertible to steered vehicles.

and in the reference to class 280, Land Vehicles, insert *steered* before "coasters".

49, Glass (Division 5)

in subclass 85 under "(2) Search Classes", in the reference to class 18, Plastics, change "58" to *58 +.*

51, Abrading (Division 58)

in subclass 190 under "Search Class" in the reference to class 74, change "230.1" to *230.01.*

57, Textiles, Spinning, Twisting and Twining (Division 21)

in subclass 139 add:

(15) Note.—For strands peculiarly adapted for use as shaft packings, see class 288, Joint Packings, subclass 2 +.

64, Machine Elements, Shafting and Flexible Shaft Couplings (Division 45)

in subclass 5 in (2) Note change "230.1" to *230.01.*

73, Measuring and Testing (Division 36)

establish the following subclass definition:

88.5. Subject matter under subclass 88 wherein an electric current is generated or modified and the value of such current is taken as the value of the stress or strain being measured.

Search this class, subclass—
301, 313, 341, 342, 359 +, 362, and **398 +**—for current generating or modifying means initiated by other non-electrical sensing means.

Search Class—
175—Electricity—General Application, subclass 183, for strain gauges wherein the specimen forms part of an electric or magnetic measuring circuit.

74, Machine Elements and Mechanisms (Divisions 12, 45)

in subclass 566 after "devices" (2nd occurrence) add:
(1) which are mounted or (2)

86, Ammunition and Explosive-Charge Making (Division 35)

in subclass 22, cancel "setting" and substitute *placing*; and under "Search Class" add:
89—Ordnance, subclass 6 +, for fuse setters for encased fuses of explosive devices.

87, Textiles, Braiding, Netting and Lace Making (Division 21)

in subclass 8, add the following:

(3) Note.—For braided strands peculiarly adapted for use as a shaft packing, see class 288, Joint Packings, particularly subclasses 11, 12, 15, 17 and 18.

89, Ordnance (Division 22)

establish the following subclass definitions:

6. Apparatus for operating upon encased fuses of explosive devices for adjusting them to determine operating time, corresponding processes and combinations having such subject matter as a part thereof.

Search Class—
86—Ammunition and Explosive-Charge Making, subclass 22, for tools for cutting exposed fuse strings to proper length for use with blasting charges.
102—Ammunition and Explosive Devices, for projectiles and other explosive devices having encased and other type fuses constructed for adjustment; particularly subclasses 27 + and 70 + which provide for fuses and igniting devices.

6.5. Fuse setters under subclass 6 structurally combined with guns, launching guides or bomb dropping devices.

Note.—Such combinations may involve merely means for mounting on the device in a place convenient for the operator to reach.

99, Foods and Beverages (Divisions 1, 63)

in subclass 410, under "Search Class" add:
134—Cleaning and Liquid Contact with Solids, subclass 135, for liquid contact apparatus in which a work holder is held in draining position above the treating liquid.

102, Ammunition and Explosive Devices (Division 30)

in subclass 27, in (4) Note, cancel "subclass 1", and substitute:
subclasses 1 and 22

in subclass 70, under "Search Class" in the reference to class 86, before the period, insert:
and subclass 22 for tools for cutting and installing blasting fuses.

and insert in numerical order:
89—Ordnance, subclass 6 +, for fuse setters for encased fuses of explosive devices.

104, Railways (Division 34)

in subclasses 191 and 197 change "230.1" to *230.01.*

106, Compositions, Coating or Plastic (Divisions 38, 64)

in the main class definition in Note 2 B, cancel the reference to class 41.

128, Surgery (Division 55)

in subclass 134 under "Search Class" add:
227—Fire Escapes, subclass 49, for body harness of general application.

134, Cleaning and Liquid Contact with Solids (Division 27)

in subclass 135 add:

Search Class—
99—Foods and Beverages, subclass 410 + for boiler or deep fat fryer type cooking apparatus with elevated draining position.

143, Wood Sawing (Division 29)

in subclass 30, change "230.1" to *230.01.*

154, Laminated Fabric and Analogous Manufactures (Divisions 20, 55)

in subclass 2.21 in (28) Note change "2" to *82.*

155, Chairs and Seats (Division 8)

in subclass 5, in (2) Note, cancel "Class 155 takes" and substitute therefor:
This, and indented subclasses take

in (7) Note, add at the end of note:
See definition of subclass 22, class 155, for line as to baby walkers.

in (9) Note, cancel "classes 180, Motor Vehicles." and add:
class 280, Land Vehicles.

in subclass 22, after "etc." add the following:
, and also such devices which are convertible to non-steered vehicles.

add:

Search this class, subclass—
41—for steered walkers and other vehicles convertible to chairs.

in "(1) Search Class", after "walking" add:
, subclass 7.10 + for walkers convertible to steered vehicles, and subclass 87.01 + for steered walkers.

in subclass 41 under "Search Class", in the reference to 280, after "34", insert: *and 47 +.*

161, Time-Controlling Mechanism (Division 61)

cancel subclass 16 which was inadvertently omitted from order number 3753.

188, Brakes (Division 47)

in subclass 3 under "(2) Search Class" change "33.1" to *33.05.*

in subclass 112 under "Search Class" change "33.1" to *33.05.*

191, Electricity—Transmission to Vehicles (Division 34)

in subclass 63 in the note, change "230.1" to *230.01.*

193, Conveyers, Chutes, Skids, Guides, and Ways (Division 4)

in subclass 37 in (2) Note change "230.1" to *230.01.*

196, Mineral Oils (Division 31)

rewrite the definitions and notes of subclasses 13 and 14 as follows:

13. Processes and apparatus for the extraction of mineral oil source material, mineral oils or fractions thereof with physically acting solvents.

(1) Note.—For a definition of the organic chemical terminology employed in this and the indented subclasses see "Definitions of Terms" employed in class 260 (i. e. "heterocyclic", "non-oxo-carbonylic", "oxo", "oxy", etc.)

Search this class, subclass—
23 +—for chemically active solvents not employed in combination with a physically acting solvent. For the latter combination see this class, subclass 14.12 and 14.13.

Search Class—
23—Chemistry, subclass 267 + and 309 + and appended notes, for extraction in general.
260—Chemistry, Carbon Compounds, subclass 705 and the notes thereto for extraction processes of general application in the field of carbon compounds.

14. Processes under subclass 13 employing solid bituminous source materials.

(1) Note.—This subclass includes, for example, the extraction of asphaltic rocks or sands, oil shale, or bituminous coals. Some of the patents in this subclass are directed to the removal of mineral wax.

Search Class—
94—Roads and Pavements, subclass 42.

establish the following subclass definitions:

14.10. Processes under subclass 13 wherein the substance extracted is a tar.

(1) Note.—This subclass includes for example, the extraction of coal tar and petroleum (pressure) tar.

14.11. Processes under subclass 13 wherein the solvent extraction step is followed by cracking of some portion of the extracted base.

Search this class, subclass—
47 +—for processes of cracking mineral oils.

14.12. Processes under subclass 13 which include a chemical treatment or change.

(1) Note.—The chemical treatment may include the use of a chemical reagent or involve an internal molecular change (polymerization) by means of a catalyst.

14.13. Processes under subclass 14.12 employing sulfuric acid as a reagent.

14.15. Processes under subclass 13 wherein the extraction is carried out in plural sequential steps with different solvents and with phase separation between at least two of such steps.

(1) Note.—Where plural steps are carried out with the same solvent, it is classified in the appropriate subclass hereunder. However, solvents containing essentially the same ingredients but in different proportions are considered to be different.

14.17. Processes under subclass 14.15 where at least one of the solvents includes a carbon compound containing an oxy group.

14.19. Processes under subclass 14.15 where at least one of the solvents includes liquid sulfur dioxide.

14.20. Processes under subclass 13 wherein the solvent extraction is carried out by plural solvents having preferential solvent properties for different components in the base and where the different solvents are relatively immiscible under the conditions of the extraction.

(1) Note.—This class includes, for example, the Duo-Sol type process.

14.25. Processes under subclass 13 wherein the solvent includes an organic compound.

(1) Note.—For purposes of this classification, "an organic compound" is a carbon compound as defined in the first paragraph of the main class definition of class 260.

14.26. Processes under subclass 14.25 where the solvent includes a heterocyclic compound.

(1) Note.—This subclass includes, for example, dioxane and furyl compounds.

14.27. Processes under subclass 14.26 which include a heterocyclic compound having a hetero-N-ring element.

(1) Note.—This subclass includes, for example, pyridine and morpholine.

14.30. Processes under subclass 14.25 where the solvent includes a non-oxo-carbonylic compound.

(1) Note.—This class includes carboxylic acids and salts not classified above.

14.31. Processes under subclass 14.30 where the solvent includes an ester of a carboxylic acid.

14.35. Processes under subclass 14.25 where the solvent includes a nitrogen containing organic compound.

14.38. Processes under subclass 14.25 where the solvent includes an oxo compound, i. e. an aldehyde or ketone.

14.40. Processes under subclass 14.25 where the solvent includes an oxy compound.

(1) Note.—This subclass includes, for example, acyclic alcohols and alcoholates.

14.41. Processes under subclass 14.40 where the solvent includes an oxy ether.

14.42. Processes under subclass 14.40 where the solvent includes an aromatic compound.

(1) Note.—This subclass includes, for example, phenols and phenolates.

14.45. Processes under subclass 14.25 where the solvent includes a halogen containing carbon compound.

14.46. Processes under subclass 14.25 where the solvent includes a hydrocarbon.

14.47. Processes under subclass 13 where the solvent includes liquid sulfur dioxide.

14.48. Processes under subclass 13 which are claimed broadly without reference to any specific solvent and are usually distinguished by procedural features.

(1) Note.—Manipulative processes employing a specific and claimed solvent are classified above and are cross-referenced to this class where appropriate.
(2) Note.—Processes where the solvent is claimed broadly (e. g. solvent for naphthenic fractions, high boiling solvent, organic solvent) are classified here.

14.49. Processes under subclass 14.48 where the extraction is carried out in a countercurrent manner.

14.52. Apparatus under subclass 13 for solvent extraction.

Search Class—
23—Chemistry, subclass 267 +, and the notes thereto for solvent extraction apparatus elsewhere classified.

abolish the definition and note of subclass 37.

198, Conveyers—Power-Driven (Division 4) ;

in the main class definition.

in (3) Note change "230.1" to *230.01*.

202, Distillation (Division 25)

in subclasses 11 and 25 under "Search Class", change "subclasses 13 and indented subclass", to *subclass 13 +*.
in subclass 39.5 under "Search Class", change "13" to *13 +*.
in subclasses 56 and 169 under "Search Class", change "13, and indented subclass" to *13 +*.

227, Fire Escapes (Division 4)

in subclass 49, under (2) Note, in the reference to class 128, after "indented subclasses" insert : *, and subclass 134 for appliances for restraining the movement of all or a greater part of the body.*

260, Chemistry, Carbon Compounds (Divisions 6, 15, 31, 38, 43, 50, 59, 63)

abolish the definitions of subclasses 10, 11 and 12.
establish the following subclass definitions :

17.2. Products under subclass 9 in the production of which a phenol, phenolate, phenol ether or a phenol-aldehyde condensation product is employed.

(1) Note.—This subclass contains those patents in which carbohydrates are reacted with phenols as well as those in which the phenol reaction products are subsequently treated with an aldehyde or aldehyde releasing material and patents wherein the carbohydrate is physically admixed with a phenol-aldehyde condensation product.

Search this class, subclass—
9—for reactions of a carbohydrate in which a phenol may inherently be present with an added aldehyde.

17.3. Products under subclass 9 in the production of which an amine- or amide-aldehyde condensation product is employed.

17.4. Products under subclass 9 in the production of which a polymerized unsaturated compound is employed.

in subclass 17.5, in (1) Note, cancel "to 12" and after "9" insert : *and 17.2 to 17.4*
in subclass 42, cancel the definition and substitute :

42. Products under subclass 2 which contain (1) physical mixtures of the same or different types of previously prepared resins as well as (2) reaction products formed from a plurality of ingredients which under the conditions of reaction are known to form at least two types of resins or (3) reaction products of different resins of the same type where at least one of the resins has been previously prepared.

(1) Note.—Conjoint polymerization products of different polymerizable unsaturated compounds are not included here as they are considered to be of the same type, nor are reaction products of mixed phenols and an aldehyde or a single phenol and a mixture of aldehydes or mixed amines and/or amides and an aldehyde.

Search this class, subclass—
67.5 +—for reaction products of an aldehyde with a mixture of an amine or amide where either is hetero-N-cyclic.
70 +—for reaction products of formaldehyde with a mixture of urea and other amines or amides.
72—for reaction products of an aldehyde and a mixture of amines and amides not provided for in subclasses 67.5 + and 70 +.

establish the following subclass definitions :

45.1. Products under subclass 45 which contain ureas or hetero-N-cyclic compounds.

(1) Note.—The scope of the term "ureas" is as defined in this class, subclass 68.

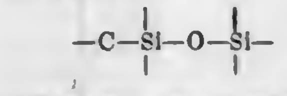
45.2. Products under subclass 42 which contain an amine- or amide-aldehyde reaction product.

45.3. Products under subclass 45.2 which contain additionally a polycarboxylic acid-polyhydric alcohol reaction product added as such or formed in situ.

45.4. Products under subclass 42 which contain a polycarboxylic acid-polyhydric alcohol reaction product.

45.5. Products under subclass 42 which costain a polymerized unsaturated compound.

46.5. Products under subclass 2 which are characterized by the recurring group



$$-\mathrm{C}-\overset{|}{\underset{|}{\mathrm{Si}}}-\mathrm{O}-\overset{|}{\underset{|}{\mathrm{Si}}}-$$

(1) Note.—This subclass contains resins prepared from silicols as well as hydrocarbon substituted silicon halides, as for example, dimethyl silicol or dimethyl dichlorosilane.

Search this class, subclass—
80 +—for resins comprising organic esters of silicic acid which contain a polymerizable, unsaturated group (e. g. allyl silicate).

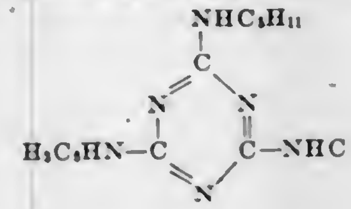
67.5. Products under subclass 67 in the production of which a hetero-N-cyclic compound is employed.

(1) Note.—This subclass includes for example, reaction products of an aldehyde with piperidine, guanazole or 2-amino thiazole.

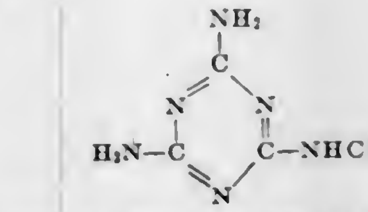
67.6. Products under subclass 67.5 wherein the heterocyclic compound is an azine, such as, for example, melamine.

67.7. Products under subclass 67.6 wherein the azine employed has a poly N-containing radical attached to a nuclear carbon through a nitrogen atom.

(1) Note.—This subclass includes, for example, reaction products of an aldehyde with

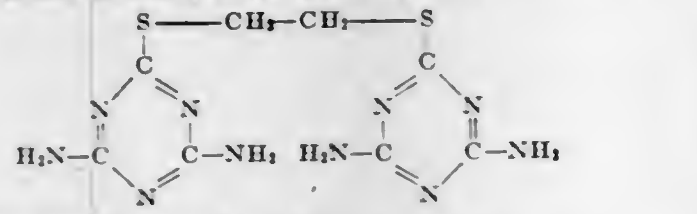


or



67.8. Products under subclass 67.6 wherein the azine employed has a bivalent sulfur bearing radical attached to a nuclear carbon through the sulfur atom.

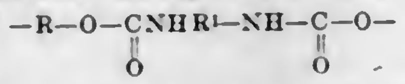
(1) Note.—This subclass includes, for example, reaction products of an aldehyde with



in subclass 75, cancel note (1).
establish the following subclass definitions :

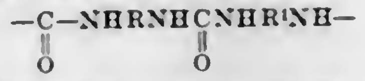
77.5. Products under subclass 2 which are reaction products of carboxylic acids having the general formula —X—COOH, or their functional derivatives, where X = N, Hal or O.

(1) Note.—The expression "functional derivatives of carboxylic acids" is intended to include those carbonylic derivatives of the carboxyl group which on hydrolysis revert to the carboxyl group (e. g. esters, anhydrides, acid halids, amides).
(2) Note.—This subclass also includes products identical in structure with those formed from the acids, for example, polymeric carbamates (e. g. polyurethanes) having the structure



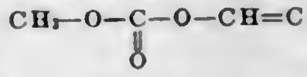
$$-\mathrm{R}-\mathrm{O}-\underset{\underset{\mathrm{O}}{\|}}{\mathrm{C}}\mathrm{NHR^1}-\mathrm{NH}-\underset{\underset{\mathrm{O}}{\|}}{\mathrm{C}}-\mathrm{O}-$$

formed from diisocyanates reacted with diols, polyamides having the structure



$$-\underset{\underset{\mathrm{O}}{\|}}{\mathrm{C}}-\mathrm{NHRNH}\underset{\underset{\mathrm{O}}{\|}}{\mathrm{C}}\mathrm{NHR^1NH}-$$

formed from diisocyanates reacted with diamines. There are also included polymerization products of carbonates such as methyl vinyl carbonate



$$\mathrm{CH_3}-\mathrm{O}-\underset{\underset{\mathrm{O}}{\|}}{\mathrm{C}}-\mathrm{O}-\mathrm{CH}=\mathrm{CH_2}$$

and urea reaction products not provided for above.

Search this class, subclass—
65—for urea-ketone reaction products.
68 +—for urea-aldehyde reaction products.
463—for non-resinous esters of carbonic and chlorcarbonic acids.

in subclass 78 cancel the definition and substitute :

78. Products under subclass 2 which are reaction products prepared from aminocarboxylic acids or which are amides (including imides) in the preparation of which a polycarboxylic acid or a functional derivative thereof is employed.

(1) Note.—For the definition of the expression "functional derivative of a carboxylic acid" see Note (1) to subclass 77.5.

establish the following subclass definitions :

78.3. Products under subclass 2 which are reaction products of oxycarboxylic acids.

(1) Note.—This subclass includes for example, resins prepared from lactic acid or the polymerization product of methyl methacryloxy-acetate.

Search this class, subclass—
77.5—for resinous reaction products of organic carbonic acids.

78.4. Products under subclass 2 which are reaction products of polycarboxylic acids and their functional derivatives, such as esters or anhydrides.

(1) Note.—Included here, for example, are polymers of dimethallyl adipate, propargyl fumarate or dimethallyl maleate. This subclass includes also resins produced in a Diels-Alder type reaction as, for instance, the alpha-terpinene-maleic anhydride reaction product.

78.5. Products under subclass 78.4 which are interpolymerization products of polycarboxylic acids or their derivatives and a polymerizable unsaturated compound.

(1) Note.—This subclass includes for example, interpolymers of (1) diethyl fumarate and isobutylene, (2) dimethyl maleate and vinyl chloride and (3) diallyl succinate and vinyl acetate.

in subclass 79, change the Note to read : *See subclass 48.*
in subclass 126, cancel the Note.
in subclass 685, in (2) Note, cancel the reference to subclass 12.

280, Land Vehicles (Division 47)

in subclass 7.10 in (2) Note cancel "and 30" and substitute therefor : *, 30 and 87.01*
and add :

Search Class—
155—Chairs and Seats, subclass 22 +, for non-steered walkers and walkers convertible to non-steered vehicles; and subclass 41 for vehicles convertible to chairs.

in subclass 30, under "(3) Search Class", cancel "wheeled devices other than a wheeled chair" and substitute therefor *vehicles,*
in subclass 79, after "wheel" insert *or wheels,*
in subclass 80, cancel ", exclusive of the wheels, axles, and their journals,",
in subclass 104.5, after "located" insert *in tandem,*
in subclass 200, in (1) Note, cancel "subclass" and substitute therefor : *subclasses 7.10 and,*
and before the period insert *and class 155, Chairs and Seats, subclass 22 +.*

288, Joint Packings (Division 52)

in the main class definition, first paragraph, cancel "or stock material . . . . fabricated." and add :

> The mere designation of an article as a packing, gasket, liner or equally broad term is not considered to be sufficiently specific for classification in this class. Articles so designated are classified elsewhere as stock material or on some other basis.

and add the following notes :

(5.5) Note.—See class 117, Coating ; Processes and Miscellaneous Products, appropriate subclasses, for stock material in the form of a coated base.
(5.6) Note.—See class 154, Laminated Fabric and Analogous Manufactures, appropriate subclasses, particularly subclasses 43 and 54 for laminated stock material.

and in note 7 to the main class definition add :

> Where the composition is formed into some significant shape or structure, it will go to this class.

314, Electric Lamp and Discharge Devices, Consumable Electrodes (Division 60)

in the main class definition under "(8) Search Classes", in the reference to class 240, change "61.1" to *61.05*.

Transfer of Class

CLASSIFICATION ORDER NO. 2

U. S. Patent Office, *Washington 25, D. C., March 31, 1947.*

The following transfer, to take effect immediately, is hereby ordered :

Class 312, Supports, Cabinet Structures, subclasses 35 through 97.1 from Division 8 to Division 41.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,406,651. Device for Lubricating Monotype Keyboards. Patented Aug. 27, 1946. A device for lubricating and cleaning monotype keyboards without dismantling. Attached to air line of any conventional monotype machine. Comprises an oil container with filler tube on one side. A tubular connection on other side has two branches leading into container. One connects with oil atomizing tube. A valve between branches controls flow of air so air may enter container or be discharged through outlet on cover. As air enters branch connected to oil atomizing tube, an oily film forms on side of container to which dust and moisture adhere. The film then slides to bottom of container and escapes through drain cock. As the compressed air passes through the device some oil is atomized and mixed with the air and lubricates keyboard and operates the valves and pistons. (Owner) Leslie G. Bakal, Route 3, Richmond, Va. Group 35—61. Reg. No. 5,487.

Pat. 2,215,152. Insulator. Patented Sept. 17, 1940. An insulator for telegraph, telephone, electric lines, etc. The line wire is secured to outer shell in the usual manner. The inner member is of resilient material permitting movement of shell in all directions reducing crystallization and wire failure. This resilient mounting of shell substantially eliminates breakage of line wire from coated ice, etc. (Owner) G. E. Hosfield, R. R. 2, Fowler, Ind. Group 36—31. Reg. No. 5,488.

Pat. 2,407,892. Hospital Bed. Patented Sept. 17, 1946. This patent relates to a hospital bed provided with movable auxiliary framework for adjustment to many different angles. Outer edges of either side of bed may be raised or lowered so a longitudinal trough may be formed in center of bed. Useful when turning a patient. A unique feature of this invention is a bedpan support underneath frame. Arranged on tracks on which a small wheeled car travels and carries bedpan. Operates on a cable. (Owner) Otto Mehr, 8506 Tonnelle Ave., North Bergen, N. J. Group 25—32. Reg. No. 5,489.

Pat. 2,403,654. Welder's Armrest. Patented July 9, 1946. A device for supporting a welder's arm in different positions. A plate-like support has a pair of hooks on inside which fit over welder's belt. Armrest is mounted on end of lazy tongs fastened to a pair of slidably mounted rings on support with a spring between. The movement of spring and tongs is controlled by a pair of collars slidable along supporting member and can be moved to a predetermined position to suit welder's needs. (Owner) August G. Gerdes, 2414 Garfield St., Clinton, Iowa. Groups 34—41; 39—81. Reg. No. 5,490.

Pat. 2,406,906. Rotary Sine Index Plate. Patented Sept. 3, 1946. A rotary sine index plate for determining changes in angular relationship of a rotary table with respect to the base. An elongated bolt in central bore in base draws surfaces of table and base into firm frictional engagement. Because of arrangement of anvils completely around the base the table may be rotated through 360° or any part thereof and its angularity determined with extreme accuracy in any position. (Owner) Triangle Engineering Co., 400 East Nine Mile Road, Ferndale, Mich. Group 35—65. Reg. No. 5,491.

Pat. 2,406,167. Jar Cap Applying and Removing Device. Patented Aug. 20, 1946. A wall-type device of pivotally connected links with gripping lugs for applying and removing screw caps from jars. So constructed as to fix jar in angular position for easy handling. A shelf with key-hole slots for adjusting chain is fastened to an elongated flange attached to a support. The other end of chain is connected to hand crank. The links rest on top of cap and the gripping lugs engage the cap at spaced points and support entire weight of jar. User's hands are free. (Owner) Kyrle F. Seals, Box 402, Lamar, Colo. Groups 34—41—99; 40. Reg. No. 5,492.

Pat. 2,182,956. Clutch Pulley. Patented Dec. 12, 1939. A combination clutch and V-belt pulley. Comprises a main driving member with a plurality of slidable driving members keyed thereto. Free end of pulley has a stationary collar which carries the operating mechanism and is slidable relative to the hub of main driving member. May be manually changed from an effectively solid driving pulley to an idler pulley. Inventor states article has been a success in actual use. (Owner) George Beyerline. Address correspondence to George C. Allen, 9835 Mallison Ave., South Gate, Calif. Groups 35—66; 38—31. Reg. No. 5,493.

Pat. 2,216,578. Railway, Mine, and Trolley Switch. Patented Oct. 1, 1940. This patent presents a railway switching means whereby the up and down motions of trains moving over the usual railway track are eliminated, thus preventing excessive wear, the loosening of fish plates, etc. Basically, the inner rails of the usual combination of a pair of main rails and turn-out rails joined by the intersecting switch frog are placed on a higher plane than the outer rails. (Owner) John Yasenko, 1715 North 44th St., East St. Louis, Ill. Group 33—92. Reg. No. 5,494.

Pat. 1,801,312. Pull Toy. Patented Apr. 21, 1931. A pull type toy which represents an animal walking or running and wagging its tail. The legs are pivotally mounted to body and extend over outside of wheels and rapidly swing back and forth as toy is pulled. A tail of rope or the like is given a wagging motion by a link connection attached to tail and to crank shaft of rear wheel. (Owner) Walter G. Jones, 1230 Sixth Ave., New York 20, N. Y. Group 39—41. Reg. No. 5,495.

Pat. 2,412,056. Utensil Holder. Patented Dec. 3, 1946. This patent is a continuation-in-part of Patent 2,371,308 (Registration No. 374). It describes a pocket-size compact-like utensil holder comprising a core or body portion having openings fitted with such articles as keys, knife, nail file, needle, and thread holder, lighter, flashlight, pencil, and other small items. The articles are either closely fitting or swingably connected to the holder. When closed a pair of covers hold the selected utensils in place. (Owner) Alfred Mosch. Address correspondence to K. A. Mayr, 21 East 40th St., New York 16, N. Y. Groups 31—72; 39—72; 40. Reg. No. 5,496.

Pat. 2,414,967. Ice Skate. Patented Jan. 28, 1947. Construction of this ice skate permits ready flexure of the wearer's foot similar to that present during ordinary walking, running, or jumping. This is made possible by a resilient mounting (spring steel) in combination with a resilient blade. The sole plate has its ends bent inwardly and under the main section of the plate (forming a U at each end) and secured to the blade. The heel plate is laminated and bent under its main section (substantially V-shaped) and secured to the blade. The blade has a series of horizontal slots which overlap each other to provide further elasticity. In action the mounting and blade assume various balanced positions (depending on the load applied by the skater) cushioning the shocks of jumps. (Owner) Edward Clarence Meyers, 1619 Stanley Ave., Long Beach 4, Calif. Group 39—49. Reg. No. 5,497.

Pat. 2,132,315. Lock Valve. Patented Oct. 4, 1938. Turn plug type of stop valve for gas, water or other mains has a lock built inside so that when it is turned off by a wrench it will automatically lock without the use of a key. A key must be used to unlock valve before it can be turned on. This key may be fixedly anchored centrally in the socket of a wrench. A series of vertically arranged locking tumblers which are normally urged outwardly by a spring will snap into a pair of oppositely disposed, aligned slots in the vertical walls of the housing of the valve. (Owner) J. D. Newell, Eaton Creek Rd., Route 6, Nashville, Tenn. Groups 33—61; 66. Reg. No. 5,498.

Pat. 2,409,488. Facsimile Communication System. Patented Oct. 15, 1946. This patent relates to a television system by means of which messages of various kinds (including sound, pictures, telegraph, code, or other coded signals) may be simultaneously transmitted over a single carrier. All signals are transmitted and reproduced as picture or video signals to operate relay-controlled typing, printing, sound apparatus, etc. The system includes the conventional-type cathode ray camera and picture tubes, the image screens of which are scanned by an electron gun. Basically, the system is controlled by a moving tape upon which various code characters are printed. The characters actuate light valves which in turn affect the scanned image plates of the tubes. Modifications shown. (Owner) John H. Homrighous, 1029 Wenonah Ave., Oak Park, Ill. Group 36—61. Reg. No. 5,499.

Pat. 2,412,149. Corn Kernel Cutter. Patented Dec. 3, 1946. Cutter is used to slit kernels of corn on cob to tenderize them prior to their consumption. It comprises a handle having an arch-shaped head with a series of blades detachably clamped longitudinally between the head and a correspondingly arch-shaped plate. Nibs or teeth are provided on the forward edge of the arched plate so that when cutter is drawn longitudinally along the ear of corn, the nibs will slit the kernels. (Owner) John H. Higgins, 150 Center St., Bangor, Maine. Groups 33—51; 40. Reg. No. 5,500.

Pat. 2,135,738. Remote Volume Control Device for Radio Receiving Sets. Patented Nov. 8, 1938. Group 36—61. Reg. No. 5,501.

Pat. 2,135,739. Remote Volume Control Device for Radio Receiving Sets. Patented Nov. 8, 1938. Group 36—61. Reg. No. 5,502.

The two patents listed above relate to a volume control device for radios. Comprises an automatic take-up reel mounted on side of cabinet. The device is self-contained in the radio cabinet and may be withdrawn by listener who desires to control volume from a distant point. (Owner) Harry K. Todd, 1116 Rust Bldg., Tacoma, Wash.

Pat. 2,402,168. Method and Means for Generating Multiline Sweep Patterns. Patented June 18, 1946. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) A circuit for producing an undistorted multiline sweep pattern on an oscillograph. Comprises applying saw-tooth wave forms to the vertical deflection plates of the oscillograph. Other wave forms are simultaneously applied to the horizontal deflection plates at a greater frequency than the saw-tooth wave forms and equal to the number of sweep lines desired. A limiter circuit is included which functions to maintain a constant voltage at the vertical deflection plates to insure an undistorted pattern. (Owner) Harold Lyons, 2319 40th Place, N. W., Washington 7, D. C. Group 36—61. Reg. No. 5,503.

Pat. 2,402,169. Double Pulse Oscillator. Patented June 18, 1946. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) An oscillator circuit for generating timed double pulses. Comprises a pair of electron discharge devices each having a plate, a cathode and a control electrode. Definite positive potentials are applied to plates whereby definite cut-off potentials are established at each device. Saw-tooth voltages are simultaneously applied to each electrode and cut-off potential maintaining a predetermined time interval between pulses. (Owner) Harold Lyons, 2319 40th Place, N. W., Washington 7, D. C. Group 36—61. Reg. No. 5,504.

Pat. 1,818,157. Radio Receiving Circuits. Patented Aug. 11, 1931. This patent refers to a balancing circuit used in the grid circuit of a detector tube to effect rectification without the use of the usual devices. Uses an inductance in the grid circuit for neutralizing the oscillator detector circuit against self-oscillation and an aerial connection at midpoint of the inductance. A shunt circuit from the aerial to the cathode of the tube incorporates a radio frequency choke. The arrangement, according to the inventor, is highly selective and sensitive. (Owner) Maurice M. Phillips, 807 North Payson St., Baltimore 17, Md. Group 36—61. Reg. No. 5,505.

Pat. 2,410,252. Cable Stripping Tool. Patented Oct. 29, 1946. May be used to cut the insulation of a cable both circumferentially and longitudinally so that a section of insulation may be removed. Tool of split tubular formation comprises two opposed sections which are pivotally connected together at one end so that the free end may be opened and closed to grip a cable. Each pivote end section has a pair of divergent legs connected together and to each other by a pair of semi-circular bands. The opposed free ends are notched and provided with jaws, one of which carries a pointed transverse cutter projecting inwardly. (Owner) E. G. Torrence, 1117 8th St., Port Arthur, Tex. Group 33—51. Reg. No. 5,506.

Pat. 2,408,554. Internal-Combustion Engine. Patented Oct. 1, 1946. Engine of the two cycle type is provided with opposed pairs of cylinders and two diagonally disposed cylinders firing simultaneously. The compression ratio may be varied by increasing or decreasing the thickness of shims between the cylinder head, block, and crankcase, so that various types of liquid fuel may be utilized. The engine is equipped with a powerful fan to create a forced draft which is channeled to cool the inside and outside of the cylinders, to scavenge exhaust gases and supply fresh air to the cylinders. The air is supplied to each cylinder through two air scoops, one of which has a finned shell enveloping the cylinder. The inventor claims that operating speeds ranging from 8,000 to 10,000 revolutions per minute may be obtained. When used with aircraft, fan may be omitted, air from the propellers being utilized. (Owner) John Lewis Haight, Jr., 504 Sinclair Bldg., Fort Worth, Tex. Groups 35—12—19; 37—22; 38—31. Reg. No. 5,507.

Pat. 2,408,486. Hand Grenade and Fuse Therefor. Patented Oct. 1, 1946. A hand grenade with an impact fuse. A pull ring is attached to a safety wire which retains cap of housing cavity in place against pressure of a spring. The grenade is safe as long as the cap is held in place. As soon as grenade is thrown the spring ejects cap and leaves a weight and ball carrying an ampule free to move until the weight strikes the wall of the bore. When the grenade strikes a solid object the weight swings and strikes the ampule and releases contents upon the chemicals in cavity in fuse assembly. The reaction causes the explosion. (Owner) Edward M. Shinkle, 11 Seventeenth Ave., San Francisco 21, Calif. Group 33—X2. Reg. No. 5,508.

Pat. 2,396,334. Food Jar Extractor Tool for Pressure Cookers. Patented Mar. 12, 1946. A combined protector and lifting device for hot food jars. Consists of a safety cylinder for enclosing a jar in a pressure cooker. A pair of tongs are either permanently or detachably connected through slots in top of cylinder and grip jar closure for withdrawal from cooker. Protects jar against chilling drafts while being removed. Also protects user from flying glass fragments in the event jar explodes. (Owner) G. L. Miller, 1421 East Third St., Graham, Tex. Groups 34—41; 40. Reg. No. 5,509.

Pat. 2,408,344. Coat Hanger or Wall Rack. Patented Sept. 24, 1946. A plastic or wooden coat hanger or wall bracket. Gripping devices are arranged along bottom edge of frame for suspension of a skirt, trousers, etc. Apertures may be provided in body of frame for hanging neckties. Arms may be provided at sides of bottom edge for attachment to a wall or door. Inexpensive to manufacture. (Owner) W. Scurrah, Scarboro Bluffs, P. O., Ontario, Canada. Groups 25—99; 39—81; 40. Reg. No. 5,510.

Pat. 2,409,430. Flow Indicator for Pipe Lines. Patented Oct. 15, 1946. A flow indicator for oil pipe lines in a tanker, etc. Comprises a pipe section of transparent insulating plastic with end flanges for bolting into pipe line. A pair of conductor rings embedded in flanges obviates the accumulation of static electricity. An arrow is swingably suspended from top center of pipe section and indicates direction of flow. Assumes a perpendicular position if contents are not being pumped therethrough. (Owner) Carroll V. Greenleaf, Box 157, Edmonds, Wash. Group 36—18. Reg. No. 5,511.

Pat. 2,340,900. Cap for Colored Nail Polish Bottles. Patented Feb. 8, 1944. A plastic hood-shaped cap for nail polish containers. An element representing a finger nail is pivoted in top of cap and displays color of polish in container. Simulated nail may be swung outward from cap so purchaser may place finger underneath and observe effect of the polish on nail. (Owner) Allan Robinson, 10 State St., Boston, Mass. Groups 32—21; 39—81; 40. Reg. No. 5,512.

Pat. 2,401,841. Adhesive Tape Dispenser. Patented June 11, 1946. A device for holding, heating and dispensing adhesive tape. Heating device comprises a roller enclosing an electrical resistance core. As tape is pulled out of device heat is transmitted to its under face as it slides over heating roller. A stop device limits rotation of roller. Ideal for hospitals and doctors' offices. (Owner) Edwin Singer, % Mountain Refrigeration Center, Harris, New York. Groups 39—81; 40. Reg. No. 5,513.

Pat. 2,409,641. Ventilating Attachment for Welders' Helmets. Patented Oct. 22, 1946. Attachment for standard helmets of the type including a horizontal and vertical head band. A T fitting is clamped to top of the vertical band. A pair of hose sections attached to the arms of the T extend downwardly inside helmet and then forwardly along outside of the horizontal band with the free ends clamped to the horizontal band. An air supply hose connected to the stem of the T extends downwardly in back of the helmet and has a clamp for connection to the waist band or belt of the welder. (Owners) Wilbur D. O'Quinn and J. Hardie Ferguson, Odd Fellows Bldg., Wilmington, N. C. Groups 35—42; 36—19. Reg. No. 5,514.

Pat. 2,411,455. Gearshift Locking Device. Patented Nov. 19, 1946. This device automatically locks gearshift rod with steering column when hand brake lever is in braking position. Comprises a housing clamped to steering column and gearshift rod. Lock bolt slides in recesses in housing. A keeper attached to rod engages with bolt when in locking position. A flexible member connects hand brake lever with bolt and moves bolt to locking position when hand brake lever is used. May be manufactured as an attachment for motor vehicles or as part of the vehicle. (Co-owner) W. H. Mullins, South Boston, Va. Group 38—31. Reg. No. 5,515.

Des. 145,800. Design for a Radio Cabinet. Patented Oct. 22, 1946. (Owner) W. J. House, Jr., 107 North American Way, Grand Prairie, Tex. Groups 25—11; 36—61. Reg. No. 5,516.

Pat. 2,406,175. Spading Fork. Patented Aug. 20, 1946. Fork comprises a pair of opposed side members and an intermediate member, so designed that when they are welded together the greatest strength is obtained at the desired point to avoid the possibility of bending or breaking the tines. The welded assembly also provides an elongated socket for the reception of a handle. Each side member has a leg forming an outer tine, while the legs of an intermediate member of substantially inverted U-shape form the other tines. (Owner) B. F. Talley, 2163 Main St., Riverside, Calif. Groups 33—52; 35—22. Reg. No. 5,517.

Pat. 2,387,096. Electric Resistor. Patented Oct. 16, 1945. This invention relates to a resistor comprising a disc of resistive material clamped between two cup-shaped metal housings. A conductor makes contact with disc and extends through tubular members in ends of housings from which it is insulated. In operation, radio frequency current is fed from one end of conductor to center of disc and then flows to periphery of disc and to housing. The housings and tubular members may be grounded and thus effectively screen the resistor. (Owner) Simmonds Aerocessories Limited. Address correspondence to Watson, Cole, Grindle & Watson, 815 Fifteenth St., N. W., Washington 5, D. C. Group 36—19. Reg. No. 5,518.

Pat. 2,261,406. Electrometallurgy. Patented Nov. 4, 1941. A process and apparatus for the purification and separation of metallic elements. Material is fed from hopper by a screw conveyor through pre-heating chamber to end of vertical shaft and discharged into furnace. This drives off impurities that are volatile at low temperature and which are removed by vacuum pump. An electrode in upper end of furnace forms a continuation of vertical shaft. Below this electrode is a second electrode within a crucible. The material falling in arc between electrodes is fused and vaporized. The metallic vapors are passed through conduit to the precipitation chambers. (Owner) John A. Orme, % Electronics, Inc., 915 Meridian Ave., South Pasadena, Calif. Group 36—19. Reg. No. 5,519.

Pat. 2,400,439. Wind Power Plant. Patented Oct. 15, 1946. This invention relates to a power plant embodying a rotor mounted on a power take-off shaft exposed to wind and driven thereby. Comprises an open top chamber with one or more air inlets where air is admitted in controlled amounts by automatically operated shutters. This air acts upon vanes of rotor in chamber in opposition to action of air upon exposed vanes and sets up a braking effect upon the rotor. This varies with strength of wind so the force of wind upon the rotor and the torque developed at shaft will be uniform irrespective of variations in wind velocity. (Owner) Thomas E. Law, Route #1, Box 121, Globe, Ariz. Group 35—22. Reg. No. 5,520.

Pat. 2,409,348. Convertible Appliance Stand and Service Table. Patented Oct. 15, 1946. Group 25—11—14. Reg. No. 5,521.

Des. 141,929. Design for a Combination Stand and Service Table. Patented July 31, 1945. Group 25—11—14. Reg. No. 5,522.

The two patents listed above relate to an appliance stand with several shelves convertible to a service table. A shift control bar is pivotally connected to brackets on underside of each shelf. Latch means on control bar hold shelf members in position. By grasping hand loop on top shelf one shelf pulls forwardly and other end shelf shifts backwardly and forms a flat top table. Objects on shelves remain in place while shifting from stand to table. Useful for buffet suppers, as an auxiliary bar, electrical appliance cabinet, etc. (Owner) William I. Evans, 2149 West Washington Blvd., Los Angeles 7, Calif.

Pat. 1,962,840. Portable Fountain. Patented June 12, 1934. Ornamental fountain for lawns or flower gardens. May be used to direct a stream upwardly to simulate a large fountain, or discharge a spray for sprinkling purposes. It may be easily connected to an ordinary hose and its adjustable nozzle, the nozzle being removed and connections made. Fountain comprises a tubular, tapered post mounted over a central opening in a circular hollow base and bowl on top of post. The circular flanged edge of the base will rest upon the ground without mashing down any appreciable amount of grass. (Owner) Mrs. Owen H. Rives, Sr., 500 North Burgess St., Holdenville, Okla. Groups 32—98; 33—61; 35—22. Reg. No. 5,523.

Pat. 2,405,350. Two-Stroke Engine. Patented Aug. 6, 1946. Particularly intended for aircraft. Two compressors driven by engine by means of speed increasing gearing are provided for injecting compressed air into the cylinders, one of which operates continuously. When supercharging is necessary the other compressor is rendered operative by a hand controlled or automatic clutch. Both compressors communicate with each cylinder through a common pipe, which may have a radiator therein for cooling the compressed air before introduction into the cylinders. When piston reaches end of expansion stroke, it uncovers exhaust ports and an air valve (in top of cylinder) opens, admitting compressed air to scavenge substantially all exhaust gases and cool piston. When piston reaches predetermined upward position, the air valve closes and fuel is injected into cylinder. (Owners) J. Fouré and M. Gadoux, 63, Ave. Raymond Poincaré, Paris, France. Groups 35—19; 37—22. Reg. No. 5,524.

Pat. 1,981,200. Automatic Closing Fire Valve, Patented Nov. 20, 1934. Valve for controlling the flow of inflammable fluids or gases will automatically close when abnormal temperatures resulting from fire develop in the vicinity of the valve. Once the valve closes, line pressure will keep it closed. The self-closing means carried by a small circular housing with a plug in one end may be screwed into an opening in the side of a valve of standard type in which only slight structural changes are necessary. An exposed fusible disc in the housing functions to normally hold the valve open. When disc melts a pivoted type of valve element swings downwardly (in a manner similar to a check valve) to angular closed position across the usual longitudinal passage through the valve. (Owner) George W. Schultz, 124 Plum St., Reading, Pa. Groups 28—84; 33—61—66. Reg. No. 5,525.

Pat. 2,406,979. Circular Saw and Dado Cover. Patented Sept. 3, 1946. Vertically adjustable cover may be suspended over a saw or dado which is positioned on a work table or frame. A flat shank of the cover telescopes into a flat, tube-like bracket, which in turn telescopes into a skeletonized, box-like frame. When bracket and shank are adjusted to selected positions aligned holes in the members are brought into registry for the reception of removable cross pins. One of the holes in the shank of the cover is vertically elongated so that in one adjusted position the cover may be raised to gain access to the saw. The whole assembly may be suspended from a bracket or frame. (Owner) John F. Wolfe, Lapeer, Mich. Group 35—53. Reg. No. 5,526.

Pat. 2,327,269. Air Compressor. Patented Aug. 17, 1943. Group 35—61—84. Reg. No. 5,527.

Pat. 2,391,163. Art of Compressing Fluid. Patented Dec. 18, 1945. Group 35—61—84. Reg. No. 5,528.

These two patents show a compact compressor including toggle drive mechanism for reciprocating the compressor piston. It may be used in conjunction with internal combustion engines and driven thereby for supplying compressed fuel mixture to the cylinders, or with other types of engines for compressing air or gas for other purposes.

Patent #2,327,269 shows the compressor, which is of the reciprocating piston and cylinder type. The top of the cylinder above the compression chamber is enlarged to provide a chamber of increased diameter for a reciprocating check valve of the floating piston type which controls the flow of gases into and from the compression chamber. Part of the compressed gas is by-passed into the chamber above the valve to continuously urge it upon its flared annular valve seat, and also cushion opening of the valve. The valve seat is located at the junction between the two chambers, and it has an annular channel communicating with an outlet duct in the side wall of the valve chamber. Registering intake ports are provided in the side walls of the valve chamber and valve, while a relatively large annular port (controlled by an automatic check valve) in the bottom of the valve communicates with the compression chamber.

Patent #2,391,163 shows the toggle drive arrangement for reciprocating the compressor piston, which increases the compression stroke and prolongs the exhaust period. It may be adjusted to provide various degrees of piston head clearance, or no clearance, as desired. (Owner) Sellers E. Jessup, 1522 West 11th Place, Los Angeles, Calif.

Pat. 2,367,030. End Piston Ring. Patented Jan. 9, 1945. When installed a relatively large top surface area of the ring is exposed to cylinder compression which impels the ring into fluid tight engagement longitudinally against the end of the piston and laterally against the cylinder wall. The top peripheral end of the piston is cut away to provide a two-step grooved surface, the steps being separated by an annular bead or rib which functions as a feather key. The ring assembly comprises a relatively large outer ring and an inner ring, both suitably grooved for interlocking engagement with each other and with the feather key of the piston groove. The top surfaces of the rings are flush. When installed these surfaces are flush with the top of the piston, and the outer side wall of the outer ring, which is relatively wide, is flush with the side of the piston. The inner ring may be modified or omitted entirely. (Owner) Sellers E. Jessup, 1522 West 11th Place, Los Angeles, Calif. Groups 35—11—69; 37—22; 38—31. Reg. No. 5,529.

Pat. 2,409,764. Piston Ring. Patented Oct. 22, 1946. End piston ring assembly includes a flexible disc-shaped actuator which flexes downwardly to expand the ring laterally into fluid-tight engagement with the cylinder wall. The actuator has its marginal edge beveled, or bent angularly upwardly, for engaging an inwardly beveled surface of the ring which projects upwardly above the top of the piston. The actuator is placed on top of the piston and its hub is bolted to the piston with suitable clearance space therebetween. A modification shows the ring assembly applied to a composite piston comprising a plurality of separate, spaced piston sections bolted together with a ring assembly in each section. In some of the lower sections the ring assembly is disposed at their lower ends. A tensioned spring is placed in the space between the sections to impart further expansive force to the actuators. (Owner) Sellers E. Jessup, 1522 West 11th Place, Los Angeles, Calif. Groups 35—11—69; 37—22; 38—31. Reg. No. 5,530.

Pat. 2,387,693. Incinerator. Patented Oct. 23, 1945. This invention relates to a hoist for delivering waste material to an incinerator. Comprises a skip with a hinged wire cover and an L-shaped member to slide within. Skip has rollers and runs on tracks at sides of incinerator opening. Operated by pulleys attached to base of skip and to arm above opening and to drums at side of incinerator. By operating crank on incinerator the skip is raised, the forward end tilted into position opposite charging opening. Windshields at sides of opening prevent scattering of refuse. Ideal for factories or other places where large quantities of refuse are burned. Inexpensive to manufacture. (Owner) Inocente Trevino, 113 North Savannah St., Los Angeles 33, Calif. Group 33—69. Reg. No. 5,531.

Pat. 2,410,534. FLATIRON HOLDER. Patented Nov. 5, 1946. A flatiron holder attachment for an ironing board to support iron at end or side of board. Holder is hinged to end or side of ironing board and may be swung beneath board when not in use. Attached beneath end of board by a strap composed of flexibly connected links. Held in position by a keyhole shaped opening which receives a headed pin on end of ironing board. (Owner) Inocente Trevino, 113 North Savannah St., Los Angeles 33, Calif. Groups 25—99; 33—59. Reg. No. 5,532.

Pat. 2,410,557. AUTOMOTIVE VEHICLE. Patented Nov. 5, 1946. Dual front wheel drive assembly for automotive vehicles of the heavy duty type. The spindle supporting the dual wheels is pivotally supported by a yoke member (which forms part of the axle housing), to permit movement in both horizontal and vertical planes. The horizontal and vertical pivot pins are centrally located between the dual wheels to effectively balance pivoting torque, permit the wheels to conform to uneven road surfaces, etc. Inventor states horizontal pivoting angles of 45° are obtained for steering purposes as compared with 37° obtained with conventional dual wheel assemblies. The driving and braking mechanisms are entirely enclosed within the confines of the wheels. (Owner) Mrs. Frank A. Watson. Address correspondence to Charles K. Woodin, 100 West Monroe St., Chicago 3, Ill. Groups 35—63; 38—11. Reg. No. 5,533.

Pat. 2,410,508. POSTHOLE DIGGING ATTACHMENT FOR TRACTORS. Patented Nov. 5, 1946. Attachment may be connected to the rear end of a standard farm tractor and be driven by power derived from the tractor. The main parts of the attachment comprise a telescoping U-shaped boom, a telescoping drive shaft with universal joints at each end, and an A-shaped frame. The diverged ends of the A-frame are pivoted to the legs of the boom at a point near the curve of the U, while the converged ends carry a roller for movement in a vertical guide slot during operation of the attachment. This slot is specially contoured to impart camming action to the roller to shift the A-frame forwardly and rearwardly, thereby telescoping the boom and drive shaft to maintain the auger in the same vertical plane throughout the digging operation. (Owner) Thornie T. Lamme, Laclede, Mo. Group 35—21—22. Reg. No. 5,534.

Pat. 2,388,706. HYDRAULIC SAFETY BRAKE SYSTEM. Patented Nov. 13, 1945. Safety device for incorporation into conventional hydraulic brake systems comprises a cylinder with a double headed piston arranged therein and suitable fittings at opposite ends of the cylinder. A bypass controlled by a needle valve is provided for bleeding purposes. One device may be used for each wheel and inserted in the line next to the brake drum. During operation of the brakes, fluid actuates but does not pass the piston which compresses an extra charge of fluid in the system between the head of the piston and the brake. Should a leak occur between the piston and brake, only the extra charge would leak out which would not affect the system for operating the brakes of the remaining wheels. (Owner) Clyde E. Roy, 7412 Market St., Houston, Tex. Groups 35—61; 38—31. Reg. No. 5,535.

Pat. 2,261,355. INVALID'S EXERCISING CHAIR. Patented Nov. 4, 1941. Particularly useful for promoting the recovery of paralysis victims by properly exercising the legs and, if necessary, the arms. It comprises a chair in combination with pedal mechanism, motor and driving mechanism, all mounted on a suitable frame which may be wheeled about. Various adjustments of the chair and pedal mechanism may be made to accommodate patients of different stature. The speed of the motor operated driving mechanism may be varied, or it may be rendered inoperative altogether to permit a patient to operate the pedals with his feet when his legs have become sufficiently strong; or permit him to grasp two handles and operate the pedals. These handles are connected laterally to two swinging, vertically movable rods which have their lower ends attached to sockets on the outer ends of the pedal pins. These rods also carry adjustable U-shaped leg supports. (Co-owner) Jerome Flynn, 5080 Minerva Ave., St. Louis 13, Mo. Groups 25—32; 39—10. Reg. No. 5,536.

Pat. 2,288,642. AUTOMATIC BLEEDER VALVE. Patented July 7, 1942. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) This adjustable relief valve opens and closes with a snapping action. The valve assembly includes a metallic bellows, a valve proper (preferably of the tire valve type), and a convex flexible diaphragm. The bellows expands under pressure, pushing the valve and diaphragm assembly towards an adjustable screw. As pressure increases, expansion of the bellows continues until the convex surface of the diaphragm contacts the valve pin, which depresses the diaphragm. Such depression continues until a critical position is reached at which time the diaphragm snaps through dead center, assuming a reverse convex shape similar to its normal setting. In snapping to this reverse position the diaphragm collides with and depresses the valve pin, thereby opening the valve. The diaphragm is of the self-closing type, which will snap to its normal position under low pressure. (Owner) Edwin L. Powell, 3707 Alabama Ave., S. E., Washington 20, D. C. Group 33—61—66. Reg. No. 5,537.

Des. 133,944. DESIGN FOR A GRAVE MARKER. Patented Sept. 29, 1942. (Owner) Gilford Duff Adams, Butterfield, Mo. Group 32—71—81. Reg. No. 5,538.

Des. 136,174. DESIGN FOR A SHAKER FOR SALT AND PEPPER. Patented Aug. 17, 1943. (Owner) Gilford Duff Adams, Butterfield, Mo. Groups 32—62—63; 33—71; 34—99; 40. Reg. No. 5,539.

Des. 139,638. DESIGN FOR A CREAM PITCHER OR SIMILAR ARTICLE. Patented Dec. 5, 1944. (Co-owner) Gilford Duff Adams, Butterfield, Mo. Groups 32—62—63; 33—71; 40. Reg. No. 5,540.

Des. 145,024. DISPLAY DEVICE FOR HOLDING FRUIT, CAKE, AND THE LIKE. Patented June 18, 1946. (Owner) Emil E. Hornung, 842 Laurel St., Jacksonville 8, Fla. Group 32—69; 40. Reg. No. 5,541.

United States Government Owned Patent

The following patent, owned by the United States Government, as represented by the Secretary of the Interior, is available for licensing upon a non-exclusive, royalty-free basis:

Pat. 2,412,217. FROTH FLOTATION OF CHROMITE WITH FLUORIDE. Patented Dec. 10, 1946. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Process provides a good recovery of high-grade chromite concentrate with very low consumption of reagents. Process for the beneficiation of chromium ores comprises agitating and aerating and aqueous pulp of a comminuted chromite ore in the presence of a long-chain fatty acid having from 8 to 18 carbon atoms, a dispersing agent, and a soluble fluoride at a pulp acidity preferably between pH 2.5 and pH 4.5, and recovering a froth containing a chromite concentrate. Group 34—19. Reg. No. 5,542.

Regulations under which licenses are granted are issued by the Secretary of the Interior. Applications for licenses should be made to the Solicitor, Department of the Interior, Washington 25, D. C.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 6, 1947

[VOL. 598. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

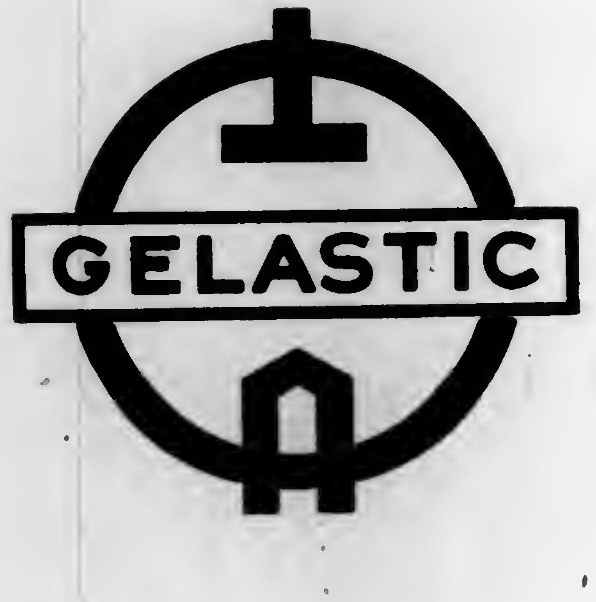
RAW OR PARTLY PREPARED MATERIALS

Ser. No. 503,284. CONTINENTAL ORE COMPANY, New York, N. Y. Filed June 5, 1946.

MAGNOLITHE

FOR MINERAL MIXTURE WITH THE BASE OF MAGNESITE USED FOR FILTERING, AS A REFRACTORY MATERIAL, AND FOR OTHER PURPOSES IN THE INDUSTRIAL ART.
Claims use since Jan. 2, 1946.

Ser. No. 507,345. SELECTRONIC DISPERSIONS, INC., Montclair, N. J. Filed Aug. 13, 1946.



FOR PLASTIC COMPOUNDS, ALLOYS AND DISPERSIONS USED FOR MOLDING AND INDUSTRIAL FINISHES AND RELATED ARTS.
Claims use since July 29, 1946.

CLASS 2

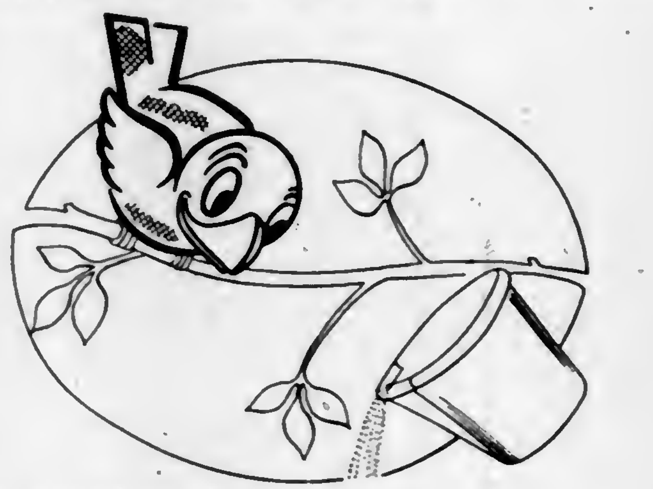
RECEPTACLES

Ser. No. 493,799. MILWAUKEE LACE PAPER COMPANY, Milwaukee, Wis. Filed Dec. 22, 1945.

Beakies

FOR PAPER CUPS.
Claims use since July 11, 1945.

Ser. No. 493,800. MILWAUKEE LACE PAPER COMPANY, Milwaukee, Wis. Filed Dec. 22, 1945.



FOR PAPER CUPS.
Claims use since July 11, 1945.

Ser. No. 501,126. WILLIAM J. FRY, Chicago, Ill. Filed Apr. 29, 1946.

GUARDIAN

FOR PLASTIC CONTAINERS FOR WAXED CARDBOARD MILK CARTONS.
Claims use since Mar. 1, 1946.

Ser. No. 515,360. Anco Manufacturing & Supply Company, Tulsa, Okla. Filed Jan. 7, 1947.

FOR METALLIC, BULK TANKS AND CYLINDERS FOR LIQUEFIED PETROLEUM GASES.
Claims use since Oct. 1, 1946.

Ser. No. 516,059. Brill Metal Fabricators, Jersey City, N. J. Filed Jan. 21, 1947.

"PEDDO"

FOR HAMPERS AND GARBAGE CANS.
Claims use since July 2, 1946.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 502,121. Clover Bags, New York, N. Y. Filed May 15, 1946.

No claim is made to the exclusive use of the word "Bag" apart from the mark as shown.
FOR LADIES' HANDBAGS MADE OF NATURAL AND ARTIFICIAL LEATHER, NATURAL AND SYNTHETIC FABRICS AND PLASTICS.
Claims use since Dec. 12, 1945.

Ser. No. 502,539. A. G. Spalding & Bros. Inc., Chicopee, Mass. Filed May 21, 1946. Under section 5b of the act of 1905 as amended in 1920 as to "Spalding."

Applicant is the owner of the registered trade-mark "Spalding," registrations Numbers 56,738 and 62,632, both renewed and both effected under the 10-year proviso.
FOR HAND LUGGAGE AND SUITCASES.
Claims use since Jan. 1, 1900.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 467,822. Fred P. Stewart, Miami Beach, Fla. Filed Feb. 28, 1944.

The terms "Pak" and "Stewart's Concentrated Cleaning Products" are disclaimed apart from the mark.
FOR CONCENTRATED CLEANING PRODUCT—NAMELY, A GENERAL PURPOSE CLEANER.
Claims use since Feb. 20, 1943.

Ser. No. 496,177. Alice L. Fernandez, doing business as Victory Enterprises, New York, N. Y. Filed Feb. 7, 1946.

SPIFFIT

FOR CLEANER FOR POTS AND PANS, WOODWORK, AND PAINTED SURFACES.
Claims use since Nov. 10, 1945.

Ser. No. 496,179. Alice L. Fernandez, doing business as Victory Enterprises, New York, N. Y. Filed Feb. 7, 1946.

TIDY-DIDY

No claim is made to the word "Didy" apart from the mark.
FOR CLEANER FOR DIAPERS, CLOTHES AND OTHER FABRICS.
Claims use since Nov. 10, 1945.

Ser. No. 496,851. The Marwin Company, West Caldwell, N. J. Filed Feb. 18, 1946.

"C-RO"

FOR METALLOGRAPHIC ABRASIVES AND MATERIALS—NAMELY, A METALLOGRAPHIC POLISHING COMPOUND.
Claims use since Nov. 1, 1945.

Ser. No. 498,061. Earl Grissmer Company, Anderson, Ind. Filed Mar. 12, 1946.

FOR CLEANER FOR RUGS, UPHOLSTERY, WOOLENS, CANVAS, SILKS, MOHAIRS, TAPESTRIES, FELT, AND PANAMA HATS, ETC.
Claims use since Feb. 7, 1946.

Ser. No. 500,768. Helene Pessl, Inc., New York, N. Y. Filed Apr. 23, 1946.

Applicant disclaims sole use of the words "For Baby" apart from the mark.
FOR SOAP.
Claims use since May 1942.

Ser. No. 503,267. Staze, Inc., New York, N. Y. Filed June 4, 1946.

OKAZE

FOR PREPARATION FOR CLEANING DENTURES.
Claims use since May 1, 1946.

Ser. No. 504,099. John J. Duffy, doing business as J. Duffy, New York, N. Y. Filed June 18, 1946.

Applicant disclaims "Brite" apart from the mark.
FOR SUSPENSION MIXTURE OF SOAP, ABRASIVE AND OIL FOR CLEANSING GREASE AND BURNT GREASE RESIDUES AND FOR REMOVING RUST.
Claims use since June 3, 1946.

Ser. No. 504,878. Bontex Laboratories, Pomona, Calif. Filed July 1, 1946.

MANI-KLEEN

No claim is made to the word "Kleen" apart from the mark as shown.
FOR CLEANSER FOR MANIKINS AND SIMILAR PAINTED OR ENAMELED DISPLAY FIXTURES AND BACKGROUNDS.
Claims use since on or about June 1, 1940.

Ser. No. 505,988. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Filed July 20, 1946.

FOR CLEANING COMPOUNDS FOR GENERAL, HOUSEHOLD, PROFESSIONAL, AND COMMERCIAL CLEANING.
Claims use since May 17, 1946; and since May 23, 1936, as to the word "Chevron," without the distinctive showing of the winged "V" in the text of the word.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 470,901. Dermetics, Inc., Seattle, Wash. Filed June 5, 1944.

TEEN AGE

FOR TOILET PREPARATIONS—NAMELY, OILS AND BLENDS OF OILS FOR CLEANSING AND PROTECTING THE SKIN, FACE POWDERS, SKIN ROUGES, LIPSTICKS AND LIP ROUGES, AND BODY POWDERS, PUT UP IN PACKAGES CONTAINING TWO OR MORE OF THE PREPARATIONS.
Claims use since Dec. 29, 1943.

Ser. No. 484,238. Joseph A. Buttny, doing business as JAB Co., Chicago, Ill. Filed June 7, 1945.

SNOWMINT

The word "Mint" is disclaimed apart from the mark.
FOR LIQUID MOUTH WASH.
Claims use since June 1925.

Ser. No. 486,190. THE BONHEUR CO., INC., Brooklyn, N. Y. Filed July 24, 1945.

BONHEUR

FOR HAIR LOTION AND BAY RUM, CLEANSING CREAM AND LEMON CLEANSING CREAM.

Claims use since Dec. 1, 1907.

Ser. No. 489,008. PHILLIPS PHARMACEUTICAL PRODUCTS, INC., Darien, Conn. Filed Sept. 26, 1945.

FAITH ALFRED N. PHILLIPS ANP PRODUCT MARK

The words "Alfred N. Phillips," "Product," and "Mark" are disclaimed apart from the mark.

FOR LINIMENTS FOR THE RELIEF OF NEURALGIA AND MUSCULAR PAIN DUE TO EXERTION AND FATIGUE.

Claims use since Dec. 29, 1944.

Ser. No. 490,399. MARIUS ROTWITT, Copenhagen, Denmark. Filed Oct. 23, 1945.

CAMPHODENT

FOR TOOTH PASTE.

Claims use since Oct. 30, 1942.

Ser. No. 491,072. CRISTOBAL BALENCIAGA EIZAGUIRRE, San Sebastian, Spain. Filed Nov. 5, 1945.

The mark consists of a facsimile of the signature of the applicant.

FOR PERFUMERY ARTICLES—NAMELY, TALCUM POWDERS, TOILET POWDERS, FACE POWDER, POWDERS IN CAKES OR BLOCKS, BATH POWDERS, TOILET WATERS, HAIR LOTIONS, EAU DE COLOGNE, PERFUMES AND ESSENCES, BATH SALTS, SMELLING SALTS, LIQUID DENTIFRICES, TOOTH PASTE, COLD CREAMS, SKIN CREAMS, VANISHING CREAMS, BEAUTY CREAMS, DETERGENT OR CLEANSING CREAMS, ROUGE, ROUGE STICKS, ROUGE CREAM, ROUGE IN CAKES, BRILLIANTINE, POMADES AND HAIR FIXERS, HAIR DYES, SHAMPOO, LIPSTICK, PENCILS FOR THE LIPS, EYEBROWS AND EYELASHES, POMADE FOR THE EYES, EYEBROW STICKS, NAIL POWDERS, ENAMELS AND LACQUER FOR THE NAILS.

Claims use since July 21, 1942.

Ser. No. 493,194. J. E. T. PHARMACAL CO., Allentown, Pa. Filed Dec. 13, 1945.

Edjol

The representation of the portrait is fanciful.

FOR BORIC ACID; DEODORIZING AND SOOTHING FOOT POWDER; ANTISEPTIC SOLUTION USED AS A GARGLE AND MOUTHWASH; RUBBING LINIMENT (FOR MAN OR FOR BEAST) FOR MUSCULAR ACHES AND PAINS; CASTOR OIL; EFFERVESCENT SALINE PREPARATION USABLE AS A LAXATIVE AND CATHARTIC; MILK OF MAGNESIA; EXTRACT OF WITCH HAZEL; CAMPHORATED OIL; OIL OF WINTERGREEN; TONIC COMPOUND (BITTER STOMACHIC AND APPETIZER TONIC); CARCADIA SALVE (FOR MAN OR ANIMAL) AND FIRST AID DRESSING FOR SUPERFICIAL CUTS, ABRASIONS AND BURNS; MINERAL OIL USEFUL AS AN INTERNAL LUBRICANT FOR CONSTIPATION; COD LIVER OIL; COUGH SYRUP; BALSAM COUGH COMPOUND; AROMATIC PREPARATION FOR SUMMER COMPLAINT, COLIC AND CRAMPS; MIXTURE OF HERBS, ROOTS, BARKS AND SEEDS INTO A SO-CALLED LAXATIVE TEA; PERFUMED LAUNDERING STARCH; BLUING IN CRYSTAL FORM USABLE AS A WASHING COMPOUND WITH INCIDENTAL WATER SOFTENING PROPERTIES; PINE OIL DISINFECTANT; MINERALIZED POULTRY POWDER; SPRAYING AND DUSTING INSECTICIDAL POWDER; INSECT SPRAY LIQUID; MEDICATED AND MINERALIZED STOCK POWDER.

Claims use since 1912.

Ser. No. 493,348. HARRY L. GOLDWAG, doing business as Goldicide Laboratories, New York, N. Y. Filed Dec. 15, 1945.

GOLD-I-CIDE

FOR GERMICIDES AND FUNGICIDES.

Claims use since Oct. 23, 1945.

Ser. No. 496,267. PENNEX PRODUCTS CO., INCORPORATED, Pittsburgh, Pa. Filed Feb. 8, 1946.

PennTest

FOR MEDICINAL PREPARATIONS—NAMELY, PURE WHITE PETROLEUM JELLY, RUBBING ALCOHOL COMPOUND, CITRATE OF MAGNESIA, SWEET OIL, PURE GLYCERINE, AND AROMATIC SPIRITS OF AMMONIA.

Claims use since Nov. 15, 1945.

Ser. No. 496,470. REGAL CHEMICAL CORPORATION, Brooklyn, N. Y. Filed Feb. 12, 1946.

MIST-O-MIZER

No claim is made to the word "Mist" apart from the mark.

FOR INSECTICIDE DISPENSERS OF SPECIAL TYPE, IN THE NATURE OF NON-MECHANICAL PRESSURE TYPE CANISTERS CONTAINING INSECTICIDES.

Claims use since Dec. 6, 1945.

Ser. No. 497,972. HARRY SHAPIRO, doing business as Chemical Specialties Company, New York, N. Y. Filed Mar. 9, 1946.

DEL

FOR INSECTICIDAL SHAMPOO.

Claims use since June 1944.

Ser. No. 498,766. HAUGRON CIENTIFICAL, S. A., Barcelona, Spain. Filed Mar. 22, 1946.

Haugrol

FOR PREPARATION FOR SKIN DISEASES, EXTERNAL SKIN WOUNDS AND SCRATCHES AND DISINFECTANT FOR SKIN WOUNDS AND SCRATCHES.

Claims use since Feb. 14, 1927.

Ser. No. 501,001. NEWTON, CHAMBERS & COMPANY LIMITED, near Sheffield, England. Filed Apr. 26, 1946.

IZAL

FOR STARCH AND BLUE FOR LAUNDRY PURPOSES, PERFUMERY, DISINFECTANT FLUIDS, DISINFECTANT POWDERS, DISINFECTANT BLOCKS, ANTISEPTICS, GERMICIDES, INSECTICIDES, DENTIFRICES, GENERAL HEALING OINTMENTS, LANO SKIN CREAMS, THROAT LOZENGES AND LINIMENTS FOR EXTERNAL APPLICATION TO THE BODY FOR THE TREATMENT OF INFLAMMATION, BRUISES, STIFFNESS, MUSCULAR AND RHEUMATIC COMPLAINTS, SORE THROATS, ETC.

Claims use since 1893.

Ser. No. 501,663. GEIGY COMPANY, INC., New York, N. Y. Filed May 8, 1946.

TINOPOL

FOR CHEMICAL AGENT USED IN THE APPLICATION OF DYES AND FOR THE PROCESSING OF TEXTILE MATERIALS.

Claims use since Dec. 1, 1939.

Ser. No. 501,792. THOMAS UNO, doing business as United China Trading Co., Los Angeles, Calif. Filed May 9, 1946.

HOLLYWOOD WOLVES

No claim is made to the word "Hollywood" apart from the mark.

FOR BRILLIANTINE, HAIR OIL, HAND LOTION, TOILET WATER, HAIR WAVE-SETTING PREPARATION, AND COLD CREAM.

Claims use since Apr. 2, 1946.

Ser. No. 502,195. DEWMA COMPANY, South Bend, Ind. Filed May 16, 1946.

DEWMA

FOR GALL STONE REMEDY.

Claims use since Sept. 4, 1922.

Ser. No. 502,384. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed May 18, 1946.

TUINAL

FOR MEDICINAL PREPARATION COMPOSED OF SODIUM PROPYL-METHYL-CARBINYL ALLYL BARBITURATE AND SODIUM ISO-AMYL ETHYL BARBITURATE USED AS A SEDATIVE AND HYPNOTIC.

Claims use since Nov. 6, 1944.

Ser. No. 502,558. Vincent Christina & Company, Inc., New York, N. Y. Filed May 22, 1946.

BISUBSALATE

FOR MEDICINAL PREPARATION FOR USE BY PHYSICIANS FOR THE CHEMOTHERAPY OF SYPHILIS AND ALLIED DISORDERS.

Claims use since Mar. 20, 1945.

Ser. No. 502,644. Lentheric, Incorporated, New York, N. Y. Filed May 23, 1946.

DON QUIJOTE

The mark is the usual title of, and the name of the fictional hero of, the well-known romance by Cervantes.

FOR PERFUMES, TOILET WATERS, AND COSMETIC CREAMS.

Claims use since May 14, 1946.

Ser. No. 503,878. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Chantaco

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,875. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Dogaresse

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,876. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Guitte-Amour

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,878. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Langueur

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,879. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Magnificat

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,880. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Mouky

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,883. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Retour

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,884. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Toutounne

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,885. Jean d'Hennery, Inc., New York, N. Y. Filed June 14, 1946.

Triomphe D'Amour

FOR PERFUME AND TOILET WATER.

Claims use since May 8, 1946.

Ser. No. 503,914. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed June 14, 1946.

MANKILLER

FOR LIPSTICKS.

Claims use since May 15, 1946.

Ser. No. 503,915. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed June 14, 1946.

IN DEEP

FOR LIPSTICKS.

Claims use since May 15, 1946.

Ser. No. 504,041. Farmcraft, Inc., Portland, Oreg. Filed June 17, 1946.

FARMCRAFT

FOR INSECTICIDES.

Claims use since May 31, 1946.

Ser. No. 504,088. Rodolfo Bernal, San Juan, Puerto Rico. Filed June 18, 1946.

CEBAM

FOR VITAMIN PREPARATION USED IN THE TREATMENT OF MALNUTRITION.

Claims use since July 31, 1945.

Ser. No. 504,115. Raphael Lopes, doing business as Maison Raphael, Paris, France. Filed June 18, 1946.

FEU DE PAILLE

FOR PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS.

Claims use since Dec. 29, 1944.

Ser. No. 504,232. William R. Warner & Co., Inc., New York, N. Y. Filed June 19, 1946.

Gelu-cillin

FOR COMPOSITION OF PENICILLIN AND ALUMINUM HYDROXIDE GEL WITH CALCIUM CARBONATE FOR USE IN THE ORAL ADMINISTRATION OF PENICILLIN.

Claims use since May 25, 1946.

Ser. No. 504,233. William R. Warner & Co., Inc., New York, N. Y. Filed June 19, 1946.

Mycinal

FOR COMPOSITION OF PENICILLIN AND ALUMINUM HYDROXIDE GEL WITH CALCIUM CARBONATE FOR USE IN THE ORAL ADMINISTRATION OF PENICILLIN.

Claims use since May 24, 1946.

Ser. No. 504,654. Arnold, Hoffman & Co. Incorporated, Providence, R. I. Filed June 27, 1946.

ACETYLON

FOR COLORING PRODUCTS FOR NATURAL FIBERS, ACETATE, AND SYNTHETIC FIBERS.

Claims use since Apr. 30, 1946.

Ser. No. 504,809. Walker Vitamin Products, Inc., Mount Vernon, N. Y. Filed June 28, 1946.

MULTIDROPS

No claim is made to the word "Drops" apart from the mark.

FOR DIETARY SUPPLEMENT IN LIQUID FORM CONTAINING VITAMINS A AND D AND VITAMIN B-COMPLEX.

Claims use since June 1, 1946.

Ser. No. 504,985. Eugene Levinstein, doing business as Glenbrook Laboratories, Glendale, N. Y. Filed July 2, 1946.

Sylgen

FOR ANALGESIC LOTION FOR TREATMENT OF SUNBURN, NON-POISONOUS INSECT BITES, MINOR SKIN IRRITATIONS, AND RELIEF OF ITCHING.

Claims use since June 24, 1946.

Ser. No. 505,024. Western Exterminating Co., Inc., Newark, N. J. Filed July 2, 1946.

PERIPHENYL

FOR LIQUID AND POWDER INSECTICIDES.

Claims use since Jan. 10, 1946.

Ser. No. 505,086. Frederic J. Trump, doing business as F. J. Trump, Stamford, Conn. Filed July 3, 1946.

Lifetime

FOR CLEANSING CREAM, COLD CREAM, LIPSTICK, FACE ROUGE, FACE POWDER, BATH POWDER, COLOGNE, PERFUME, MASCARA, BATH SALTS, TOOTH PASTE, AFTER-SHAVE LOTION, MINERAL OIL, LEG MAKE-UP, EFFERVESCENT TABLETS, VITAMINS, MOUTH WASH, RUBBING ALCOHOL, WITCH HAZEL, MILK OF MAGNESIA, BAY RUM, COD LIVER OIL, BICARBONATE OF SODA, DOUCHE POWDER, EYE WASH, FOOT BALM, FOOT POWDER, PETROLEUM JELLY, SODIUM CHLORIDE TABLETS, TOOTH POWDER, SUNTAN OIL, SACCHARIN TABLETS, BURN OINTMENT, HAIR TONIC, HAIR OIL, BRILLIANTINE, PENICILLIN OINTMENT, SULFUR OINTMENT, SULFATHIAZOLE OINTMENT, ZINC OXIDE OINTMENT, NOSE DROPS, COUGH SYRUP AND COUGH LOZENGES.
Claims use since May 7, 1946.

Ser. No. 505,271. Louis Philip Mayrand, Greensboro, N. C. Filed July 8, 1946.

SULFANTI

FOR POULTRY REMEDY AS AN AID IN THE CONTROL OF COCCIDIOSIS.
Claims use since Apr. 15, 1945.

Ser. No. 505,444. The Pharma-Craft Corporation, New York, N. Y. Filed July 11, 1946.

HEED

FOR HAIR TONIC.
Claims use since June 10, 1946.

Ser. No. 505,651. Hightower Laboratories, Los Angeles, Calif. Filed July 15, 1946.

TRIAD

FOR MEDICINAL DOSAGES CONTAINING VITAMINS, MINERALS AND HORMONES USED AS A MEDICINAL PREPARATION AND DIETARY SUPPLEMENT FOR TREATMENT OF THE BLOOD, MUSCLES, BONES, NERVOUS SYSTEM AND OTHER PARTS AND ORGANS OF THE BODY.
Claims use since Mar. 26, 1945.

Ser. No. 507,281. Vernan Manufacturing Company, Johnstown, Pa. Filed Aug. 12, 1946.

Dog Groom

Applicant disclaims the word "Dog" separately from the mark.
FOR PRODUCT FOR BRINGING OUT THE LUSTRE AND CONDITIONING THE HAIR OF DOGS.
Claims use since Aug. 1, 1946.

Ser. No. 515,354. Lynn Laboratories, Newburgh, N. Y. Filed Jan. 3, 1947.

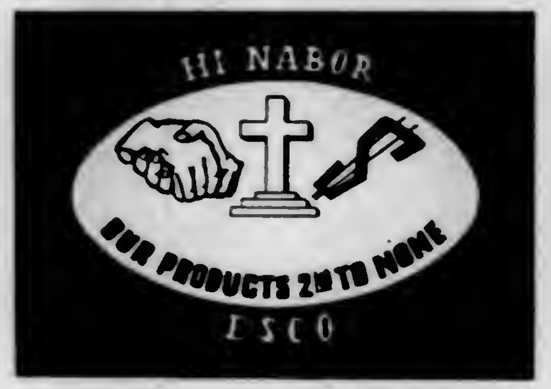
JOPAL

FOR NOSE DROPS, FOR THE RELIEF OF SINUS CONDITIONS.
Claims use since Oct. 28, 1946.

CLASS 7

CORDAGE

Ser. No. 510,496. East Alabama Fabricators, Lafayette, Ala. Filed Oct. 9, 1946.


HI NABOR
OUR PRODUCTS 2ND TO NONE
ESCO

No claim is made to the phrase "Our Products 2nd to None" appearing on the drawing, apart from the mark.
FOR ROPE AND SASH CORDS.
Claims use since Sept. 9, 1946.

CLASS 10

FERTILIZERS

Ser. No. 502,860. Universal Zonolite Insulation Company, Chicago, Ill. Filed May 27, 1946.

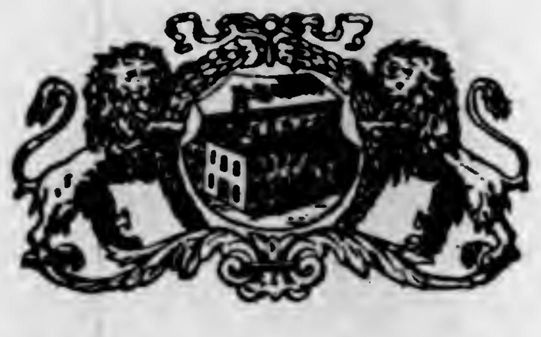
Terra-Lite

FOR FERTILIZER PREPARATION USED TO AERATE THE SOIL.
Claims use since Oct. 19, 1943.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 488,216. Gold Leaf and Metallic Powders Co., New York, N. Y., assignor to Gold Leaf and Metallic Powders Inc., New York, N. Y. Filed Sept. 10, 1945.



FOR BRONZE POWDER, ALUMINUM POWDER, COPPER POWDER, MAGNESIUM POWDER, METALS OF ALL TYPES IN POWDERED FORM, ALL OF AFOREMENTIONED METAL POWDERS BEING USED FOR MAKING INKS, ALUMINUM PASTE FOR MAKING INKS, IMITATION TRANSFER GOLD LEAF, AND IMITATION TRANSFER SILVER LEAF.
Claims use since Jan. 27, 1941.

Ser. No. 506,011. Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Filed July 22, 1946.

TITAN

FOR CARBON PAPER.
Claims use since January 1919.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 491,526. Trimedge, Inc., Youngstown, Ohio. Filed Nov. 13, 1945.

Trimalite

FOR METALLIC AND PLASTIC MOULDINGS FOR USE IN FINISHING THE EDGES OF COUNTERS, WALL BOARDS, AND THE LIKE.
Claims use since July 13, 1945.

Ser. No. 491,527. Trimedge, Inc., Youngstown, Ohio. Filed Nov. 13, 1945.

Veltrim

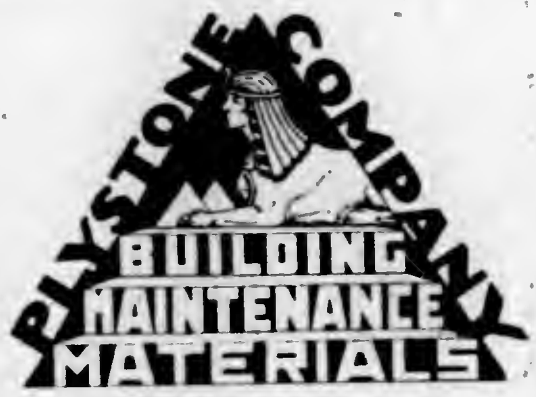
FOR METALLIC AND PLASTIC MOULDINGS FOR USE IN FINISHING THE EDGES OF COUNTERS, WALL BOARDS, AND THE LIKE.
Claims use since July 13, 1945.

Ser. No. 492,478. United States Plywood Corporation, New York, N. Y. Filed Nov. 30, 1945.

TEMPREG

FOR IMPREGNATED PAPER MATERIALS, MARKETED AS A SINGLE PLY, AND AS A LAMINATED ASSEMBLY COMPRISING AT LEAST ONE PLY OF IMPREGNATED PAPER, WHEREIN THE OTHER PLIES COMPRISE IMPREGNATED PAPER, CELLULOSE ACETATE, OR "HONEYCOMB" CONSTRUCTION OF RESIN IMPREGNATED PAPER OR FABRIC, FOR CONSTRUCTION PURPOSES.
Claims use since about Jan. 27, 1944.

Ser. No. 498,259. Carl M. Shelton, doing business as Plystone Company, Columbia, S. C. Filed Mar. 14, 1946.



The words "Company," "Building," "Maintenance," and "Materials" are disclaimed apart from the mark.
FOR SEMI-LIQUID FLOOR RESURFACING MATERIAL HAVING AN ASPHALTIC BASE AND ADAPTED FOR USE WITH WOOD, CONCRETE, AND/OR COMPOSITION FLOORS.
Claims use since Feb. 11, 1946.

Ser. No. 504,634. Robert Frank Rosser, Miami, Fla. Filed June 26, 1946.

SPEEDWAY

FOR CLAMP FOR HOLDING CONCRETE FORMS.
Claims use since Mar. 27, 1946.

Ser. No. 504,800. Standard Fuel Engineering Company, Detroit, Mich. Filed June 28, 1946.

ZERO STAR

FOR FIRE BRICK.
Claims use since on or about Jan. 1, 1945.

Ser. No. 505,469. Allied Chemical & Dye Corporation, New York, N. Y. Filed July 12, 1946.

ANCHOR-LOK

Registration rights to the word "Lok," per se, are disclaimed.

FOR FELT BASE SHINGLES.

Claims use since May 14, 1946.

Ser. No. 510,129. The Structural Insulation Corporation, Quincy, Ill. Filed Oct. 2, 1946.

CEMEX

FOR BUILDING BOARD COMPOSED OF CEMENT AND EXCELSIOR FOR USE AS A COMBINED SHEATHING AND PLASTER, NON-BEARING PARTITION WALLS, INSULATIONS, ROOF DECKING, ETC.

Claims use since July 11, 1946.

Ser. No. 511,825. Modern Materials Inc., Los Angeles, Calif. Filed Oct. 31, 1946.

M/M

FOR ASPHALTS AND ASPHALT COMPOUNDS IN SOLID OR SEMI-SOLID BULK FORM FOR USE IN ROOFING CONSTRUCTION.

Claims use since Aug. 25, 1946.

Ser. No. 513,823. The Goldsmith Metal Lath Co., Cincinnati, Ohio. Filed Dec. 6, 1946.

METRODECK

FOR METAL ROOF DECK.

Claims use since Nov. 1, 1935.

Ser. No. 515,198. Reflectal Corporation, New York, N. Y. Filed Jan. 2, 1947.

ALFOL

The trade-mark consists of the word "Alfol."

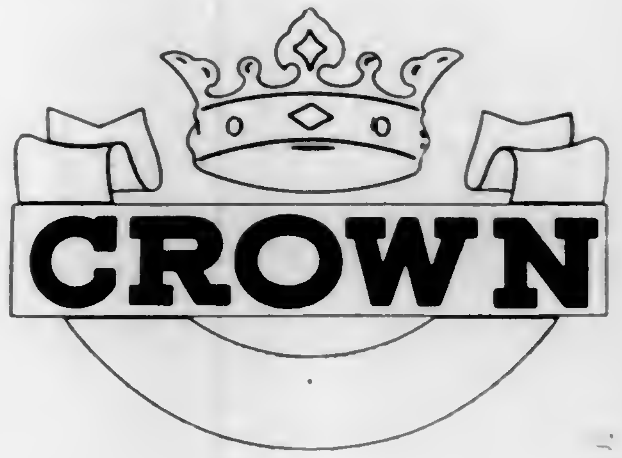
FOR HEAT PROTECTING AND INSULATING MATERIAL, SPECIFICALLY COMBINATIONS OF BRIGHT METAL FOIL WITH NON-METALLIC BODIES SUCH AS PAPER.

Claims use since Dec. 1, 1930.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 508,102. Crown Fastener Corporation, Warren, R. I. Filed Aug. 27, 1946.



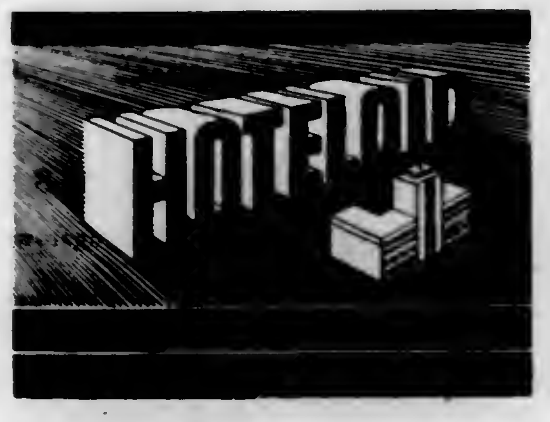
FOR SEPARABLE SLIDE FASTENERS KNOWN AS "ZIPPERS."

Claims use since May 27, 1946.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 492,887. Atlas Paint and Varnish Co., Inc., New York, N. Y. Filed Dec. 8, 1945.



The drawing is lined for shading.

FOR READY-MIXED PAINTS, VARNISHES, AND PAINT ENAMELS.

Claims use since Nov. 8, 1945.

Ser. No. 498,577. Binney & Smith Company, New York, N. Y. Filed Mar. 20, 1946.

CORESINBLAK

FOR PRODUCT COMPOSED OF CARBON BLACK, RESIN AND SOLVENT FOR COLORING PAINTS AND PROTECTIVE COATINGS.

Claims use since June 22, 1938.

Ser. No. 507,533. Kelco Company, San Diego, Calif. Filed Aug. 16, 1946.

KELTEX

FOR ALGIN PRODUCT FOR USE IN WATER PAINTS, SUCH AS THE RESIN EMULSION TYPE PAINTS AND THOSE CONTAINING PROTEIN BINDERS, AS A SUSPENDING AND VISCOSITY CONTROLLING AGENT AND TO IMPROVE THE BRUSHING CHARACTERISTICS.

Claims use since Apr. 6, 1937.

Ser. No. 508,096. Celanese Corporation of America, New York, N. Y. Filed Aug. 27, 1946.

CELCON

FOR AIRPLANE AND AIRCRAFT DOPES, LACQUERS, AUTOMOBILE AND FURNITURE POLISHES, PAINT AND LACQUER PRIMERS AND FILLERS.

Claims use since Aug. 16, 1946.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 501,016. John Sinclair Limited, Newcastle-on-Tyne, England. Filed Apr. 26, 1946.

AMERICAN COCK TAIL

No claim is made to the exclusive use of the word "American" apart from the mark.

FOR SMOKING TOBACCO AND CIGARETTES.

Claims use since May 17, 1906.

Ser. No. 501,017. John Sinclair Limited, Newcastle-on-Tyne, England. Filed Apr. 26, 1946.

BARNEYS

FOR SMOKING TOBACCO AND CIGARETTES.

Claims use since May 31, 1905.

Ser. No. 506,257. Christian Peper Tobacco Company, St. Louis, Mo. Filed July 25, 1946.

FIFTH AVENUE

FOR CIGARETTES AND SMOKING TOBACCO.

Claims use since Jan. 24, 1905.

Ser. No. 506,975. Welwel Cigar Mfg. Co., New York, N. Y. Filed Aug. 6, 1946.

Welwel

FOR CIGARS.

Claims use since May 15, 1921.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 488,934. Sears, Roebuck and Co., Chicago, Ill. Filed Sept. 24, 1945.

DURAWALL

FOR FIBRE BASE ENAMELED SURFACE WALL-COVERING.

Claims use since January 1944.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 465,240. Whitty Company, Inc., Boston (Brighton), Mass. Filed Nov. 28, 1943.

OPTIMATIC CONTROL

No claim is made to the word "Control" apart from the mark.

FOR ELECTRICAL CONTROLS FOR STOKERS.

Claims use since September 1938.

Ser. No. 491,950. Leland J. Arms, San Francisco, Calif. Filed Nov. 21, 1945.

Magnetic Autograph

The word "Magnetic" is disclaimed apart from the mark.

FOR SOUND RECORDINGS OF THE MAGNETIZED WIRE TYPE.

Claims use since Oct. 29, 1945.

Ser. No. 492,532. Telicon Corporation, New York, N. Y. Filed Dec. 1, 1945.

TELICON

FOR RADIO AND TELEVISION RECEIVING SETS AND RADIO AND TELEVISION SIGNAL TRANSMISSION SETS AND COMPONENT PARTS THEREOF.

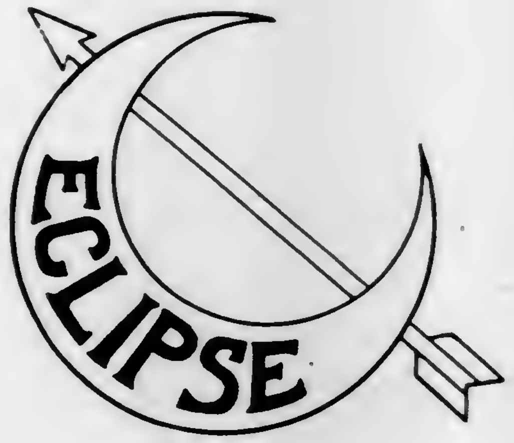
Claims use since Nov. 7, 1945.

Ser. No. 497,727. Londex Limited, London, England. Filed Mar. 6, 1946.

LONDEX

FOR ELECTRIC AND MAGNETIC RELAYS AND PARTS THEREOF.
Claims use since June 5, 1944.

Ser. No. 503,418. Bendix Aviation Corporation, Teterboro, N. J. Filed June 7, 1946.



FOR ELECTRIC MOTORS, GENERATORS, MAGNETOS, AUXILIARY ELECTRIC POWER SUPPLY SYSTEMS, CUTOUT SWITCHES, SOLENOID OPERATED SWITCHES AND ACTUATORS FOR ACCESSORIAL USE IN AIRCRAFT OPERATION, CONTROL SWITCHES, ELECTRIC CONTROL PANELS AND BOXES, CURRENT REGULATORS, VOLTAGE REGULATORS, DYNAMOTORS, VIBRATOR COILS, RELAY SWITCHES, ELECTRIC FILTERS, ALTERNATORS, INVERTERS, MOTOR GENERATOR SETS, ELECTRO-PNEUMATIC VALVES, AND ELECTRIC TIMING DEVICES OF THE ELECTRONICALLY CONTROLLED, ROTARY SWITCH, AND ELECTRO-PNEUMATIC TYPES FOR CONTROLLING THE OPERATION OF MECHANISMS USEFUL IN THE PREVENTION OF THE ACCUMULATION OF ICE ON OR THE REMOVAL OF ICE FROM EXPOSED SURFACES OF AIRCRAFT, AND PARTS THEREOF.

Claims use on electric motors and generators since on or about 1923; auxiliary electric power supply systems since on or about October 1927; cutout switches since on or about February 1928; control switches and magnetos since on or about June 1928; solenoid operated switches and actuators for accessorial use in aircraft operation, electric control panels and boxes, current regulators, and voltage regulators since on or about September 1928; dynamotors since on or about September 1929; vibrator coils and relay switches since on or about February 1930; electric filters since on or about July 1931; alternators since on or about September 1931; electro-pneumatic valves, and electric timing devices for controlling the operation of mechanisms useful in the prevention of the accumulation of ice on or the removal of ice from exposed surfaces of aircraft since on or about June 1931; inverters since on or about June 1940; and motor generator sets since on or about June 1941.

Ser. No. 503,725. Gyco Instruments, Inc., Bloomfield, N. J. Filed June 12, 1946.

GYCO
PYRO-TRAN

FOR VARIABLE TRANSFORMERS.
Claims use since February 1946.

Ser. No. 508,646. Cutler-Hammer, Inc., Milwaukee, Wis. Filed Sept. 7, 1946.

ZIP GRID

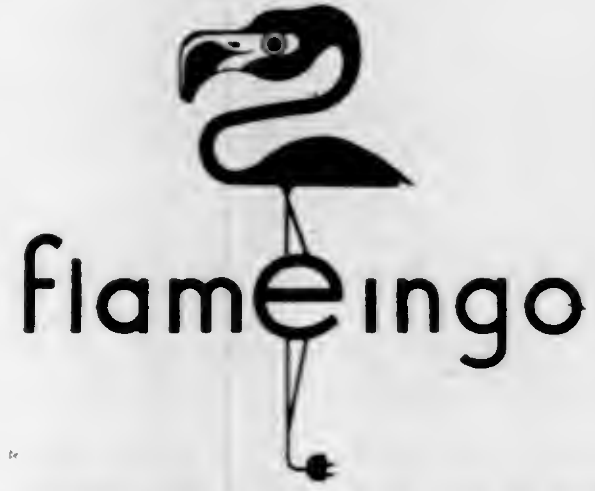
The word "Grid" is disclaimed for registration purposes apart from the mark.
FOR SURFACE HEATING UNITS FOR ELECTRIC RANGES.
Claims use since Aug. 30, 1946.

Ser. No. 509,486. L. Wolf & Company, Chicago, Ill. Filed Sept. 20, 1946.

ArtGlo

The word "Glo," apart from the mark, is disclaimed.
FOR ELECTRIC FLOOR AND TABLE LAMPS AND SHADES THEREFOR.
Claims use since Mar. 6, 1946.

Ser. No. 509,566. De Lisser Manufacturing Corp., New Rochelle, N. Y. Filed Sept. 23, 1946.



The representation of the electric plug is disclaimed apart from the mark.
FOR ELECTRIC HOUSEHOLD APPLIANCES—NAMELY, COMBINATION BROILER AND ROTISSERIE.
Claims use since Aug. 27, 1946.

Ser. No. 509,815. Automatic Temperature Control Co., Inc., Philadelphia, Pa. Filed Sept. 27, 1946.

atc

FOR ELECTRIC MOTORIZED OPERATORS FOR VALVES; ELECTRIC MOTORIZED CONTROLS FOR THE OPERATION OF BURNERS; ELECTRIC MOTORIZED DRIVES FOR DAMPERS AND THE LIKE, ELECTRIC TIME CONTROL SWITCHES FOR THE CONTROL OF OPERATIONS IN SYNCHRONY; ELECTRIC CURRENT INPUT CONTROLLERS; ELECTRICAL CONTROL RELAYS; ELECTRICAL REMOTE POSITION SWITCH CONTROLS.
Claims use since Dec. 15, 1929.

Ser. No. 509,816. Automatic Temperature Control Co., Inc., Philadelphia, Pa. Filed Sept. 27, 1946.

atc

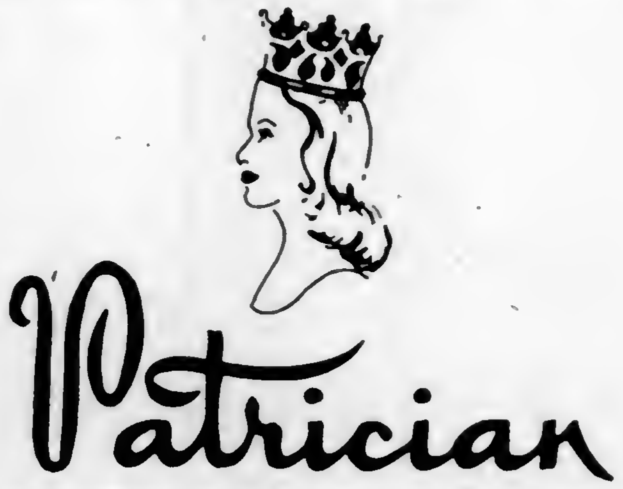
FOR ELECTRIC MOTORIZED OPERATORS FOR VALVES; ELECTRIC MOTORIZED CONTROLS FOR THE OPERATION OF BURNERS; ELECTRIC MOTORIZED DRIVES FOR DAMPERS AND THE LIKE; ELECTRIC TIME CONTROL SWITCHES FOR THE CONTROL OF OPERATIONS IN SYNCHRONY; ELECTRIC CURRENT INPUT CONTROLLERS; ELECTRICAL CONTROL RELAYS; ELECTRICAL REMOTE POSITION SWITCH CONTROLS.
Claims use since Dec. 15, 1929.

Ser. No. 510,272. The Okonite Company, Passaic, N. J. Filed Oct. 4, 1946.

OKOBESTOPRENE

FOR NON-METALLIC TAPE, NON-METALLIC SHEATHS AND INSULATION FOR ELECTRIC CABLES.
Claims use since January 1946.

Ser. No. 510,841. Max Horn, Zerner & Lewis, Inc., New York, N. Y. Filed Oct. 14, 1946.



The representation of a woman's head is entirely fanciful.
FOR CHINA AND CRYSTAL ELECTRIC TABLE AND FLOOR LAMPS.
Claims use since Sept. 9, 1946.

Ser. No. 511,331. Kingston-Conley Electric Company, North Plainfield, N. J. Filed Oct. 23, 1946.

K·C

FOR ELECTRIC MOTORS.
Claims use since Sept. 8, 1934.

Ser. No. 511,735. Ekco Products Company, Chicago, Ill. Filed Oct. 30, 1946.

EKCO

FOR FLASHLIGHTS.
Claims use since Mar. 20, 1946.

Ser. No. 511,736. Ekco Products Company, Chicago, Ill. Filed Oct. 30, 1946.

EKCO

FOR FLASHLIGHTS.
Claims use since Mar. 20, 1946.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 490,679. MARTIN FISH LURE Co., Seattle, Wash. Filed Oct. 29, 1945.

hotter'n'ell

FOR FISH LURES AND FISH BAITING DEVICES—NAMELY, PLUGS, HEAD STALLS FOR MINNOWS, AND FISHING SPOONS.
Claims use since Mar. 1, 1945.

Ser. No. 496,793. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Beauty Rose

The word "Beauty" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Feb. 10, 1943.

Ser. No. 496,794. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Bonnie Blue Bell

The word "Bonnie" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

Ser. No. 496,810. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Little Nanny Etticoat

The word "Little" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

Ser. No. 496,812. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Little Rosie

The word "Little" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Sept. 1, 1945.

Ser. No. 496,814. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Lizbeth Long Frock

The words "Long Frock" are disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

Ser. No. 496,828. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Pretty Kitty

The word "Pretty" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 30, 1945.

Ser. No. 496,829. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Princess Beauty

The word "Beauty" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Feb. 10, 1943.

Ser. No. 496,833. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Sleeping Beauty

The word "Beauty" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

Ser. No. 496,840. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Tiny Tina

The word "Tiny" is disclaimed apart from the mark as shown.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

Ser. No. 497,399. MINICRAFTERS OF BALTIMORE, Baltimore, Md. Filed Feb. 28, 1946.

Minicrafters

FOR TOY AND MODEL AIRPLANES AND PARTS THEREOF MADE OF WOOD, PLASTIC, METAL, AND COMPOSITION.
Claims use since October 1945.

Ser. No. 497,510. THRILOPLANE COMPANY, Los Angeles, Calif. Filed Mar. 1, 1946.

THRILOPLANE

Applicant disclaims the word "Plane" apart from the mark.
FOR TOY MERRY-GO-ROUNDS.
Claims use since Feb. 23, 1946.

Ser. No. 497,526. IRVING BRODSKY, doing business as Baby Craft Carriage Co., Brooklyn, N. Y. Filed Mar. 2, 1946.

BABY CRAFT

The word "Craft" is disclaimed apart from the mark.
FOR DOLL CARRIAGES.
Claims use since January 1941.

Ser. No. 505,812. ELECTRONIC UNITS, INC., Dayton, Ohio. Filed July 18, 1946.

"Jumping Jo"

Applicant disclaims the word "Jumping" apart from the mark.
FOR ARTIFICIAL FISH LURES.
Claims use since Dec. 21, 1945.

Ser. No. 507,919. MAC-RAY PRODUCTS, Detroit, Mich. Filed Aug. 23, 1946.

Atomic Flyer

FOR TOY VELOCIPEDES.
Claims use since June 18, 1946.

Ser. No. 512,944. WILKENING MANUFACTURING COMPANY, Philadelphia, Pa. Filed Nov. 20, 1946.

SPANKY

FOR TOY COMPRISING A PADDLE TO WHICH IS AFFIXED ONE END OF A HELICAL COIL OF RESILIENT STEEL OR THE LIKE, THE OTHER END OF WHICH IS FREE.
Claims use since Nov. 8, 1946.

Ser. No. 515,352. ELEANOR F. KLAUBER, doing business as Klauber Novelty Co., Chicago, Ill. Filed Jan. 3, 1947.

ROYAL
KENO

Applicant disclaims the word "Keno," except in combination with the other features of the mark.
FOR CARD GAMES.
Claims use since about Aug. 1, 1946.

Ser. No. 515,358. AMERICAN METALCRAFT CORPORATION, Detroit, Mich. Filed Jan. 7, 1947.

Roadster

FOR TOY SCOOTERS.
Claims use since Mar. 10, 1946.

Ser. No. 516,190. F. A. JOHNSTON, JR. AND ASSOCIATES, INC., St. Louis, Mo. Filed Jan. 23, 1947.

DERBY WINNER

FOR GAME—NAMELY, A CONTEST FOR AMUSEMENT INVOLVING THE USE OF A MULTIPLE-GROOVE PHONOGRAPH RECORD CONTAINING RECORDINGS OF HORSE RACES WITH ANNOUNCEMENTS, THE GAME INCLUDING OTHER EQUIPMENT THE USE OF WHICH IS COORDINATED WITH SAID RECORD IN ATTAINING A VARIETY OF GAME RESULTS.
Claims use since Jan. 13, 1947.

Ser. No. 518,390. R & E DOLL & NOVELTY CO., New York, N. Y. Filed Mar. 3, 1947.

WONDER SKIN

Applicant disclaims the word "Skin" separately from the mark as shown.
FOR RUBBER DOLLS.
Claims use since Feb. 20, 1947.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 482,509. SMITH-JOHNSON CORPORATION, Los Angeles, Calif. Filed Apr. 23, 1945.

SENACON

FOR MACHINE TOOL EQUIPMENT—NAMELY, CYLINDER AND PISTON TYPE AIR MOTORS, VICES, FEEDS FOR DRILL PRESSES AND OPERATIONAL CONTROLS FOR PNEUMATIC CYLINDER AND PISTON MECHANISMS.
Claims use since Oct. 20, 1941.

Ser. No. 500,113. Molloy Machine Corporation, Chicago, Ill. Filed Apr. 12, 1946.

WOOLMASTER

FOR INSULATION BLOWING MACHINES OF THE TYPE CONSISTING OF A POWER UNIT AND A BLOWER FOR USE GENERALLY WITH A DUCT IN THE INTERNAL AND EXTERNAL APPLICATION OF INSULATING MATERIAL SUCH AS ROCK WOOL, FIBER WOOL AND THE LIKE.

Claims use since Mar. 29, 1946.

Ser. No. 500,633. Spotnails, Inc., Chicago, Ill. Filed Apr. 20, 1946.

SPOTNAILS

FOR MACHINES FOR DRIVING SECURING ELEMENTS IN THE NATURE OF NAILS.

Claims use since Aug. 29, 1941.

Ser. No. 500,828. Glenn M. Rogers, Inc., Buffalo, N. Y. Filed Apr. 24, 1946.

WIRE WINDER
BUZZ SAW **SIX** **SNOW PLOW**
ROGERS
BUCK RAKE **STAR** **BULL DOZER**
PORTABLE HOIST

The words "Wire Winder," "Snow Plow," "Bull Dozer," "Portable Hoist," "Buck Rake," "Buzz Saw," and the surname "Rogers" are disclaimed, apart from the mark.

FOR UNITARY STRUCTURES FOR APPLICATION TO AND MOUNTING UPON THE FRAMES OF FARM AND INDUSTRIAL TRACTORS FOR THE SUPPORT OF VARIOUS INSTRUMENTALITIES AND THEIR ASSOCIATED MECHANISMS FOR FARM AND INDUSTRIAL USES, FOR EXAMPLE WIRE WINDERS, SNOW PLOW BLADES, BULL DOZER BLADES, WINCHES, SWEEP RAKES, AND BUZZ SAWS.

Claims use since Apr. 10, 1946.

Ser. No. 502,609. Adams Plastics Co., Inc., Holyoke, Mass. Filed May 23, 1946.

Pakkawood

FOR CUTLERY HANDLES AND PICKER STICKS MADE OF WOOD.

Claims use since January 1945.

Ser. No. 502,696. Ideal Industries, Inc., Sycamore, Ill. Filed May 24, 1946.

The drawing is lined for shading only. The word "Air" apart from the mark shown is disclaimed.

FOR PNEUMATIC TOOLS—NAMELY, RIVETING HAMMERS.

Claims use since Jan. 28, 1946.

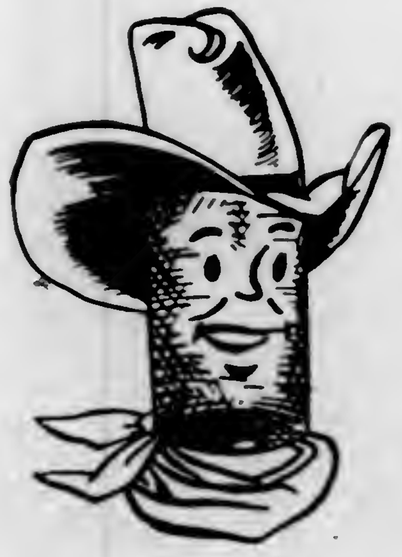
Ser. No. 502,855. Kingston F. Swallow, Milwaukee, Wis. Filed May 27, 1946.

Champliers

FOR CORK PULLERS.

Claims use since May 15, 1946.

Ser. No. 503,534. Charles W. Simonsen, doing business as Air Cleaner Service Company, Glencullen, Oreg. Filed June 8, 1946.



FOR AIR CLEANERS AND OIL FILTERS AND FILTER ELEMENTS; FOR ALL TYPES OF COMBUSTION ENGINES.

Claims use since Mar. 1, 1939.

Ser. No. 504,754. Dempster Brothers, Incorporated, Knoxville, Tenn. Filed June 28, 1946.

DEMPSTER
MIXXSTER

The surname "Dempster" is disclaimed apart from its association with the mark shown.

FOR MACHINES FOR PREPARING AGGREGATES FOR THE MANUFACTURE OF CONCRETE BLOCKS.

Claims use since Apr. 15, 1946.

Ser. No. 505,532. Delmer D. Terrill, doing business as D. D. Terrill Saw Company, Bangor, Maine. Filed July 12, 1946.

WHITEND

FOR SAW BLADES AND PARTICULARLY PULP SAW BLADES.

Claims use since Nov. 6, 1935.

Ser. No. 506,068. Tool Specialty Co., Los Angeles, Calif. Filed July 22, 1946.

TOSCO

FOR METAL WORKING TOOLS INCLUDING BITS, MILLING CUTTERS, REAMERS, AND ROUTERS, ALL TIPPED WITH TUNGSTEN CARBIDE ALLOYS.

Claims use since November 1944.

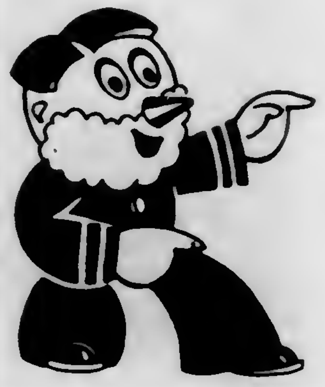
Ser. No. 506,889. The Oil City Brass Works, Beaumont, Tex. Filed Aug. 5, 1946.

TALL BOY

FOR TRAWLER BLOCKS DESIGNED FOR USE IN THE FISHING INDUSTRY.

Claims use since Apr. 3, 1943.

Ser. No. 507,337. Pal Blade Co., Inc., New York, N. Y. Filed Aug. 13, 1946.



The mark consists of a representation of a fanciful or grotesque figure of a man.

FOR RAZOR BLADES.

Claims use since September 1939.

Ser. No. 509,690. Best Manufacturing & Equipment Company, Wichita, Kans. Filed Sept. 25, 1946.

No rights are claimed for the word "Mower" apart from the mark.

FOR LAWN MOWERS.

Claims use since Mar. 12, 1946.

Ser. No. 509,719. John G. Palmer, Chicago, Ill. Filed Sept. 25, 1946.

John G. Palmer

The mark is the autograph signature of the applicant, John G. Palmer.

FOR RAZOR BLADES.

Claims use since Sept. 5, 1946.

Ser. No. 509,936. Gillette Safety Razor Company, Boston, Mass. Filed Sept. 28, 1946.

TRIS

FOR SAFETY RAZOR BLADES.

Claims use since Sept. 16, 1946.

Ser. No. 510,009. David A. Christianson Associates, Inc., New York, N. Y. Filed Oct. 1, 1946.

daca

FOR RAZOR BLADES.

Claims use since Feb. 7, 1946.

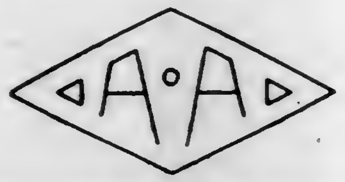
Ser. No. 510,133. Unsinger-A P Corporation, Fremont, Ohio. Filed Oct. 2, 1946.

BARFLEX

FOR RAZOR BLADES.

Claims use since July 14, 1936.

Ser. No. 510,154. The Atlas-Ansonia Company, North Haven, Conn. Filed Oct. 3, 1946.



FOR ROPE TIGHTENERS, COMBINATION GARDEN RAKES AND HOES, KNIFE SHARPENERS, POINTING TROWELS, BRICK TROWELS, PLASTERING TROWELS, PUTTY KNIVES, AND PAINTERS' SCRAPERS.

Claims use since Apr. 25, 1946, on rope tighteners; since Apr. 29, 1946, on combination garden rakes and hoes; since May 10, 1946, on knife sharpeners; since July 10, 1946, on pointing trowels and brick trowels and plastering trowels; and since Sept. 27, 1946, on putty knives and painters' scrapers.

Ser. No. 510,283. Southern Saw Works, Inc., East Point, Atlanta, Ga. Filed Oct. 4, 1946.

EXTRA X

FOR SAW BITS AND SAW SHANKS.

Claims use since June 22, 1926.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 510,472. The Apex Electrical Manufacturing Co., Cleveland, Ohio. Filed Oct. 9, 1946.

Semimatic

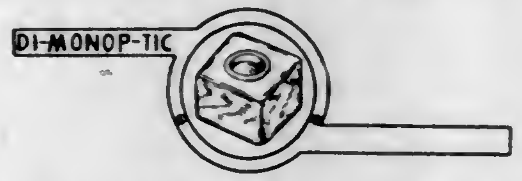
FOR CLOTHES WASHING MACHINES.

Claims use since Oct. 3, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 494,130. Milton R. Schnair, doing business as M. R. Schnair & Co., Chicago, Ill. Filed Dec. 29, 1945.



Applicant disclaims exclusive right to the representation of the goods, though without affecting applicant's common-law rights.

FOR RECEPTACLE-LIKE DEVICE HAVING A MAGNIFYING ELEMENT MOUNTED IN ITS UPPER WALL THROUGH WHICH JEWELRY AND MERCHANDISE ARTICLES MAY BE VIEWED IN ENLARGED FORM.

Claims use since Oct. 29, 1945.

Ser. No. 500,262. Floyd Todd, doing business as Todd Scientific Co., Springfield, Pa. Filed Apr. 15, 1946.

HYDRO-VAC

FOR MERCURY DIFFUSION PUMPS.

Claims use since Apr. 2, 1946.

Ser. No. 504,113. J. E. Lonergan Company, Philadelphia, Pa. Filed June 18, 1946.

THE Lonergan MAXIMON

No claim is made to the name "Lonergan" apart from the mark.

FOR INSTRUMENTS FOR MECHANICALLY INDICATING AND/OR RECORDING PRESSURES AND TEMPERATURES OF LIQUIDS, VAPORS, AND GASES.

Claims use since May 15, 1946.

Ser. No. 504,417. Artex Co., Union, N. J. Filed June 22, 1946.

PANEX

FOR PHOTOGRAPHIC FILM, SENSITIZED PHOTOGRAPHIC PAPER, CAMERAS AND PROJECTORS, AND PARTS THEREOF.

Claims use since June 18, 1946.

Ser. No. 505,657. The Lufkin Rule Company, Saginaw, Mich. Filed July 15, 1946.

HI-WAY

FOR TAPE MEASURES.

Claims use since Dec. 1, 1932.

Ser. No. 505,658. The Lufkin Rule Company, Saginaw, Mich. Filed July 15, 1946.

SUPER HI-WAY

FOR TAPE MEASURES.

Claims use since June 20, 1946.

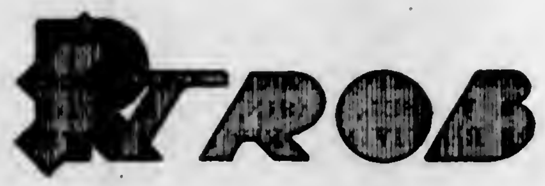
Ser. No. 506,925. The Garrett Corporation (AiResearch Manufacturing Company Division), Los Angeles, Calif. Filed Aug. 6, 1946.

AIRESEARCH

FOR AUTOMATIC CONTROLLING VALVE UNITS FOR REGULATING AIR PRESSURE IN COMPARTMENTS OF AIRCRAFT, SAID VALVE BEING CONTROLLED IN ACCORDANCE WITH THE DIFFERENTIAL BETWEEN COMPARTMENT PRESSURE AND PRESSURE IN A CONTROL CHAMBER.

Claims use since July 11, 1941.

Ser. No. 508,320. Strobo Research, Milwaukee, Wis. Filed Aug. 30, 1946.



The lining on the drawing represents the red color currently used.

FOR APPARATUS AND ACCESSORIES USED IN PRODUCING A HIGH SPEED LIGHT SOURCE FOR PHOTOGRAPHIC PURPOSES AND WHICH APPARATUS CONSISTS OF FLASH UNITS, FLASH LAMPS, FLASH TUBES, CONTROL AND POWER CABLES AND PARTS.

Claims use since Nov. 9, 1945.

Ser. No. 509,406. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Sept. 20, 1946.

Lumenized

FOR PHOTOGRAPHIC LENSES.

Claims use since Apr. 1, 1946.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 505,118. National Pressure Cooker Company, Eau Claire, Wis. Filed July 5, 1946.

Presto Timer

Exclusive right to the use of the word "Timer" is not claimed apart from the mark.

FOR INTERVAL TIMERS TO GIVE AN AUDIBLE SIGNAL AT THE EXPIRATION OF A PREDETERMINED TIME, FOR INNUMERABLE PURPOSES.

Claims use since Nov. 8, 1945.

Ser. No. 509,803. Uris Sales Corp., New York, N. Y. Filed Sept. 26, 1946.

SIRU

FOR WATCHES.

Claims use since Aug. 1, 1946.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 508,198. David Damosa Zakwin, Los Angeles, Calif. Filed Aug. 28, 1946.

Swingband

FOR FINGER RINGS, EARRINGS, METAL WRIST WATCH BANDS (NOT INCLUDING WATCHES), CHATELAINES, AND BRACELETS.

Claims use since June 25, 1946.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 510,241. The Evergreen Broom Manufacturing Company, Pittsburgh, Pa. Filed Oct. 4, 1946.

E
B
C
O

FOR BROOMS AND THE LIKE.

Claims use since Aug. 28, 1946.

Ser. No. 510,875. Boyle-Midway Inc., Jersey City, N. J. Filed Oct. 15, 1946.

WHIRL-A-WAY

FOR MOPS.

Claims use since Feb. 20, 1946.

Ser. No. 515,449. PRESTO MANUFACTURING CO., New York, N. Y. Filed Jan. 8, 1947.

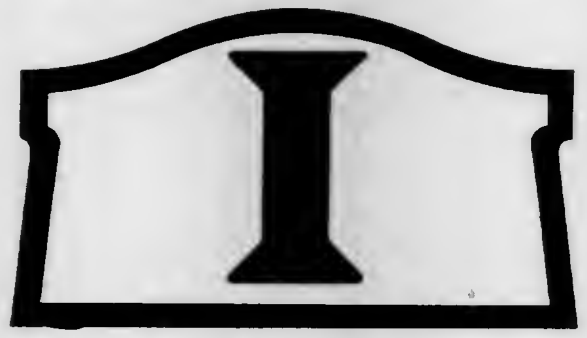
PRESTO

FOR MAKE-UP SPONGES AND SPONGE BRUSHES FOR PERSONAL USE.
Claims use since 1938.

CLASS 31

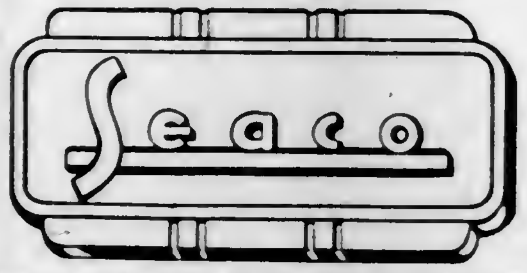
FILTERS AND REFRIGERATORS

Ser. No. 507,251. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Aug. 12, 1946.



FOR ICE TRAYS.
Claims use since July 9, 1946.

Ser. No. 508,392. SIOUX ELECTRICAL APPLIANCE CO., Sioux City, Iowa. Filed Aug. 31, 1946.



No claim is made to the outline representation of the name plate.
FOR ELECTRICAL REFRIGERATORS.
Claims use since Aug. 1, 1945.

Ser. No. 509,267. THE CRIDER CORPORATION, Lima, Ohio. Filed Sept. 18, 1946.

SATURN

FOR REFRIGERANT COMPRESSORS.
Claims use since Sept. 3, 1946.

Ser. No. 512,879. VOKES LIMITED, Guildford, England. Filed Nov. 19, 1946.

AMBER CROSS

FOR AIR FILTERS AND OIL FILTERS (NONE BEING FOR LABORATORY USE OR PARTS OF ENGINES OF MOTORS OR OF MACHINES).
Claims use since July 1945.

Ser. No. 515,154. BORG-WARNER CORPORATION, Chicago, Ill. Filed Jan. 2, 1947.

HANDEFROSTER

FOR REFRIGERATOR PARTS AND ACCESSORIES—NAMELY, A VESSEL, BASIN, OR SIMILAR RECEPTACLE FOR RECEIVING DRIP FROM REFRIGERANT COILS AND THE LIKE IN AUTOMATIC REFRIGERATORS.
Claims use since on or about Oct. 24, 1938.

Ser. No. 516,718. PERMA-TEMP PRODUCTS, INC., Philadelphia, Pa. Filed Jan. 31, 1947.

PERMA-TEMP

FOR FROZEN FOOD CABINETS, FOR HOUSEHOLD AND COMMERCIAL USE.
Claims use since on or about Oct. 24, 1945.

Ser. No. 517,335. THE WHITE MOUNTAIN FREEZER COMPANY, INC., Nashua, N. H. Filed Feb. 11, 1947.

GEM

FOR ICE CREAM FREEZERS HAND OPERATED AND MADE FOR HOUSEHOLD USE.
Claims use since 1883.

Ser. No. 518,320. PRENTISS WABERS PRODUCTS CO., Wisconsin Rapids, Wis. Filed Feb. 28, 1947.

PREWAY

FOR PORTABLE PICNIC ICE BOXES.
Claims use since Dec. 1, 1930.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 493,127. KROLL BROTHERS COMPANY, Chicago, Ill. Filed Dec. 12, 1945.

FOLD-O-MATIC

No claim is made to the word "Fold" apart from the mark as shown.
FOR CRIB SPRINGS.
Claims use since Oct. 11, 1945.

Ser. No. 493,128. KROLL BROTHERS COMPANY, Chicago, Ill. Filed Dec. 12, 1945.

ROLL-O-MATIC

No claim is made to the word "Roll" apart from the mark.
FOR CRIBS.
Claims use since Oct. 11, 1945.

Ser. No. 493,129. KROLL BROTHERS COMPANY, Chicago, Ill. Filed Dec. 12, 1945.

FLOAT-O-MATIC

FOR CRIB SPRINGS.
Claims use since Oct. 11, 1945.

Ser. No. 497,466. DESIGN INC., St. Louis, Mo. Filed Mar. 1, 1946.

DESIGN
INCORPORATED

No claim is made to the word "Incorporated" per se.
FOR REFRESHMENT BARS, REFRESHMENT BACK BARS, TABLES AND CHAIRS FOR COMMERCIAL AND PUBLIC ROOM USE INCLUDING COCKTAIL ROOMS, DINING ROOMS AND HOTEL LOBBIES, AND DISPLAY, STORAGE AND UTILITY CABINETS.
Claims use since Sept. 30, 1938.

Ser. No. 502,811. ELLSWORTH INDUSTRIES, INC., Milwaukee, Wis. Filed May 27, 1946.

KING KROME

The word "Krome" is disclaimed apart from the mark.
FOR FURNITURE, AND MORE PARTICULARLY FOR DOMESTIC AND OFFICE CHAIRS.
Claims use since Nov. 10, 1945.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 506,361. THE AIRITE CORPORATION, Stamford, Conn. Filed July 27, 1946.

"AIRKING"

FOR AIR CONDITIONERS OF THE HUMIDIFIER, HEATING AND COOLING TYPE.
Claims use since July 1, 1946.

Ser. No. 506,962. RONSON ART METAL WORKS, INC., Newark, N. J. Filed Aug. 6, 1946.

REDSKIN

FOR FLINTS FOR CIGAR AND CIGARETTE LIGHTERS.
Claims use since Apr. 4, 1922.

Ser. No. 509,521. MANUFACTURERS AND FABRICATORS, INC., Elyria, Ohio. Filed Sept. 21, 1946.

m&f

FOR NON-ELECTRIC INDUSTRIAL FURNACES AND PARTS THEREFOR, INCLUDING HEATING ELEMENT TUBES.
Claims use since Sept. 1, 1945.

Ser. No. 516,593. PALMER MANUFACTURING CORPORATION, Phoenix, Ariz. Filed Sept. 16, 1946.

Palmaire

FOR HEATING APPARATUS, SPECIFICALLY GAS FIRED FURNACES.
Claims use since Sept. 1, 1945.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 510,558. ADVANCE PACKING & SUPPLY CO., Chicago, Ill. Filed Oct. 10, 1946.

TENAX

FOR MECHANICAL PACKING, VIZ., PACKING RINGS, PACKING FOR PISTON RODS, PACKING FOR SLIDE VALVE RODS, PACKING FOR USE IN STUFFING BOXES, ROD PACKINGS, GASKETS, SHEET PACKINGS, ASBESTOS PACKINGS, AND RUBBER COMPOUND PACKINGS.
Claims use since May 1, 1924.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 506,390. Raxor Trading Corporation, New York, N. Y. Filed July 27, 1946.

"CETRA"

FOR MECHANICALLY GROOVED PHONOGRAPH RECORDS.
Claims use since July 8, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 506,963. Edith Rose, doing business as Executive Sales Company, Philadelphia, Pa. Filed Aug. 6, 1946.

EXLINE

FOR TYPEWRITER PAPER AND MANUSCRIPT COVERS.
Claims use since May 3, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 491,586. Practical Methods for Industry, Inc., New York, N. Y. Filed Nov. 14, 1945.

Yourself

FOR BI-MONTHLY PUBLICATION PRINCIPALLY DEVOTED TO LABOR MATTERS.
Claims use since Nov. 3, 1945.

Ser. No. 501,045. Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Filed Apr. 27, 1946.

Wellcome News

No claim is made to the word "News" except in connection with the mark.
FOR MONTHLY PUBLICATION.
Claims use since January 1944.

Ser. No. 501,622. The Arco Company, Cleveland, Ohio. Filed May 8, 1946.

Color Bar

FOR PUBLICATION ISSUED FROM TIME TO TIME.
Claims use since Apr. 8, 1946.

Ser. No. 502,454. Patterson Publishing Company, Chicago, Ill. Filed May 20, 1946.

PAT'S PAGE

WE GROW AS LONG AS WE'RE GREEN

The word "Page" is disclaimed apart from the mark.
FOR SECTION IN A MAGAZINE.
Claims use since October 1919.

Ser. No. 503,048. Charles W. Beers, doing business as Identification Photo Service, San Francisco, Calif. Filed May 31, 1946.

PLASTISHIPS

FOR INDIVIDUAL PHOTOGRAPHS, PARTICULARLY INDIVIDUAL PHOTOGRAPHS OF THE SHIPS AND THE LIKE, WHICH PHOTOGRAPHS ARE LAMINATED WITH SHEETS OF CELLULOSE ACETATE.
Claims use since Feb. 20, 1946.

Ser. No. 504,159. The Crosley Corporation, Cincinnati, Ohio. Filed June 19, 1946.

50 CLUB

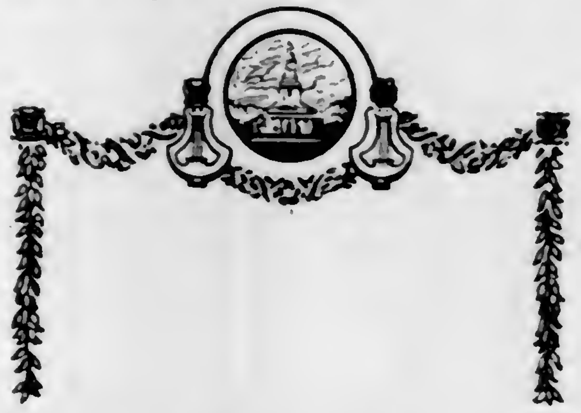
No claim is made to the term "Club" except as part of the mark.
FOR RADIO SCRIPTS PUBLISHED IN A CONTINUING SERIES AND DISTRIBUTED IN TRADE AS PUBLICATIONS.
Claims use since June 5, 1946.

Ser. No. 504,160. The Crosley Corporation, Cincinnati, Ohio. Filed June 19, 1946.

MORNING MATINEE

No claim is made to the term "Morning" except as a part of the mark.
FOR RADIO SCRIPTS PUBLISHED IN A CONTINUING SERIES AND DISTRIBUTED IN COMMERCE AS PUBLICATIONS.
Claims use since June 5, 1946.

Ser. No. 504,636. E. C. Schirmer Music Company, Boston, Mass. Filed June 26, 1946.



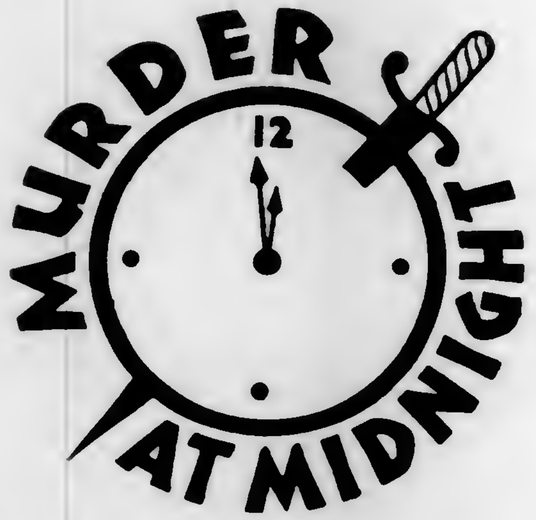
FOR MUSICAL PUBLICATIONS.
Claims use since 1922.

Ser. No. 504,894. Food Fair Stores, Inc., Philadelphia, Pa. Filed July 1, 1946.

FOOD FAIR FREDDIE

FOR CARTOONS.
Claims use since October 1944.

Ser. No. 506,012. Louis G. Cowan, Incorporated, New York, N. Y. Filed July 22, 1946.



FOR SCRIPTS FOR A SERIES OF RADIO BROADCASTS, SOLD AS A PUBLICATION IN TRADE.
Claims use since May 3, 1946.

Ser. No. 507,005. Hillman Periodicals, Inc., New York, N. Y. Filed Aug. 7, 1946.

Movietown

FOR MAGAZINE.
Claims use since July 26, 1946.

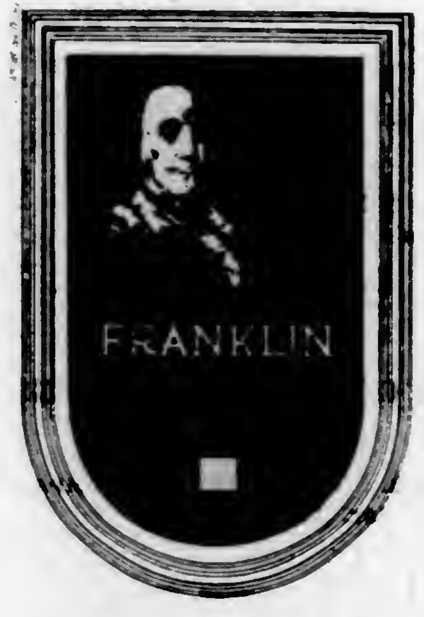
Ser. No. 507,444. Guy G. Waltz, doing business as Waltz the Camera Man, Canton, Ohio. Filed Aug. 14, 1946.

No claim is made to the words "The Camera Man" apart from the mark.
FOR PHOTOGRAPHIC PRINTS, SNAP SHOTS, ENLARGEMENTS AND FRAMED PHOTOGRAPHIC PRINTS.
Claims use since Nov. 27, 1934.

CLASS 39

CLOTHING

Ser. No. 492,969. Sulloway Hosiery Mills, Franklin, N. H. Filed Dec. 8, 1945.



The portrait is that of Benjamin Franklin famous United States Statesman and Patriot.
FOR HOSIERY.
Claims use since Jan. 5, 1945; and since 1893 as to the name "Franklin" and the portrait of Benjamin Franklin.

Ser. No. 507,862. Spartan Products Co., Brooklyn, N. Y. Filed Aug. 22, 1946.

Barinet

FOR HAIR NETS.
Claims use since Mar. 29, 1946.

Ser. No. 509,676. Sol Sherman, doing business as Sherman Products, New York, N. Y. Filed Sept. 24, 1946.

TWINSOME

FOR NECKTIES.
Claims use since July 19, 1946.

Ser. No. 509,837. SAMUEL GLICK, doing business as S. M. Glick Co., Jackson Heights, New York, N. Y. Filed Sept. 27, 1946.

Pretty
Miss

FOR HAIR NETS.
Claims use since June 1946.

CLASS 40

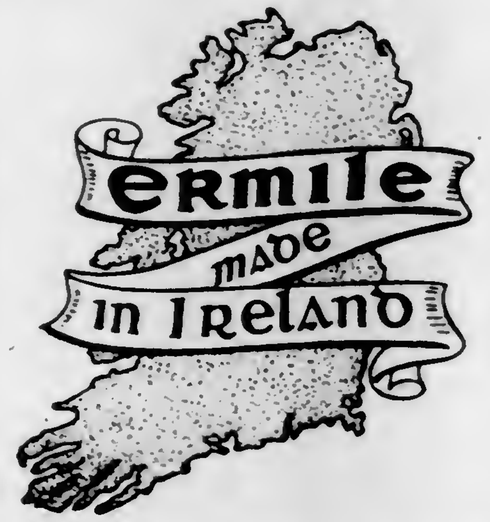
FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 498,823. BRITE SPECIALTY COMPANY, New York, N. Y. Filed Mar. 23, 1946.

BRITE

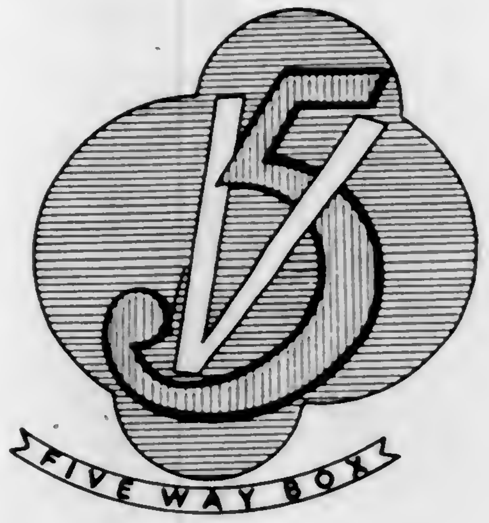
FOR LEATHER WRIST WATCH STRAPS AND BRACELETS, AND FOR BUCKLES AND METAL FINDINGS MADE OF BASE METAL OR PLASTIC FOR WRIST WATCH STRAPS.
Claims use since March 1941.

Ser. No. 504,353. JAMES GIBBONS, Dublin, Eire. Filed June 21, 1946.



Applicant disclaims the expression "Made in Ireland" and the representation of a map of Ireland except as shown.
FOR FANCY GOODS, FURNISHINGS, AND NOTIONS—NAMELY, BRAIDS, TAPES, NARROW LACES, BINDING, CORDS, TASSELS, TRIMMINGS, RIBBONS SOLD IN CUT LENGTHS, AND CROCHET WORK AND EMBROIDERY IN THE NATURE OF FINISHED GOODS FOR USE AS ORNAMENTATION ON GARMENTS, LINENS, ETC.
Claims use since Feb. 5, 1946.

Ser. No. 509,714. ANTHONY MESSINA, New York, N. Y. Filed Sept. 25, 1946.



The drawing is lined for red and blue. The words "Five Way Box" are disclaimed apart from the mark.
FOR FITTED SEWING KITS.
Claims use since May, 1945.

Ser. No. 510,047. ARCO METALCRAFT INC., New York, N. Y. Filed Oct. 2, 1946.

STYLON

FOR PLASTIC COMBS.
Claims use since June 1, 1946.

Ser. No. 513,114. INDUSTRIAL SYNTHETICS CORPORATION, Irvington, N. J. Filed Nov. 23, 1946.

Elastron

FOR WRIST-WATCH STRAPS MADE OF PLASTICS, OF LEATHER-LIKE OR RUBBER-LIKE SYNTHETICS, OR FABRICS, OR LEATHER IN COMBINATIONS WITH EACH OTHER AND WITH THE ABOVE-MENTIONED RUBBER-LIKE OR LEATHER-LIKE SYNTHETICS.
Claims use since December 1943.

Ser. No. 513,524. FRANCES NELKIN, New York, N. Y. Filed Nov. 30, 1946.

"HATCHECK"

FOR COMBS AND HAT FASTENING DEVICES.
Claims use since February 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

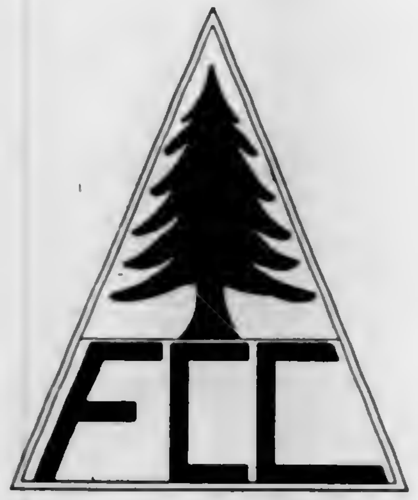
Ser. No. 473,347. HERBERT SONDHEIM, INC., New York, N. Y. Filed Aug. 16, 1944.

"REBOZO"

HERBERT SONDHEIM
INCORPORATED

The name "Herbert Sondheim, Incorporated" is disclaimed apart from the mark.
FOR PIECE GOODS OF COTTON, RAYON AND WOOL, AND OF MIXTURES OF COTTON, RAYON AND WOOL.
Claims use since July 20, 1944.

Ser. No. 495,284. FOREST CONVERTING CORPORATION, New York, N. Y. Filed Jan. 24, 1946.



FOR KNITTED AND WOVEN FABRICS, MANUFACTURED FROM COTTON, WOOL, SILK, RAYON AND NYLON FIBERS, SOLD BY THE PIECE, YARD OR BOLT.
Claims use since Jan. 15, 1946.

Ser. No. 496,074. FORSTMANN WOOLEN CO., Passaic, N. J. Filed Feb. 6, 1946.

Chameaulaine

FOR WOOLEN PIECE GOODS.
Claims use since Feb. 2, 1946.

Ser. No. 498,678. AMERICAN ELAN CORPORATION, New York, N. Y. Filed Mar. 21, 1946.

Elan

FOR PIECE GOODS OF PURE WOOL, COTTON, SILK, AND RAYON, AND OF MIXTURES OF WOOL AND RAYON; JERSEY PIECE GOODS; AND VELVET MATERIALS SOLD IN THE PIECE; RIBBONS SOLD BY THE PIECE, YARD, OR SPOOL, WIDE ELASTIC FABRICS, ELASTIC KNITTED GOODS IN THE PIECE, AND WIDE ELASTIC WEBBINGS.
Claims use since Feb. 11, 1946.

Ser. No. 506,701. A. STEINAM COMPANY, INC., New York, N. Y. Filed Aug. 1, 1946.

JENESTA

FOR RAYON PIECE GOODS.
Claims use since Aug. 22, 1944.

Ser. No. 516,634. RAXON FABRICS CO., New York, N. Y. Filed Jan. 30, 1947.

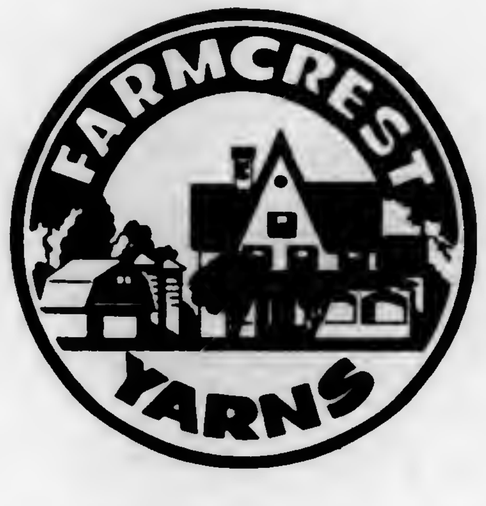
RAXON

FOR SILK AND RAYON FABRICS IN THE PIECE.
Claims use since Oct. 1, 1941.

CLASS 43

THREAD AND YARN

Ser. No. 510,371. IRVING R. WEINBERG, doing business as Utility Yarns and Supply Company, New York, N. Y. Filed Oct. 5, 1946.



Applicant disclaims all rights to the word "Yarns" apart from the mark.
FOR YARNS.
Claims use since Sept. 18, 1946.

Ser. No. 514,630. SHEPHERD WORSTED MILLS, Newton, Mass. Filed Dec. 20, 1946.

BABILYN

FOR YARNS.
Claims use since Oct. 25, 1946.

Ser. No. 514,631. SHEPHERD WORSTED MILLS, Newton, Mass. Filed Dec. 20, 1946.

SHEPTWIST

FOR YARNS.
Claims use since Dec. 12, 1946.

Ser. No. 514,815. THE HACKER IMPORT CORPORATION, New York, N. Y. Filed Dec. 26, 1946.

Minuet

FOR THREADS AND YARNS.
Claims use since Dec. 2, 1946.

Ser. No. 514,816. THE HACKER IMPORT CORPORATION, New York, N. Y. Filed Dec. 26, 1946.

Rosette

FOR THREADS AND YARNS.
Claims use since Dec. 2, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 515,350. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Jan. 6, 1947.

PUNCTULE

FOR UNITS FOR THE PARENTERAL ADMINISTRATION OF MEDICINALS, COMPRISING A MEDICAMENT-CONTAINING CARTRIDGE TO WHICH IS ATTACHED A PLUNGER WITH THUMB REST.
Claims use since Dec. 3, 1946.

Ser. No. 515,667. MATTHEWS OF ERIE, INC., Erie, Pa. Filed Jan. 13, 1947.

NAIL STYLER

The word "Nail" is disclaimed apart from the mark as shown.
FOR ELECTRICALLY OPERATED INSTRUMENTS FOR MANICURING FINGER AND TOE NAILS.
Claims use since Nov. 17, 1946.

CLASS 46

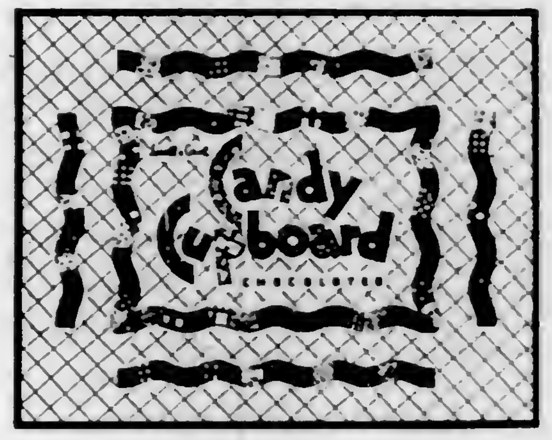
FOODS AND INGREDIENTS OF FOODS

Ser. No. 448,735. LOVELL AND COVEL COMPANY, Cambridge, Mass. Filed Nov. 18, 1941.

CANDY CUPBOARD

Applicant is the owner of Reg. No. 173,214, dated Sept. 18, 1923, and renewed. The word "Candy" is disclaimed apart from the mark as shown.
FOR CANDY.
Claims use since May 5, 1936.

Ser. No. 458,077. LOVELL AND COVEL COMPANY, Cambridge, Mass. Filed Jan. 21, 1943.



No registration rights are claimed for the name "Lovell & Covel" or for the words "Candy" and "Chocolates" apart from the mark as shown on the drawing. Applicant is the owner of Reg. No. 173,214, dated Sept. 18, 1923, and renewed.
FOR CANDY.
Claims use since Dec. 4, 1942.

Ser. No. 479,994. SOUTHERN DAIRIES, INC., Washington, D. C. Filed Feb. 19, 1945.

Southern Dairies

Applicant is the owner of Reg. Nos. 212,739, 244,288, 255,050, 265,660, 279,018, and 279,019. Applicant disclaims exclusive right to use the word "Dairies" apart from the mark as shown.
FOR ICE CREAM, FROZEN CONFECTIONS, FLUID MILK, BUTTERMILK, CREAM, AND FROZEN FRUITS AND VEGETABLES—NAMELY, PINEAPPLE, STRAWBERRIES, KALE, PEACHES, ASPARAGUS CUTS, BRUSSELS SPROUTS, ASPARAGUS TIPS, PEAS, FORDHOOK LIMAS, AND BROCCOLI.
Claims use since 1932.

Ser. No. 479,996. SOUTHERN DAIRIES, INC., Washington, D. C. Filed Feb. 19, 1945.

Southern Dairies

Applicant is the owner of Reg. Nos. 212,739, 244,288, 255,050, 265,660, 279,018, and 279,019. Applicant disclaims exclusive right to use the word "Dairies" apart from the mark.
FOR ICE CREAM, ICES, SHERBETS, FROZEN CONFECTIONS, BUTTER AND EGGS.
Claims use since 1932.

Ser. No. 479,997. SOUTHERN DAIRIES, INC., Washington, D. C. Filed Feb. 19, 1945.

Southern Dairies

Applicant is the owner of Reg. Nos. 244,288, 255,050, and 279,019. Applicant disclaims exclusive right to use the word "Dairies" apart from the mark.
FOR ICE CREAM, ICE CREAM TARTS, SHERBETS, FLUID MILK, CREAM, BUTTERMILK, CHOCOLATE MILK, AND SOUR CREAM.
Claims use since 1926.

Ser. No. 479,999. SOUTHERN DAIRIES, INC., Washington, D. C. Filed Feb. 19, 1945.

Southern Dairies

Applicant is the owner of Reg. Nos. 244,288, 255,050, and 279,019. Applicant disclaims exclusive right to use the word "Dairies" apart from the mark.
FOR ICE CREAM, ICES, SHERBETS, FLUID MILK, CREAM, BUTTERMILK, BUTTER, EGGS, COTTAGE CHEESE, SKIM MILK, ICE MILK, AND CHOCOLATE MILK DRINK, THE LATTER BEING SOLD AS A FOOD BEVERAGE.
Claims use since 1935.

Ser. No. 480,802. SOUTHERN DAIRIES, INC., Washington, D. C. Filed Mar. 10, 1945.

SOUTHERN DAIRIES

Applicant disclaims exclusive right to the use of the word "Dairies" apart from the mark.
FOR MILK, CREAM, BUTTERMILK, SKIM MILK, AND SOUR CREAM.
Claims use since 1932.

Ser. No. 488,825. M. & S. FARMS, Fresno and Parlier, Calif. Filed Sept. 21, 1945.

Swing Hi

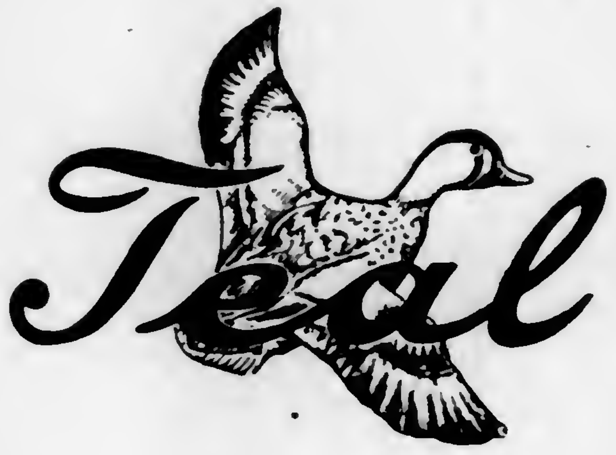
FOR FRESH DECIDUOUS FRUITS AND FRESH GRAPES.
Claims use since Aug. 24, 1945.

Ser. No. 488,926. THE CHARLES A. PETERSON COMPANY, Cleveland, Ohio. Filed Sept. 24, 1945.

Capco

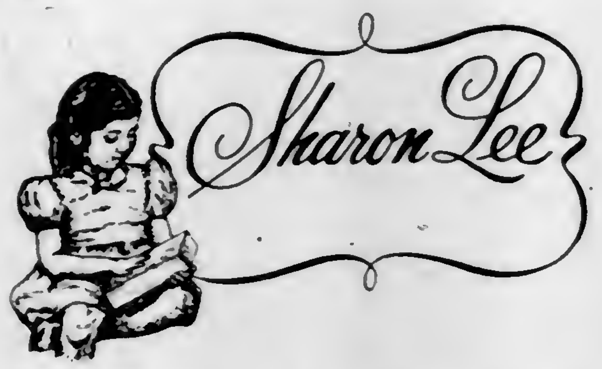
FOR SHELLED EDIBLE NUTS; RAW OR SALTED.
Claims use since on or about Apr. 29, 1937.

Ser. No. 491,002. EDWARD S. ERNST, doing business as Ernst Food Sales, New Orleans, La. Filed Nov. 3, 1945.



FOR FROZEN SHELL FISH, CREOLE GUMBO AND CREOLE COURTBOUILLON.
Claims use since Aug. 15, 1945.

Ser. No. 493,929. Nicholas Nassar, Jr., doing business as Sharon Lee Candy Co., Toledo, Ohio. Filed Dec. 27, 1945.

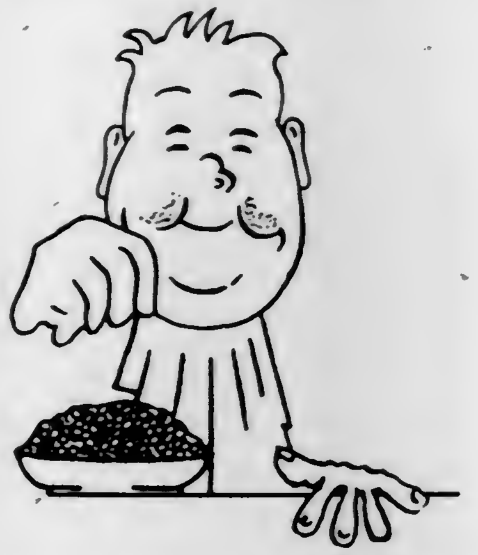


The representation of the girl constituting a component part of the trade-mark is a copy of a portrait of a living individual, the daughter of the applicant whose name is Sharon Lee Nassar.

FOR CHOCOLATES, CANDY, AND NUT MEATS.

Claims use since Oct. 1, 1945.

Ser. No. 494,290. The Specialty Development Company, Bluffton, Ind. Filed Jan. 4, 1946.



The portrait is fanciful. No claim is made to the representation of the goods apart from the mark.

FOR BAKERY PRODUCT OF SAME COMPOSITION AS PRETZELS BUT OF A SHAPE DIFFERING FROM THE ORDINARY TWISTED PRETZEL AND ALSO FROM SO-CALLED PRETZEL-STICKS.

Claims use since Oct. 11, 1940.

Ser. No. 503,395. Carl Seagren Enterprises, Brooklyn, N. Y. Filed June 6, 1946.

decostrip

FOR EDIBLE DECALCOMANIA FOR APPLICATION AS A DECORATION ON CAKE ICINGS.

Claims use since June 1, 1946.

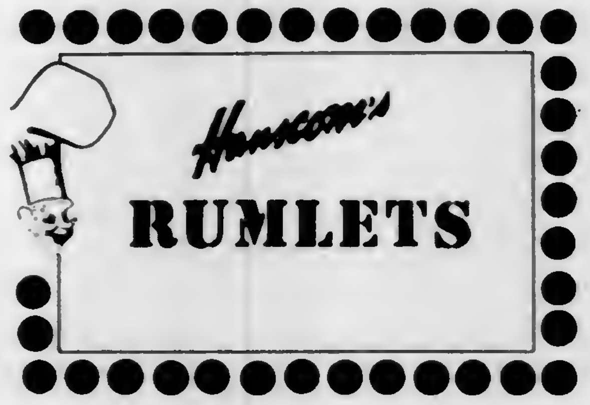
Ser. No. 505,825. Hanscom Baking Corporation, Long Island City, N. Y. Filed July 18, 1946.

RUMLETS

FOR CAKES AND COOKIES.

Claims use since May 5, 1946.

Ser. No. 505,826. Hanscom Baking Corporation, Long Island City, N. Y. Filed July 18, 1946.

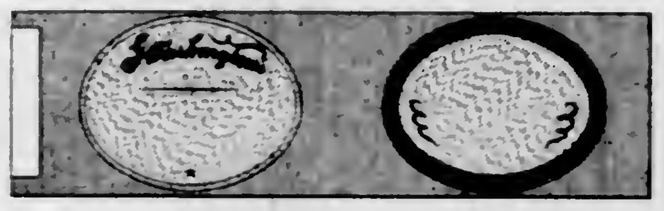


Applicant disclaims the word "Hanscom's" apart from the mark.

FOR CAKES AND COOKIES.

Claims use since May 5, 1946.

Ser. No. 506,287. American Home Foods, Inc., New York, N. Y. Filed July 26, 1946.



No claim is made to the representation of a label per se. The drawing is lined to indicate the colors red and buff. The name "G. Washington's" is a reproduction of the generally accepted signature of George Washington, deceased, the first President of the United States.

FOR COFFEES.

Claims use since June 2, 1945, and since September 1910 as to G. Washington's facsimile signature.

Ser. No. 507,062. Louis Milani Foods, Inc., Chicago, Ill. Filed Aug. 8, 1946.

SALAD-ISLE

Applicant disclaims exclusive right to the use of the word "Salad" apart from the mark.

FOR THOUSAND ISLAND DRESSING.

Claims use since May 7, 1946.

Ser. No. 509,008. Jellum, Inc., Joliet, Ill. Filed Sept. 13, 1946.

RICHERONI

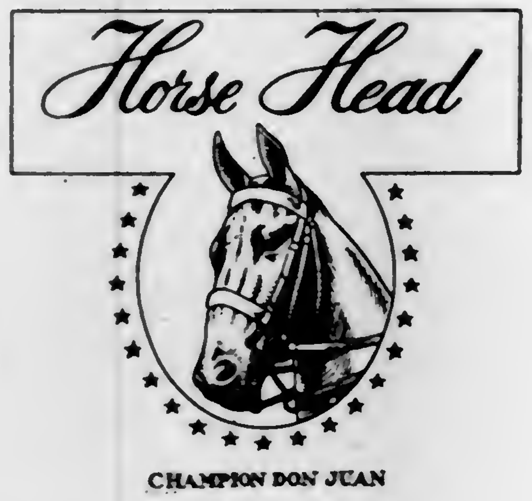
FOR MACARONI.

Claims use since Aug. 19, 1946.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 484,095. Gerhard Lang Brewery, Buffalo, N. Y. Filed June 2, 1945.



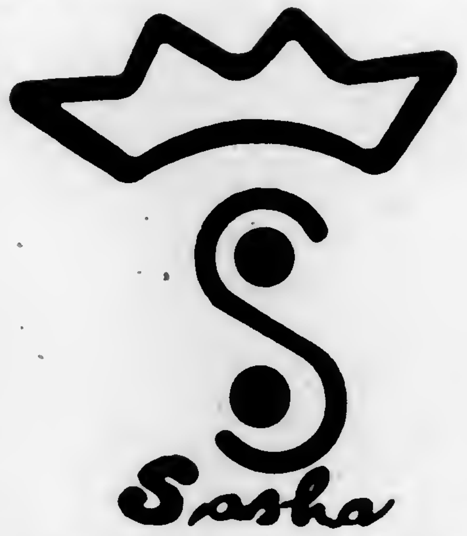
FOR BEER AND ALE.

Claims use since April 1945.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 488,708. Sasha Studios, Los Angeles, Calif. Filed Sept. 19, 1945.



FOR FIGURINES AND STATUETTES MADE OF OR ORNAMENTED WITH MATERIALS OTHER THAN PRECIOUS METALS.

Claims use since June 1, 1942.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF FEBRUARY 20, 1905

MAY 6, 1947

429,526. AIRPLANES, AND STRUCTURAL PARTS THEREOF. Curtiss-Wright Corporation, New York and Buffalo, N. Y.; Columbus, Ohio; Louisville, Ky.; St. Louis, Mo.; and elsewhere.
Filed May 26, 1944. Serial No. 470,656. PUBLISHED JANUARY 21, 1947. Class 19.

429,527. PRINTED CHARTS. Peter B. Doub, Los Angeles, Calif.
Filed December 12, 1944. Serial No. 477,462. PUBLISHED FEBRUARY 18, 1947. Class 38.

429,528. FOOD FOR ANIMALS—NAMELY, RATIONS FOR COWS, HORSE FEED, DOG FEED, POULTRY MASH, CHICKEN LAYING AND BREEDER MASH, AND CHICKEN GRAINS. Verity Mills, Inc., Buffalo, N. Y.
Filed March 26, 1945. Serial No. 481,347. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,529. CANNED PREPARED PORK MEAT. Dubuque Packing Company, Dubuque, Iowa.
Filed April 9, 1945. Serial No. 481,890. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,530. BRASSIÈRES, GIRDLES, AND FOUNDATION GARMENTS. Silmar Foundation Garments, Inc., New York, N. Y.
Filed April 11, 1945. Serial No. 482,021. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,531. LADIES' HANDKERCHIEFS, SCARVES, AND FASCINATORS. Brian Fabrics Corp., New York, N. Y.
Filed April 18, 1945. Serial No. 482,270. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,532. LAWN MOWERS. American Chain & Cable Company, Inc., New York, N. Y., and Bridgeport, Conn.
Filed May 4, 1945. Serial No. 482,961. PUBLISHED JANUARY 28, 1947. Class 23.

429,533. METAL CUTTING AND FORMING TOOLS COMPRISING DRILLS, JIGS, BORING JIGS, FORM TOOLS, ETC. C. H. Gemmill, doing business as C. H. Gemmill Company, Chicago, Ill.
Filed May 21, 1945. Serial No. 483,611. PUBLISHED FEBRUARY 4, 1947. Class 23.

429,534. SEMI-ANNUAL PUBLICATIONS CONTAINING MATTER OF PARTICULAR INTEREST TO THE PHARMACEUTICAL TRADE. Phillips Pharmaceutical Products, Inc., Darien, Conn.
Filed May 28, 1945. Serial No. 483,871. PUBLISHED JANUARY 21, 1947. Class 38.

429,535. WOVEN LABELS. Quality Weaving Company, Philadelphia, Pa.
Filed June 9, 1945. Serial No. 484,357. PUBLISHED JANUARY 21, 1947. Class 38.

429,536. WRENCHES AND PLIERS. H. R. Basford Co., San Francisco, Calif.
Filed June 11, 1945. Serial No. 484,388. PUBLISHED DECEMBER 25, 1945. Class 23.

429,537. INSTRUCTION BOOKS RELATING TO ART NEEDLEWORK, AND INSTRUCTION CHARTS OR SHEETS CONTAINING DESIGNS FOR EMBROIDERY. Sultana Products, Inc., New York, N. Y.
Filed June 29, 1945. Serial No. 485,249. PUBLISHED FEBRUARY 11, 1947. Class 38.

429,538. LADIES' GLOVES, MADE OF PRE-SHRUNK DOUBLE WOVEN COTTON FABRIC. C. D. Osborn Co., Chicago, Ill.
Filed July 9, 1945. Serial No. 485,586. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,539. AIR OPERATED, MECHANIC'S HAND TOOLS—NAMELY, GRINDING WHEELS, POLISHING WHEELS, BUFFING WHEELS, DRILLS, BURRS, ROUTER TOOLS AND MIXING PADDLES, ETC. Ferriot Bros. Inc., Akron, Ohio.
Filed July 23, 1945. Serial No. 486,142. PUBLISHED FEBRUARY 11, 1947. Class 23.

429,540. PHOTOGRAPHS, PORTRAITS, AND PICTURES. Harrison Studios, Portland and Gresham, Oreg., and Santa Monica, Calif.
Filed August 3, 1945. Serial No. 486,673. PUBLISHED JANUARY 21, 1947. Class 38.

429,541. MILKING MACHINES. Globe Milker Inc., Des Moines, Iowa.
Filed August 27, 1945. Serial No. 487,614. PUBLISHED FEBRUARY 11, 1947. Class 23.

429,542. STAPLING MACHINES USED FOR FASTENING PAPERS, CARDBOARD, FABRICS, AND METAL TOGETHER, AND ALSO FOR FASTENING PAPERS, CARDBOARD, FABRICS, AND METAL ON TO WOOD. Markwell Mfg. Co., Inc., New York, N. Y.
Filed September 22, 1945. Serial No. 488,860. PUBLISHED JANUARY 28, 1947. Class 23.

429,543. CEREAL PRODUCT MADE FROM WHOLE WHEAT FOR USE AS A BREAKFAST FOOD OR IN THE PREPARATION OF MUFFINS, ROLLS HOT BREADS, COOKIES, AND THE LIKE. Fisher Flouring Mills Company, Seattle, Wash.
Filed October 1, 1945. Serial No. 489,212. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,544. WHEEL ELEVATORS IN THE NATURE OF BLOCKS HAVING TAPERING END PORTIONS AND ADAPTED FOR BEING PLACED UNDER MOTOR VEHICLE WHEELS TO RAISE THE LATTER WHEN SAME IS DRIVEN UPON THEM. Willis A. Kelso, Sharpsburg, Pa.
Filed October 18, 1945. Serial No. 490,124. PUBLISHED FEBRUARY 11, 1947. Class 23.

429,545. IRON CASTINGS. Laclede Stoker Company, doing business as Tower Grove Foundry, St. Louis, Mo.
Filed November 5, 1945. Serial No. 491,140. PUBLISHED JULY 9, 1946. Class 14.

429,546. OIL WELL TOOLS AND PARTS THEREOF—NAMELY, CUTTERS AND CUTTING KNIVES, SUBS, BITS, SWAGES, SPEARS, OVERSHOTS, FISHING TOOLS, GUIDES FOR OVERSHOTS AND FISHING TOOLS, SHOES, MILLS AND MILLING TOOLS, FISHING TAPS AND BASKETS, BLOCKS, SAMPLERS, DRILLING AND CORING TOOLS, PACKERS, PLUGS, CEMENT RETAINERS, SETTING TOOLS, PERFORATORS, JARS, CLEANERS, BAILERS, JOINTS, COUPLINGS, CONNECTIONS, OIL WELL PUMPS; INTERNAL COMBUSTION ENGINES, ETC. Houston Oil Field Material Company, Inc., Houston, Tex.
Filed November 27, 1945. Serial No. 492,268. PUBLISHED FEBRUARY 18, 1947. Class 23.

429,547. BREAD. Ennis L. Schafer, Detroit, Mich.
Filed December 3, 1945. Serial No. 492,588. PUBLISHED FEBRUARY 18, 1947. Class 46.

429,548. MOLDED ABRASIVE ARTICLES—NAMELY, BLOCKS, BRICKS, HONES, STICKS, STONES, DISCS, AND WHEELS, ETC. The Carborundum Company, Niagara Falls, N. Y.
Filed December 5, 1945. Serial No. 492,682. PUBLISHED FEBRUARY 11, 1947. Class 4.

429,549. COFFEE AND TABLE SYRUP. National Grocery Company, doing business as Reliance Pure Foods, Seattle, Wash.
Filed December 8, 1945. Serial No. 492,943. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,550. APPARATUS WHICH IS ADAPTED TO RECEIVE AND TO FACILITATE THE PROPER SETTING, ETC. H. H. Heinrich, Inc., New York, N. Y.
Filed December 15, 1945. Serial No. 493,352. PUBLISHED FEBRUARY 4, 1947. Class 23.

429,551. SOAP. Samuel Greenblatt, doing business as Monogram Soap Company, Hollywood, Calif.
Filed December 27, 1945. Serial No. 493,923. PUBLISHED FEBRUARY 11, 1947. Class 4.

429,552. SOAPS AND SOAP POWDERS. George Edward Sachs, New York, N. Y.
Filed January 11, 1946. Serial No. 494,634. PUBLISHED FEBRUARY 11, 1947. Class 4.

429,553. SUNGLASSES, EYEGLASSES, SPECTACLES, AND PARTS THEREOF, INCLUDING LENSES. Comptone Company, New York, N. Y., assignor to American Spectacle Co., Inc., New York, N. Y., a corporation of New York.
Filed January 15, 1946. Serial No. 494,783. PUBLISHED JULY 23, 1946. Class 26.

429,554. SUNGLASSES. American Spectacle Co., Inc., New York, N. Y.
Filed January 19, 1946. Serial No. 495,004. PUBLISHED JULY 23, 1946. Class 26.

429,555. SUNGLASSES. American Spectacle Co., Inc., New York, N. Y.
Filed January 19, 1946. Serial No. 495,005. PUBLISHED JULY 23, 1946. Class 26.

429,556. TOILET SOAPS. Les Parfums de Dana, Inc., New York, N. Y.
Filed January 19, 1946. Serial No. 495,058. PUBLISHED AUGUST 18, 1946. Class 4.

429,557. COOKED FOOD PRODUCT COMPOSED OF GROUND MEAT AND RELISHES ENCLOSED IN BREAD DOUGH AND FRIED IN DEEP GREASE. Douglas C. Garland, Los Angeles, Calif.
Filed January 26, 1946. Serial No. 495,466. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,558. RAZOR BLADES. Joseph Smith, doing business as Saber Blade Co., New York, N. Y.
Filed January 30, 1946. Serial No. 495,700. PUBLISHED FEBRUARY 11, 1947. Class 23.

429,559. MOTORCARS. Ford Motor Company, Dearborn, Mich.
Filed February 2, 1946. Serial No. 495,873. PUBLISHED JANUARY 14, 1947. Class 19.

429,560. MOTORCARS. Ford Motor Company, Dearborn, Mich.
Filed February 2, 1946. Serial No. 495,874. PUBLISHED JANUARY 14, 1947. Class 19.

429,561. SHOE AND BOOT POLISH. General Shoe Corporation, Nashville, Tenn.
Filed February 4, 1946. Serial No. 495,963. PUBLISHED FEBRUARY 18, 1947. Class 4.

429,562. TITLE FOR A PERIODICAL. Bruno Levin, doing business under the name, United Video, Brooklyn, N. Y.
Filed February 23, 1946. Serial No. 497,109. PUBLISHED FEBRUARY 18, 1947. Class 38.

429,563. WHEAT FLOUR. Ballard & Ballard Co., Louisville, Ky.
Filed March 11, 1946. Serial No. 497,989. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,564. SHOES MADE OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS THEREOF. Daly Bros. Shoe Co., Inc., Boston, Mass.
Filed March 13, 1946. Serial No. 498,121. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,565. BICYCLE WITH AUXILIARY MOTOR, AND PARTS THEREOF. The Societe Anonyme Solex, Neuilly sur Seine, France.
Filed March 15, 1946. Serial No. 498,320. PUBLISHED JANUARY 28, 1947. Class 19.

429,566. CANDY. Clinton Industries, Inc., Chicago, Ill., assignor to Chase Candy Company, a corporation of Missouri.
Filed March 20, 1946. Serial No. 498,600. PUBLISHED FEBRUARY 18, 1947. Class 46.

429,567. SAFETY RAZORS AND SAFETY RAZOR BLADES. Gillette Safety Razor Company, Boston, Mass.
Filed March 20, 1946. Serial No. 498,618. PUBLISHED FEBRUARY 18, 1947. Class 23.

429,568. SAFETY RAZORS AND SAFETY RAZOR BLADES. Gillette Safety Razor Company, Boston, Mass.
Filed March 20, 1946. Serial No. 498,619. PUBLISHED FEBRUARY 4, 1947. Class 23.

429,569. SAFETY RAZORS AND SAFETY RAZOR BLADES. Gillette Safety Razor Company, Boston, Mass.
Filed March 20, 1946. Serial No. 498,620. PUBLISHED FEBRUARY 18, 1947. Class 23.

429,570. SAFETY RAZORS AND SAFETY RAZOR BLADES. Gillette Safety Razor Company, Boston, Mass.
Filed March 20, 1946. Serial No. 498,621. PUBLISHED FEBRUARY 18, 1947. Class 23.

429,571. SAFETY RAZORS AND SAFETY RAZOR BLADES. Gillette Safety Razor Company, Boston, Mass.
Filed March 20, 1946. Serial No. 498,623. PUBLISHED FEBRUARY 18, 1947. Class 23.

429,572. PRINTING INKS. F. G. Okie, Inc., Philadelphia, Pa.
Filed March 29, 1946. Serial No. 499,264. PUBLISHED JANUARY 28, 1947. Class 11.

429,573. BOWLING BALL CLEANER. The Brunswick-Balke-Collender Company, Chicago, Ill.
Filed April 3, 1946. Serial No. 499,537. PUBLISHED FEBRUARY 4, 1947. Class 4.

429,574. HEARTHS AND DAMPERS FOR INDUSTRIAL AND LABORATORY FURNACES. Aktiebolaget Kanthal, Hallstahammar, Sweden.
Filed April 11, 1946. Serial No. 499,982. PUBLISHED FEBRUARY 18, 1947. Class 34.

429,575. RIFLES AND SHOTGUNS. The Marlin Firearms Company, New Haven, Conn.
Filed April 12, 1946. Serial No. 500,101. PUBLISHED FEBRUARY 4, 1947. Class 9.

429,576. MINERAL SOIL CONDITIONER FOR USE AS A FERTILIZER. Lodi Fertilizer Company, Lodi, Calif.
Filed April 15, 1946. Serial No. 500,234. PUBLISHED FEBRUARY 18, 1947. Class 10.

429,577. BOOKLETS, PAMPHLETS, AND LEAFLETS. Tractor Training Service, Portland, Oreg.
Filed April 15, 1946. Serial No. 500,263. PUBLISHED JANUARY 21, 1947. Class 38.

429,578. ARTICLES IN NEWSPAPERS AND MAGAZINES. May Mann Leon, Los Angeles, Calif.
Filed April 17, 1946. Serial No. 500,398. PUBLISHED FEBRUARY 18, 1947. Class 38.

429,579. ELECTRIC, GAS, ICE AND DRY ICE REFRIGERATORS, HOME AND COMMERCIAL. Academy Award Products, Inc., New York, N. Y.
Filed April 18, 1946. Serial No. 500,445. PUBLISHED FEBRUARY 18, 1947. Class 31.

429,580. GROUND BONE FERTILIZER, DRIED BLOOD FERTILIZER, AND ANIMAL MANURE COMPOUNDS. Consolidated Cosmetics, Chicago, Ill., assignor to Veralin, Inc., Chicago, Ill., a corporation of Illinois.
Filed April 20, 1946. Serial No. 500,603. PUBLISHED JANUARY 28, 1947. Class 10.

429,581. FARM AND ROAD SPREADING MACHINERY FOR SAND, CINDERS, AGGREGATE, SALT, AND COMMERCIAL FERTILIZER. Sidney L. Cate, doing business as S. L. Cate Company, Salt Lake City, Utah.
Filed April 22, 1946. Serial No. 500,645. PUBLISHED FEBRUARY 4, 1947. Class 23.

429,582. FLOOR CLEANER. Windsor Wax Company, Inc., Hoboken, N. J.
Filed April 25, 1946. Serial No. 500,919. PUBLISHED FEBRUARY 4, 1947. Class 4.

429,583. PINE SOAP. Helene Pessl, Inc., New York, N. Y.
Filed May 1, 1946. Serial No. 501,275. PUBLISHED FEBRUARY 4, 1947. Class 4.

429,584. NICKEL IN THE FORM OF COLD DRAWN SEAMLESS TUBING, COLD DRAWN WELDED TUBING, COLD ROLLED STRIP, AND COLD DRAWN WIRE. The International Nickel Company, Inc., New York, N. Y.
Filed May 4, 1946. Serial No. 501,456. PUBLISHED FEBRUARY 11, 1947. Class 14.

429,585. NICKEL IN THE FORM OF COLD ROLLED STRIP. The International Nickel Company, Inc., New York, N. Y.
Filed May 4, 1946. Serial No. 501,457. PUBLISHED FEBRUARY 11, 1947. Class 14.

429,586. NICKEL IN THE FORM OF COLD ROLLED STRIP. The International Nickel Company, Inc., New York, N. Y.
Filed May 4, 1946. Serial No. 501,458. PUBLISHED FEBRUARY 11, 1947. Class 14.

429,587. BLANKING AND FORMING DIES, SNAP AND PLUG GAGES AND DRILL JIGS. Elcro Tool Co., Inc., Rochester, N. Y.
Filed May 8, 1946. Serial No. 501,651. PUBLISHED FEBRUARY 11, 1947. Class 23.

429,588. PUBLICATIONS ISSUED PERIODICALLY. New Council of American Business, Inc., Washington, D. C.
Filed May 8, 1946. Serial No. 501,682. PUBLISHED JANUARY 21, 1947. Class 38.

429,589. HAND AND BATH SOAP. Antoine de Paris, Inc., New York, N. Y.
Filed May 10, 1946. Serial No. 501,810. PUBLISHED FEBRUARY 18, 1947. Class 4.

429,590. MAGAZINE COLUMN. The F-R Publishing Corporation, New York, N. Y.
Filed May 10, 1946. Serial No. 501,841. PUBLISHED JANUARY 21, 1947. Class 38.

429,591. SOAP. Maurella Products Co., Inc., New York, N. Y.
Filed May 10, 1946. Serial No. 501,856. PUBLISHED FEBRUARY 18, 1947. Class 4.

429,592. INDUSTRIAL CLEANING PREPARATIONS. Oakite Products, Inc., New York, N. Y.
Filed May 10, 1946. Serial No. 501,865. PUBLISHED FEBRUARY 18, 1947. Class 4.

429,593. DETERGENT CHEMICAL COMPOUND FOR WASHING MILKING MACHINES, SEPARATORS, AND IN GENERAL EVERYTHING IN AND ABOUT A FARM OR THE HOME. Calgon, Inc., Pittsburgh, Pa.
Filed May 11, 1946. Serial No. 501,899. PUBLISHED FEBRUARY 18, 1947. Class 4.

429,594. NEWSPAPER CARTOON. The Hearst Corporation, New York, N. Y.
Filed May 17, 1946. Serial No. 502,292. PUBLISHED JANUARY 21, 1947. Class 38.

429,595. SAWS AND SAW BANDS. The DoAll Company, Des Plaines, Ill., assignor to The DoAll Company, Des Plaines, Ill., a corporation of Illinois.
Filed May 20, 1946. Serial No. 502,429. PUBLISHED FEBRUARY 11, 1947. Class 23.

429,596. BOATS—NAMELY, SMALL PLEASURE CRAFT INCLUDING ROW BOATS; AND OARS. The Flour City Ornamental Iron Company, Minneapolis, Minn.
Filed May 20, 1946. Serial No. 502,432. PUBLISHED JANUARY 21, 1947. Class 19.

429,597. MAGAZINE. Florence Wagner, doing business under the name of Wagner Publishing Co., Beverly Hills, Calif.
Filed May 20, 1946. Serial No. 502,476. PUBLISHED FEBRUARY 18, 1947. Class 38.

429,598. MAGAZINE FEATURE, SECTION, OR DEPARTMENT. Hearst Magazines Inc,, New York, N. Y.
Filed May 25, 1946. Serial No. 502,751. PUBLISHED FEBRUARY 18, 1947. Class 38.

429,599. FROZEN FOOD PRODUCTS—NAMELY, FROZEN CHICKENS. Sleeper-Rankin Inc., Portland, Maine.
Filed May 28, 1946. Serial No. 502,924. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,600. LADIES' HATS. Calot Modes, Inc., New York, N. Y.
Filed May 31, 1946. Serial No. 503,054. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,601. CANNED CITRUS JUICES. General Juice's, Inc., Ocala, Fla.
Filed May 31, 1946. Serial No. 503,076. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,602. FRESH VEGETABLES. Annie Rosenthal, doing business as Sunstate Produce Co., Fort Lauderdale, Fla.
Filed May 31, 1946. Serial No. 503,132. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,603. FATIGUE PACKS—NAMELY, CUSHIONS OR PADDING OF UPHOLSTERY MATERIAL CARRIED ON THE BODY BY A PARACHUTE WEARER TO SERVE AS A SEAT CUSHION AND TO AFFORD PROTECTION IN A PARACHUTE JUMP. The Firestone Tire & Rubber Company, doing business as Firestone Rubber & Latex Products Company, Fall River, Mass., and Firestone Industrial Products Company, Akron, Ohio.
Filed June 6, 1946. Serial No. 503,360. PUBLISHED JANUARY 14, 1947. Class 19.

429,604. PERIODICAL PUBLICATIONS. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.
Filed June 14, 1946. Serial No. 503,865. PUBLISHED JANUARY 28, 1947. Class 38.

429,605. CANNED FRUIT, TO WIT, CANNED APPLE SAUCE. The Knouse Corporation, Peach Glen, Pa., assignor to National Fruit Product Company, Inc., Winchester, Va., a corporation of Virginia.
Filed June 18, 1946. Serial No. 504,110. PUBLISHED FEBRUARY 18, 1947. Class 46.

429,606. PUMICE BUILDING BLOCKS. Western Pumistone Products Company, San Carlos, Calif.
Filed August 5, 1946. Serial No. 506,907. PUBLISHED FEBRUARY 18, 1947. Class 12.

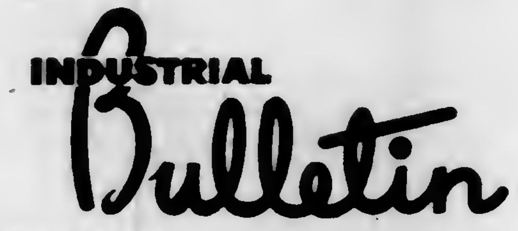
429,607. AIRPLANES AND PARTS THEREOF. Republic Aviation Corporation, near Farmingdale, Long Island, N. Y.
Filed October 18, 1946. Serial No. 511,108. PUBLISHED JANUARY 14, 1947. Class 19.

429,608. WORM FOOD. D. E. Ponder, Opelika, Ala.
Filed October 29, 1946. Serial No. 511,699. PUBLISHED FEBRUARY 11, 1947. Class 46.

ACT OF MARCH 19, 1920, SEC. 1 (b)

These registrations are not subject to opposition

429,609. (CLASS 38. PRINTS AND PUBLICATIONS.) Louis Galter, Chicago, Ill. Filed May 12, 1944. Serial No. 470,184.



FOR MAGAZINE.
Claims use since November 1943.

429,610. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Selzwel Products Co., New York, N. Y. Filed Apr. 28, 1945. Serial No. 482,767.

Selzwel

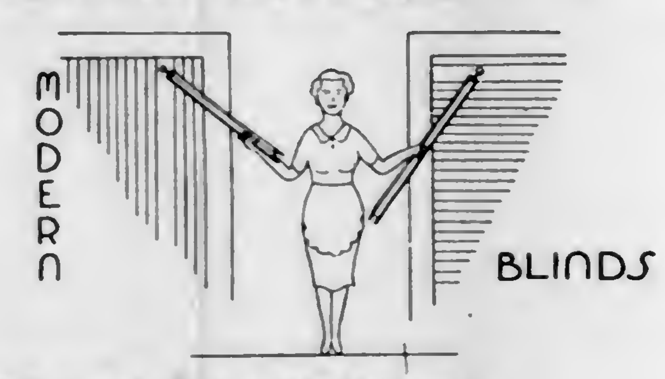
FOR PACIFIERS, NURSING NIPPLES, DRUGGIST'S SUNDRIES—NAMELY, EAR AND RECTAL SYRINGES, ATOMIZERS, THROAT BRUSHES, AND SANITARY BELTS.
Claims use since Dec. 27, 1938.

429,611. (CLASS 38. PRINTS AND PUBLICATIONS.) Oil Color Litho, Chicago, Ill. Filed Aug. 3, 1945. Serial No. 486,693.

"OILTONE"

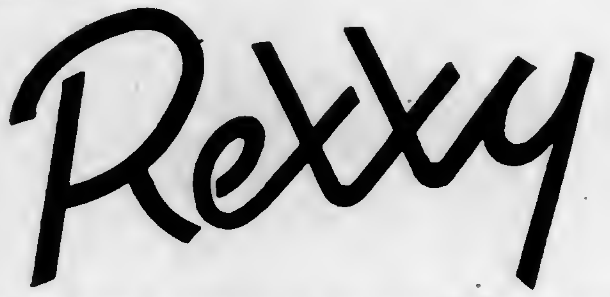
FOR ADVERTISING DISPLAYS SOLD AS SUCH AND REPRODUCTIONS OF PICTURES AND DRAWINGS AND ORIGINAL WORKS OF ART.
Claims use since September 1939.

429,612. CLASS 32. FURNITURE AND UPHOLSTERY.) Aksel Lister-Torsen, Brooklyn, N. Y. Filed Sept. 26, 1945. Serial No. 489,001.



The picture of the woman is fanciful.
FOR VENETIAN BLINDS.
Claims use since Sept. 10, 1945.

429,613. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) Briquet S. A. (Lighter S. A.), Lausanne, Switzerland. Filed Nov. 27, 1945. Serial No. 492,254.



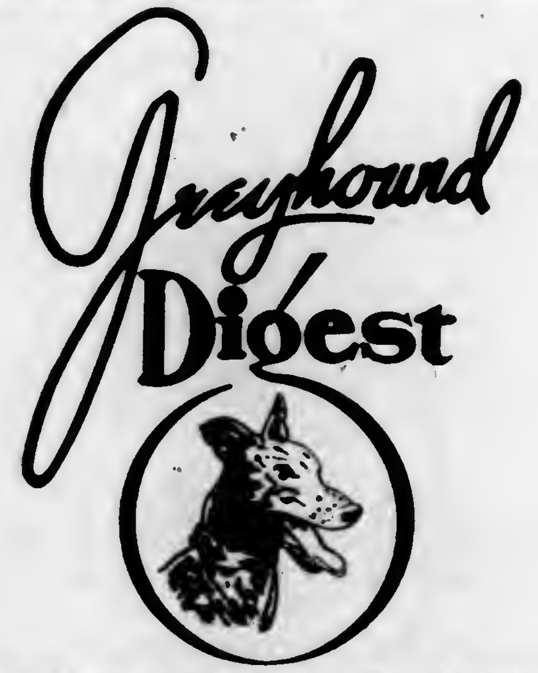
The trade-mark consists of the word "Retty" written in script form and at a slight upward inclination.
FOR PYROPHORIC CIGARETTE LIGHTERS.
Claims use since August 1944.

429,614. (CLASS 43. THREAD AND YARN.) Munro & Company Limited, Edinburgh, Scotland. Filed Nov. 29, 1945. Serial No. 492,390.

MUNROSPUN

FOR HAND KNITTING WOOLS.
Claims use since 1922.

429,615. (CLASS 38. PRINTS AND PUBLICATIONS.) Statistical Publishing Co., Inc., Boston, Mass. Filed Jan. 16, 1946. Serial No. 494,871.



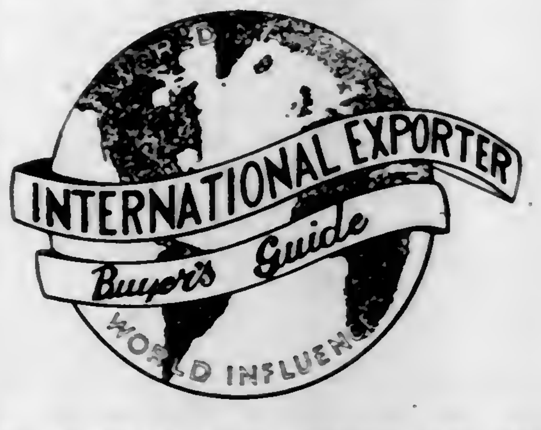
FOR PUBLICATION ISSUED PERIODICALLY COMPRISING INFORMATION RELATING TO RACE RECORDS AND CHARACTERISTICS OF RUNNING DOGS.
Claims use since on or about Jan. 12, 1946.

429,616. (CLASS 38. PRINTS AND PUBLICATIONS.) RICHARD RIMBACH, doing business as Materials Publishing Company, Pittsburgh, Pa. Filed Jan. 18, 1946. Serial No. 494,979.

Material Movement

FOR PUBLICATION PUBLISHED MONTHLY.
Claims use since July 11, 1945.

429,617. (CLASS 38. PRINTS AND PUBLICATIONS.) LATIN AMERICAN BUYERS GUIDE CO., New York, N. Y. Filed Jan. 22, 1946. Serial No. 495,174.



FOR QUARTERLY PUBLICATION RELATING TO EXPORT.
Claims use since Oct. 24, 1945.

429,618. (CLASS 38. PRINTS AND PUBLICATIONS.) ARMY ORDNANCE ASSOCIATION, Washington, D. C. Filed Jan. 24, 1946. Serial No. 495,266.

LOGISTICS

FOR QUARTERLY PUBLICATION.
Claims use since Oct. 25, 1945.

429,619. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED STATES NEWS PUBLISHING CORPORATION, Washington, D. C. Filed Jan. 31, 1946. Serial No. 495,774.

World Personalities

FOR SECTION OF PERIODICAL PUBLICATIONS.
Claims use since Jan. 25, 1946.

429,620. (CLASS 43. THREAD AND YARN.) HEIRLOOM NEEDLEWORK GUILD, INC., New York, N. Y. Filed Feb. 8, 1946. Serial No. 496,237.

STRAWSHEEN

FOR CROCHETING AND KNITTING THREAD AND YARN.
Claims use since Jan. 9, 1946.

429,621. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAL-PACIFIC FISHERIES, Wilmington, Calif. Filed Feb. 12, 1946. Serial No. 496,425.

LAGUNA

FOR CANNED FISH—NAMELY, MINCED ABALONE.
Claims use since Feb. 6, 1946.

429,622. (CLASS 37. PAPER AND STATIONERY.) ASAM BROTHERS, INC., Philadelphia and Reading, Pa. Filed Feb. 27, 1946. Serial No. 497,290.

ASAM
wallpapers

FOR WALLPAPERS.
Claims use since 1925.

429,623. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RAND RUBBER COMPANY, Brooklyn, N. Y. Filed Mar. 11, 1946. Serial No. 498,030.

Lacyfilm

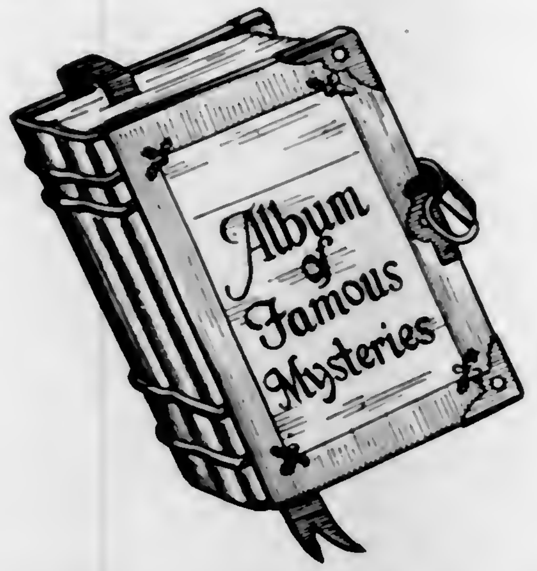
FOR DRESS SHIELDS.
Claims use since Mar. 1, 1946.

429,624. (CLASS 38. PRINTS AND PUBLICATIONS.) McGRAW-HILL PUBLISHING COMPANY, INC., New York, N. Y. Filed Mar. 25, 1946. Serial No. 498,913.

NUCLEONICS

FOR PUBLICATION ISSUED FROM TIME TO TIME PERTAINING TO ATOMIC ENERGY AND RELATED SUBJECTS.
Claims use since Mar. 15, 1946.

429,625. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN WEEKLY, INC., New York, N. Y. Filed Mar. 27, 1946. Serial No. 499,036.



FOR DEPARTMENT, FEATURE OR SECTION OF A NEWSPAPER PUBLISHED WEEKLY AND/OR AT OTHER INTERVALS.
Claims use since Jan. 20, 1946.

429,626. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MICHAEL W. METTENLEITER, New York, N. Y. Filed Mar. 27, 1946. Serial No. 499,068.

ALL-N-ONE

FOR GIN RUMMY SETS CONSISTING OF A PLASTIC BOX CONTAINING PLAYING CARDS, A PENCIL AND A SCORE PAD.
Claims use since Sept. 1, 1944.

429,627. (CLASS 31. FILTERS AND REFRIGERATORS.) HOWARD O. TRERICE, doing business as H. O. Trerice Co., Detroit, Mich. Filed Mar. 28, 1946. Serial No. 499,173.

TRERICE

FOR FILTERS FOR FILTERING COMPRESSED AIR, STEAM AND LIQUIDS.
Claims use since Jan. 1, 1938.

429,628. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) EVER-TITE ALLOYS CORPORATION, New York, N. Y. Filed Mar. 29, 1946. Serial No. 499,220.

EVERTITE

FOR BRAZING ALLOYS AND WELDING ALLOYS.
Claims use since Mar. 18, 1946.

429,629. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN GLOSSITE CO., INC., Putnam, Conn. Filed Apr. 4, 1946. Serial No. 499,606.

SWIRL

FOR HAT BRAIDS—STRAW AND SYNTHETIC.
Claims use since Feb. 15, 1946.

429,630. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) LEON DIAMOND, doing business as Swiss Laboratory, Cleveland, Ohio. Filed Apr. 22, 1946. Serial No. 500,648.

Swiss

FOR WAX AND GREASE REMOVERS, HAND CLEANSERS AND SOAPS.
Claims use since Jan. 10, 1940.

429,631. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) LEON DIAMOND, doing business as Swiss Laboratory, Cleveland, Ohio. Filed Apr. 22, 1946. Serial No. 500,649.

Swiss
FORMULAE

FOR WAX AND GREASE REMOVERS, HAND CLEANSERS AND SOAPS.
Claims use since Jan. 10, 1940.

429,632. (CLASS 38. PRINTS AND PUBLICATIONS.) THE HEARST CORPORATION, New York, N. Y. Filed Apr. 25, 1946. Serial No. 500,879.

TODAY'S GARDEN-GRAPH

FOR NEWSPAPER SECTION, FEATURE OR DEPARTMENT.
Claims use since Mar. 16, 1936.

429,633. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) Leon Diamond, doing business as Swiss Laboratory, Cleveland, Ohio. Filed Apr. 26, 1946. Serial No. 500,966.

Swiss

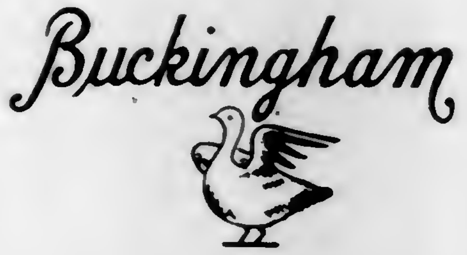
FOR AUTOMOBILE BODY SOLDER, SOLDER AND BRAZING AND WELDING METALS.
Claims use since Jan. 10, 1940.

429,634. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) Leon Diamond, doing business as Swiss Laboratory, Cleveland, Ohio. Filed Apr. 26, 1946. Serial No. 500,967.

Swiss
FORMULAE

FOR AUTOMOBILE BODY SOLDER, SOLDER AND BRAZING AND WELDING METALS.
Claims use since Jan. 10, 1940.

429,635. (CLASS 39. CLOTHING.) Saks & Company, New York, N. Y. Filed Apr. 30, 1946. Serial No. 501,209.



FOR MEN'S AND BOYS' HATS, SHOES MADE OF LEATHER AND FABRIC, OR OF COMBINATIONS THEREOF, COLLARS, NECKTIES, MUFFLERS AND SCARVES.
Claims use since October 1920 to hats; since May 1922 to neckwear.

429,636. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) John W. Murphy, doing business as Murphy Laboratories, Upper Darby, Pa., assignor to Murphy Laboratories Inc., Upper Darby, Pa. Filed May 8, 1946. Serial No. 501,677.

Evergreen
PINE JELLY
SOAP

FOR SOAP.
Claims use since April 1944.

429,637. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) Combs, Inc., Leominster, Mass. Filed May 27, 1946. Serial No. 502,804.

Grip • kom

FOR COMBS, AND HAT AND HAIR FASTENERS AND RETAINERS.
Claims use since Mar. 1, 1946.

429,638. (CLASS 38. PRINTS AND PUBLICATIONS.) Davidson Publishing Company, Chicago, Ill. Filed June 6, 1946. Serial No. 503,353.

PAPER SALES

FOR MAGAZINE.
Claims use since December 1940.

429,639. (CLASS 12. CONSTRUCTION MATERIALS.) Fred J. Morse, doing business as F. J. Morse & Co., St. Paul, Minn., assignor to Everett H. Englund, St. Paul, Minn. Filed June 15, 1946. Serial No. 503,991.

MORSE'S

FOR LIQUID COMPOSITION FOR HARDENING CEMENT FLOORS.
Claims use since June 1, 1914.

429,640. (CLASS 12. CONSTRUCTION MATERIALS.) Kerrigan Iron Works, Inc., Nashville, Tenn. Filed June 17, 1946. Serial No. 504,049.

Weldforged

FOR OPEN STEEL GRATING FOR FLOORING AND FOR ALL CONSTRUCTION USES, PIPE RAILS USED IN CONSTRUCTION OF COMMERCIAL AND RESIDENTIAL BUILDINGS, BRIDGES, ROADS AND DAMS, STEEL STAIRS AND STAIR TREADS, BAR JOISTS, FIRE ESCAPES, AND CHAIN LINK AND STEEL FENCES AND GATES.
Claims use since Oct. 2, 1943.

429,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Nick Sciabica & Sons, Modesto, Calif. Filed June 19, 1946. Serial No. 504,215.

MARSALA

FOR OLIVE OIL.
Claims use since Feb. 10, 1936.

429,642. (CLASS 38. PRINTS AND PUBLICATIONS.) Comfort Press, Inc., St. Louis, Mo. Filed June 21, 1946. Serial No. 504,329.

Writer's Guide

FOR MAGAZINES.
Claims use since Sept. 9, 1944.

429,643. (CLASS 38. PRINTS AND PUBLICATIONS.) Current Detective Stories, Inc., New York, N. Y. Filed June 21, 1946. Serial No. 504,335.

EXCLUSIVE
DETECTIVE

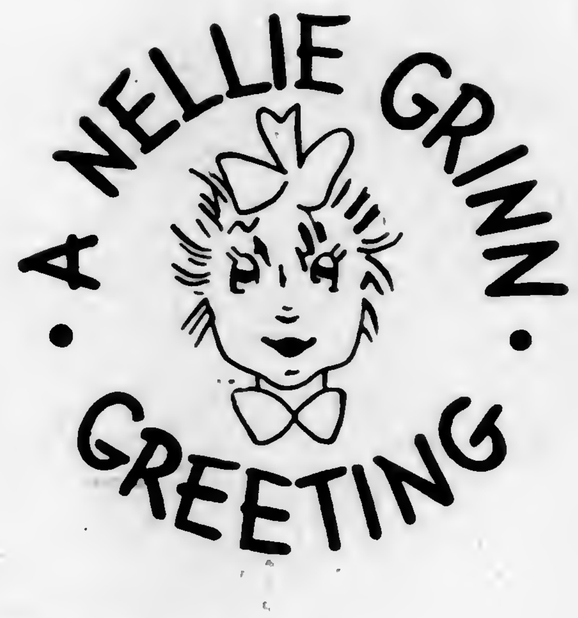
FOR MAGAZINE OR PUBLICATION PUBLISHED PERIODICALLY.
Claims use since July, 1942.

429,644. (CLASS 38. PRINTS AND PUBLICATIONS.) Non-Pareil Publishing Corp., New York, N. Y. Filed June 21, 1946. Serial No. 504,381.

EXPOSE
DETECTIVE

FOR MAGAZINE OR PUBLICATION PUBLISHED PERIODICALLY.
Claims use since October 1941.

429,645. (CLASS 38. PRINTS AND PUBLICATIONS.) Grinnell Lithographic Co., Inc., New York, N. Y. Filed June 25, 1946. Serial No. 504,551.



FOR GREETING CARDS.
Claims use since Jan. 10, 1945.

429,646. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. A. Sexauer Mfg. Co. Inc., New York, N. Y. Filed July 8, 1946. Serial No. 505,252.

SEXAUER

FOR ENAMEL CLEANER, CLOSET BOWL CLEANER AND PORCELAIN CLEANER AND POLISH.
Claims use since 1929.

429,647. (CLASS 12. CONSTRUCTION MATERIALS.) Allen-Brash Company, Coraopolis, Pa. Filed Aug. 27, 1946. Serial No. 508,088.

SEAL-WOOD

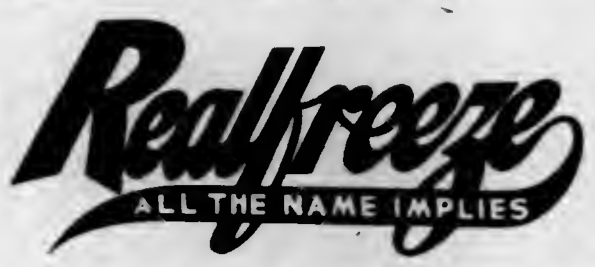
FOR WOOD PUTTY, TO BE USED TO FILL IN AND REPAIR CREVICES, CRACKS, AND HOLES IN FURNITURE, CABINETS, DOORS, BOATS, TOYS, AND OTHER WOOD PRODUCTS.
Claims use since Oct. 19, 1939.

429,648. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Norland Manufacturing Corporation, Brooklyn, N. Y. Filed Aug. 29, 1946. Serial No. 508,282.

JET-O-PLANE

FOR TOY AIRPLANES AND PARTS THEREFOR.
Claims use since Jan. 1, 1945.

429,649. (CLASS 31. FILTERS AND REFRIGERATORS. Frank C. Wentink, Grand Rapids, Mich. Filed Nov. 4, 1946. Serial No. 512,034.



FOR REFRIGERATION EQUIPMENT—NAMELY, "SHARP" FREEZE CABINETS AND FREEZING UNITS, INCLUDING THE REFRIGERATOR UNIT DESIGNED FOR USE IN HOMES AND SMALL BUSINESS ESTABLISHMENTS FOR FREEZING AND STORING FOOD STUFFS.

Claims use since Oct. 20, 1945.

429,650. (CLASS 12. CONSTRUCTION MATERIALS.) M and M Wood Working Company, Portland, Oreg. Filed Nov. 18, 1946. Serial No. 512,787.

ROLLWOOD

FOR LAMINATED SHEET MATERIAL COMPRISING AT LEAST ONE PLY OF WOOD VENEER AND ONE PLY OF A FIBROUS CELLULOSIC MATERIAL HAVING CHARACTERISTICS OF PAPER, FOR USE IN BUILDING CONSTRUCTION.

Claims use since May 4, 1944.

TRADE-MARK REGISTRATIONS RENEWED

50,358. **"ALABASTINE" AND DESIGN.** WALL PAINT OR COATING. Registered Mar. 13, 1906. Alabastine Company. Re-renewed Mar. 13, 1946, to Alabastine Paint Products, Grand Rapids, Mich., a partnership. Class 16.

57,174. **"W CO" & DESIGN.** WOOLEN AND WORSTED WOVEN FABRICS IN THE PIECE. Registered Nov. 6, 1906. Wanskuck Company, Providence, R. I. Re-renewed Nov. 6, 1946, to Wanskuck Company, New York, N. Y., a corporation of Rhode Island. Class 42.

57,418. **REPRESENTATION OF DOGS ETC.** GUNPOWDER, INCLUDING SMOKELESS POWDER. Registered Nov. 13, 1906. E. I. du Pont Company. Re-renewed Nov. 13, 1946, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 9.

57,767. **AJAX.** CHAIN AND CHAIN-LINKS. Registered Nov. 27, 1906. Standard Chain Co., Pittsburg, Pa. Re-renewed Nov. 27, 1946, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Class 13.

58,012. **LIFE SAVING SERVICE.** CANNON-POWDER. Registered Dec. 4, 1906. The Hazard Powder Company, Hazardville, Conn. Re-renewed Dec. 4, 1946, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 9.

58,013. **"KENTUCKY RIFLE GUNPOWDER" AND ILLUSTRATION.** GUNPOWDER. Registered Dec. 4, 1906. The Hazard Powder Company, Hazardville, Conn. Re-renewed Dec. 4, 1946, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 9.

58,223. **HB.** CHAIN AND CHAIN-LINKS. Registered Dec. 11, 1906. Standard Chain Company, Pittsburg, Pa. Re-renewed Dec. 11, 1946, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Class 13.

58,523. **HC.** AUTOMATIC GASLIGHTING APPARATUS, ANNUNCIATORS, COMPLETE TELEPHONES AND PARTS THEREOF, DYNAMOS, AND MOTORS. Registered Dec. 18, 1906. The Holtzer-Cabot Electric Co., Brookline, Mass. Re-renewed Dec. 18, 1946, to First Industrial Corporation, Wilmington, Del., a corporation of Delaware. Class 21.

58,902. **"GERMEA" AND ILLUSTRATION OF GIRL.** ROLLED-WHEAT MEAL FOR BREAKFAST FOOD. Registered Dec. 25, 1906. Sperry Flour Company, San Francisco, Calif. Re-renewed Dec. 25, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

59,096. **RECTANGULAR DESIGN WITH A DIAGONAL BLUE BAND.** SALERATUS AND SODA. Registered Jan. 1, 1907. Church & Dwight Company. Re-renewed Jan. 1, 1947, to Church & Dwight Co. Inc., New York, N. Y., a corporation of Delaware. Class 6.

59,147. **THE TOLEDO.** PUNCH-PRESSES, DROP-HAMMERS, POWER-SHEARS, FOOT-PRESSES, FORGING-PRESSES, ROTARY SLITTERS, GANG SLITTING-MACHINES, WIRING-MACHINES, SCREW-PRESSES, AND OTHER MACHINERY AND PARTS OF MACHINERY. Registered Jan. 1, 1907. The Toledo Machine & Tool Co., Toledo, Ohio. Re-renewed Jan. 1, 1947, to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware. Class 23.

59,829. **"ARC LIGHT" AND DESIGN.** REFINED PETROLEUM, AND BURNING-OILS FOR LIGHTING AND HEATING. Registered Jan. 22, 1907. Pure Oil Company, Philadelphia, Pa. Re-renewed Jan. 22, 1947, to The Pure Oil Company, Chicago, Ill., a corporation of Ohio. Class 15.

60,148. **"PONCE de LEON" ETC., AND DRAWING.** CIGARS. Registered Jan. 29, 1907. Cuesta, Rey & Co., West Tampa, Fla. Re-renewed Jan. 29, 1947, to Cuesta Rey and Company, Tampa, Fla., a corporation of Florida. Class 17.

60,572. **TIP TOP.** STOVES AND RANGES. Registered Feb. 12, 1907. Southern Stove Works, Branch Continental Stove Co. Incorporated. Re-renewed Feb. 12, 1947, to Southern Stove Works, Inc., Richmond, Va., a corporation of Virginia. Class 34.

60,715. **C. C. PARSONS.** AQUA-AMMONIA. Registered Feb. 19, 1907. Columbia Chemical Works, Brooklyn, N. Y. Re-renewed Feb. 19, 1947, to Parsons Ammonia Company, Inc., New York, N. Y., a corporation of New York. Class 6.

60,741. **"T" AND DESIGN.** SOCKETS, RECEPTACLES, SWITCHES, SWITCHBOARDS, PANEL-BOARDS, CUT-OUTS, FUSE-BLOCKS, FUSES, ROSETTES, FUSE-PROTECTING DEVICES, INSULATING DEVICES, JUNCTION-BOXES, AND ELECTRICAL CONTROLLERS. Registered Feb. 19, 1907. The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut. Re-renewed Feb. 19, 1947. Class 21.

61,007. **"PARSON'S" ETC.** AQUA AMMONIA. Registered Feb. 26, 1907. Columbia Chemical Works, Brooklyn, N. Y. Re-renewed Feb. 26, 1947, to Parsons Ammonia Company, Inc., New York, N. Y., a corporation of New York. Class 6.

61,376. **COUNTESS.** HOSIERY. Registered Mar. 19, 1907. Chas. Chipmans Sons, Easton, Pa. Re-renewed Mar. 19, 1947, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York. Class 39.

196,337. **ABADIE.** CIGARETTE PAPERS, CIGARETTE HOLDERS, AND CIGARETTE MOUTHPIECES. Registered Mar. 17, 1925. Societe Anonyme Des Papiers Abadie, Paris, France, a corporation of France. Renewed Mar. 17, 1945. Class 8.

205,921. **"ALÉSIA" AND DRAWING.** CIGARETTE PAPERS. Registered Nov. 17, 1925. Glatron, Baschet & Cie. Renewed Nov. 17, 1945, to Glatron Pere & Fils, Baschet & Cie., Paris, France, a joint-stock company of France. Class 8.

209,045. **"TEX TON" AND DESIGN.** CONDIMENTS, SAUCES, BOUILLON CUBES AND SOUP TABLETS, ALL CONTAINING CHEMICALLY-DECOMPOSED VEGETABLE ALBUMEN. Registered Feb. 16, 1926. Haco-Gesellschaft A.-G. Bern, Gumligen, Switzerland. Renewed Feb. 16, 1946, to Haco Gesellschaft A. G., Bern-Guemligen, Switzerland, a company of the Swiss Republic. Class 46.

218,261. **"BAN".** HAIR REMOVER. Registered Sept. 21, 1926. Geo. B. Evans, Philadelphia, Pa. Renewed Sept. 21, 1946, to Bristol-Myers Company, New York, N. Y., a corporation of Delaware. Class 6.

219,267. **"FEATHERWEIGHT MANIFOLD" AND DRAWING.** TYPEWRITING AND PRINTING PAPER. Registered Oct. 12, 1926. Wansco Paper Products Corp. Renewed Oct. 12, 1946, to Wansco Paper Products Co. Inc., New York, N. Y., a corporation of New York. Class 37.

219,339. **"KELVINATOR" ETC.** ELECTRICALLY-OPERATED MECHANICAL REFRIGERATORS. Registered Oct. 19, 1926. Kelvinator Corporation. Renewed Oct. 19, 1946, to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland. Class 31.

219,902. **"SUPERTAN" AND DESIGN.** LEATHER BELTING. Registered Oct. 26, 1926. Baldwin Belting & Leather Co., Inc. Renewed Oct. 26, 1946, to Baldwin Belting Inc., New York, N. Y., a corporation of New York. Class 35.

220,473. **ROMAINETTE CREPE.** SHEER SILK CREPE IN THE PIECE. Registered Nov. 9, 1926. Duplex Silk Mills, Inc. Renewed Nov. 9, 1946, to Duplex Fabrics Corporation, New York, N. Y., a corporation of New York. Class 42.

221,109. **COUNTRY LAD.** BLEND OF CORN SIRUP, MOLASSES, AND PURE COUNTRY SORGHUM. Registered Nov. 23, 1926. American Syrup and Sorghum Co. Renewed Nov. 23, 1946, to American Syrup & Sorghum Co., St. Louis, Mo., a corporation of Arkansas. Class 46.

221,474. **"ORIGINAL DEL PISO NEW YORK" AND DESIGN.** LEATHER SHOES, FABRIC SHOES, AND SHOES MADE OF COMBINATIONS OF LEATHER AND FABRIC. Registered Nov. 30, 1926. Dan Palter, Inc. Renewed Nov. 30, 1946, to Palter-DeLiso, Inc., New York, N. Y., a corporation of New York. Class 39.

222,411. **MASTERPED.** MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, RUBBER, OR FABRIC OR COMBINATIONS OF THESE MATERIALS. Registered Jan. 4, 1927. Peter Pan Shoe Store. Renewed Jan. 4, 1947, to Charles Cohen, Brooklyn, N. Y. Class 39.

222,820. **"F SASTIGA" AND DESIGN.** ARTIFICIAL-SILK YARNS, ARTIFICIAL-SILK TWISTED THREADS. Registered Jan. 11, 1927. Feldmühle A.-G. vormals Loeb, Schoenfeld & Co. Rorschach. Renewed Jan. 11, 1947, to Feldmühle A. G., Rorschach, Rorschach, Switzerland, a corporation of Switzerland. Class 43.

223,576. **POLO.** GARTERS. Registered Feb. 8, 1927. A. Stein & Company, Chicago, Ill., a corporation of Illinois. Renewed Feb. 8, 1947. Class 39.

223,665. **GRACE-MORE.** LADIES' DRESSES. Registered Feb. 8, 1927. Hale Bros., Inc. Renewed Feb. 8, 1947, to Hale Bros. Stores, Inc., San Francisco, Calif., a corporation of Delaware. Class 39.

224,183. **"POLAR" ETC.** METAL KITCHEN AND COOKING POTS, METAL KITCHEN AND COOKING PANS, AND METAL KITCHEN AND COOKING KETTLES. Registered Feb. 22, 1927. Polar Ware Company, Sheboygan, Wis., a corporation of Wisconsin. Renewed Feb. 22, 1947. Class 13.

224,265. **"F SASTIGA" AND DESIGN.** FABRICS MADE FROM ARTIFICIAL-SILK YARNS AND FROM ARTIFICIAL-SILK TWISTED THREADS. Registered Feb. 22, 1927. Feldmühle A.-G., vormals Loeb, Schoenfeld & Co. Rorschach. Renewed Feb. 22, 1947, to Feldmühle A. G., Rorschach, Rorschach, Switzerland, a corporation of Switzerland, a corporation of Switzerland. Class 42.

224,686. **"JEMCO" AND DESIGN.** WITCH-HAZEL CREAM, CUCUMBER CREAM, COLD CREAM, LEMON CLEANSING CREAM, AND COCOA-BUTTER CREAM. Registered Mar. 1, 1927. Jordan Marsh Company, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 1, 1947. Class 6.

224,808. **WY-KOTE.** READY-MIXED PAINTS. Registered Mar. 8, 1927. The D. P. W. Company, Akron, Ohio, a corporation of Ohio. Renewed Mar. 8, 1947. Class 16.

224,977. **MENU.** TOMATO CATCHUP, PICKLES, VINEGAR, PREPARED MUSTARD, CHILI SAUCE, CHOW-CHOW, AND PICKLE RELISHES. Registered Mar. 8, 1927. The Harbauer Company, Toledo, Ohio, a corporation of Ohio. Renewed Mar. 8, 1947. Class 46.

224,998. **"SAXON CORD" AND DESIGN.** PNEUMATIC AUTOMOBILE TIRES. Registered Mar. 8, 1927. The India Tire and Rubber Company, Mogadore and Akron, Ohio. Renewed Mar. 8, 1947, to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Class 35.

225,200. **"JEMCO" AND DESIGN.** TOILET TISSUE. Registered Mar. 15, 1927. Jordan Marsh Company, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 15, 1947. Class 37.

225,240. **DRAPEWELL.** METAL CURTAIN RODS, DRAPERY HARDWARE, AND WINDOW-SHADE HARDWARE. Registered Mar. 15, 1927. Kenney Manufacturing Company, Cranston, R. I., a corporation of Rhode Island. Renewed Mar. 15, 1947. Class 13.

225,253. **HERCO.** SMOKELESS SHOTGUN POWDER. Registered Mar. 15, 1927. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Renewed Mar. 15, 1947. Class 9.

225,456. **REPRESENTATION OF KITTEN ETC.** THREADS OF SILK, COTTON, FLAX, OR OTHER FIBROUS MATERIAL FOR CROCHETING, EMBROIDERING, KNITTING, SEWING, STITCHING. Registered Mar. 22, 1927. The Corticelli Silk Company, Florence, Mass. Renewed Mar. 22, 1947, to Belding Heminway Company, New York, N. Y., a corporation of Connecticut. Class 43.

225,495. **"VICTORY ARCH" ETC. AND REPRESENTATION OF FOOT.** LEATHER BOOTS AND SHOES. Registered Mar. 22, 1927. Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Renewed Mar. 22, 1947. Class 39.

225,536. **"SUPER SUDS!" AND DESIGN.** SOAP CHIPS. Registered Mar. 22, 1927. Colgate & Company. Renewed Mar. 22, 1947, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

225,538. **"LUSTRAY" AND DESIGN.** DRESS AND NEGLIGEE SHIRTS. Registered Mar. 22, 1927. Lustberg, Nast & Co., Inc., New York, N. Y., a corporation of New York Renewed Mar. 22, 1947. Class 39.

225,545. **LYSOL.** SOAP, SHAVING CREAM, AND PREPARATIONS HAVING CLEANING QUALITIES RECOMMENDED FOR USE IN THE HOUSEHOLD, PUBLIC INSTITUTIONS, AND INDUSTRIAL PLANTS, USEFUL IN THE DRY-CLEANING INDUSTRY, AND FOR OTHER NAMED USES. Registered Mar. 22, 1927. Lysol, Incorporated. Renewed Mar. 22, 1947, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Class 4.

225,609. **"MALLARD" AND REPRESENTATION OF MALLARD.** RICE. Registered Mar. 22, 1927. Mermentau Rice Mill Co., Inc., Mermentau, La., a corporation of Louisiana. Renewed Mar. 22, 1947. Class 46.

REISSUES

MAY 6, 1947

22,875

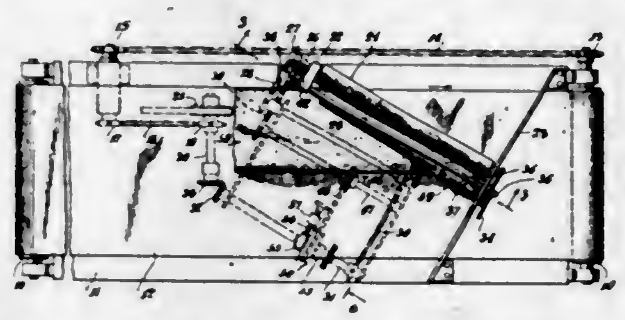
BUN MAKING MACHINE

William C. Grimm and Richard H. Linneman, Jersey City, N. J., assignors, by mesne assignments, to General Baking Company, New York, N. Y., a corporation of New York

Original No. 2,354,681, dated August 1, 1944, Serial No. 471,514, January 6, 1943. Application for reissue January 3, 1947, Serial No. 719,986

17 Claims. (Cl. 107—9)

1. In a bun making machine, the combination with means to move an elongated roll of dough lengthwise along a defined path substantially in the direction of its axis, of a roll shearing device comprising a pair of depending shear blades mounted substantially above the defined path, each blade having a lower end portion thereof turned inwardly toward the other blade to engage beneath such roll, and means to move at least one of said blades toward the other so as to engage the end portions thereof beneath the roll, pick up the latter and shear through it with a substantially encompassing action.



PLANT PATENTS

MAY 6, 1947

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

735

MAPLE TREE

Pierre Barbier, Orleans, France, assignor to Gulf Stream Nursery, Inc., Wachapreague, Va.

Application January 16, 1946, Serial No. 641,537

1 Claim. (Cl. 47—59)

The new and distinct variety of Norway maple tree substantially as shown and described, characterized particularly by its upright growth and the continuity of the very dark reddish purple color of its foliage throughout the growing season.

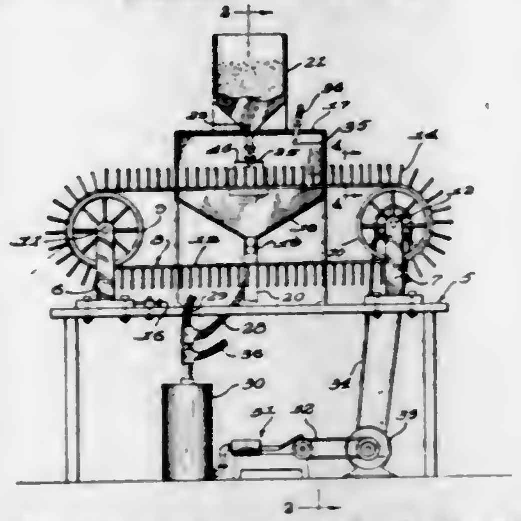
PATENTS

GRANTED MAY 6, 1947

2,419,933

EGG CLEANING MACHINE

Roy E. Hutchins, Jr., Raymond, N. H.
Application April 15, 1946, Serial No. 662,390
7 Claims. (Cl. 51—14)



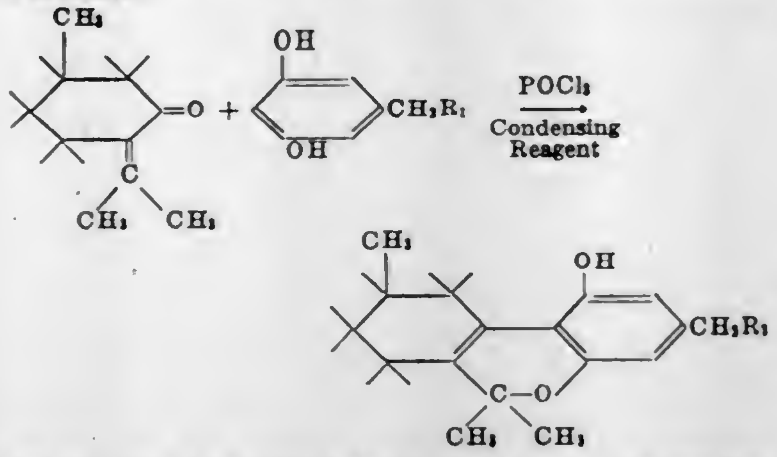
1. In an egg cleaning machine, traveling egg supporting and conveying means, and sand blasting means to direct oppositely moving blasts of sand in different planes against the successive eggs as they are carried along by said supporting and conveying means, whereby to turn the eggs while being sand blasted.

2,419,934

OPTICALLY ACTIVE TETRAHYDRODIBENZOPYRANS HAVING MARIHUANA ACTIVITY AND PROCESS FOR MAKING SAME

Roger Adams, Urbana, Ill.
No Drawing. Application July 9, 1941, Serial No. 401,655
14 Claims. (Cl. 260—333)

2. The process represented by the following reaction:



where R_1 is selected from the group consisting of hydrogen and alkyl groups having 1 to 10 carbon atoms and in which the two reactants on the left side of the arrow are condensed in the presence of $POCl_3$ to yield the product of the formula on the right of the arrow.

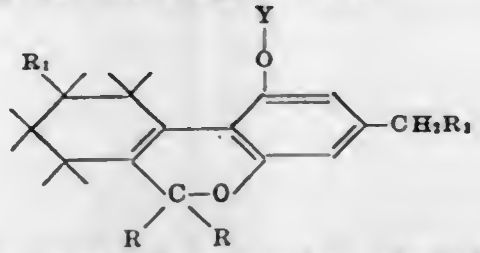
2,419,935

MARIHUANA ACTIVE COMPOUNDS

Roger Adams, Urbana, Ill.
No Drawing. Application July 9, 1941, Serial No. 401,656
27 Claims. (Cl. 260—333)

1. The process of preparing a tetrahydrodibenzopyran which includes the following steps: (*a*) condensing an R_1-cyclohexanone-2-carboxylate with a 1,3-dihydroxy 5-R_2CH_2-benzene and (*b*) treating the pyrone reaction product formed by step (*a*) with an R-Grignard reagent to form the corresponding tetrahydro-6-dibenzopyran, where R_1 represents a member selected from the group consisting of hydrogen and lower alkyl groups, R_2 represents a member selected from the group consisting of hydrogen and alkyl groups having 1–10 carbon atoms and R represents a lower alkyl group.

9. A tetrahydro-dibenzopyran product represented by the following formula:



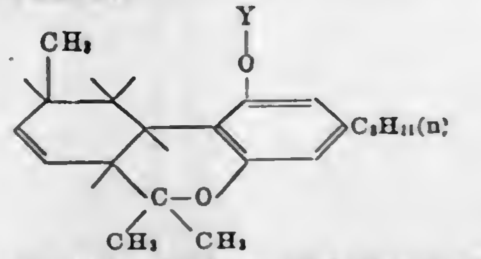
where R_1 represents a member selected from the group consisting of hydrogen and lower alkyl groups, R_2 represents a member selected from the group consisting of hydrogen and alkyl groups having 1–10 carbon atoms, R represents lower alkyl groups and Y is selected from the group consisting of hydrogen and lower alkyl and acyl groups; said product being substantially free of cannabidiol and of toxic impurities, and optically inactive.

2,419,936

PREPARATION OF COMPOUNDS WITH MARIHUANA ACTIVITY

Roger Adams, Urbana, Ill.
No Drawing. Application April 29, 1942, Serial No. 440,971
13 Claims. (Cl. 260—333)

1. Tetrahydro cannabinols represented by the following formula:



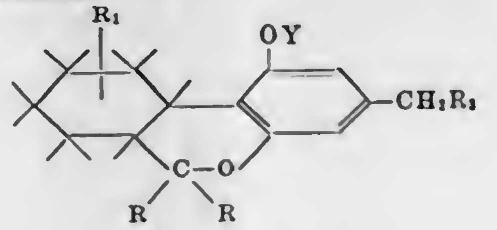
in which Y is selected from the group consisting of hydrogen, methyl and acetyl groups; said tetrahydro-cannabinol compound being substantially free of cannabidiol and of toxic impurities, and optically active.

2,419,937

MARIHUANA ACTIVE COMPOUNDS

Roger Adams, Urbana, Ill.
No Drawing. Application March 27, 1944, Serial No. 528,351
9 Claims. (Cl. 260—333)

2. A pyran compound represented by the following formula:

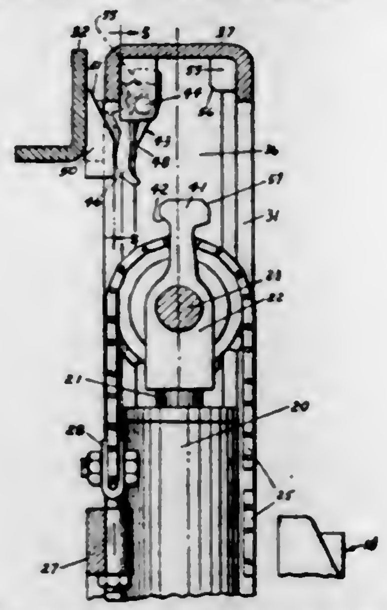


where R represents a lower alkyl group, R_1 is selected from the group consisting of hydrogen and lower alkyl groups, R_2 is selected from the group consisting of hydrogen and alkyl groups containing one to ten carbon atoms and Y is selected from the group consisting of hydrogen and lower alkyl and acyl groups.

2,419,938

TRUCK HOIST MECHANISM

Edward J. Abbe, Cleveland Heights, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a corporation of Ohio
Application October 8, 1945, Serial No. 620,917
4 Claims. (Cl. 187—9)

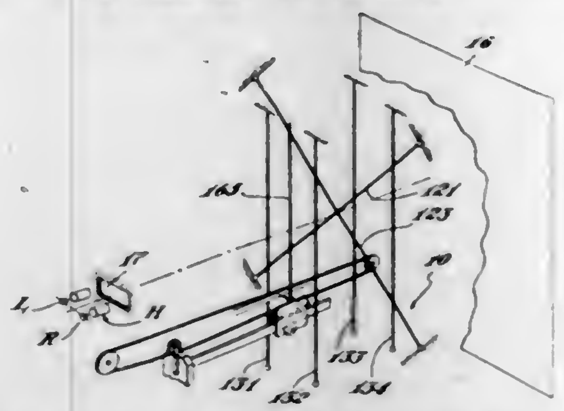


1. In an industrial truck, an upright support for guiding a platform vertically, said support including two sections, one slidable vertically relative to the other; a platform movable along said support; a piston movable vertically and engageable with said one section for moving the latter and for raising said platform; means forming a latching connection between said piston and said one section whereby when the piston is being lowered said piston lowers said one section; and means for actuating the first mentioned means for releasing said piston and section when said section is lowered to a predetermined position.

2,419,939

BINOCULAR VISION TEST

Adelbert Ames, Jr., Hanover, N. H.
Application March 31, 1943, Serial No. 481,181
28 Claims. (Cl. 88—20)

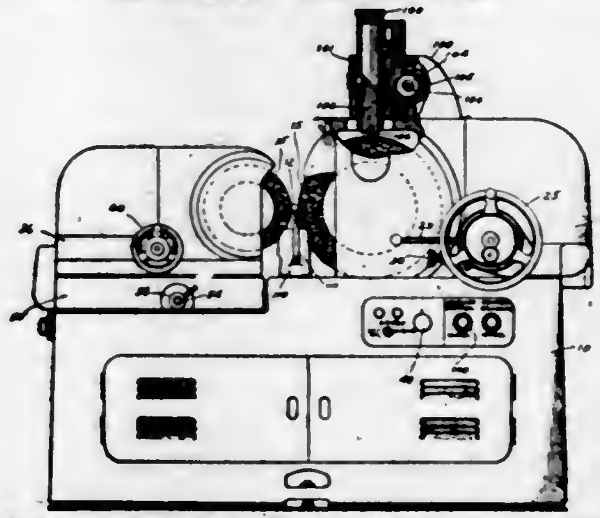


7. A device for subjectively testing an observer's ability of localizing objects in space dependent upon the observer's ability to localize the hereinafter mentioned target elements relatively to the normal position of said target elements, comprising means for presenting to the eyes of an observer two thread-like target elements appearing to the normal observer in one fronto-parallel plane and each parallel to and at approximately equal distances at opposite sides of the median plane; means for presenting to the eyes of the observer two thread-like target elements appearing to the normal observer in a second fronto-parallel plane substantially spaced from said first fronto-parallel plane and intersecting said median plane at angles of approximately 45° near said visual plane, the said positions of the thread-like elements constituting the normal test element position, and said thread-like target elements being substantially devoid of detail which can be sensed as to form in the longitudinal directions of said elements; and means for eliminating from the observer's vision the end portions of said thread-like target elements and extraneous such as environmental objects; the appearance of said thread-like elements relative to said normal position being a measure of the observer's ability to localize objects in space.

2,419,940

GRINDING MACHINE

Harold E. Balsiger, Waynesboro, Pa., and John A. Boller, Thurmont, Md., assignors to Landis Tool Company, Waynesboro, Pa.
Application March 3, 1944, Serial No. 524,948
21 Claims. (Cl. 51—103)

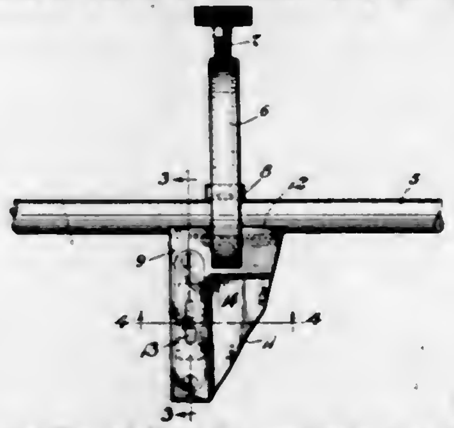


1. A centerless grinding machine comprising a grinding wheel and a control wheel, a support for said control wheel, a pair of guide surfaces on said support for movement thereof toward and from said grinding wheel, means for effecting said movement, one of said guide surfaces being curved about an axis parallel with said direction of movement and means for tilting said control wheel support on said curved surface away from a vertical position.

2,419,941

CENTER GAGE FOR THREADING TOOLS

Alexander Emil Belzung, San Diego, Calif.
Application August 23, 1944, Serial No. 550,816
3 Claims. (Cl. 33—89)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

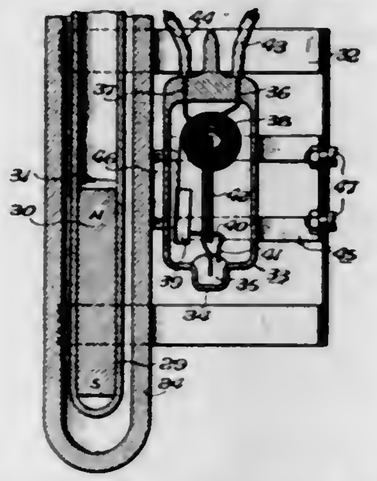


1. A gage for aiding in centering a thread cutting tool with respect to the axis of a cylindrical piece of work, said gage comprising a plate with a V-notch and clamp means, respectively, for

temporarily receiving and affixing the plate to the work, one of the sides of the plate being so formed as to establish a predetermined angle with respect to the work, a portion of the plate being recessed adjacent to said one side to provide a plane surface lying in the plane of the center of the V-notch.

2,419,942
FLOW ACTUATED SWITCH

Nathaniel Brewer, Hatfield, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania
Application October 18, 1943, Serial No. 506,675
7 Claims. (Cl. 200—81)



1. For use with an instrument sensitive to a variable condition, a magnet, means connected to said instrument for moving said magnet responsive to variation in said condition, switch means including a magnetically-actuated make-and-break element disposed adjacent the path of travel of said magnet, and an auxiliary magnet having one pole disposed adjacent said make-and-break element, the pole of said auxiliary magnet alone having insufficient strength to actuate said make-and-break element, but together with the aligned similar pole of the first-mentioned magnet being capable of actuating said make-and-break mechanism.

2,419,943
PREPARATION OF SULFUR-CONTAINING POLYMERS

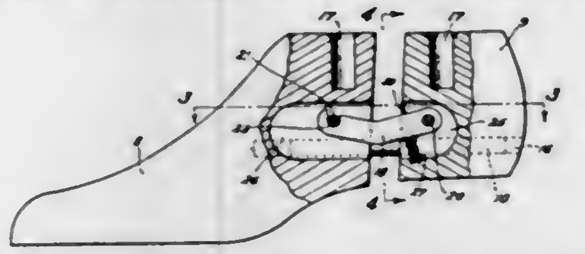
William James Burke, Marshallton, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 22, 1943, Serial No. 503,417
10 Claims. (Cl. 260—768)

1. Process for preparing sulfur-containing materials which comprises reacting an ethylenically polyunsaturated macromolecular polymer having an iodine number of at least 25 with a monocarbothiolic acid, in amount preponderating over that of the polymer, in the presence of a peroxy catalyst until at least one mole of the monocarbothiolic acid is introduced per four ethylenic linkages in the polymer.

2,419,944
SHOE LAST

George Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio
Application June 21, 1945, Serial No. 600,745
9 Claims. (Cl. 12—135)

1. In a shoe last the combination of a fore part, a back part, guide means for providing relative movement for each last part into last expanded and last contracted position along a line parallel to the longitudinal axis of said last, and means for locking the parts in expanded position and comprising a latch element rockably mounted on one last part and having a notch formed therein, a cooperating catch element fixed within and bodily movable with the other last part, and means for biasing the first mentioned latch element in a direction to engage the notch in the cooperating element and to secure a sliding engagement between the elements.



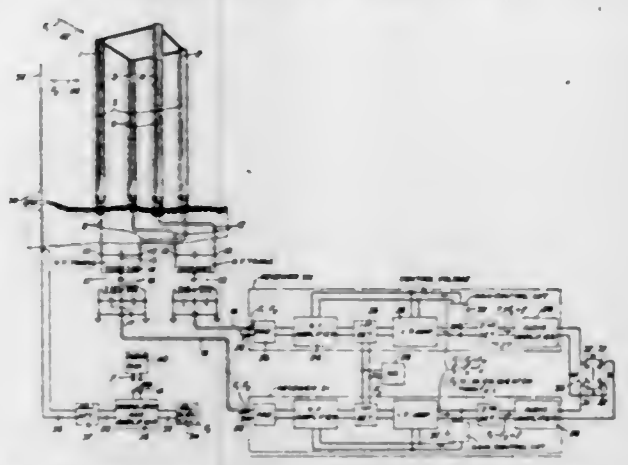
2,419,945
FROTH FLOTATION OF SILICA FROM IRON ORE

Julius Bruce Clemmer and Milton Friel Williams, Jr., Tuscaloosa, Ala.
No Drawing. Application December 11, 1944, Serial No. 567,762
6 Claims. (Cl. 209—166)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for beneficiating iron ores by froth flotation of the siliceous gangue constitutents from iron oxides which comprises adding a sufficient quantity of hydrated lime to a deslimed pulp of the comminuted ore to establish a pulp pH of about 12 and to substantially saturate the pulp with dissolved lime, and an anion-active collecting agent selected from the group consisting of fatty acids, rosin acids, and soaps derived from such acids, and thereafter subjecting said pulp to agitation and aeration whereby siliceous gangue is floated and beneficiated iron ore is depressed and recovered.

2,419,946
HIGH-FREQUENCY DIRECTION FINDER

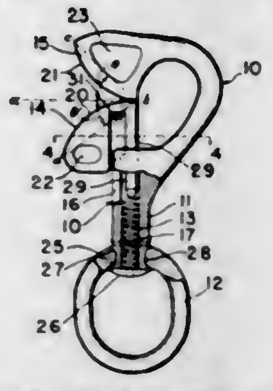
Charles F. Edwards, Red Bank, and Karl G. Jansky, Little Silver, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 17, 1942, Serial No. 431,194
11 Claims. (Cl. 250—11)



1. In combination with a system for determining the direction of an incoming wave comprising a pair of receiving channels each having a separate automatic gain regulator controlled by the received energy, means for maintaining the gains in said channels equal and substantially independent of the arrival direction and fading of said incoming wave comprising a source of radio energy connected through paths of equal length to said channels for supplying to said channels control wave components each having a large magnitude relative to said incoming wave.

2,419,947
SIGNAL SNAP HOOK

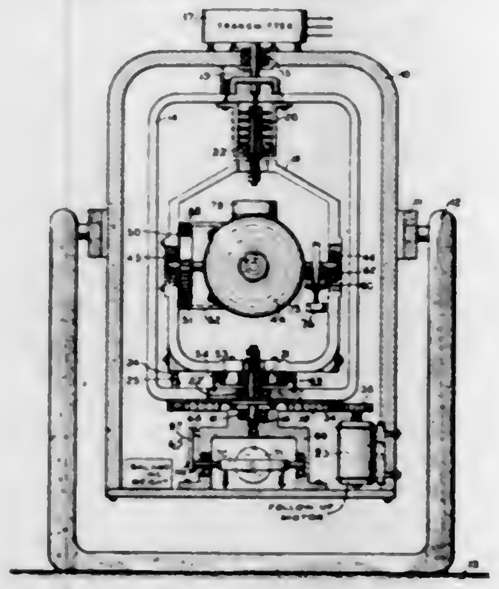
Gerald Ellis Foreman, United States Navy
Application January 23, 1945, Serial No. 574,176
1 Claim. (Cl. 24—239)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A wide mouthed quick acting snap hook comprising a shank, said shank having an axial channel therein, an axial wall of said shank having a partial slot extending therethrough to said axial channel, an outwardly extending hook jaw integral with said shank forming a part of a reentrant enclosure, a movable jaw completing the reentrant enclosure when in closed position, a plunger integral with said movable jaw slidably mounted in said axial channel, spring means positioned within said axial channel biasing said plunger and movable jaw to closed position against said hook jaw, an outwardly flared lip integral with said integral hook jaw, a similar outwardly flared lip integral with said movable jaw, both said lips flaring outwardly from their point of contact to form an entrant angle of substantially 90°, and a web extending through said slot integrally connecting said plunger and said flared lip of said movable jaw.

2,419,948
GYROCOMPASS

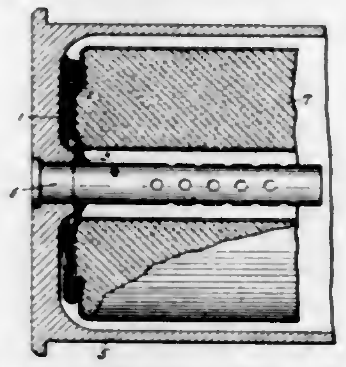
Robert Haskins, Jr., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc., a corporation of New York
Application April 29, 1943, Serial No. 485,077
17 Claims. (Cl. 33—226)



5. A dual period gyro compass having a normal period on the order of a few minutes and a secondary period on the order of one and one half hours, means for changing the compass from its normal to its secondary period, and means responsive to turn of the craft for bringing said first means into action.

2,419,949
DEVICE FOR SECURING A PROPELLENT CHARGE TO AN ARTILLERY PRIMER

Edwin J. Hottinger, Rockaway, N. J.
Application February 7, 1944, Serial No. 521,386
1 Claim. (Cl. 102—38)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



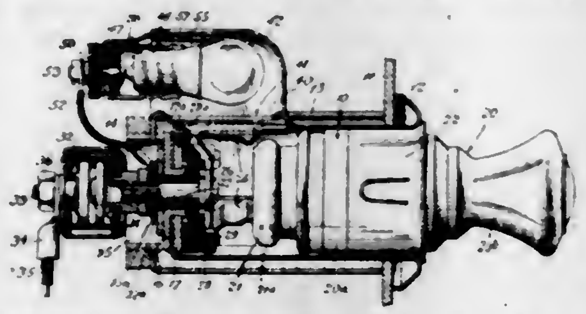
In semi-fixed ammunition, the combination of a cartridge case having a base, a cylindrical primer tube secured thereto and within the same, said primer tube having a portion thereof adjacent said base provided with a smooth peripheral surface, an anchoring device on said primer tube for anchoring an ammunition increment of a propellent charge in said cartridge case, said device comprising an annular retainer ring portion having a plurality of circumferentially spaced openings, means extending through said openings for attaching the ammunition increment to said retainer ring portion, a plurality of segmental tongue portions extending radially and inwardly from said annular retainer ring portion, said segmental tongue portions being deflected axially of said annular ring portion, each said segmental tongue portion terminating in an arcuate surface, said arcuate surfaces of said segmental tongue portions lying on the periphery of a circle having a predetermined diameter less than that of said primer tube whereby said segmental tongue portions frictionally secure said device to said primer tube portion solely through the inherent resiliency of said segmental tongue portions, the deflected segmental tongue portions guiding and assisting the movement of said anchoring device on said primer tube portion towards the cartridge base and resisting movement of the anchoring device away from the cartridge base.

2,419,950
HOLDER FOR CIGAR LIGHTERS

Arthur A. Johnson, Bridgeport, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Continuation of application Serial No. 335,228, May 15, 1940. This application November 22, 1943, Serial No. 511,368
16 Claims. (Cl. 219—32)

2. In a cigar lighter, a holding device having an aperture therein; a sleeve surrounding the holding device and having a reflector rigidly secured thereon; means for positively aligning the sleeve and holding device with the reflector disposed over the aperture in the holding device; means for locking the sleeve and holding device in aligned relation; a lamp-carrying unit having a lamp therein and slidable, frictionally interengaging means on said unit and reflector for de-

tachably securing the unit to the reflector so as to illuminate the interior of the well through the



aperture whereby the lamp may be readily replaced.

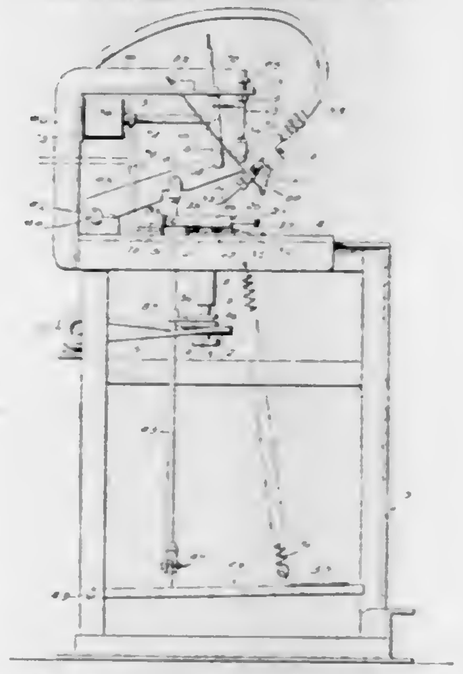
2,419,951

SEALING COMPOUND APPLYING APPARATUS

Ferdinand Kastel, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application March 3, 1945, Serial No. 580,896

18 Claims. (Cl. 91—43)



1. In apparatus of the character described, a chuck, means for removably holding a noncircular closure member on the chuck, a sealing compound dispensing nozzle, means for controlling the dispensing of sealing compound from said nozzle, means for moving the chuck and a closure member thereon relative to said nozzle in a manner for depositing a continuous non-circular ring of sealing compound on said closure, means for manually and approximately simultaneously initiating the movement of the chuck and the dispensing of the sealing compound, and means for automatically and approximately simultaneously terminating the chuck movement and the dispensing of the sealing compound upon completion of a single complete turn of said closure member.

2,419,952

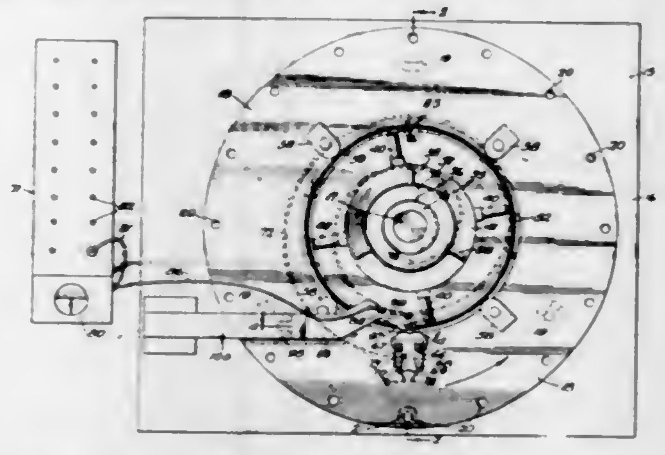
METHOD OF MOUNTING AND ADJUSTING POTENTIOMETER ELEMENTS

Frank Konicek, Baltimore, and Harald J. Vennes, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Original application September 15, 1943, Serial No. 502,410. Divided and this application November 4, 1944, Serial No. 561.960

8 Claims. (Cl. 29—155.5)

1. The method of assembling potentiometer cards, which comprises fixing the ends of such a card to a support, fixing the intermediate portions of the card to said support at predetermined points between the fixed ends of the card, measuring the ratio of the resistance of a portion of the card between one of said fixed points and



one end of the card to the resistance of the entire card, unfixing the card at said predetermined point at the end of said portion, flexing the card to move the portion of the card at the unfixed point to adjust the resistance ratio, and refixing the card at the unfixed point.

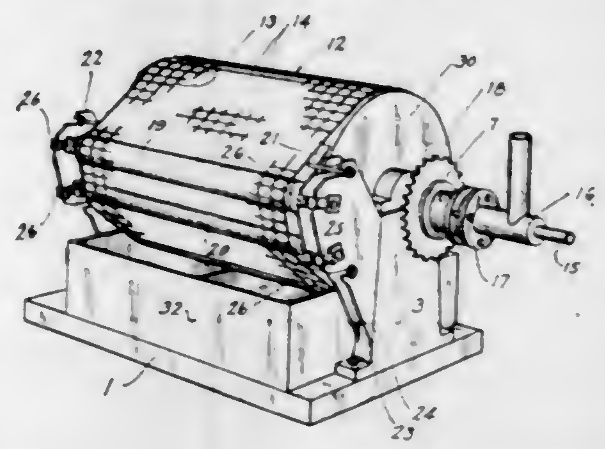
2,419,953

ICE MACHINE

Frank W. Knowles, Seattle, Wash., assignor to Beltice Corporation, a corporation of Washington

Application May 3, 1940, Serial No. 333,135

7 Claims. (Cl. 62—105)



6. A machine for the freezing of ice comprising a rigid, rotatable drum; means for refrigerating said drum; a rotatably mounted roll spaced from the drum; wire belt means applied about the drum and said roll; means for supplying the surface of the drum with a liquid to be frozen thereon; and means for rotating the drum for the removal of the ice therefrom by said wire belt means.

2,419,954

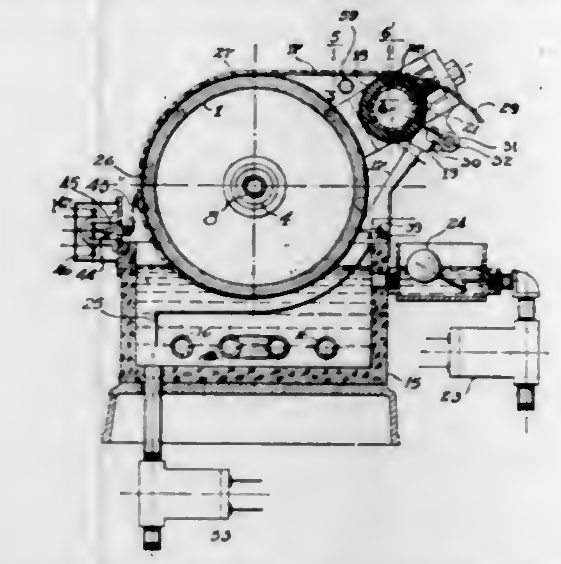
FREEZING MACHINE

Norbert J. Schaal, Riverton Heights, Wash.

Application September 19, 1939, Serial No. 295,614

5 Claims. (Cl. 62—106)

3. A machine for the production of crystalline laminae of frozen liquid comprising a rigid rotatable refrigeratable drum adapted to contain a refrigerating medium, a plurality of separate unconnected parallel endless single wire belts drawn taut and operating about a portion of the periphery of said drum, means for applying liquid to a portion of the periphery of said drum for freezing thereon over said wires, means for rotating the drum for the progressive freezing of ice about its surface and for the separation of the ice from the



surface by the wire belts, and means for the separation of the ice from said wires.

2,419,955

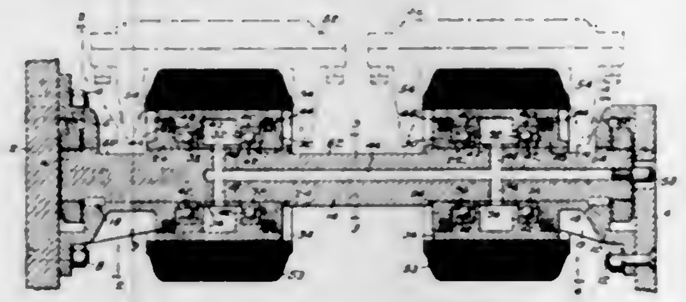
TRACK SUPPORT

Harry A. Knox, Washington, D. C.

Application October 30, 1942, Serial No. 463,872

3 Claims. (Cl. 305—8)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A support for a double track for disposal between two wall portions of a vehicle comprising opposed axially apertured, flanged members having flange portions on opposite ends thereof disposed on said wall portions, a shaft keyed in the axial apertures of said flanged members, spaced rollers rotatably mounted on said shaft and seals for each side of said rollers, the flange on the inner side of said flange members opposite the flange adjacent the wall member forming one of the seals of said rollers.

2,419,956

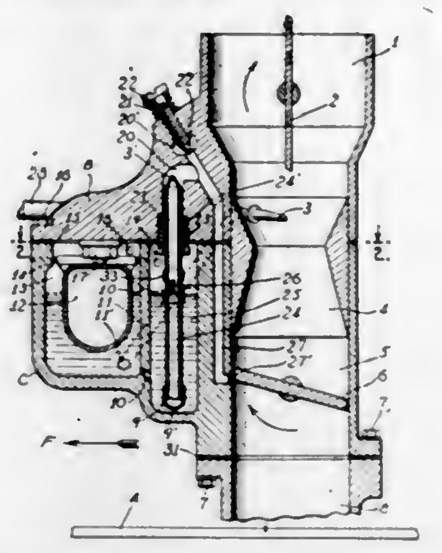
CARBURETING AND FUEL SUPPLY MEANS FOR MOTOR-DRIVEN VEHICLES

William R. Kuzelka, New York, N. Y.

Application September 4, 1942, Serial No. 457,279

14 Claims. (Cl. 261—41)

1. In combination a vehicle frame, an internal combustion engine mounted on the frame, a carburetor bowl in which fuel is maintained at a predetermined level, a fuel well aft of the bowl and in communication therewith so as to maintain the same fuel level in the bowl and the well, a suction chamber in which an explosive mixture is formed, a high speed fuel supply means leading to said suction chamber, an idling nozzle supplied with a fuel mixture from the well with the air for said mixture supplied through an opening which, when the engine is horizontally disposed, is above the fluid level but when the engine is upwardly inclined is partially immersed, said idling nozzle leading to the suction chamber for supplying a fuel mixture for idling



and for assisting the high speed nozzle in supplying a fuel mixture to the suction chamber at higher speeds.

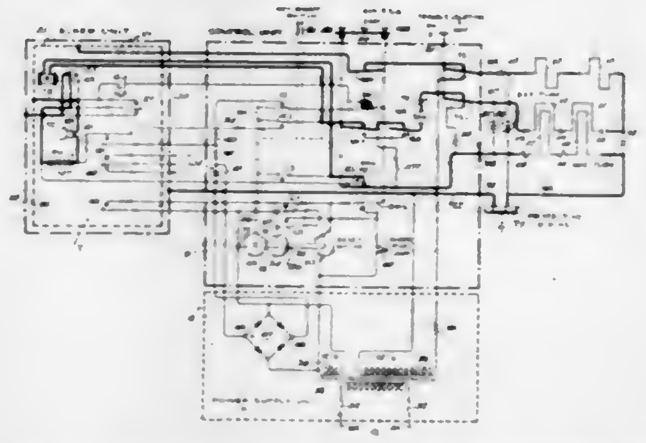
2,419,957

ELECTRICAL PROTECTIVE ALARM SYSTEM

Herbert M. Laford, Bloomfield, N. J., assignor to Electro-Protective Corporation, Newark, N. J., a corporation of New Jersey

Original application May 6, 1939, Serial No. 272,084. Divided and this application July 9, 1943, Serial No. 493,971

8 Claims. (Cl. 177—314)

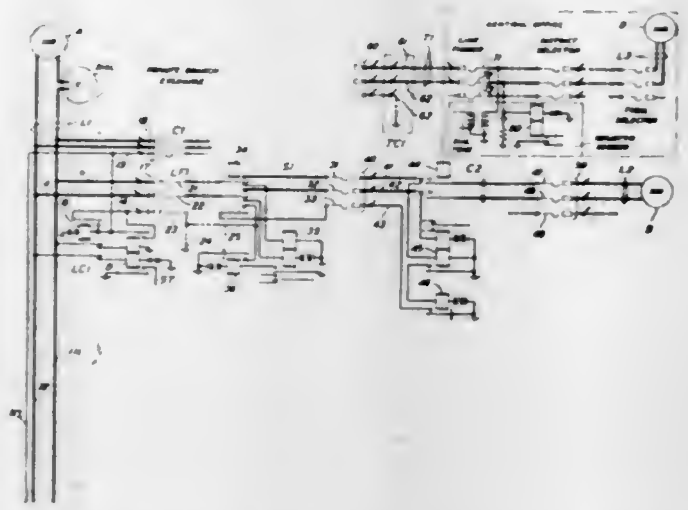


1. In an electrical protective arrangement having a signal controlling protective-wiring circuit system: a signal device and a battery in said circuit system; a source of uni-directional power current having circuit connections forming part of said system; alarm relay means in said circuit system and arranged to be connected to said battery and said source and be maintained energized through said circuit system for holding said signal device inoperative in absence of alarm conditions and to effect operation of said signal device upon occurrence of an alarm condition on said system; said circuit connections including limit means operative in absence of alarm conditions to limit to a predetermined level the flow of current from said power source and to cause said alarm relay means and said device to be energized by said battery in the absence and presence of alarm conditions if current fails to flow from said source; and additional relay means in said circuit system and having switch contacts in said circuit connections and operative during an alarm condition of said system to pass substantially more current to said device from said source than from said battery.

2,419,958

COMMUNICATION SYSTEM

Frederick R. Lamberty, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 23, 1944, Serial No. 550,699
11 Claims. (Cl. 179—175.2)

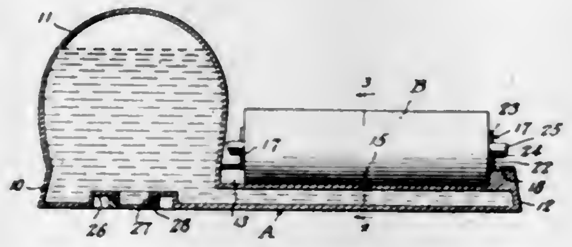


1. In a service observing equipment connected to a subscriber's line and comprising impulse responsive means and means for recording dial impulses transmitted over said line, means for counting the impulses of a train of impulses transmitted over said line, means for preventing the response of said impulse counting means to succeeding trains of impulses, and means rendered effective by said counting means in the event said train of impulses consists of a particular number of impulses to vary the capability of the impulse responsive means.

2,419,959

LIQUID APPLICATOR

Miles E. Landau, New York, N. Y.
Application October 11, 1944, Serial No. 558,119
5 Claims. (Cl. 91—48)



1. In an applicator, a hollow receptacle defining a reservoir for containing a supply of liquid, a trough of arcuate shape, in cross-section having an opening extending therethrough substantially at the center thereof and communicating with the interior of the receptacle, said opening being of a size that a globule of the liquid is adapted to form in protruding relation at the mouth thereof when the receptacle is filled with the liquid above the level of the opening, a roller, and means mounting said roller for rotation on said receptacle with an arcuate portion thereof arranged in said trough in overlying relation with said opening and in spaced relation to the arcuate face of said trough, said spacing being such that the roller is adapted to engage the globule of liquid protruding from said opening and to effect by rotation thereof a drawing of the liquid from the reservoir through said opening and the formation of a film of the liquid over the surface of the roller.

2,419,960

PROCESS OF FERMENTING SUGARS BY MIXED YEASTS

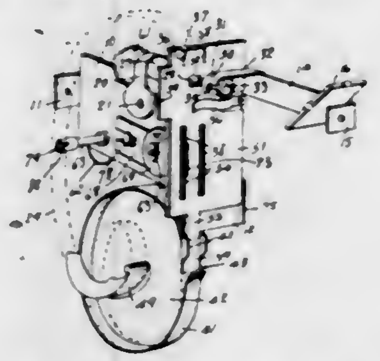
David A. Legg, Philadelphia, Pa., assignor to Publicker Industries Inc., a corporation of Pennsylvania
No Drawing. Application November 16, 1943, Serial No. 510,489
7 Claims. (Cl. 195—37)

1. A process for producing ethanol which comprises fermenting a natural sugar mash with a mixed culture of molasses yeast and grain yeast.

2,419,961 •

MOTION-PICTURE PROJECTION APPARATUS

Julian A. Links, San Francisco, Calif.
Application June 9, 1944, Serial No. 539,444
8 Claims. (Cl. 88—18.7)

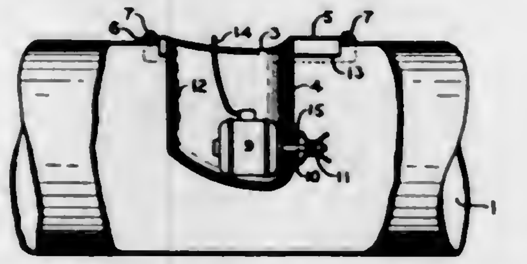


3. Projection apparatus for an endless film, said film being formed to provide a spiral reel and a loop extending therefrom with the ends of said loop respectively joined with the inner and outer coils of said reel, said apparatus comprising a stationary container adapted to receive the reel for rotation relative thereto, said container having a peripheral wall and side walls, an inlet opening for the film in said peripheral wall and an outlet opening for the film in one of said side walls, a feeding member for said film disposed externally of said container, means for supporting said loop substantially coplanar with said reel including means providing a buckling-resistant guide path for the film between said feeding member and said inlet opening, means for driving said feeding member to push the film through said guide path and into said container through said inlet opening and to pull the film out of said container through said outlet opening, and projecting means for the film.

2,419,962

FAN ASSEMBLY

Gordon McLarty, Battle Creek, Mich.
Application August 30, 1944, Serial No. 551,918
3 Claims. (Cl. 230—117)



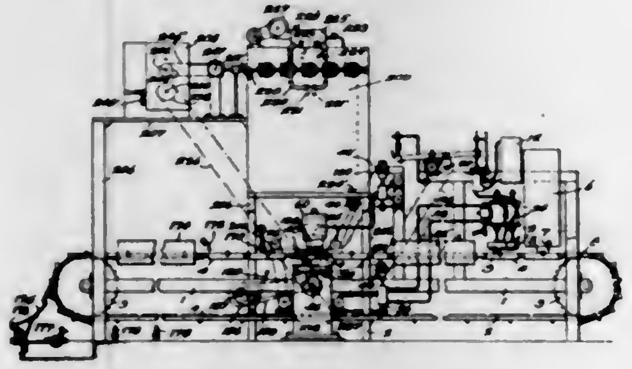
1. A circulating fan assembly for insertion in an opening through the wall of a duct or the like, which consists of a hat shaped housing member which has a streamlined hollow body member closed at one end and open substantially full size at the other and an outwardly extending brim-like flange at the open end of said housing, said

brim-like flange being adapted to coact with and close the opening through the wall of said duct or the like, an electric motor, means within said housing member for fastening said electric motor to the latter and wholly within same, said motor having a shaft extending through the wall of said body member, and a propeller mounted on said shaft outside of said body member, whereby the open end of said housing member permits natural circulation of air or the like to said motor to heat condition same while permitting said housing to be relatively small and short so as to produce a minimum obstruction to the flow of fluid around said housing member.

2,419,963

APPARATUS FOR DECORATING POTTERY WARE

William J. Miller, Swissvale, Pa., assignor to Miller Pottery Engineering Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 21, 1943, Serial No. 473,138
14 Claims. (Cl. 41—1)

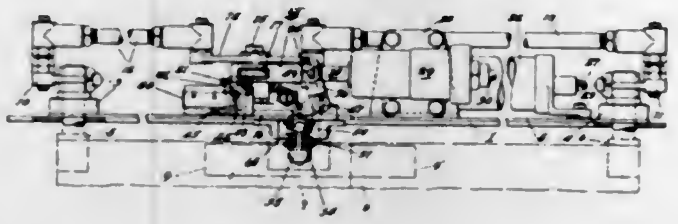


1. The combination with mechanism for feeding an uninterrupted length of transfer paper from a printing zone to and through a drying and a ware decorating zone of mechanism for printing decorations on the paper, mechanism for cutting out and applying dried decorations to ware therebelow and means for operating said mechanisms in timed relation.

2,419,964

SPRING RETURN PUSH DOOR WITH DOOR LOCK

John R. Newkirk, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a corporation of West Virginia
Application February 27, 1945, Serial No. 579,971
14 Claims. (Cl. 292—1)

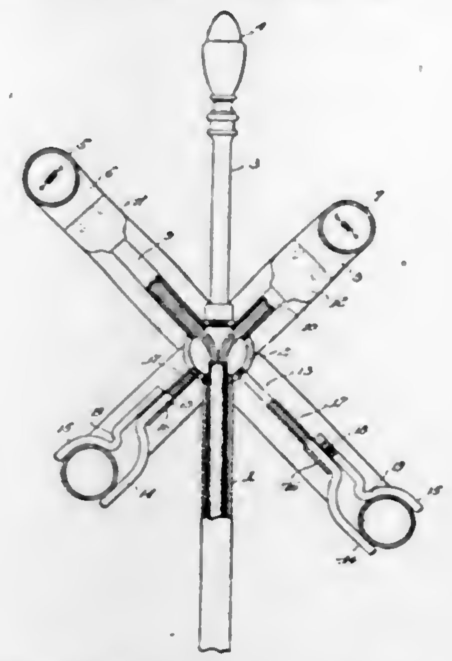


1. In a door operating system, the combination including a door, a motive device for closing the door, a linkage system connecting the motive device with the door, said linkage system taking a position to lock the door when closed, motive means for moving the linkage system to unlocking position, said doors being then free to be pushed open, and means for preventing opening movement of the doors if they are under pressure when the linkage system is moved to unlocking position.

2,419,965

ELECTRIC LIGHTING MEANS

Alphonse F. Pieper, Brighton, N. Y.
Application January 26, 1945, Serial No. 574,650
8 Claims. (Cl. 240—81)



1. Electric lighting means including a vertical post, a plurality of circular lamps positioned in different intersecting planes and each having a single inwardly extending connecting plug, and supporting sockets for the plugs mounted on the post on opposite sides and inclined upwardly thereto, the sockets and post being in a single plane perpendicular to the planes occupied by the lamps.

2,419,966

CRYSTAL CONTACTS OF WHICH ONE ELEMENT IS SILICON

Charles Eric Ransley, Sudbury, John Walter Ryde, London W. 14, and Stanley Vaughan Williams, Kenton, England, assignors to The General Electric Company Limited, London, England
No Drawing. Application June 8, 1942, Serial No. 446,310. In Great Britain May 28, 1941
7 Claims. (Cl. 250—31)

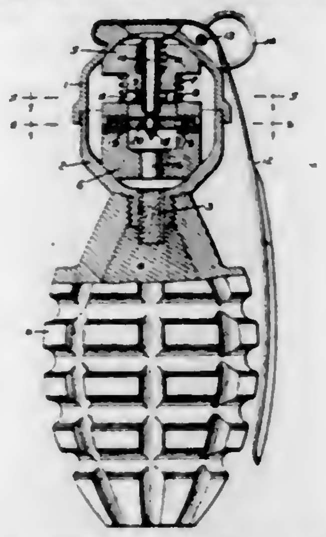
1. In the manufacture of an electrical crystal contact device of the kind in which a contact element thereof is silicon, the production of the said silicon contact element by a process which comprises the steps (1) grinding relatively impure silicon to a fine powder and treating said powder with chemical reagents capable of removing substantially all the impurities usually present in commercial silicon, (2) melting the pure product of such treatment, out of contact with the atmosphere, and while contained by pure beryllium oxide.

2,419,967

FUSE

Louis J. Rhein, Aberdeen, Md.
Application July 5, 1943, Serial No. 493,527
1 Claim. (Cl. 102—81.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A fuse comprising a casing, two main body members in the casing movable to and from each other and carrying coacting firing components, resilient means holding said members normally distended, one of said members being provided with a bore extending laterally therethrough, an expendible arming pin intersecting the bore, removable blocking means at the outer end of the bore, additional blocking means in said bore between the first mentioned blocking means and the expendible pin and holding said first mentioned blocking means in position, both of said blocking means being normally held in blocking position by said pin and released when said arming pin is expended to permit relative movement of said members.

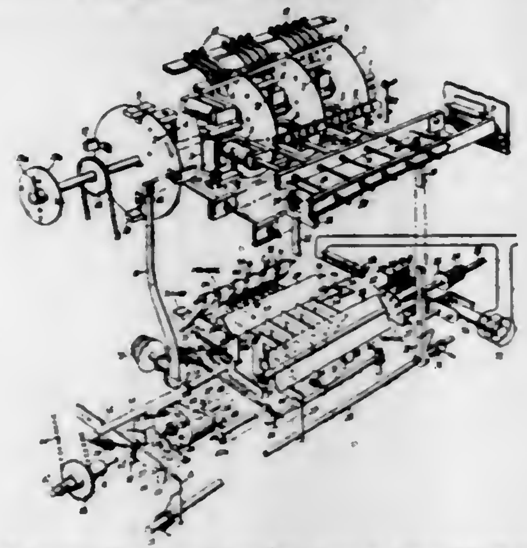


2,419,968

PUSH BUTTON TUNER FOR MULTIBAND RADIO RECEIVERS

Bruce Roberts, Philadelphia, Pa., assignor to General Electric Company, a corporation of New York

Application July 26, 1944, Serial No. 546,677
9 Claims. (Cl. 250—40)



1. In a push button tuner for a multiband radio receiver, band selecting means, control means having sets of adjustable stops corresponding to desired stations in the respective bands, said control means being responsive to said selecting means to position said stops in accord with the band to be selected, tuning means for cooperation with the stops for the selected band, and a push button for effecting cooperation of the tuning means with the stop in the set corresponding to the desired station in the selected band whereby the push button is usable for a plurality of bands.

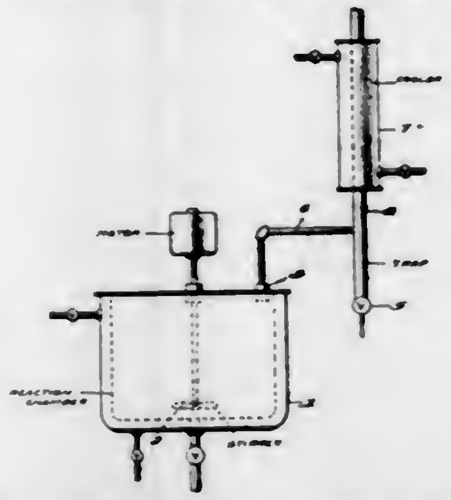
2,419,969

PROCESS OF RECOVERING AND PURIFYING CARBAZOLE AND ANTHRACENE

Hugh Rodman, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware

Application September 4, 1943, Serial No. 501,311
2 Claims. (Cl. 260—318)

1. A process of separating anthracene from crude carbazole containing anthracene, which process comprises mixing and agitating said crude carbazole, in the absence of a solvent-diluent, with solid potassium hydroxide while heating at a temperature at which the crude carbazole is liquefied and not above about 235° C. to form potassium carbazolate, thereafter and while continuing the heating and agitation at said temperature dropping upon the reaction mass liquid hydrocarbon boiling in the range of substantially 80° to 145° C. in relatively minute amounts whereby the liquid hydrocarbon is vaporized upon contact with said mass and facilitates the vaporization of the water formed in the reaction, removing the vapors of said hydrocarbon and said water simultaneously with the dropping of said liquid hydrocarbon, continuing the dropping of the said liquid hydrocarbon on the said mass and the vaporization and removal of the said hydrocarbon and water while maintaining the resulting residual mass in an unvaporized state and until substantially all water is removed from the residual mass, to thereby permit substantially complete conversion of the carbazole in the crude carbazole to carbazolate in non-hydrolyzed form, and thereafter separating potassium carbazolate from the said residual mass by adding to said mass a solvent for anthracene and filtering the resulting solution from the undissolved carbazolate.

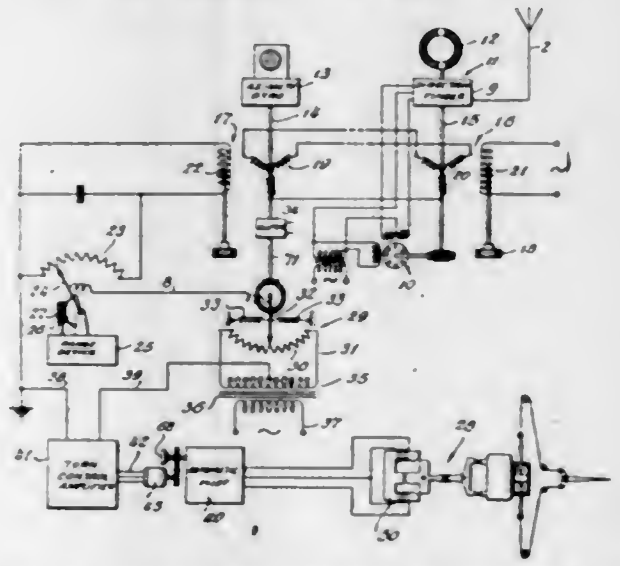


2,419,970

NAVIGATION SYSTEM

Robert B. Roe, West Hempstead, and John B. Gray, Garden City, N. Y., assignors to Sperry Gyroscope Company, Inc., a corporation of New York

Application May 29, 1943, Serial No. 488,994
18 Claims. (Cl. 250—2)



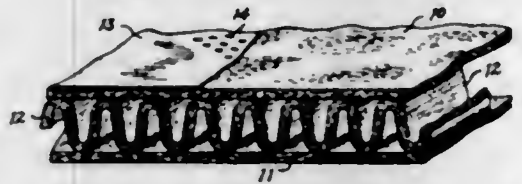
1. In a navigation system, direction finding means, means responsive thereto for detecting variations from a norm in the bearing of a steerable craft relative to a source of radiant energy, steering means responsive to said variations for directing said craft toward said norm, and means responsive to the distance between said craft and said source of radiant energy for lessening the ratio of responsiveness of said steering means to said bearing angular variations as said source is approached.

2,419,971

PADDING AND SOUNDPROOFING MATERIAL

Herman Rumpf and Irwin J. Rumpf, Burlingame, Calif.

Application June 5, 1943, Serial No. 489,870
3 Claims. (Cl. 154—44)



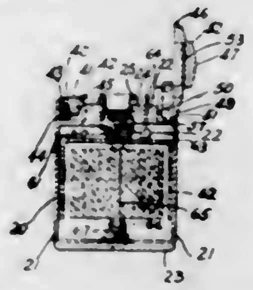
1. A multi-layer padding material for walls and other surfaces, comprising a laminated sheet having flat outer layers of loosely matted and adhesively secured fibrous material, and a corrugated layer of similar loosely matted and adhesively secured material disposed between said flat outer layers, the corrugations of said corrugated layer being disposed in uniformly spaced relation with respect to each other and having a depth greater than the spacings thereof and with the sides of the corrugations extending in planes substantially transverse to the plane of said outer layers, the fibers of said corrugated and flat outer layers being carded and arranged flatwise to the surfaces thereof and extending substantially parallel to the folds of the corrugations in said corrugated layer, whereby said flat layer will have a maximum resistance to breakage from tension between the successive corrugations and the sides of the corrugations of said corrugated layer will possess a maximum resistance to compaction.

2,419,972

CATALYTIC LIGHTER

George Philip Schmitt, New York, N. Y.

Application February 18, 1946, Serial No. 648,238
12 Claims. (Cl. 67—7)



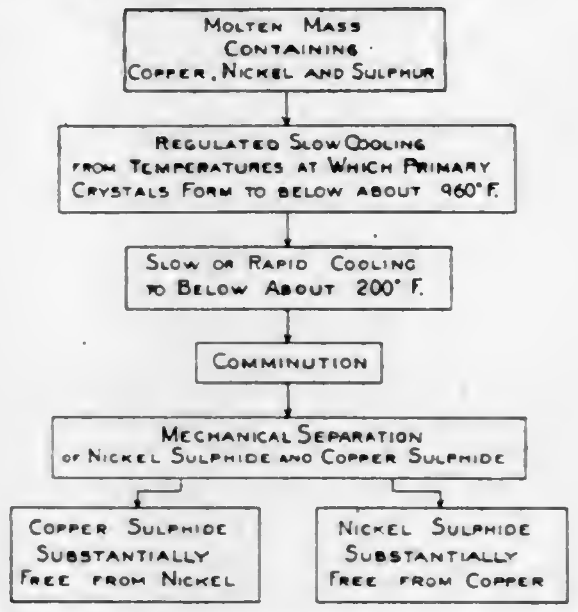
5. A lighter comprising a casing provided with a top having an opening therein, a catalyst unit removably secured in said opening, spring controlled valve means operable in said casing below said unit, a slidable member in said casing engageable with said valve means when urged upwardly, a stem in engagement with said member, spring means in said casing for urging said stem and thereby said member upwardly, a lid for said casing, spring means urging said lid to open position, a spring operated finger-piece pivoted in said top normally holding said lid closed and adapted to release said lid when being pressed downwardly, a pin slidable in said top and projecting thereabove and therebelow, said pin being in contact with said member and contactable by said lid by the closing thereof whereby said member is moved downward by said pin against the action of said spring means, air admission means, and valve means within said casing controlling said air admission means.

2,419,973

SEPARATION OF COPPER AND NICKEL SULFIDES

William Kelvin Sproule and George Alan Harcourt, Copper Cliff, Ontario, Canada, assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

Application March 21, 1944, Serial No. 527,510
In Canada February 2, 1944
9 Claims. (Cl. 23—135)


Molten Mass Containing Copper, Nickel and Sulphur
Regulated Slow Cooling from Temperatures at Which Primary Crystals Form to below about 960° F.
Slow or Rapid Cooling to Below About 200° F.
Comminution
Mechanical Separation of Nickel Sulphide and Copper Sulphide
Copper Sulphide Substantially Free from Nickel
Nickel Sulphide Substantially Free from Copper

1. A process for treating mixtures containing sulfur and the metals copper and nickel to obtain each of said metals in crystalline sulfide form substantially chemically free from the other metal, which comprises establishing a molten mass consisting essentially of copper, nickel and sulfur, subjecting said molten mass to regulated slow cooling until the temperature thereof is reduced to below about 960° F. to obtain a mixture of crystals of copper sulfide substantially chemically free from nickel and crystals of nickel sulfide substantially chemically free from copper, comminuting said mixture to obtain crystals of copper sulfide substantially chemically and mechanically free from nickel and nickel sulfide and crystals of nickel sulfide substantially chemically and mechanically free from copper and copper sulfide, and separating said copper sulfide and said nickel sulfide.

2,419,974

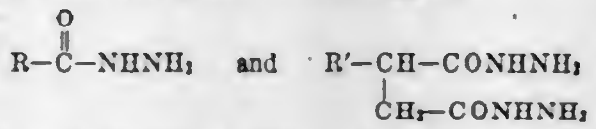
SILVER HALIDE EMULSIONS CONTAINING WATER-INSOLUBLE HYDRAZINE DERIVATIVES

Robert E. Stauffer and William F. Smith, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 26, 1943, Serial No. 500,086
5 Claims. (Cl. 95—7)

1. A gelatino-silver-halide emulsion capable of exhibiting improved speed and contrast characteristics when exposed and developed in a developing solution having a pH of at least approximately 9.5, comprising a gelatino-silver hal-

ide emulsion layer having uniformly dispersed therein a mixture of a substantially water-insoluble hydrazine derivative having a formula selected from the class consisting of



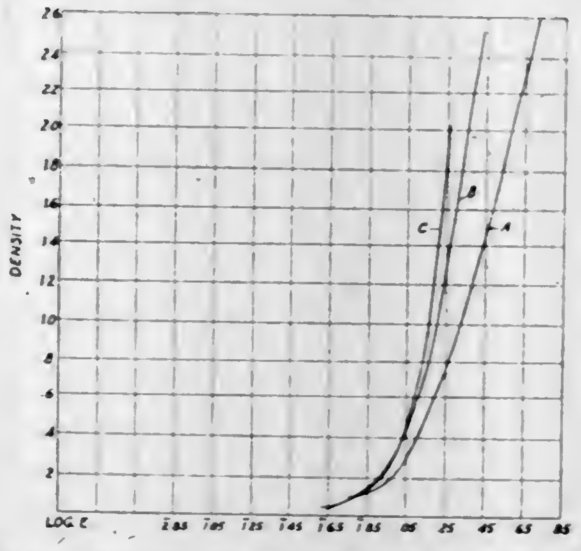
$$R-\overset{\overset{O}{\|}}{C}-NHNH_2 \quad \text{and} \quad R'-\underset{\underset{CH_2-CONHNH_2}{|}}{CH}-CONHNH_2$$

where R is selected from the class consisting of aryl and arylamine radicals and R' is selected from the class consisting of alkyl and aryl radicals, and a substantially water-insoluble organic solvent for said hydrazine derivative, said solvent having a boiling point above about 175° C. and being permeable to processing solutions.

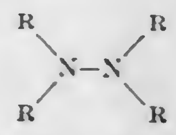
2,419,975
INCREASING SPEED AND CONTRAST OF PHOTOGRAPHIC EMULSIONS

Adrian P. H. Trivelli and William F. Smith, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 26, 1943, Serial No. 500,088
16 Claims. (Cl. 95—6)



1. The method of improving the sensitivity characteristics of a silver halide photographic layer with respect to radiation consisting of light of wave length shorter than red, which comprises exposing an undeveloped silver halide emulsion layer to said radiation and developing it with a phenolic developing agent at a pH of at least approximately 9.5 in a developing solution selected from the class of developing solutions containing an appreciable amount of sulfite up to 16 grams per liter when the pH is between 9.5 and 9.7, and containing more than 16 grams per liter of sulfite when the pH is higher than 9.7, in the presence of a compound selected from the group consisting of hydrazine compounds of the general formula:



where at least two R's are hydrogen atoms and when less than 4 R's are hydrogen atoms, the remainder are selected from the class consisting of aliphatic radicals, heterocyclic radicals and a carbonyl group directly connected to a member of the class consisting of an aliphatic carbon atom of a carbon radical, a heterocyclic carbon atom of a carbon radical, an oxygen atom of a carbon radical, and a nitrogen atom of a carbon radical, and the salts of said compounds, said compound having no fog inhibiting action on said emulsion.

2,419,976
PREPARATION OF DINITROSOBENZENES

Joseph H. Trepagnier, Wilmington, Del., and John V. Vaughen, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

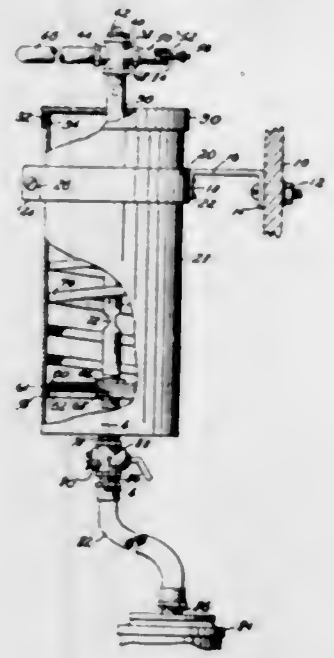
No Drawing. Application August 11, 1945, Serial No. 610,400
2 Claims. (Cl. 260—647)

1. A process for preparing para-dinitrosobenzenes which comprises oxidizing a para-quinone dioxime in alkaline solution with approximately one mol of alkali metal hypohalite per mol of para-quinone dioxime at temperatures of from —5° to 50° C.

2,419,977
BRAKE FLUID CONTROL APPARATUS

John H. Wellbrock, Queens Village, N. Y.

Application May 14, 1945, Serial No. 593,722
4 Claims. (Cl. 60—54.6)



1. A device of the character described comprising a cylindrical tank having an apertured removable cover, a pipe reciprocably mounted in said tank, a plunger at one end of said pipe, a T-coupling at the other end of said pipe having a handle, a filler plug and an air valve connected thereto, a spring in said tank interposed between said cover and said plunger, means for connecting said tank to the master cylinder of a motor vehicle and means for mounting said tank to the motor vehicle.

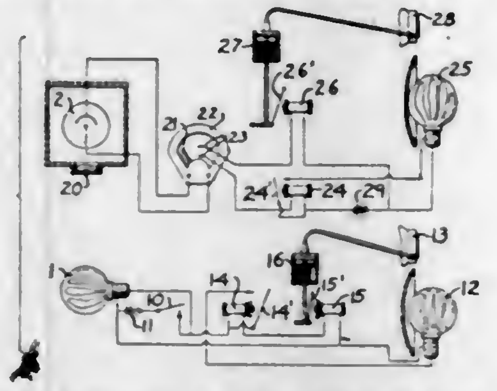
2,419,978
PHOTOGRAPHY SYSTEM

Benjamin H. Wildman, Seattle, Wash., assignor of one-half to Charles L. Reynolds and Robert W. Beach, both of Seattle, Wash.

Application February 2, 1942, Serial No. 429,264
8 Claims. (Cl. 67—29)

1. A system for photographing large audiences and other scenes by artificial light, said system comprising a master unit including a wave transmitter and control means operable at will to effect energization of said wave transmitter, and at least one slave unit including a light source disposed to illuminate the scene, a camera arranged to photograph the scene and incorporating a shutter, and control means for said slave unit light source and for said camera shutter physically uninterconnected with the control means of the master unit, said slave unit control means incorporating a receiver responsive to radiations

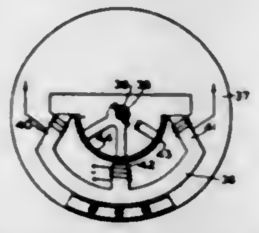
from the master unit wave transmitter to be energized by the transmitter's wave, and operable when energized to effect substantially simultaneously energization of said light source for illumination of the scene and actuation of said camera shutter for uncovering to the scene a sensitized surface within the camera.



2,419,979
TRANSFORMER PICKOFF

Jack C. Wilson, Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Original application October 24, 1942, Serial No. 463,286. Divided and this application July 17, 1943, Serial No. 495,170
8 Claims. (Cl. 177—380)



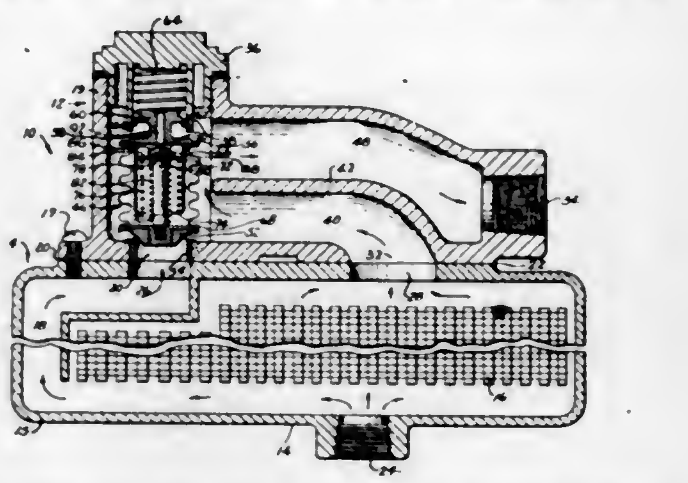
1. In a transformer-type pickoff having a three-legged magnetic core, a coil wound about each leg of the core, a signal circuit formed by connecting the coils on the outside legs of said core in electrical opposition, and means for energizing the winding on the central leg of said core from an alternating current source, the combination with said core of an armature concentrically pivoted for rotation relative to said core comprising a strip of magnetically permeable stock cut obliquely at an angle of substantially 45° adjacent both ends thereof and bent into a semicircular arc, said armature being effective to produce a signal linearly proportional to the displacement of said armature relative to said core over an angle of at least 30° by differentially changing the reluctance of the flux paths between the central leg and the two outside legs of said core upon rotation of said armature relative to said core.

2,419,980
TEMPERATURE CONTROL UNIT

Weldon Worth, Dayton, Ohio

Application January 4, 1941, Serial No. 373,150
14 Claims. (Cl. 236—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

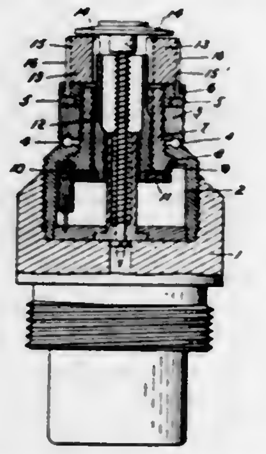
1. An apparatus for controlling the flow of fluid through a port comprising a valve unit mounted for bodily movement including a movable valve member and a temperature responsive element with a normal operating stroke to open and close said valve member with relation to said port in accordance with temperature variations, means for positioning said valve unit for operation of said valve member to open and closed positions within said normal operating stroke of said temperature responsive element, said means permitting bodily movement of said valve unit in one direction to a safety pressure position upon the occurrence of an unsafe pressure condition effective against said valve member in said one direction, and means for effecting movement of said valve member to a safety temperature position upon movement of said temperature responsive element beyond the limit of its normal operating stroke.



2,419,981
FUSE

Leo F. Young, Wharton, N. J.

Application June 9, 1942, Serial No. 446,359
2 Claims. (Cl. 102—81.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a fuse having a headed firing pin, a wind vane and an arming sleeve axially displaceable by rotation of said vane through the intermediation of a differential gearing, safety blocks under the head of said pin, surrounding and entirely without said sleeve and pins carried by said vane and each contacting the outer periphery of one of said blocks in a recess therein, said blocks being of such size and spacing as to be removable around the said pins without interference on and only on displacement of the sleeve, the center of gravity of said blocks lying substantially on a line between the pin and the sleeve axis.

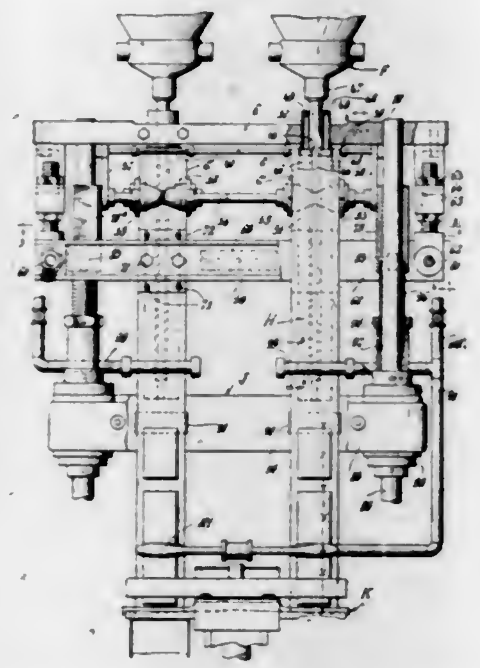
2,419,982
AUTOMATIC PACKAGING MACHINE

Walter R. Zwoyer, Maywood, N. J., assignor to Transparent-Wrap Machine Corporation, New York, N. Y., a corporation of New York

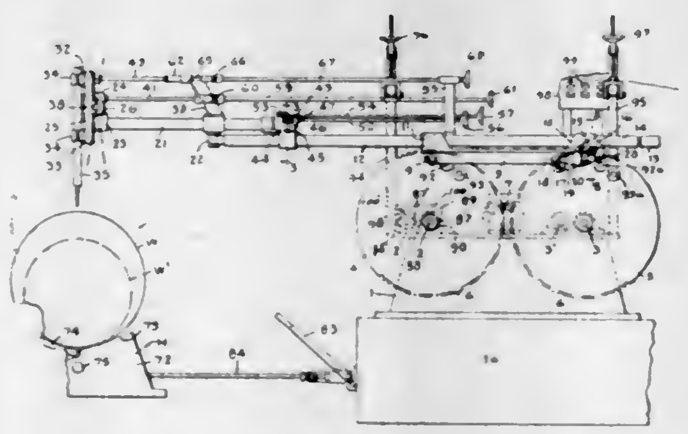
Application May 13, 1943, Serial No. 486,792
10 Claims. (Cl. 93—3)

3. A packaging machine comprising a tube-former of substantially oblong shape in horizon-

tal transverse cross section, rollers disposed in substantially tangential relation to the opposed surfaces of the tube-former and being complementally shaped along their lines of tangency with the tube-former entirely across the width thereof for guiding opposed ribbons of packaging material over and in contact with the outer surfaces of said tube-former with the marginal portions of the packaging material extending beyond the ends of the tube-former, and means for sealing the extending marginal portions of said ribbons to form said packaging material into a tube.

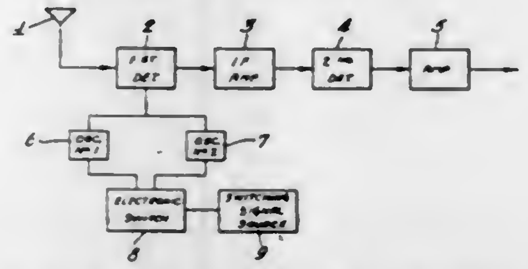


2,419,983
TORCH CUTTING MACHINE
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application June 18, 1943, Serial No. 491,290
12 Claims. (Cl. 266—23)



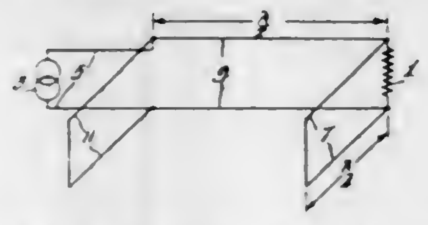
2. A cutting machine comprising a pair of rotary discs, each disc having gear teeth around at least part of its circumference, a driving pinion meshing with the teeth on both discs to rotate the discs in the same direction and at the same speed, a motor for rotating the pinion, a connecting rod pivotally connected at opposite ends to the discs so that it is moved in an arcuate path during rotation of the discs and is maintained in a horizontal position, a horizontal bar carried by and extending forwardly from said connecting rod, means for adjusting said rod longitudinally with respect to the connecting bar, and a torch holder supported by said bar.

2,419,984
WIDE-BAND SUPERHETERODYNE RECEIVER
Wilson P. Boothroyd, Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application October 19, 1944, Serial No. 559,407
8 Claims. (Cl. 250—20)



1. In a superheterodyne radio receiver for operation at ultra-high frequencies, a first detector having an input circuit responsive to a relatively wide reception band, an intermediate frequency amplifier having a relatively narrow pass-band connected to the output of said first detector, a plurality of local oscillators operable at different frequencies, means coupling each of said oscillators to said first detector, switching means for effecting operation of said oscillators in sequence, thereby to convert the said wide reception band into a plurality of relatively narrow intermediate frequency band-segments of substantially like band limits, and a plurality of resonant cavities interposed in the respective coupling means for said oscillators, said cavities being resonant respectively at the operating frequencies of said oscillators.

2,419,985
REACTANCE COMPENSATION
George H. Brown, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 25, 1944, Serial No. 551,247
18 Claims. (Cl. 178—44)

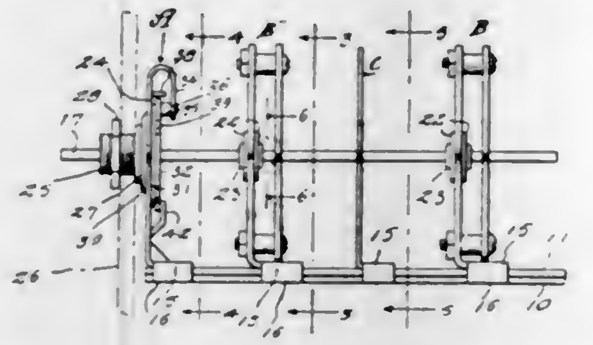


1. In a radio frequency network including a load and a reactance element shunting said load, means for compensating the effects of said reactance element comprising a transmission line one half wavelength long at the center of the band of frequencies throughout which the system is to operate, connected at one end to said load, and a second reactance element substantially identical with said first reactance element connected to the other end of said line.

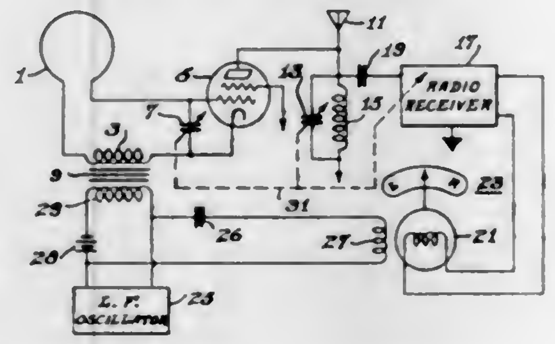
2,419,986
ROTARY GANG ASSEMBLY
William R. Brown, El Paso, Tex.
Application May 3, 1944, Serial No. 533,913
4 Claims. (Cl. 74—10)

4. A structure of the class described comprising a mounting element, mounting brackets, said brackets having bases slidable along the element, a rotatable actuating rod passing through rotatable bearings on the brackets, a selector on one of the brackets through which the rod passes so as to turn with the rod, latch means for the

selector comprising an arm, a ball latch, coacting depressions on the selector and arm, stop means for the selector, and a stop lug on the bracket engageable by the stop means including a plate journalled on the bearing, said plate having a lug and the selector having a series of peripheral notches selectively engageable by said lug.



2,419,987
DIRECTION FINDER
Wendell L. Carlson, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 30, 1942, Serial No. 452,815
5 Claims. (Cl. 250—11)

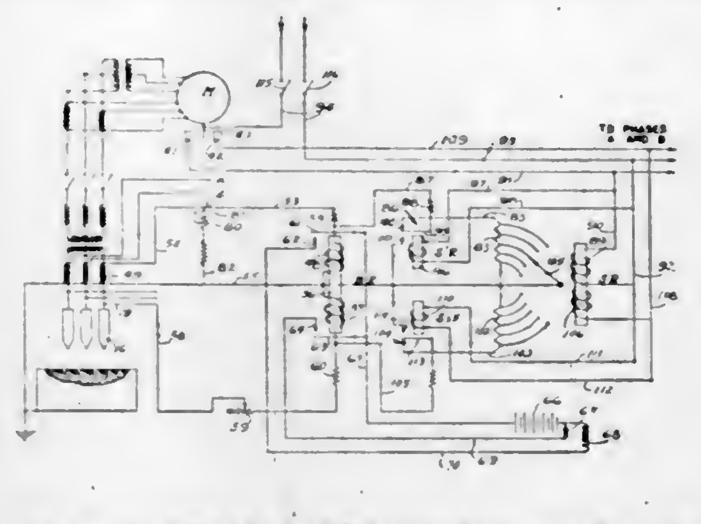


1. A radio direction finder comprising a directive antenna, a non-directive antenna, a generator of low frequency oscillations, reactance means in the circuit of one of said antennas, means for varying said reactance in response to said low frequency oscillations, means for combining the outputs of said antennas, a demodulating circuit connected to respond to the combined antenna output, and an indicator responsive to the combined outputs of said demodulating circuit and said low frequency generator.

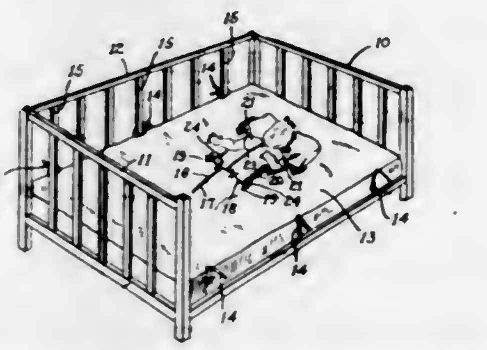
2. The method of indicating the azimuth of arrival of a radio wave at an antenna system comprising the steps of deriving from said wave a signal related in amplitude to the said azimuth, deriving from said wave a second signal independent in amplitude of said azimuth, cyclically shifting the phase of one of said signals through an angle substantially less than 180°, combining the phase-shifted signal with the other of said signals, demodulating the combined signal, and comparing the amplitudes of alternate maxima of the demodulated signal.

2,419,988
ELECTRIC FURNACE CONTROL
Ronald F. Davis, Sterling, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois
Application January 8, 1945, Serial No. 571,900
16 Claims. (Cl. 13—13)

1. In an electric arc furnace control having a charge portion in which the material to be melted is placed and a power circuit including a relatively movable electrode, control means responsive to the deviation of the power factor in the power circuit from a predetermined value, and means responsive to said control means for moving the electrode so as to change the power factor of the power circuit in a direction toward said predetermined value.



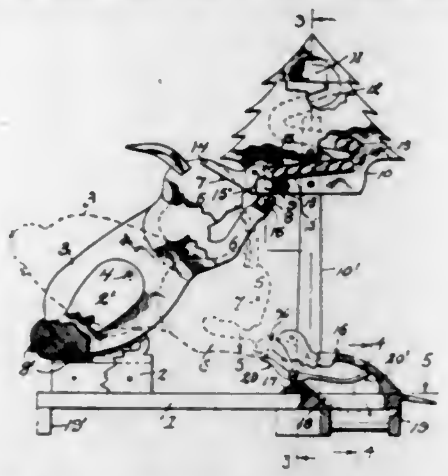
2,419,989
INFANT'S SLEEPING COVER
Floris W. Day, Massillon, Ohio
Application June 4, 1945, Serial No. 597,396
5 Claims. (Cl. 2—114)



1. An infant's sleeping cover comprising a substantially rectangular cover having a T-shape opening therein adapted to receive the legs and lower portion of an infant's body beneath the cover, means for closing the upright portion of the T-shape opening, a jacket located above the cover and adapted to be worn upon the arms and upper portion of the body of the infant, and cooperating fastening means on the front and back of the jacket and on each side of the transverse portion of the T-shape opening for detachably connecting the jacket to the cover.

2,419,990
HARE AND TORTOISE TOY
Orville A. Dishmaker, Oshkosh, Wis., assignor of one-half to Leonard J. Kaufman, Manitowoc, Wis.
Application February 22, 1945, Serial No. 579,189
1 Claim. (Cl. 46—123)

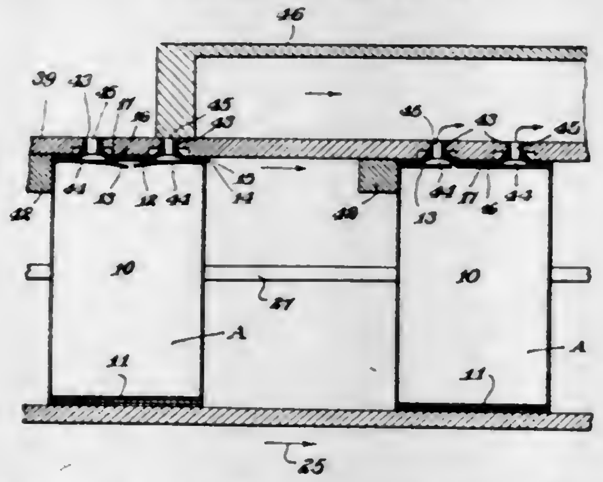
A toy consisting of a pivoted body normally in an upright position having a ball receiving cup, a lower container and an upper inclined ball receiving channel having a discharge mouth, a pivoted ball tripping trigger the head of which is formed with a curved nose and a cup normally alined with the channel, a counterbalanced tail extending from the trigger head and means on the body for engaging the trigger tail for lifting same, whereby the nose forms a stop at the mouth of the channel and the ball in the trigger cup is thrown into the body cup whereby its weight



will cause said body to rock downwardly and deliver said ball to the container.

2,419,991
METHOD AND APPARATUS FOR SEALING CARTONS BY SUCTION

Robert M. Dunning, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application January 4, 1945, Serial No. 571,334
14 Claims. (Cl. 93—6)



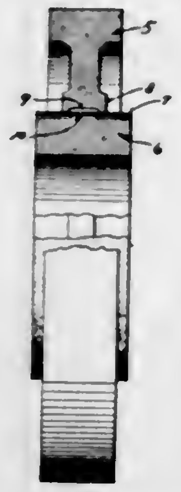
1. A method of sealing cartons having a closure including laminations in which at least the lamination outwardly of the innermost lamination has apertures therethrough, the method including the steps of applying suction means directly to the surface of the innermost lamination, and pulling these laminations up into contact with the apertured lamination.

4. A carton sealing means for use in combination with cartons having a series of flaps forming the closure, at least the flap next adjacent the innermost flap having apertures therethrough, the apparatus comprising suction cup means, and means supporting said suction cup means to extend through the laminations into contact with the innermost flap of the closure, said suction cups holding said innermost flap in engagement with the next adjacent flap.

2,419,992
COLLECTOR RING

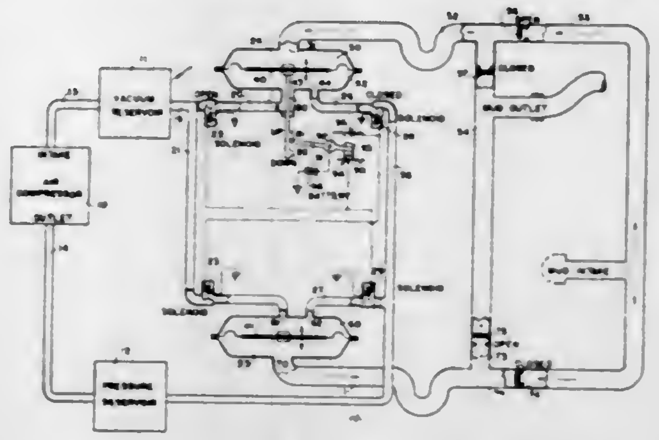
Steven J. Goran, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 18, 1943, Serial No. 506,757
2 Claims. (Cl. 171—322)

1. A collector ring of the character described, comprising: solid inner and outer ring shaped members in telescoping relationship; a sleeve of dielectric material separating the adjacent peripheries of said telescoped members; and an annular bead on the periphery of one of said members aligning with a complementary annular groove on the adjacent periphery of the other of said members, the inner ring shaped member being expanded radially outwardly toward the inner periphery of the outer ring shaped member with said dielectric sleeve compressed between the adjacent peripheries of the members and with said bead holding a portion of the dielectric sleeve within its complementary annular groove to thereby hold the ring shaped members interlocked as a single unit.



2,419,993
PUMPING MECHANISM

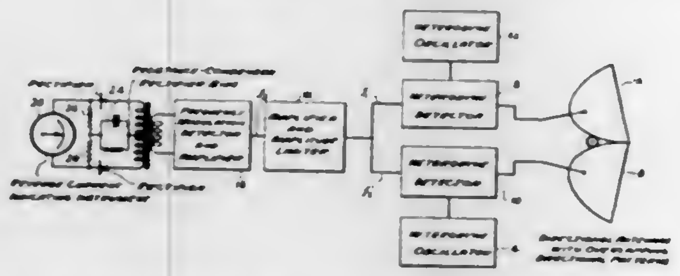
William G. Green, Jenks, and Jay Callahan, Tulsa, Okla.; said Callahan assignor to Engineering Laboratories, Inc., Tulsa, Okla., a corporation of Oklahoma
Application January 22, 1945, Serial No. 573,862
5 Claims. (Cl. 103—152)



1. In a mechanism for pumping a fluid, two reservoirs comprising a driving fluid, means operatively connecting said two reservoirs for maintaining a difference of the pressure of said fluid therebetween, two chambers, each of said chambers having a flexible diaphragm separating it into two compartments containing the delivery fluid and the driving fluid, respectively, a system of conduits connecting the compartment of each of the said chambers that contain the driving fluid with said two reservoirs, a plurality of valves operatively engaged with said system of conduits to control the motion of said fluid between said reservoirs and said chambers thereby causing corresponding displacements of said diaphragms, means for selective actuation of said valves in order to cause an alternate motion of said diaphragms, and a circulating system connected to the compartments of each of said two chambers that contain the delivery fluid, said circulating system being filled with said delivery fluid and comprising an input pipe and an output pipe, and a system of valves operatively engaged with said circulating system for providing a uniform motion of said delivery fluid in response to the alternate motion of said diaphragms.

2,419,994
DIRECTION FINDING

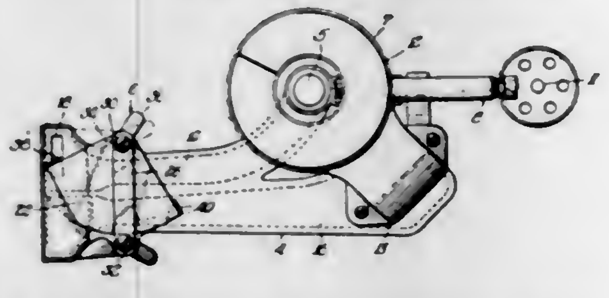
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 1, 1942, Serial No. 453,252
3 Claims. (Cl. 250—11)



1. In apparatus of the class described at least two directional pick-up devices in the field of a source of radiant energy, connections to one of said pick-up devices for producing wave energy of a first frequency, connections to the other of said pick-up devices for producing wave energy of a second frequency, the amplitudes of said wave energies depending on the positioning of said pick-up devices with respect to said source, an amplitude limiter, connections for impressing both of said wave energies on said amplitude limiter, a wave length modulation detector coupled to said amplitude limiter, and an indicator coupled to said detector.

2,419,995
AIR SHUTTER FOR GAS BURNERS

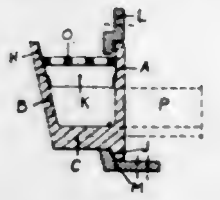
Philip S. Harper, Chicago, Ill., assignor of one-fourth to Philip S. Harper and one-fourth to Carolyn L. Harper, both of Chicago, Ill., and one-fourth to Harris Trust and Savings Bank, an Illinois banking corporation, as trustee of the Philip S. Harper Trust, and one-fourth to said Harris Trust and Savings Bank, as trustee of the Carolyn L. Harper Trust
Application March 24, 1945, Serial No. 584,705
9 Claims. (Cl. 158—118)



1. In a mixer tube for gas burners and the like, the combination of a duct in said tube having an atmospheric opening in the bottom of the tube, an air shutter for said opening for varying the air intake into said tube, means for adjustably securing said shutter with respect to said opening comprising a pair of bolts manipulatable from the top of said tube and disposed within openings provided therein, said shutter being pivotally secured to one of said bolts, a cross bar extending across said shutter and having threaded relation at its ends with the bolts respectively, and spaced lugs provided on said shutter and being engageable with said cross bar for limiting rotation of said shutter.

2,419,996
ROOF GUTTER

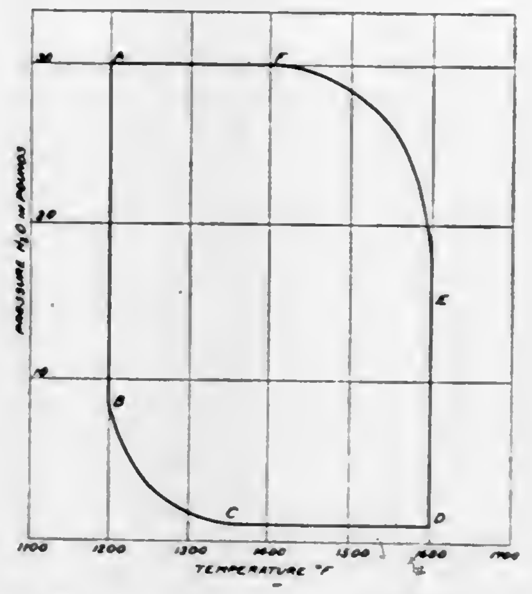
Alfred Harold Honikman, Rondebosch, Cape Town, Cape of Good Hope, Union of South Africa
Application April 3, 1946, Serial No. 659,247
In the Union of South Africa April 23, 1945
10 Claims. (Cl. 108—28)



1. A roof gutter comprising, in combination, a plurality of gutter-sections, a spigot provided on one end of each gutter-section, a socket provided on the other end of each gutter-section and adapted to receive the spigot of an adjoining gutter-section so as to provide a joint with externally-concealed laps and with outer faces and soffit for the gutter which are flush throughout, a clamp adapted to engage with the back of the adjoined gutter-sections at the top thereof, a base member, a projecting member provided on the base of each gutter-section at the back thereof and adapted to be engaged by said base member, and means whereby said clamp and base member are fixed to the eaves or other suitable part of the roof.

2,419,997
CATALYTIC DEHYDROGENATION OF ALIPHATIC HYDROCARBONS

Eugene J. Houdry, Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application March 5, 1943, Serial No. 478,071
4 Claims. (Cl. 260—683.3)



1. In effecting catalytic dehydrogenation of aliphatic hydrocarbon material in a cyclic operation involving use of dehydrogenation catalyst alternately, to promote dehydrogenation while supplying endothermic reaction heat and declining within a predetermined range of temperatures, and in regeneration when carbonaceous deposit resulting from the dehydrogenating re-

action is burned and resulting heat of combustion is stored in the catalyst for subsequent release to the dehydrogenating reaction with resultant increase in catalyst temperature substantially equal to said decline during dehydrogenation, the process of maintaining the catalyst within the desired range of temperatures without use of extraneous heat exchange fluid which comprises effecting the dehydrogenating reactions at such conditions of temperature and time of contact that the carbonaceous deposit produced stores within the catalyst upon burning a portion only of the endothermic heat released thereby during dehydrogenation, and supplying the balance of said endothermic heat by admitting reactants to the catalyst at temperature above the average of said range of catalyst temperatures, said catalyst being an oxide active in promoting dehydrogenations selected from the group consisting of chromium oxide, molybdenum oxide and vanadium oxide supported by a carrier having a capillary structure substantially free of silica which has been subjected substantially in the absence of carbonaceous deposit to steam treatment at temperature between 1200° F. and 1600° F. at a partial pressure of steam above one pound per square inch and above

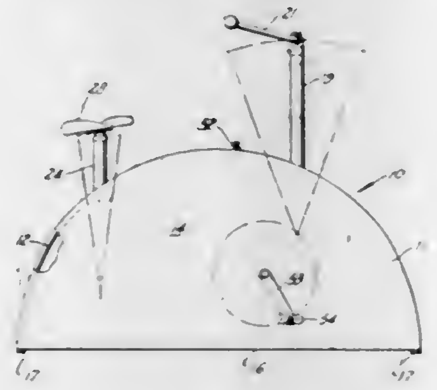
$$\frac{400}{T-1160}-1$$

and below thirty pounds per square inch and below

$$\frac{475}{T-1630}+32$$

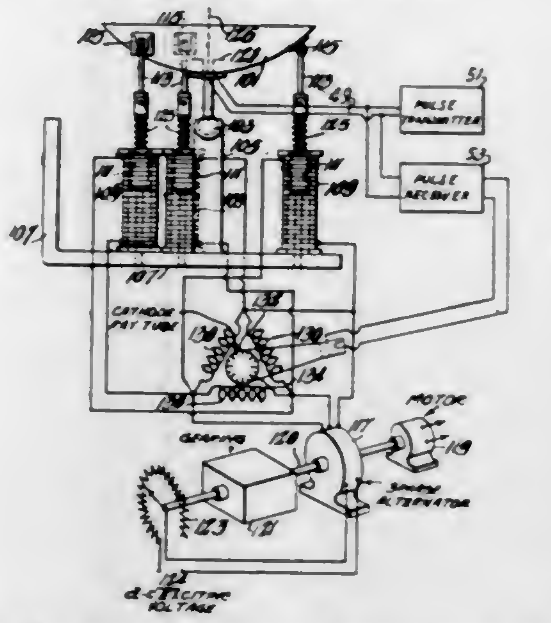
(where T equals treating temperatures in degrees Fahrenheit) for time sufficient permanently to reduce the coke making characteristics of the catalyst with respect to its dehydrogenating activity.

2,419,998
EXERCISING MACHINE
Wallace J. S. Johnson, Berkeley, Calif.
Application March 1, 1946, Serial No. 651,356
6 Claims. (Cl. 128—25)



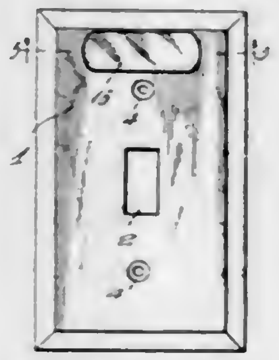
4. An exercising machine of the bicycle type comprising a frame, an upright handle-bar lever pivoted at its lower end to the frame, a seat constituting a body support, an upright supporting lever for said seat pivoted at its lower end to the frame, the said levers being capable of oscillation longitudinally of said frame and being longitudinally spaced in the direction of oscillation, a rotatable crank, connecting rods connecting said crank to said levers whereby the same will oscillate in unison and move in the same angular direction with the seat supporting lever moving at a relatively slower rate of speed than the handle-bar lever, and driving means for oscillating said levers in synchronism.

2,419,999
ORIENTING MECHANISM FOR PULSE ECHO SYSTEMS
George W. Leck, Princeton Junction, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application June 14, 1941, Serial No. 398,057. Divided and this application July 27, 1942, Serial No. 452,392
4 Claims. (Cl. 250—1.72)



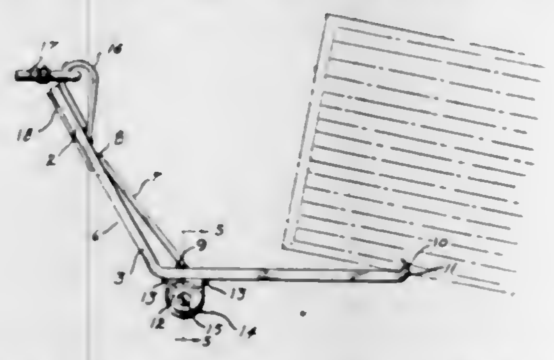
1. A pulse echo scanning device including, in combination, a directive antenna for radiating a beam of pulses and for receiving echo pulses from objects in said beam, a universal joint for supporting said antenna, three solenoid type motors each including a field winding and a movable member, means connecting said movable members to said antenna so that upon energizing said motors from a three phase source said antenna will follow a circular rocking movement, a radio receiver connected to said antenna and responsive to said echo pulses, a cathode ray indicator connected to said receiver for indicating said echo pulses, and means for deflecting said cathode ray in synchronism with said circular rocking movement.

2,420,000
ILLUMINATOR FOR COVER PLATES
William C. Linton, Washington, D. C., assignor to Fuse Indicator Corporation, Rockville, Md., a corporation of Delaware
Application October 10, 1944, Serial No. 558,055
1 Claim. (Cl. 240—2)



A combined escutcheon for electrical outlets and lamp housing assembly therefor molded from plastic insulating materials comprising a cover plate having inner and outer parallel walls and a rectangular shaped opening extending therethrough, said cover plate having recesses therein arranged at the opposite sides of the rectangular shaped opening therein, a lamp supporting plate seatable directly upon the inner wall of said cover plate and extending completely over the rectangular shaped opening therein, a pair of yieldable walls each having one end formed with said lamp supporting plate, said yieldable walls extending through the recesses within said cover plate to prevent rectilinear sliding or turning movement of said lamp supporting plate with respect to said cover plate, knobs formed with the outer extremities of said yieldable walls and spaced from the outer wall of said cover plate, a translucent lamp housing extending completely over the rectangular shaped opening within said cover plate, side and end walls formed with said lamp housing and seatable directly upon said cover plate, said side walls of the lamp housing having recesses therein for receiving the outer extremities of said yieldable walls of the lamp supporting plate so as to prevent rectilineal sliding or turning movement of said lamp housing with respect to said cover plate, knob projections formed with said lamp housing and having a snap-on connection with the knobs of said yieldable walls whereby said lamp supporting plate and the side and end walls of said lamp housing will be caused to engage said cover plate and be retained thereupon.

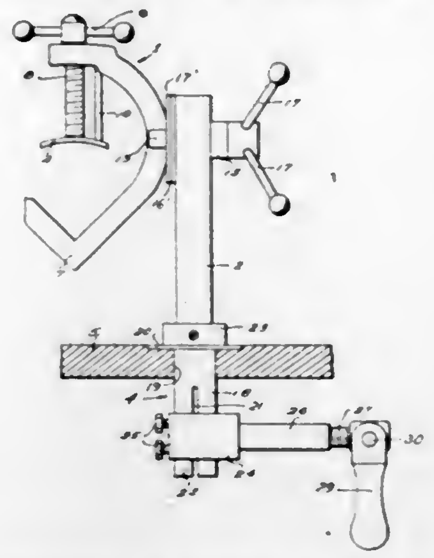
2,420,001
CARGO MOVING DEVICE
John McCollum, Oakland, Calif.
Application December 29, 1945, Serial No. 638,091
1 Claim. (Cl. 280—78)



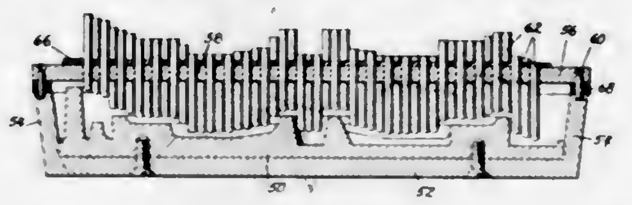
A cargo-moving device comprising a substantially V-shaped body having a bridge and arms extending therefrom, said body being bent intermediate the length of its arms to provide a horizontally extending load-supporting portion and a forward portion extending upwardly at a forward incline from the front end of the load-supporting portion, rear ends of the arms being bent upwardly and forming load-engaging hooks, bearing brackets extending downwardly from outer side edges of the arms at the front end of the said load-supporting portion, a roller rotatably mounted between said brackets, bracing bars extending longitudinally of the said forward portion with their upper ends secured to upper portions of the arms and their lower portions secured to the arms rearwardly of the lower edge of the said forward portion, a reinforcing plate for the upper end of said forward portion mounted against the front face thereof, and loop for engagement by a towing line mounted vertically against the rear face of the bridge midway the width thereof.

2,420,002
BENCH VISE
Leslie J. McKay, Orlando, Fla.
Application October 23, 1944, Serial No. 559,931
1 Claim. (Cl. 81—41)

A vise for use on a bench comprising a post, means adapted to mount said post in the top of said bench in upright position, a pair of jaws at the upper end of the post one mounted on the other and movable into and from clamping relation thereto, and means to mount said other jaw on said post for rotary adjustment about an axis transverse with respect to said post, the means first mentioned comprising an adjustable collar on said post, a sleeve adapted to extend through said top and in which said post is removably and rotatably mounted in any selected position of vertical adjustment by means of said collar, said sleeve being split for compression against the post to clampingly engage the same, and manipulative means for compressing said sleeve comprising a screw shaft extending radially of said sleeve and provided with a handle, a coupling box secured to said sleeve beneath said top, said screw shaft being threaded in said box, and a block swivelled on said shaft inside said box for engagement with said sleeve by turning of the shaft.



2,420,003
TEMPERATURE CONTROL MOLD
Raymond J. Miller, Detroit, Mich., assignor, by direct and mesne assignments, to Miller Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application September 14, 1942, Serial No. 458,265
20 Claims. (Cl. 22—113)

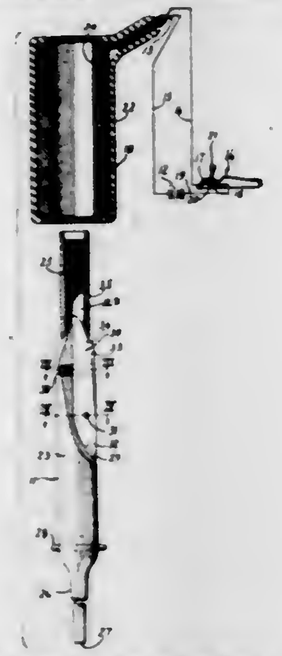


1. A temperature control mold forming member comprising a flask having a pattern therein, a plate superimposed on the flask and having a plurality of closely spaced apertures therein, a plurality of recess forming members movably mounted in said apertures, and resilient means to maintain the recess forming members in any adjusted position.

19. The method of making a non-permanent mold formed of moisture containing material, which comprises forming in said material, while it is still wet, a plurality of recesses to control the heat dissipating properties of the material, removing the recess forming members, and thereafter subjecting said material to a drying action to transfer to the outer surfaces of the material the moisture entrained therein, the said drying action being accelerated by virtue of the recesses having been formed in the material prior to such drying action.

2,420,004
SURGICAL INSTRUMENT

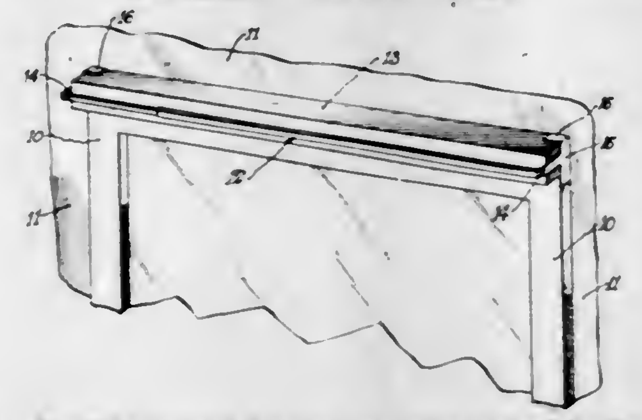
Raymond Arthur Mull, St. Joseph Township, Barrien County, Mich.
Application August 7, 1943, Serial No. 497,739
7 Claims. (Cl. 128—1.4)



1. An electromagnetic surgical instrument for removing ferromagnetic elements from a living body comprising an electric solenoid, a magnetizable core member extending through said solenoid and projecting therefrom at both ends, one of said projecting portions forming a probe portion and the other projecting portion forming a handle, and means for latching said core member in desired position in said solenoid.

2,420,005
CURTAIN ROD

Joseph Nuccio, Chicago, Ill.
Application June 20, 1945, Serial No. 600,434
6 Claims. (Cl. 211—105.2)

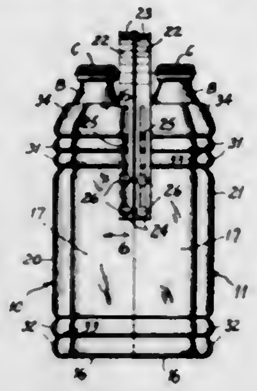


1. A curtain rod having an elongated body and a short arm at each end of the body extending rearwardly therefrom and terminating in a vertical cross piece that forms therewith a T, the upper end of each cross-piece having an element projecting inwardly, parallel with the body of the rod; whereby, when the rod is placed in front of the top member of a window frame or the like, with the said cross-pieces engaged with the side edges of the frame and with the wall in which the frame is located and with said elements of said cross-pieces resting on top of the frame, the rod is firmly anchored.

2,420,006
CARRIER FOR BOTTLED GOODS

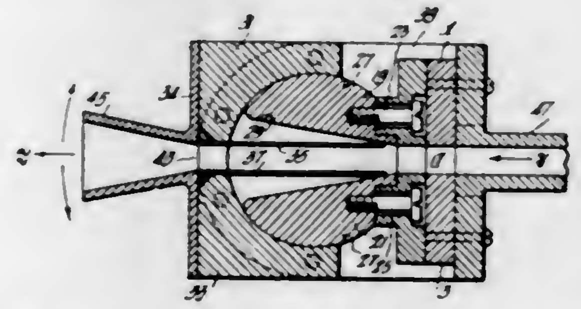
James W. O'Hare, Richmond Heights, Mo.
Application September 20, 1945, Serial No. 617,596
5 Claims. (Cl. 224—48)

1. A carrier for bottles of beverage or the like, including a pair of bottle-enclosing sections, hinge means connecting said sections in at least partly separable relation to facilitate loading and unloading the carrier, each section including one or more laterally concavo-convex portions conforming generally to a curved bottle surface over a portion of the bottle height, the side walls of the carrier being characterized by inturned upper marginal portions engaging a sloping shoulder portion of each of the bottles, when the enclosing sections are juxtaposed in bottle-carrying relation, and a lifting handle attached to each of said sections and extending, when said sections are juxtaposed in bottle-carrying relation, above the bottles in the carrier.



2,420,007
FLEXIBLE JOINT FOR WAVEGUIDES

Roger G. Olden, Princeton Township, Mercer County, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1944, Serial No. 556,520
7 Claims. (Cl. 250—11)



1. A flexible joint for a waveguide transmission system comprising a fixed split journal having inner surfaces forming a wedge-shaped aperture opening into said waveguide, said inner surfaces providing means for limiting the movement of said joint, a complementary apertured bearing journaled on the outer surfaces of said fixed journal, and flexible conductive elements secured to said bearing adjacent the aperture therein and arranged to contact and slide upon said inner surfaces of said fixed journal, whereby said flexible elements comprise opposite walls of a wave transmission path through said joint and said bearing aperture.

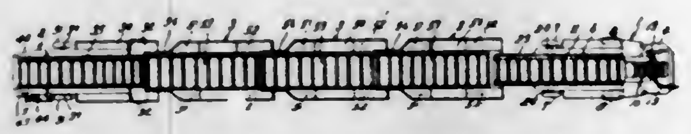
2,420,008
DISAZO DYES CONTAINING HIGHER ACYLAMINO GROUP

Henry Charles Olpin, Edmund Stanley, and Christopher Stanley Argyle, Spondon, near Derby, England, assignors to British Celanese Limited, London, England, a company of Great Britain
No Drawing. Application June 27, 1942, Serial No. 448,834. In Great Britain July 25, 1941
7 Claims. (Cl. 260—187)

1. A disazo dye of the formula A—N=N—Y where A is an azo benzene residue and Y is the residue of an N-alkyl aniline having as a substituent in meta position to the N-alkylamino group an amino group acidylated with an aliphatic monocarboxylic acid containing from 16 to 18 carbon atoms, said residue Y being united to the azo group at the para position to the alkylamino group.

2,420,009
APPARATUS FOR TRANSFERRING MATERIAL IN MINES

Charles F. Osgood, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application April 7, 1944, Serial No. 530,009
16 Claims. (Cl. 214—83)

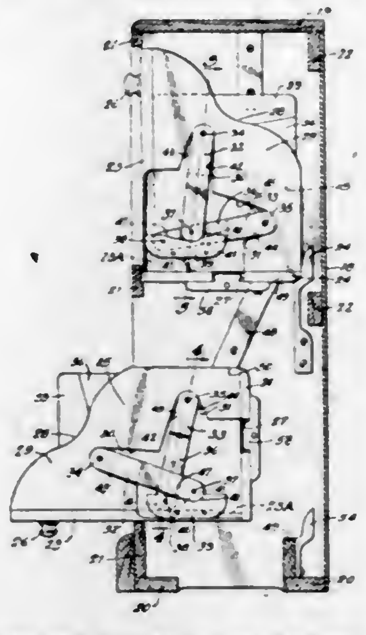


1. A self-contained apparatus for gathering, hauling, and unloading loose material in mines comprising a laterally and vertically flexible train including a series of articulated wheel supported material transport cars flexibly coupled to turn laterally and vertically in either direction and adapted to travel over the uneven floor and through the curved passageways of a mine without the aid of a guiding trackway, said cars each having a material receiving compartment and steering wheels, a material gathering and loading device carried by the end car at one end of the train for loading material onto the train, mechanical power operated means associated with each car and discharging into the compartment of the next adjacent car for progressively moving the material so loaded from car to car lengthwise of the train to fill all of the compartments irrespective of the laterally and vertically flexed position of the train, said compartments having overlapping sides and bottom portions at the discharge ends of said material moving means and said moving means being so arranged in said compartments and so constructed that the material may be moved from car to car without appreciable spillage even when the train is laterally and vertically flexed as aforesaid, and a material discharge device carried by the end car at the opposite end of the train for discharging the material from the train, said mechanical moving means operating to move the material progressively from car to car during such discharge.

2,420,010
FILING CABINET WITH TILTABLE COMPARTMENT

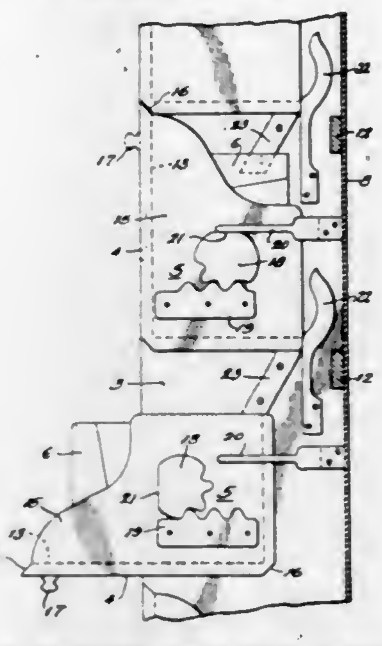
John Warren Paxton, and George Noble Paxton, Bloomington, and Irving Richard Cornish, Elmhurst, Ill.; Arlie L. Paxton and The National Bank of Bloomington, Bloomington, Ill., executors of said George Noble Paxton, deceased
Application April 24, 1943, Serial No. 484,392
3 Claims. (Cl. 45—2)

1. A filing cabinet comprising, a casing having a vertical front provided with a rectangular opening therein, a swinging side-filing storage container mounted in said casing and having a rectangular face panel which in normal storage position of said container extends in a vertical plane and serves as a closure for said opening, a pair of container-supporting links interposed between each end of said container and the adjacent casing wall, one link of each pair being pivoted at one end to said casing adjacent to the front thereof near and above the bottom of said opening and with its other end pivoted to said container at a point transversely remote from said face panel, the other link of each pair being pivoted to said casing inwardly adjacent to the first-mentioned pivot of said one link and with its other end pivoted to said container intermediate said face panel and a vertical median plane through said container, said pairs of links coacting to permit said container to be swung outwardly in said opening through an angle of 90° to an access position in which said panel extends horizontally through and across the bottom of said opening so as to locate a substantial portion of said container inside of said casing.



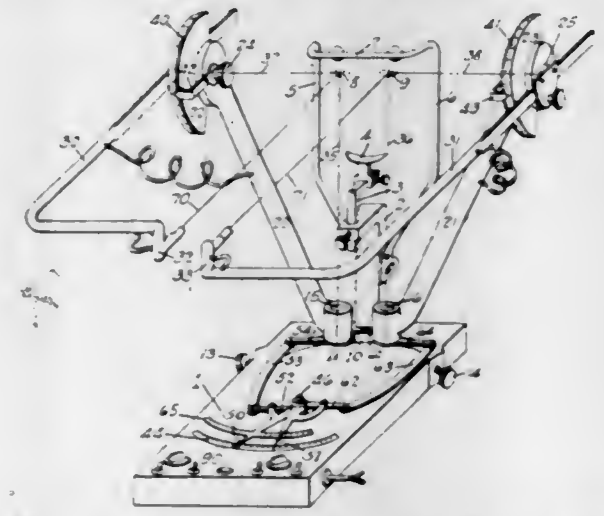
2,420,011
FILING CABINET WITH TILTABLE COMPARTMENT

John Warren Paxton and George Noble Paxton, Bloomington, and Irving Richard Cornish, Elmhurst, Ill.; Arlie L. Paxton and The National Bank of Bloomington, Bloomington, Ill., executors of said George Noble Paxton, deceased
Application October 2, 1944, Serial No. 556,714
1 Claim. (Cl. 45—2)



In a filing cabinet, a casing having a vertical front provided with a rectangular opening therein, a swinging side-filing storage container mounted in said casing and having a rectangular face panel which in normal storage position of the container extends in a vertical plane and serves as a closure for said opening, and connections between said container and casing for controlling the swinging of said container comprising a rack fixed on said casing with its pitch line horizontal and a substantial distance above the lower end of said face panel in its storage position and a gear fixed to said container meshing with said rack and at all times having its axis located above the rack rearwardly of the opening and intermediate the height of the opening, whereby said container is adapted to swing outwardly in said opening through an angle of 90° to an access position in which said panel extends horizontally through, and across the bottom of, said opening, so as to locate a substantial portion of said container inside of the casing.

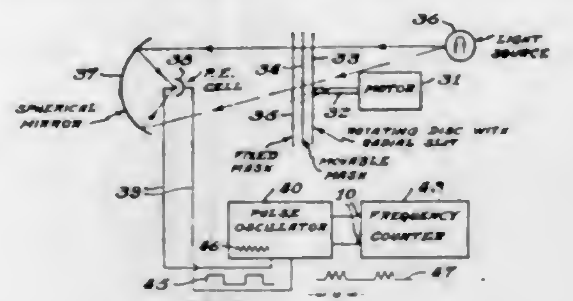
2,420,012
OPHTHALMIC TEST INSTRUMENT FOR THE OCULAR MUSCLES
Otto A. Putnam, West Reading, Pa.
Application July 11, 1944, Serial No. 544,394
4 Claims. (Cl. 88—20)



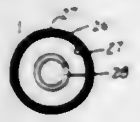
1. An ophthalmic instrument of the character described pertaining to directional functionings of the ocular muscles, comprising a fixed base member, a head-engaging frame mounted on said base for positioning a pair of eyes in free forwardly viewing position, a pair of viewable targets for said eyes, shielding means associated with each of said targets limiting viewing of each solely to its respective eye, separate carrier arms for the respective targets for spacedly positioning each in free open view in a direct radial line of vision before its particular eye, separate supporting members for the respective carrier arms mounted on said base and each having two pivotal bearings of rotation at right angles to one another with the projected axes thereof intersecting at the centers of rotation of their respective eyes for moving each target to any position of view in a spherical orbit concentric with its said center of eye rotation, and means for indicating the angular directions of the separate radial line of vision from each eye to its particular target.

2,420,013
ELECTRON COMPUTING DEVICE
Jan A. Rajchman, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Division of abandoned application Serial No. 437,259, April 1, 1942. This application February 19, 1944, Serial No. 523,130
4 Claims. (Cl. 177—351)

1. In a computer for substantially continuously deriving a mathematical function of the variable angular displacement of two elements, a continuously rotatable apertured mask, a movable mask disposed to rotate on a different axis than said apertured mask to form with said rotatable mask aperture an adjustable selectively-opened aperture having an opening time interval during each revolution of said rotatable mask which is a nonlinear function of said angular displacement, a light source, a light-responsive device associated with said light source, means for directing light from said source through said adjustable aperture for interrupting said light to derive voltage pulses from said responsive device, a continuously operable constant frequency pulse generator, and means for keying said generator by said voltage pulses to indicate the value of said function.



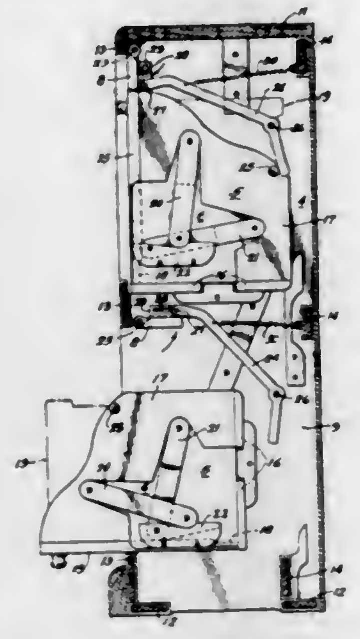
2,420,014
CATHODE
George T. Rayfield, San Bruno, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application April 18, 1944, Serial No. 531,631
4 Claims. (Cl. 250—27.5)



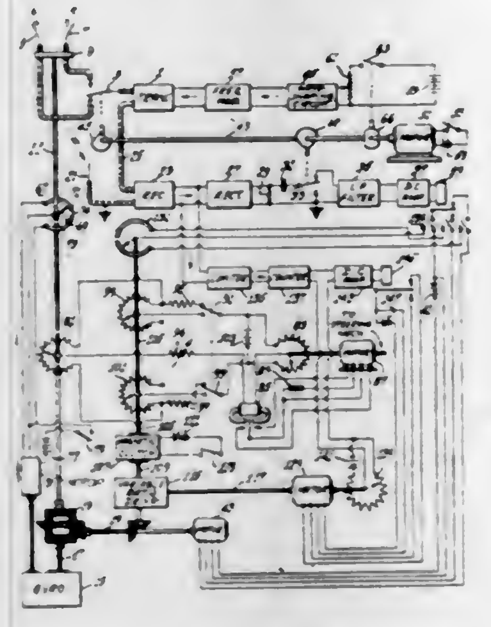
2. An indirectly heated cathode comprising a tubular emitter element of sheet material having a core layer of thorium interposed between sheath layers of tantalum.

2,420,015
FILING CABINET
Thomas J. Salsman, Chicago, and John Warren Paxton, Bloomington, Ill.
Application April 22, 1944, Serial No. 532,280
3 Claims. (Cl. 45—2)

1. A filing cabinet comprising, a casing having a vertical front provided with a rectangular opening therein, a container mounted in said casing and having a rectangular face panel which in the normal storage position of said container extends in a vertical plane and serves as a closure for said opening and which container is adapted to swing outwardly in said opening through an angle of 90° to an access position in which said panel extends horizontally through, and across the bottom of, said opening, so as to locate a substantial portion of said container inside of said casing, connections supporting said container on said casing to permit the swinging of said container between its access and storage positions, an auxiliary section hinged on said casing for movement between a position in vertically-aligned registration with said panel to complete the closure of said casing opening when said container is in its closed position and a retracted position to clear the path of said container contents during the swinging of said container, shiftable means on said casing connected to said section and normally actuated independently of said container to shift said auxiliary section into its retracted position, and other means on said container positioned to engage said first-mentioned means when said container is in its fully-closed position so as to hold said auxiliary section in its position aligned with said container panel.

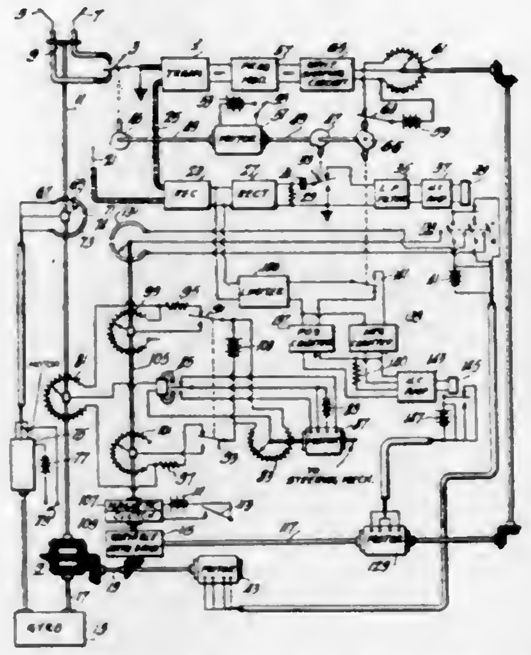


2,420,016
REFLECTED WAVE NAVIGATION DEVICE
Royden C. Sanders, Jr., Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 23, 1944, Serial No. 537,020
9 Claims. (Cl. 250—1.54)



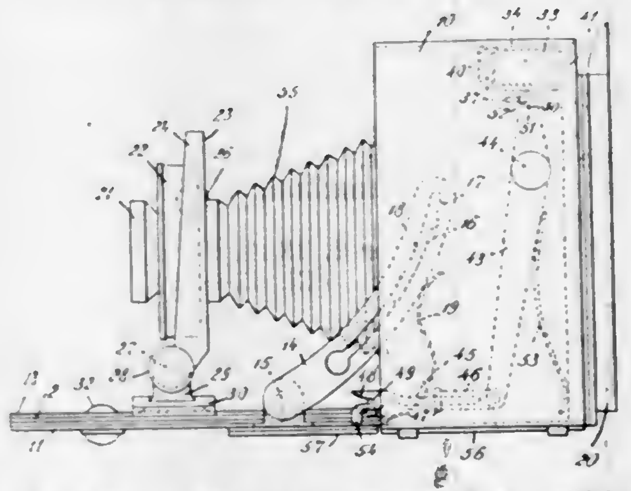
1. The method of steering a mobile craft toward a predetermined objective, including the steps of substantially continuously determining the azimuth of said objective with respect to the line of travel of said craft, changing the direction of travel of said craft in response to changes occurring in said azimuth but to extents which are multiples of said changes in azimuth by a factor designated as the navigation ratio, substantially continuously determining the distance of said craft from said objective, and varying the value of said navigation ratio directly as said distance.

2,420,017
REFLECTED WAVE NAVIGATION DEVICE
Royden C. Sanders, Jr., Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 23, 1944, Serial No. 537,021
9 Claims. (Cl. 250—1.54)



1. The method of steering a mobile craft toward a predetermined objective, including the steps of substantially continuously determining the azimuth of said objective with respect to the line of travel of said craft, changing the direction of travel of said craft in response to changes occurring in said azimuth but to extents which are multiples of said changes in azimuth by a factor designated as the navigation ratio, substantially continuously determining the predicted time required for said craft to arrive at said objective, and varying the value of said navigation ratio directly as said predicted time.

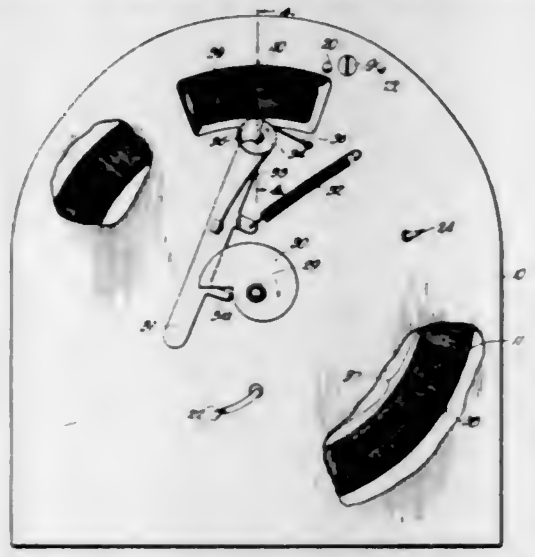
2,420,018
RANGE FINDER COUPLING FOR CAMERAS
Walter J. Semerau, Alloy, W. Va., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application May 3, 1944, Serial No. 533,867
2 Claims. (Cl. 95—44)



1. In a photographic camera the combination of an adjustably mounted lens, a range finder having at least one adjustably mounted reflector, and means for coupling said lens to said range finder and for providing an adjustment whereby said range finder may be employed for accurately determining the range while focusing with lenses of different focal lengths, which comprises two levers movable in planes disposed at substantially a right angle, one said lever having operative

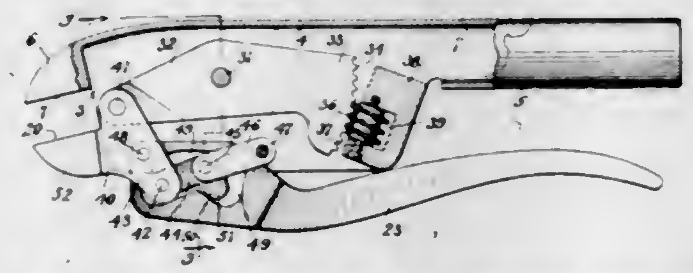
connection to the movable reflector and the other having connecting means by which it is attached for movement with the lens as the latter is focused, and means for transmitting movement of the second lever to the first comprising a knife-edged contact member threaded to an extension projecting at right angles from the second lever and adjustable along said threaded extension to bear on said first lever at different points along the length thereof, thereby to vary the ratio of movement of the reflector as compared to the focusing movement of the lens by varying the effective length of the first lever only.

2,420,019
TIMING DEVICE
Philip O. Shrack, Atchison, Kans.
Application July 23, 1945, Serial No. 606,581
7 Claims. (Cl. 200—37)



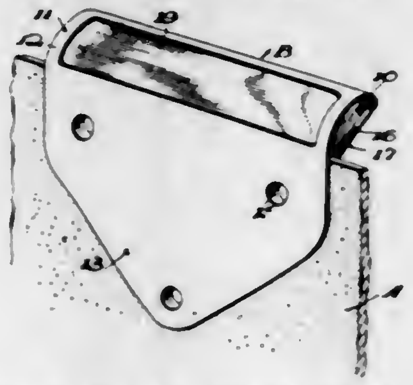
1. A timing device comprising a plurality of relatively stationary circuit-closing means, a selector made up of a support, adjustable slide members mounted in abutting relationship upon said support, adjacent ones of said members being of different size whereby they form a serrated surface, a gear meshing with the serrated surface, a mechanism for driving said gear thereby to actuate the selector, means on the slide members adapted to selectively engage said stationary circuit-closing means on adjustment of the slide members and actuation of the selector whereby selected circuits are closed at predetermined time intervals.

2,420,020
LEVER-ACTUATED PIVOTED-JAW WRENCH
Francis A. Snell, Binghamton, N. Y., assignor, by mesne assignments, to BMC Manufacturing Corporation, Binghamton, N. Y., a corporation of New York
Application December 9, 1944, Serial No. 567,480
9 Claims. (Cl. 81—84)



2. A tool of the character described comprising, a frame having spaced walls, an adjusting lever pivoted between the walls, the frame having a stationary jaw portion, a movable jaw pivoted to the adjusting lever and being pivotally connected by a pair of pivotally-joined links to the frame, an actuating lever pivotally attached to the movable jaw and apertured to embrace one of the links and operative on said link to cause pivotal movement of the movable jaw when the actuating handle is swung to or from the frame.

2,420,021
TAB FOR GUIDE CARDS
Clarence W. Straubel and John S. Holbrook, Youngstown, Ohio, assignors to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application September 30, 1944, Serial No. 556,597
10 Claims. (Cl. 40—16)



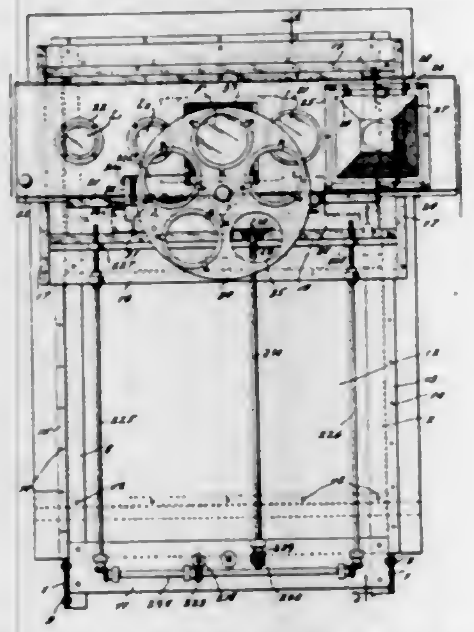
1. In a guide tab for index cards or the like of the type including a body of sheet material doubled upon itself to provide a rear wall and a front wall having an opening providing an elongated rectangular window frame overlying the inner face of the rear wall, means for fastening the lower portions of said walls to the card, an elongated rectangular transversely convex lens element, and cooperating means on the lens element and frame for detachably interlocking the lens and frame, said lens having a channel for supporting a label between said lens and the rear wall of the holder whereby the label is supported in a position to be viewed through the window frame and said lens element.

2,420,022
PRODUCTION OF ANTHRIMIDES
John Marlin Tinker, Wilmington, Del., and Otto Stallmann, Bridgeton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 9, 1944, Serial No. 534,819
4 Claims. (Cl. 260—367)

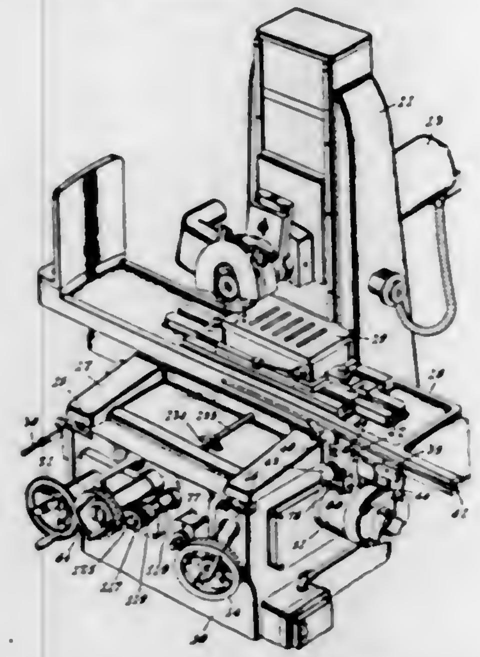
1. In the process of producing an anthrimide by heating an anthraquinone compound having an exchangeable halogen atom with an anthraquinone compound having an NH_2 group in the presence of a solid cupriferous catalyst and of an acid absorbing agent selected from the group consisting of the alkali-metal carbonates and acetates, the improvement which consists of heating said materials together at a temperature between 150° and 350° C. while the mixture is being subjected to constant attrition and mixing by the aid of mechanical grinding, whereby to obtain the final reaction mass in solid state but highly comminuted form.

2,420,023
CHANGEABLE LENS AND FILTER STRUCTURE FOR COPY CAMERAS
Stephen N. Wekeman, Saddle River Township, Bergen County, N. J., assignor to Sun Chemical Corporation, a corporation of Delaware
Application April 29, 1943, Serial No. 485,004
4 Claims. (Cl. 88—24)

1. In a device of the character described, supporting means, a frame plate movable on said supporting means, a slide horizontally movable on said frame plate, a plurality of objective lenses fixed in a horizontal row on said slide, a bracket secured to said frame plate, a disk rotatably mounted on said bracket for movement in a vertical plane, and a plurality of color screens carried by said disk.

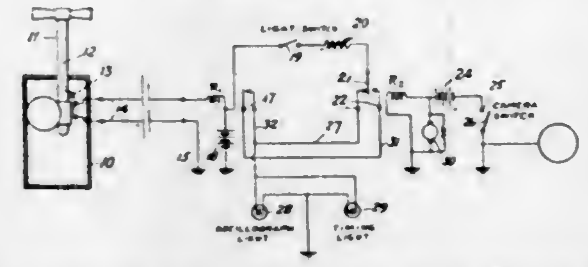


2,420,024
GRINDING MACHINE
Stephen E. Woodbury, Beverly, Mass., assignor to Reid Brothers Company, Inc., Beverly, Mass., a corporation of Massachusetts
Application August 8, 1945, Serial No. 609,522
17 Claims. (Cl. 51—92)



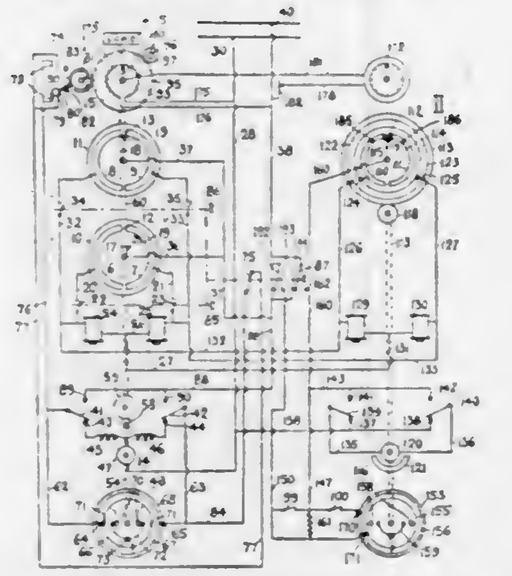
1. In a grinding machine of the class described, the combination of a work table, power operated mechanism for reciprocating the table, a cross feed slide carrying the table, a feed motor and connected mechanism for causing feeding of the slide, a control circuit for the motor having a switch therein which is open during the major portion of the table movement, means for closing the switch near the end of table movement in one direction to thereby start the motor and for opening the switch after a short predetermined interval, a second normally closed switch in the said control circuit, and means operated by movement of the feed mechanism for opening the second switch after a predetermined amount of feeding to stop the feed motor while the first switch remains closed.

2,420,025
VIBRATION RECORDER
Wayne W. Young, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application November 30, 1945, Serial No. 632,033
4 Claims. (Cl. 234—61)



1. Vibration recording apparatus comprising in combination, a blasting machine having an operating handle movable to and from a detonating position, an oscillograph adapted to indicate the presence of vibration, means including a source of current and lights to electrically illuminate for photographic purposes said oscillograph indications, a camera adapted to record on moving film said oscillograph indications, relay circuit means for controlling the operation of said camera and said electric illumination means, said relay circuit means including a manually operable switch for simultaneously operating a relay and said camera, said relay being operable to disconnect said lights from said source of current, and a second relay being operable in response to the movement of said blasting machine handle to its detonating position to connect said lights to said source of current and provide illumination of said oscillograph indications.

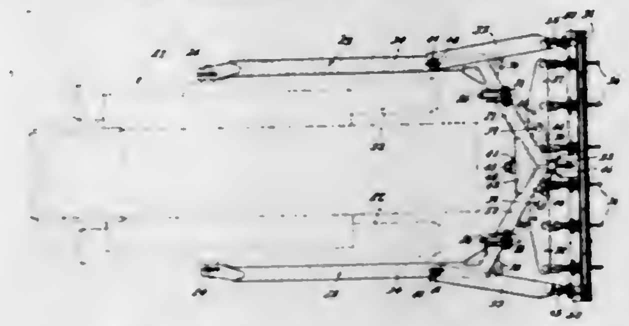
2,420,026
DUAL REMOTE-CONTROL APPARATUS
Michel N. Yardeny, New York, N. Y.
Application May 5, 1944, Serial No. 534,226
4 Claims. (Cl. 172—239)



4. In a system for positioning from a control point a load at a remote point to a predetermined position or to any desired position, in combination, a reversible motor for moving the load, a selector at the remote point having a neutral position and comprising a pair of relatively movable members, one of the members being pre-set to control directional rotation of the said load motor to move the load to the said predetermined position, and the other member being driven by the load motor in a direction to restore the said selector to its said neutral position to stop motor rotation, the said other member overrunning the neutral position to cause reversal in motor rota-

tion, speed reducing means, means responsive to said reversal to render the said speed reducing means operative, a control device at the control point having a neutral position and comprising a pair of relatively movable members, one of the members being selectively adjusted to control directional rotation of the said load motor to move the load to a desired position, means at the control point for moving the other member in a direction to restore the said control device to its said neutral position to stop motor rotation, and switch means at the control point selectively operated to place the load motor under control of the said device at the control point or under control of the said selector at the remote point, said switch means rendering the said speed reducing means continuously operative when the load motor is under control of the said device at the control point.

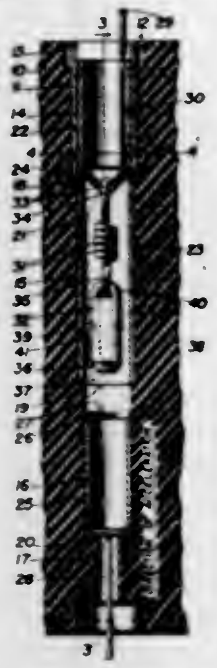
2,420,027
EARTH-WORKING IMPLEMENT
Ellsworth W. Austin, Cedar Rapids, Iowa, assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application August 5, 1944, Serial No. 548,265
19 Claims. (Cl. 37—145)



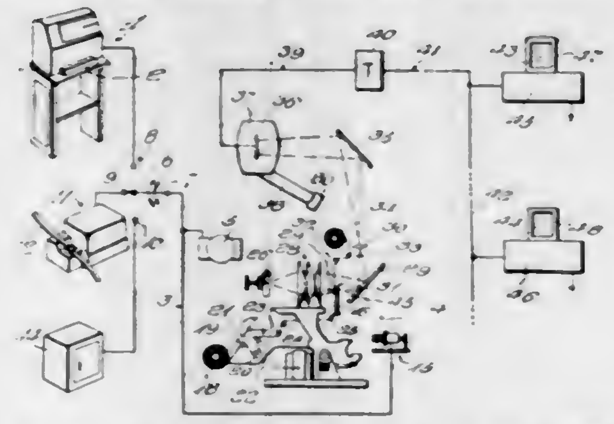
1. An earth-working implement comprising an assembly including a mold board and a rake tooth extending downwardly therefrom; means for adjustably mounting said assembly on a tractor or the like, and means for selectively securing said assembly in a plurality of adjusted positions extending transversely to the longitudinal axis of the tractor in different angular relations thereto, said assembly further comprising means for mounting said tooth for pivotal movement about an axis which is fixed with respect to said mold board and is substantially perpendicular to the ground surface when the mold board is in a normal working position relative thereto.

2,420,028
ELECTRICAL SWITCH
Robert M. Bleakney and Everly J. Workman, Albuquerque, N. Mex., assignors to the United States of America, as represented by the Secretary of the Navy
Application April 10, 1942, Serial No. 438,506
2 Claims. (Cl. 200—52)

1. In a projectile including an electric circuit therein, an inertia switch carried internally of said projectile for controlling said circuit comprising a support, a cupped fixed contact member carried by said support, a complementary cylindrical contact member adapted to be received in said cupped contact member, a coiled ductile tie member, one end of which is connected to said support and the other end to said cylindrical contact member for initially spacing said contact members apart, said cylindrical contact member being movable when said projectile is subjected to a predetermined degree of acceleration to axially extend said tie member and enter said cupped contact member, and locking means carried by one of said contact members to lock said contact members together as said contact members move into engagement with each other.



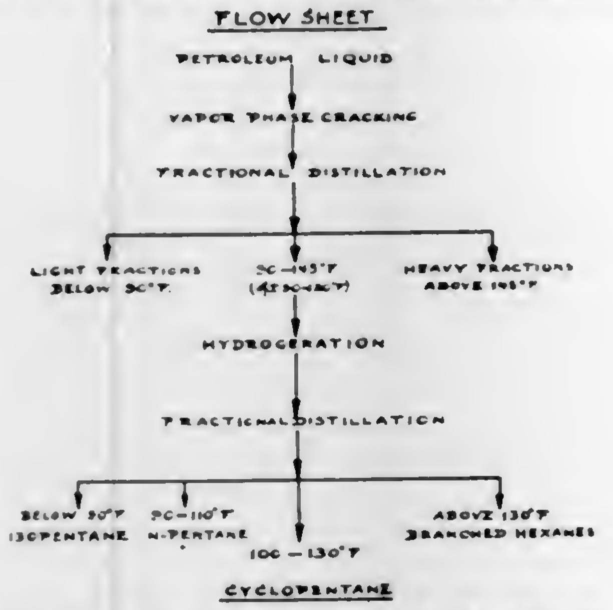
2,420,029
PRINTING TELEGRAPH TRANSMISSION AND RECEPTION SYSTEM
John B. Brady. Somerset, Md.
Application June 7, 1945, Serial No. 598,135
21 Claims. (Cl. 178—6.7)



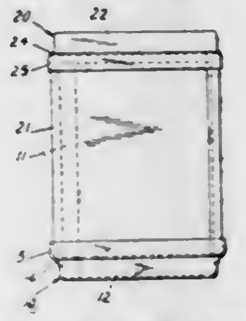
1. In a communication system embodying a permutation and combination printing telegraph receiver with means for selectively controlling said receiver according to a telegraphic code for printing telegraphic messages on a transparent progressively movable web the method of transmitting and receiving signaling energy which comprises optically projecting the image of the typed message progressively as it is formed character by character and line by line on an electronically active surface, scanning said surface, sustaining the image of the previously transmitted characters and the images of the characters currently transmitted for a multiplicity of lines and electrically transmitting signal impulses according to the optic exposure of the surface to a remote electronic optical reproducing system.

2,420,030
MOTOR FUELS AND PREPARATION THEREOF
Richard C. Brandon, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 13, 1943, Serial No. 482,832
2 Claims. (Cl. 196—61)

2. The method of preparing a volatile liquid hydrocarbon product especially useful as a blending agent in leaded fuels for supercharged aviation engines to be used under rich mixture operation for maximum power output, which comprises subjecting to vapor phase cracking a petroleum hydrocarbon stock composed of hydrocarbons having at least 5 carbon atoms under conditions to produce substantially large quantities of cyclopentadiene with other unsaturated C_5 to C_6 hydrocarbons boiling below 110° F. and above 127° F., fractionating the resulting cracked products to separate therefrom a fraction boiling within the approximate limits of 90–145° F., hydrogenating said fraction under conditions to saturate the unsaturated hydrocarbons therein, fractionating the resultant hydrogenated product to separate therefrom a fraction consisting essentially of normal pentane, and combining the other components of the hydrogenated product essentially including isopentane, cyclopentane, and branched hexanes to obtain a motor fuel blending agent having the desired combination of antiknock and vapor pressure properties.

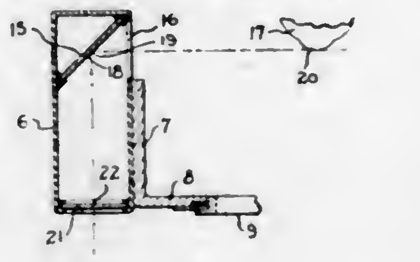


2,420,031
CIGARETTE PACKAGE HOLDER
Irwin E. Cohn, Leominster, Mass.
Application September 4, 1944, Serial No. 552,635
3 Claims. (Cl. 220—8)



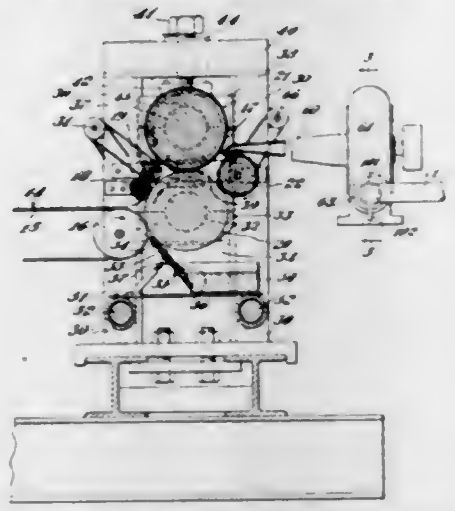
1. A holder for a cigarette package fabricated from transparent, tinted plastic sheet, comprising a bottom member and a top member, each having a prismatic wall portion and an end portion, both said end portions being stamped from plastic sheet to form an annular shoulder intermediate an inwardly receded floor and an outwardly extending annular lip, the said annular shoulder and the said inwardly receded floor of both members being equi-dimensioned, both said prismatic wall portions being folded from plastic sheet, with an adhered overlap joint, the prismatic wall portion of the bottom member being folded to the smaller dimensions corresponding to the peripheral outline of the said inwardly receded floor of the end portions and the prismatic wall portion of the top member being folded to the larger dimensions of the said annular shoulder of the end portions, one end of the said smaller-dimensioned prismatic walls being seated in the said inwardly receded floor of one of the end portions and adhered to the walls thereof, and one end of the said larger-dimensioned prismatic wall being seated in the said annular shoulder of the other of the end portions and adhered to the said outwardly extending annular lip thereof, the smaller-dimensioned prismatic wall of the bottom member being adapted to receive a cigarette package, and the larger-dimensioned prismatic wall of the top member being adapted to receive the prismatic wall of the bottom member and the said cigarette package held therein, the annular lip of the end portion of the bottom member being flared outwardly to provide an annular clearance between the flared lip and the prismatic wall portion of the bottom member adapted to receive and frictionally hold the distal edge portion of the prismatic wall of the top member, to form an air-tight and secure closure between the two members.

2,420,032
TRIAL FRAME
Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application August 7, 1944, Serial No. 548,381
3 Claims. (Cl. 88—20)



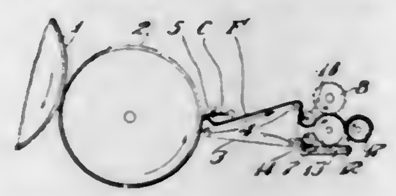
1. In an eye testing device, a main frame member having means for supporting a plurality of trial lenses for alignment wtih the respective eyes of an individual under test, said lenses being computed to introduce a controlled prescriptive value when supported at a given distance from the eyes, said means for supporting the trial lenses each having a sighting member carried thereby and extending rearwardly from adjacent the outer side thereof, a light deflecting member supported by said sighting member adjacent the rearmost end thereof with its reflecting surface disposed at an angle substantially 45° with respect to a sight line extending through said sighting member substantially perpendicular to the plane of the trial lens supporting means and with its reflecting surface exposed to receive an image of the cornea of the adjacent eye of the individual when the device is in position of use, said reflector having a main aligning means thereon positioned at a fixed distance rearwardly of the trial lens supporting means, which distance is controlled according to the computed values of the trial lenses, scale means on the opposed side of said main aligning means, means adjacent the forward end of the sighting member having aligning means thereon adapted to be aligned with the main aligning means on the light deflecting member and means for altering and controlling the distance between the trial lens supporting means and the eyes of the patient whereby the main aligning means on the light deflecting means or selected graduation of the scale means may be aligned with the corneal surface of the adjacent eye as viewed through the sighting member.

2,420,033
METHOD AND APPARATUS FOR SEPARATING FIBERS
Robert A. Fairbairn, Wellesley, Mass.,
Application September 10, 1941, Serial No. 410,300
35 Claims. (Cl. 19—65)



1. Method of preparing for textile use cashmere and similar fleeces including intermingled relatively coarse and fine fibers which comprises as a step subjecting a web or film of coarse and fine fibers to a dividing operation including pressure sufficient to divide substantially all of the coarse fibers into short lengths while they are still intermingled with the fine fibers but leaving at least the majority of the fine fibers of greater length than said short lengths of coarse fibers, the thickness of said web or film not exceeding the thickness of a web or film produced by a card.

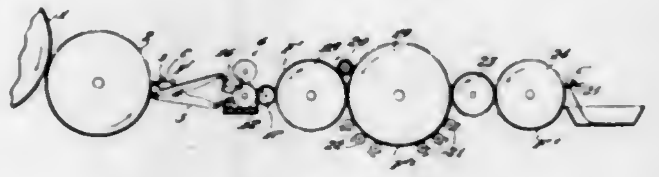
2,420,034
METHOD OF AND APPARATUS FOR PARALLELIZING TEXTILE FIBERS
Robert A. Fairbairn, Needham, Mass.
Application April 15, 1946, Serial No. 662,240
12 Claims. (Cl. 19—130)



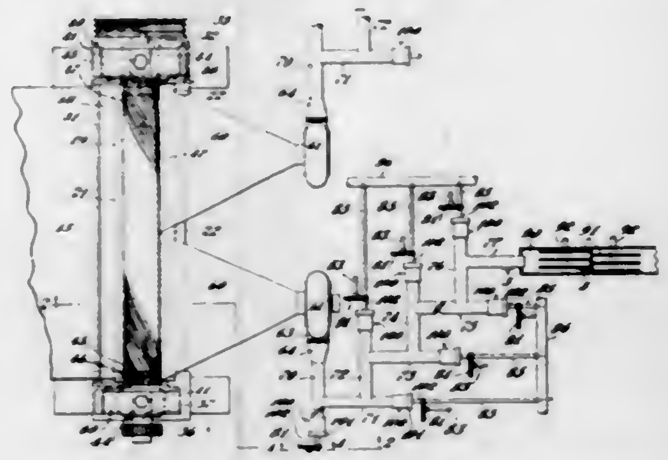
1. The method of treating unwoven textile fibers comprising the steps of advancing at a predetermined speed a film or web of fibers of the character of a film or web produced by a carding machine, causing the fibers to cling to a surface in the presence of moisture and, while the fibers continue to cling to said surface, advancing said surface at a higher surface speed than the surface speed of the firm or web whereby the faster moving surface causes the fibers to extend in a direction predominantly parallel to its direction of movement, reduces the thickness of the film or web to substantially single fiber thickness and retains and advances the fibers in said relationship.

2,420,035
METHOD AND APPARATUS FOR SEPARATING FIBERS
Robert A. Fairbairn, Wellesley, Mass.
Application November 11, 1942, Serial No. 465,217
21 Claims. (Cl. 19—65)

1. Method of separating short coarse fibrous elements from fine longer fibrous elements intermingled with each other and forming a web or film, which comprises as steps suspending the web or film, such as on a cylinder provided with card clothing so as to expose the under surface of the web or film, and while it is so suspended subjecting it to rapid vibration thereby to cause the short coarse fibrous elements to drop away from the fine and long fibrous elements.



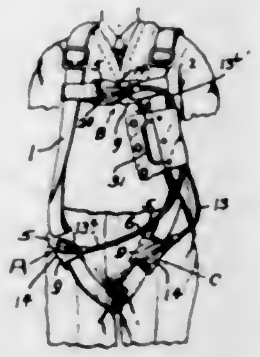
2,420,036
MEANS FOR SEPARATING SHORT COARSE FIBERS FROM LONG FINE FIBERS
Robert A. Fairbairn, Needham, Mass.
Original application September 10, 1941, Serial No. 410,300. Divided and this application March 15, 1945, Serial No. 582,852
3 Claims. (Cl. 19—76)



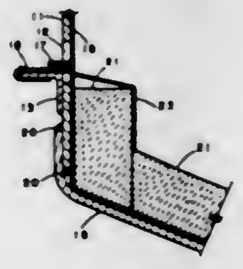
3. Textile apparatus for use in the separation of intermingled relatively long and fine down fibers and short lengths of coarse fiber, the apparatus comprising separating means to which the mingled fine and coarse fiber is delivered, said separating means including a system of connected branch passages each terminating in a dead air chamber, the several branches being disposed each at substantially right angles to the next, means providing an inlet to said system, means providing an outlet to said system, means for creating a fiber-carrying air current from end to end of said system, means affording communication with the atmosphere at the inlet end of said system and means affording communication with the atmosphere at the outlet end of said system, said system being free from communication with the atmosphere except at said inlet and outlet ends.

2,420,037
QUICK RELEASE MEANS FOR PARACHUTE HARNESS
William H. Fausz, Newport, Ky.
Application November 30, 1943, Serial No. 512,368
8 Claims. 244—151)

1. In combination with parachute harness or the like having at least one point of separation, plates attached to harness elements and arranged to be detachably secured together, one of said plates having a stud, the other of said plates having a perforation to admit said stub, said stud having a transverse perforation to admit a pin to hold said parts in assembly, a flexible operating element for said pin, a flexible sheath surrounding said operating element, said sheath and operating element extending to a point of convenient access to the wearer of the harness, the operating element there having a handle, and means for anchoring the sheath at both ends so that tension on the sheath will not produce movement of the pin, the said anchoring means at one end of the sheath including a plate-like guard perforated to pass over the stud and lie under and beyond the pin, and means attaching said guard to said sheath.



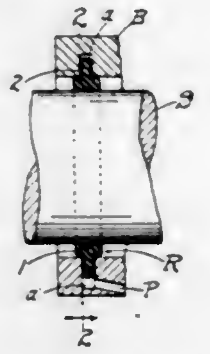
2,420,038
LINED VESSEL
Frank A. Ferguson, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 23, 1944, Serial No. 560,061
4 Claims. (Cl. 23—285)



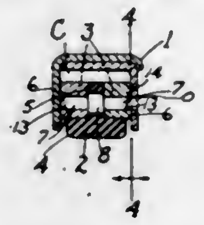
1. In a vessel adapted for handling corrosive liquids, an outer shell with a vertical wall portion provided with a plurality of spaced horizontally extending slots, a plurality of horizontal shelf members secured to the exterior of the vertical wall portion of the vessel with a shelf member arranged adjacent each slot so that the lower edge of the slot and the upper surface of the shelf member adjacent the slot define a single horizontal plane, a metallic liner arranged within said shell with the exterior surface of said liner bearing against the interior surface of the shell, a plurality of projections integral with said liner and extending outwardly from the exterior surface of said liner at right angles therewith and in a horizontal plane, said projections being equal in number to and smaller in cross sectional area than the slots in the shell with at least a portion of each projection extending outwardly through a separate slot and the outer end thereof bent over the shelf member adjacent thereto.

2,420,039
SHAFT SEALING RING
Frank D. Frisby, St. Louis, Mo., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application May 3, 1945, Serial No. 591,670
2 Claims. (Cl. 288—2)

1. A sealing ring comprising an annular resilient component and a steel ring component having two ring elements in spaced relation and connected by a transverse element, said ring elements being disposed on opposite sides of the resilient component and the transverse element passing through a recess in the resilient component.

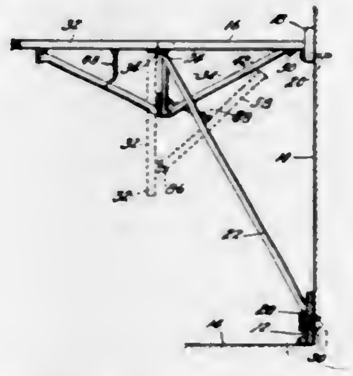


2,420,040
SHAFT OIL SEAL
Frank D. Frisby and Melvin W. Marien, St. Louis, Mo., assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application July 13, 1945, Serial No. 604,917
4 Claims. (Cl. 286—5)



1. A shaft oil sealing device comprising a cage and a ring assembly mounted on said shaft and rotatable within said cage, said ring assembly comprising a resilient component embracing the shaft and rigid components on each side of the resilient component having sliding contact with the cage, and registering oil passageways in all three of said components.

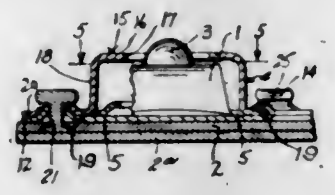
2,420,041
WALL TABLE
Robert P. Jensen, Kansas City, Kans.
Application September 25, 1944, Serial No. 555,711
6 Claims. (Cl. 311—18)



1. A wall table comprising a table top rigidly secured to a wall structure, a leaf hinged to the outer edge of said table top, a depending bracket carried by said table top and having a recess formed in its lower portion, and a V-shaped brace member hinged to the outer edge portion of said leaf and adapted to be moved transversely to the outer edge of said table top to engage said bracket recess to secure said leaf in planar relation to said table top.

2,420,042
SHIFTABLE ROTARY OPERATIVE FASTENER ATTACHING UNIT

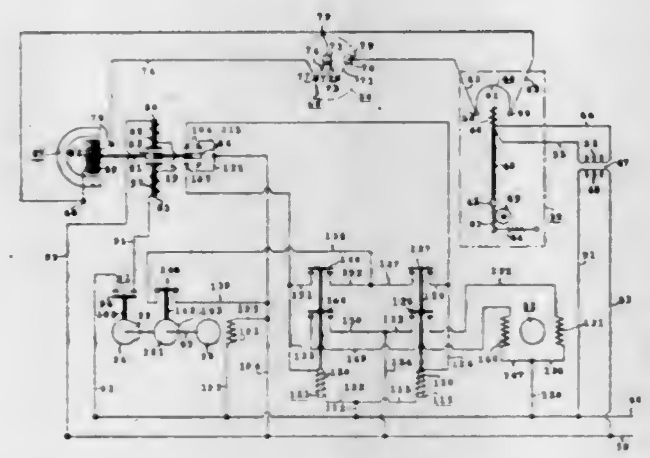
Frank E. Johnson, Malden, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 12, 1944, Serial No. 558,419
6 Claims. (Cl. 24—221)



3. An attaching unit for securing a fastener part to a support, said unit including a plate member adapted to support said fastener part and having a central aperture, and a housing part for receiving a fastener part, said plate member being formed with apertures for the reception of attaching members for attaching said unit to a support.

2,420,043
CONTROL APPARATUS

Robert H. Johnson, Weston, W. Va.
Application February 4, 1942, Serial No. 429,483
13 Claims. (Cl. 236—9)

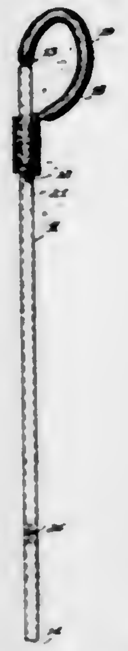


12. A control system including in combination, a device to be controlled; generating means operable for establishing a first electric potential and operable for establishing a second electric potential having its polarity opposite that of the first mentioned potential, said generating means including two elements subjected to controlling medium, the potential established being dependent upon the difference of intensity of said medium on said elements; means responsive to the potential established for controlling the operation of said device; and means responsive to the operation of the controlled device for increasing and decreasing the intensity of the medium at one of said elements.

2,420,044
GUN SWAB OR CLEANER

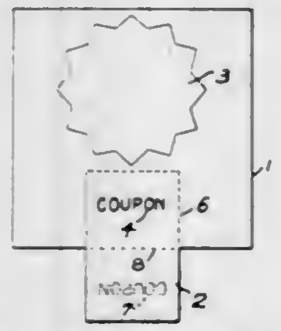
John A. Jowett, Scottsville, N. Y.
Application April 28, 1944, Serial No. 533,211
3 Claims. (Cl. 15—104.165)

1. A gun swab comprising a tubular rod having an open end and an opening between its ends, a strip of non-abrasive cleaning material having wire intertwined therewith, said strip having one of its ends inserted in said opening extended into said rod and enclosed by the walls thereof, its intermediate portions wound helically on said rod and its other end inserted in the open end of said rod and enclosed by the walls thereof.



2,420,045
LABEL OR THE LIKE WITH CAPTIVE COUPON

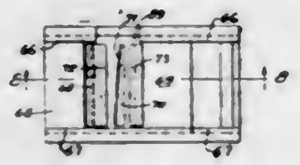
Richard S. Krug, Cincinnati, Ohio, assignor to Carthage Mills, Inc., Cincinnati, Ohio, a corporation of Ohio
Application January 29, 1944, Serial No. 520,372
3 Claims. (Cl. 40—2)



1. In a structure of the class described, a body of flexible sheet material bearing indicia, said body having an integral tab also bearing indicia on the same side extending from one of its edges and foldable along a line forming a continuation of said edge to a position lying against the rear of said body, so that, the entire rear face of the structure being treated with adhesive, the tab can be folded against the body as recited, and caused to adhere thereto to provide a double thickness portion, and the body can then be adhesively secured to a support, with the double thickness portion free of adhesion thereto.

2,420,046
CAMERA FILM CUTOFF AND STORAGE DEVICE

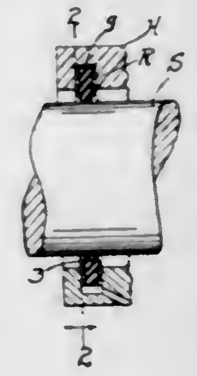
Carl Loeb, Chicago, Ill.
Application February 12, 1944, Serial No. 522,033
4 Claims. (Cl. 95—31)



1. In a record-making device, a camera, means for passing film through said camera so as to permit exposure of the film to light passed through the camera, said camera having a slot through which the exposed film may pass therefrom, a slide receiving structure secured to said camera, a slide received within said structure and having an opening therein which in one position of said slide is aligned with said slot, one side of said opening being provided with a knife member which is adapted to sever film extending through the opening as the slide is moved within the structure, and a film-receiving box detachably mounted on said slide having an opening aligned with the opening in said slide, the opening in said box being closed to light by said structure when the box is moved with said slide to a position wherein the slide opening is not aligned with said slot.

2,420,047
COMPOSITE SEALING RING

Melvin W. Marien, St. Louis, Mo., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application May 3, 1945, Serial No. 591,672
1 Claim. (Cl. 286—7)

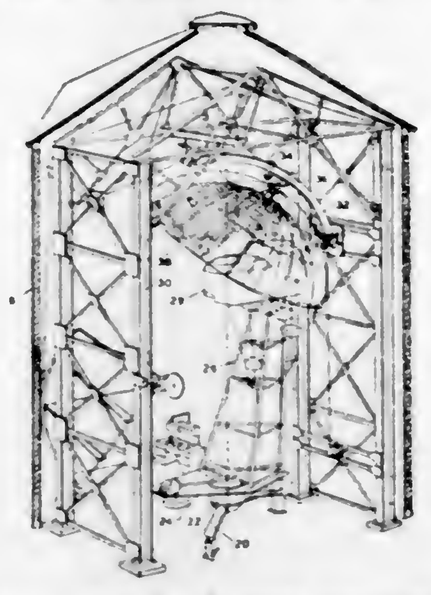


In combination with a housing and a shaft passing therethrough, a sealing ring between the shaft and the housing, said housing having a ring groove to receive the sealing ring, said sealing ring comprising an integral resilient ring component of rubber or equivalent material and a thin metallic ring component arranged flatwise with respect to and on each side of the rubber component, said metallic ring components being bonded to the rubber component and being radially resilient so as to exert inward radial force on said rubber component when the sealing ring is on a shaft whereby the sealing ring rotates with the shaft and the metallic ring components are in sliding contact with the sides of the ring groove.

2,420,048
TRAINING DEVICE

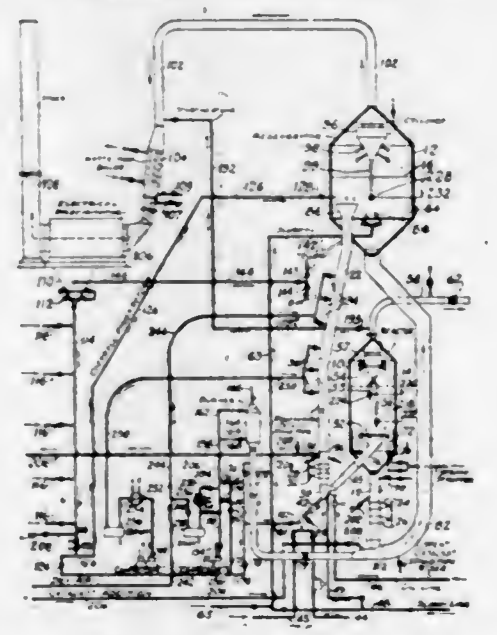
Harold A. Marsh, Boston, Mass., assignor to Link Aviation, Inc., Binghamton, N. Y., a corporation of New York
Application March 24, 1943, Serial No. 480,330
7 Claims. (Cl. 35—10)

4. In a device for teaching celestial navigation the combination of means simulating a portion of the celestial sphere; a first driving means comprising a motor for rotating said sphere simulating means about an axis; a second driving means comprising a motor for rotating said sphere simulating means about the same axis at a rate substantially faster than said first driving means; a third means comprising a motor for operatively connecting either of said driving means to rotate said sphere simulating means; and electrical switching means under the control of an operator for selectively energizing any of said motors.



2,420,049
CATALYTIC HYDROCARBON CONVERSION STARTING UP PROCEDURE

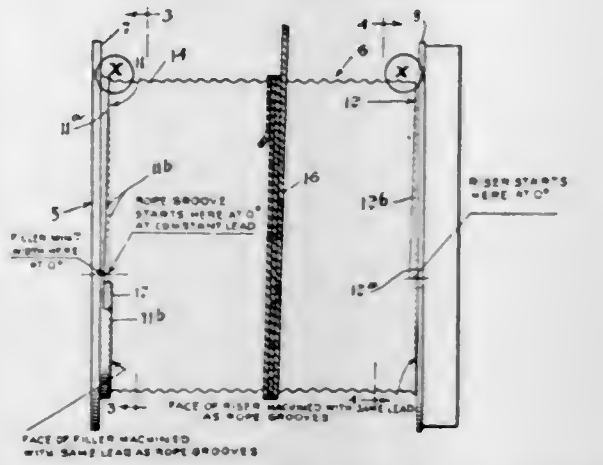
Homer Z. Martin, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 31, 1943, Serial No. 516,338
7 Claims. (Cl. 196—52)



7. A starting-up procedure for an oil conversion process which is executed at elevated temperatures and wherein a reaction is carried out in the presence of a powdered catalyst in a reactor and fouled catalyst is revivified in a regenerator, comprising the steps of first preheating the reactor and regenerator while they are empty to a temperature of about 300° F. by introducing therein hot gases from a burner external to said reactor and regenerator, then adding an amount of powdered catalyst to the regenerator substantially less than the amount normally used in the execution of said process, then further heating the regenerator and the catalyst therein to a temperature of at least 600° F. by continuing the introduction of said hot gases, thereafter passing the heated catalyst to the reactor, again adding catalyst to the regenerator and continuing the heating by the combustion of fuel in the regenerator until the catalyst in the regenerator is at a temperature of about 950–1000° F., and then introducing feed oil into the reactor.

2,420,050
HOIST DRUM

John H. Maude, Montreal, Quebec, Canada, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada
Application March 21, 1945, Serial No. 583,913
3 Claims. (Cl. 242—117)

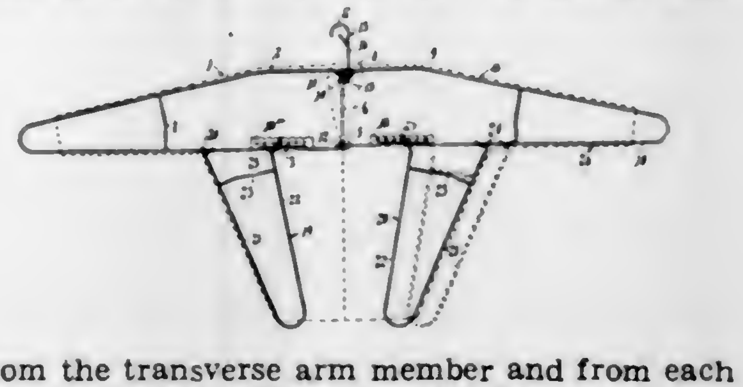

ROPE GROOVE STARTS HERE AT 0° AT CONSTANT LEAD
RISER STARTS HERE AT 0°
FACE OF RISER MACHINED WITH SAME LEAD AS ROPE GROOVES
FACE OF FILLER MACHINED WITH SAME LEAD AS ROPE GROOVES

1. A hoist drum comprising a tubular body portion, a radially projecting flange at one end of the body portion provided with an integral projection extending entirely around the inner side thereof and forming a filler element adapted to fill the space between the flange and the first turn of the first layer of rope helically wound around the body portion from a starting point adjacent said flange, said filler presenting an annular circumferential face concentric with but projecting a predetermined distance beyond the circumferential surface of the body portion and a helical inner side face which projects radially from the circumferential surface of the body portion and varies from zero to one pitch in 360°, a second flange located at the opposite end of the body portion and provided with an integral projection extending around the inner side thereof and forming a riser element adapted to gradually lift the last turn of the first layer of rope as it is wound helically around the drum to form the first turn of the second layer which is helically wound around the drum in the reverse direction on top of the turns of the first layer, said riser element presenting an eccentric outer circumferential rope-lifting face which gradually increases from zero elevation to a predetermined maximum elevation above the circumferential surface of the tubular portion of the drum at 180° and then gradually decreases to zero elevation at approximately 360° and a helical inner side face which varies from one pitch to zero in 360° and has the same lead as the helical inner side face of the filler element.

2,420,051
GARMENT STRETCHER

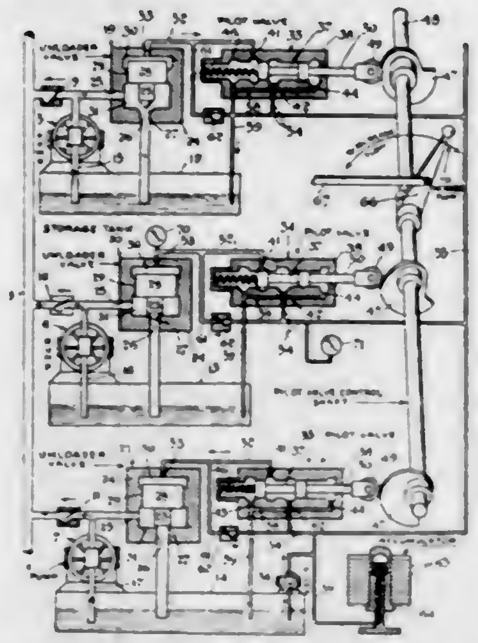
Alexander C. McKenzie, Beaverton, Ontario, and Raymond H. Jones and Reginald J. Jones, Toronto, Ontario, Canada
Application February 26, 1946, Serial No. 650,246
7 Claims. (Cl. 223—69)

1. A garment stretcher comprising a pair of oppositely extending arms, one of said arms consisting of a transverse arm member and upper and lower arm members, the transverse arm member connecting the upper and lower arm members near their inner ends, and the other of said arms consisting of upper and lower arm members having loops at their inner ends hingedly mounting them on the transverse arm member, stops mounted at the inner end of the first arm adjacent the arm members of the other arm so as to limit the movement of the other arm, and a suspending-hook adapted to support and lock the arms in expanded position comprising a loop slidable along the transverse arm member, and extensions attached to the loop spaced apart from the transverse arm member and from each other and extending towards the upper arm members, said extensions being adapted to secure the upper stop and arm loop together when the suspending-hook is slid up the transverse arm member.



2,420,052
CONTROL APPARATUS FOR HYDRAULIC MACHINES

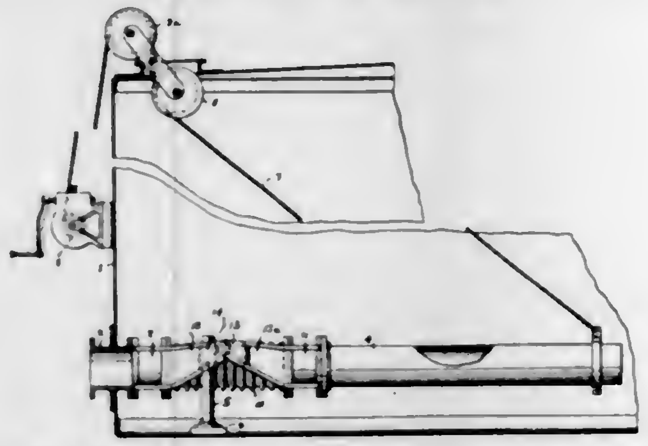
William P. Muir, Hampsted, Quebec, Canada, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada
Application March 3, 1945, Serial No. 580,751
4 Claims. (Cl. 103—41)



1. Apparatus for controlling the operating speed of a hydraulic machine comprising a series of pumps, means for conducting pressure fluid from the pressure sides of all of said pumps to a working cylinder of the machine, a separate by-pass for each pump through which the pump discharge is diverted to decrease the flow of pressure fluid to said cylinder, a separate unloader valve controlling the by-pass of each pump and adapted to close against the pump pressure, a separate pilot valve for controlling the operation of each unloader valve, each pilot valve including a casing provided with a series of ports including a pressure fluid intake port connected to a pressure line in which a predetermined pressure is maintained independently of said pumps, a delivery port connected to the valve casing of the associated unloader valve by a pressure fluid transfer line and an exhaust port, a valve movable in the pilot valve casing to a pump loading position in which said valve establishes communication between said intake and delivery ports and blocks communication between said ports and the exhaust port or to a valve unloading position in which said valve establishes communication between the delivery port and the exhaust port and blocks communication between said ports and the intake port, each movable pilot valve element serving, in its pump loading position, to permit flow of pressure fluid to the valve casing of the associated unloader valve to thereby close said unloader valve against the pump pressure, said movable valve element of each pilot valve also serving, in its pump unloading position, to permit the valve closing fluid pressure previously supplied to the casing of the associated unloader valve to be exhausted from said casing to thereby permit opening of the unloader valve by the pump pressure acting thereagainst, a hydraulic pressure accumulator connected to the fluid pressure line serving the intake ports of said pilot valves and means for successively operating said pilot valves in predetermined sequence.

2,420,053
SWING JOINT

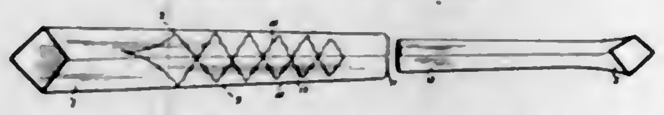
Frans G. D. Muller, La Porte, Tex.
Application September 21, 1944, Serial No. 555,164
6 Claims. (Cl. 285—90)



1. A joint for connecting two tubular sections comprising, a flexible tube connecting said sections, spaced arms rigidly connected to each of said sections and whose free ends are pivoted together to swing about an axis transverse with respect to the axis of the flexible tube and midway between the ends of said tube supporting means on a fixed base and attached to and supporting the arms of one section.

2,420,054
NECKTIE

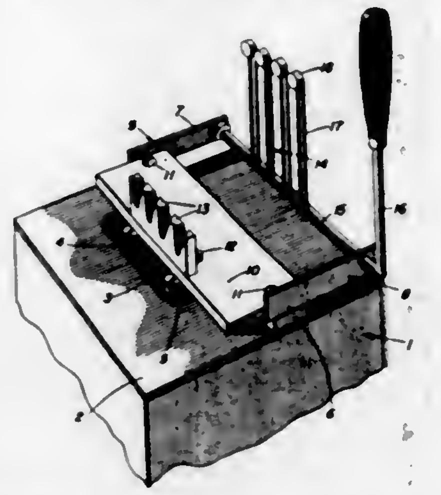
Max M. Newman and Victor M. Newman, New York, N. Y.
Application January 19, 1944, Serial No. 518,809
3 Claims. (Cl. 2—146)



1. A four-in-hand necktie which has transversely-disposed bendable and non-resilient wire members connected thereto and located adjacent the knot-forming portion of said necktie, said wire members being transversely bendable and retaining their transversely bent shape to produce at least one transverse dimple adjacent the knot of said necktie when said necktie is knotted, said wire members extending transversely oppositely from the longitudinal axis of said necktie, said wire members being located in the outer member of the necktie and forming a longitudinal series of successive parallelograms.

2,420,055
TESTING DEVICE

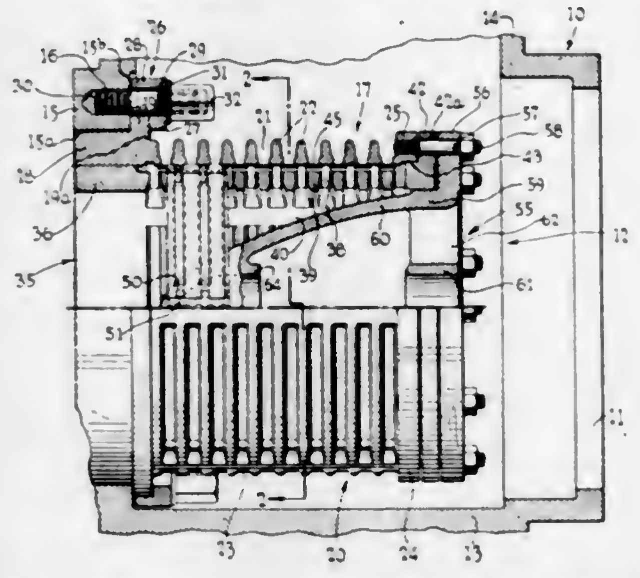
Edwin R. Sanders, Silver Spring, Md., assignor to the United States of America, as represented by the Secretary of the Navy
Application December 31, 1943, Serial No. 516,483
5 Claims. (Cl. 173—324)



1. Apparatus for testing devices having flexible conductors as terminals, comprising a plurality of relatively fixed contacts electrically insulated from one another, a plurality of relatively fixed guides each adjacent a corresponding contact for guiding a corresponding flexible conductor to the said contact, a plurality of engaging means pivotally mounted to move together about a common axis, a device for turning all the said means about the said common axis to cause them to engage the said conductors and move them along the respective guides and into electrical connection with the cooperating fixed contacts, and means for clamping the conductors at will in such connected condition and maintaining the contacts electrically insulated from one another while in the said connected condition, except for such connections as are provided by the said conductors.

2,420,056
VALVE

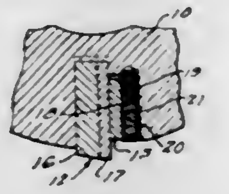
Arthur Seligmann, Newark, N. J., and Karl W. Schartel, New York, N. Y., assignors to J. H. H. Voss, Co., Bronx, N. Y., a partnership
Application August 11, 1944, Serial No. 549,020
1 Claim. (Cl. 277—60)



A valve comprising telescoping cylindrical valve seat and valve guard members, said valve guard and valve seat members having cylindrical contacting surfaces at the ends thereof and concentric spaced intermediate portions, said valve seat member being formed with peripherally arranged arcual openings, said valve guard being formed with ribs aligned with said arcual valve openings, arcual valve plates to close said openings, a separate spring for each valve plate, said springs being interposed between the valve plates and the ribs, a filler member within the inner of said members, having a nose portion projecting into said inner of said members, said valve seat member, valve guard member, and filler having flanges formed with registering openings, and fastening means extending through said openings for attaching the filler, valve guard member, and valve seat member together.

2,420,057
INSERTED BLADE CUTTER AND CLAMPING MEANS

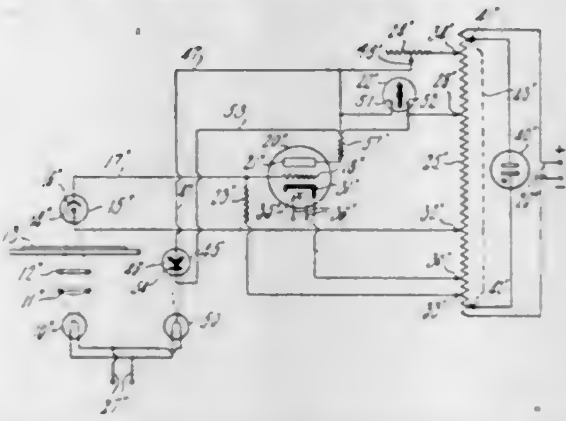
Milton J. Steffes, Dearborn, Mich., assignor to Super Tool Company, Macomb County, Mich., a partnership
Application May 13, 1943, Serial No. 486,833
6 Claims. (Cl. 29—105)



1. In a renewable blade type of tool, a body having a plurality of recesses one wall of which is sloping, blades disposed in said recesses, wedges disposed in said recesses having a sloping face in engagement with the sloping walls thereof, segmental cylindrical apertures disposed through said sloping walls of the body and wedges forming a cylindrical aperture when the wedges are assembled in the body, segments of a thread in the aperture portion of said wedges, and screws disposed in said apertures having a thread engaging the thread segments of the wedges for moving the wedges to clamp the blades within the recesses.

2,420,058
COMPENSATED PHOTOELECTRIC PHOTOMETER CIRCUITS

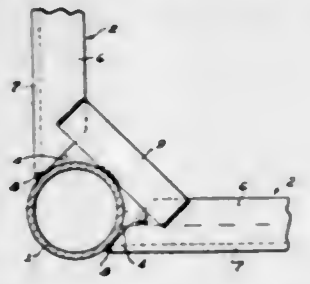
Monroe Hamilton Sweet, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application January 18, 1945, Serial No. 573,405
19 Claims. (Cl. 250—41.5)



19. An electronic light transmission measuring system comprising, in combination, a non-regulated source of electrical potential; lamp means connected to said source; a photoemissive vacuum phototobe arranged to receive light from said lamp means, said vacuum phototube having an electrical conductivity depending upon the amount of light reaching said vacuum phototube from said lamp means; an electronic amplifier tube having parameters such that the grid potential thereof is a logarithmic function of its grid current; a conductor connecting the anode of said phototube to the grid of said amplifier tube, such that the grid current of said amplifier tube varies directly as the amount of light reaching said phototube; a voltage divider connected across said potential source; a variable resistance connected between the output of said amplifier tube and said voltage divider for introducing a bucking current into the output of said amplifier tube in opposition to the output current of said amplifier tube; a fixed resistor connected between said divider and the grid circuit of said amplifier tube for introducing a current into said grid circuit in opposition to the output current of said amplifier tube; a fixed resistor connected between said divider and the grid circuit of said amplifier tube for introducing a current into said grid circuit in opposition to the anode current of said phototube; a barrier layer photocell arranged to receive light from said lamp means and having a current output depending upon the light incident upon said photocell from said lamp means; said photocell being connected in parallel circuit relation with the output of said amplifier tube, whereby said photocell will vary the effective value of the bucking current to compensate for changes in the intensity of said lamp means due to fluctuations in the potential of said source; and an electronic voltage regulating tube connected across said voltage divider to maintain constant the potential thereof irrespective of fluctuations in the potential of said source.

2,420,059
SKELETON MAST HAVING LEGS CIRCULAR IN CROSS SECTION

Homer J. Woolslayer, Erwin A. Campbell, and Cecil Jenkins, Tulsa, Okla., assignors to Lee C. Moore & Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1945, Serial No. 625,572
7 Claims. (Cl. 189—13)

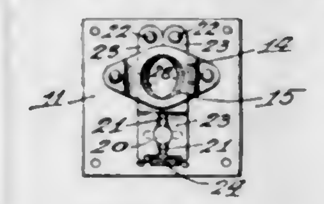


1. A skeleton mast comprising a plurality of legs circular in cross section, and a plurality of cross braces at the sides of the mast welded to said legs, each of said braces extending crosswise between the adjoining legs with the ends of its crosswise-extending portion engaging said legs, and said ends converging toward the center of the mast, whereby braces of slightly different lengths can be welded to the legs by varying the spacing between the braces and the center of the mast without changing the spacing between the legs.

2,420,060
FASTENER

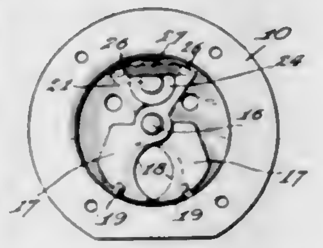
Arthur R. Adams, Glendale, Calif.
Application May 28, 1945, Serial No. 596,229
9 Claims. (Cl. 85—5)

1. In a fastener, a cover plate having a pair of openings, a pair of spring held jaws pivoted on the under side of said cover plate and extending across corresponding sides of said openings, a locking member adapted to enter one of said openings and to be engaged by said jaws, rotary means mounted for operation below the other one of said openings for spreading said jaws apart to release said locking member and means underlying the opening adapted to receive the locking member for expelling the locking member from said cover plate when released from said jaws.



2,420,061
FASTENER

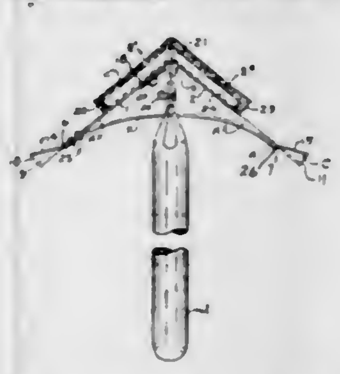
Arthur R. Adams, Glendale, Calif.
Application May 28, 1945, Serial No. 596,290
4 Claims. (Cl. 85—5)



1. A fastener device comprising a plate provided with a stud-receiving aperture, a pair of crossed arms pivotally connected intermediate their ends and mounted on the under side of the plate with portions of the free ends of said arms underlying the plate aperture, and means rotatably mounted in the plate spaced substantially from the stud-receiving aperture to engage the end portions of said arms on the side of the fulcrum pivot opposite the ends underlying the plate aperture for simultaneously spreading opposite ends of said arms to release a stud engaged in said plate aperture.

2,420,062
CORNER FINISHING TOOL

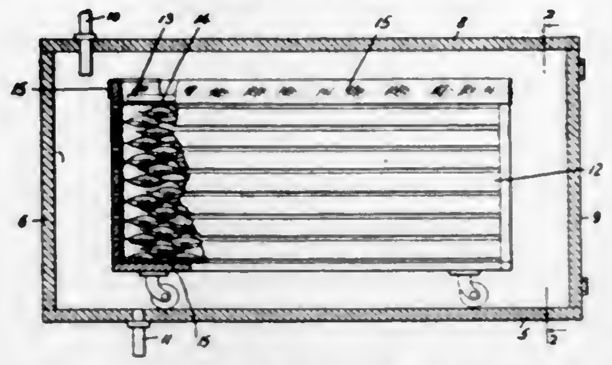
Robert G. Ames, Burlingame, Calif., assignor of one-half to George Williams and one-fourth to Stanley Ames, both of Burlingame, Calif.
Application April 18, 1945, Serial No. 589,033
10 Claims. (Cl. 72—128)



3. A corner finishing tool for smoothing and embedding a tape in a mastic layer, comprising an angle-shaped member having a V-shaped trailing edge, and a resilient wiping member placed in advance of the V-shaped trailing edge for smoothing a corner tape when moved thereover and for embedding the tape in the mastic layer underlying the tape.

2,420,063
PROCESS OF COOKING AND SEASONING HARD CRABS

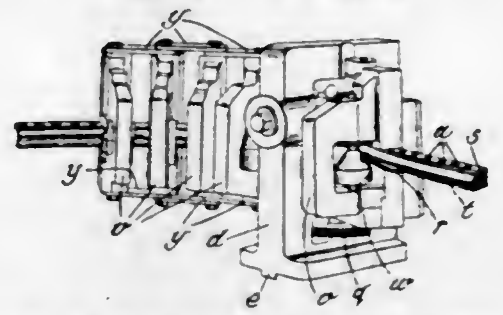
Daniel Barrett, Appeal, Md.
Application November 30, 1945, Serial No. 631,936
4 Claims. (Cl. 99—158)



1. The process of steaming hard crabs, which consists in moistening the crabs and arranging them in superimposed layers within a container, applying a dry seasoning mixture to each layer of crabs, partially covering the entire mass of crabs, and subjecting the container and its contents to steam pressure to produce a temperature of approximately 195° F. and maintaining such pressure and temperature a predetermined period.

2,420,064
APPARATUS FOR FLANGING AND CURVING METAL STRIPS

Edward John Boddy, London, England, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England
Application February 28, 1944, Serial No. 524,280
In Great Britain February 17, 1943
7 Claims. (Cl. 153—3)



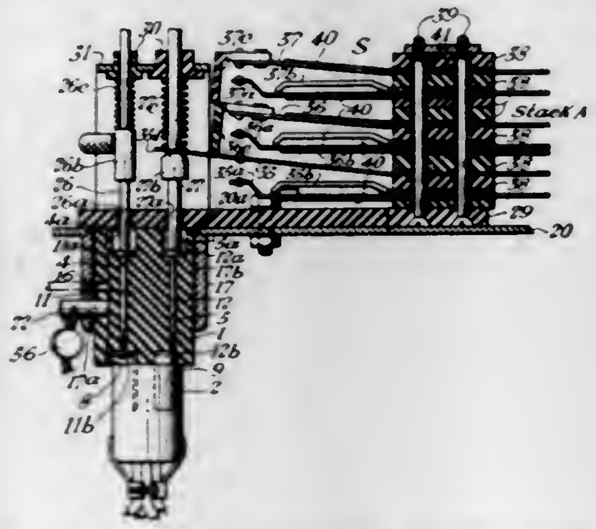
1. Means for flanging work consisting of sheet metal plates, strips or the like, comprising a clamping member the shape of which corresponds with that of the article to be produced, means for clamping the work to said clamping member, a plurality of frames pivotally connected together and adapted to take up positions corresponding with the shape of said clamping member, forming means carried by said frames, an abutment for said interconnected frames, said abutment being gapped and adapted to give passage to the clamping member and the work, a spindle and bearings therefor, means for rotating said spindle, a gear wheel on said spindle having teeth adapted to mesh with a series of holes in said clamping member, whereby the clamping member and the work clamped thereto may be moved through the frames and the forming means may be caused to act progressively on the work.

2,420,065
CIRCUIT CONTROLLING MEANS

Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 28, 1944, Serial No. 565,547
5 Claims. (Cl. 200—51)

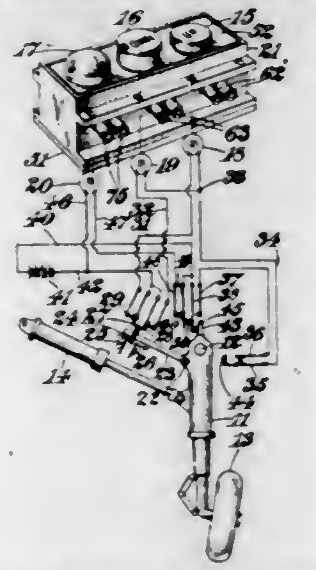
1. Circuit controlling means for at times con-

necting external circuits to the internal circuits of a device and for modifying the internal circuits upon disengagement of the external circuits from the internal circuits, said means comprising a plug having contact members adapted to be connected with the external circuits, a supporting member secured to said device for loosely receiving said plug, removable means for securing said plug in a fixed position in said supporting member, movable terminal posts mounted on said device and biased to positions in which they will



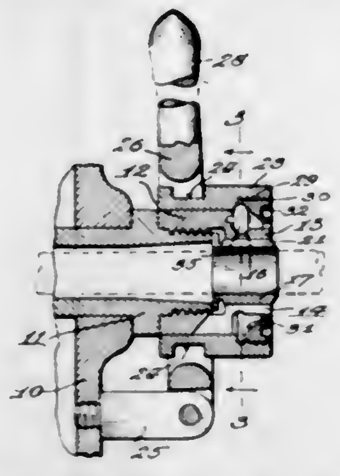
engage the contact members of said plug part when said plug part is secured in place in said supporting member with sufficient force to forcibly eject said plug part from said supporting member upon removal of the securing means, and contacts on said device connected with the internal circuits of the device and operated to one position or another by the movement of one of said terminal posts according as said plug is in place within or is ejected from said supporting member.

2,420,066
LANDING GEAR CONTROL AND INDICATING ARRANGEMENT
Hugh Graham Conway, Warrington, England, assignor to Aeronautical & Mechanical Investments Limited, a British company
Application October 9, 1942, Serial No. 461,489
In Great Britain August 22, 1941
2 Claims. (Cl. 177—311)



2. In control devices for occasionally movable parts of aircraft or the like, in combination, a control element for causing movement of an aircraft part in one direction, a second control element for causing movement of said part in the opposite direction, power-operated means under the control of said elements for effecting the movements in both said directions, a first electric indicator disposed in proximity to the first named control element, a second electric indicator disposed in proximity to said second control element, indicator-actuating switch-means electrically connected with the indicators, and mechanical connections between the aircraft part itself and said switch-means, said switch-means and mechanical connections including a switch for energizing said first named indicator upon the initiation of movement of said part in the first named direction, a switch for energizing said second indicator upon initiation of movement of said part in said opposite direction, limit switches engageable by said part at the ends of the movement thereof in both directions, and means connecting said limit switches in series and in circuit with both said indicators, so as to cut out the energized indicator when said movement is completed.

2,420,067
COLLET ATTACHMENT FOR LATHES OR OTHER METALWORKING MACHINES
Harold E. Crozier, Hawthorne, Calif.
Application November 1, 1943, Serial No. 508,487
4 Claims. (Cl. 279—50)



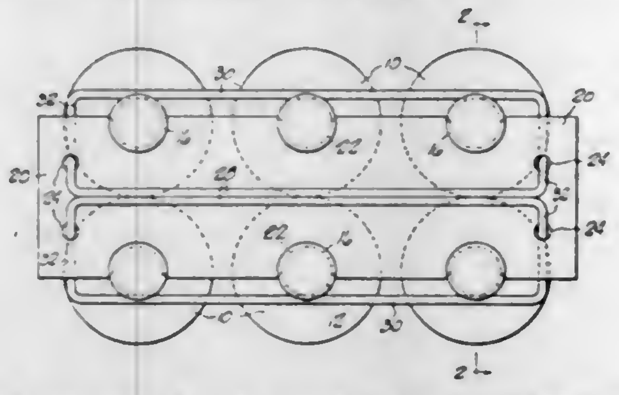
1. In a collet attachment for lathes and like metal working machines, a fixed tubular member having an expansible portion, an expansible collet positioned within the expansible portion of said tubular member which collet is split lengthwise and provided with a plurality of externally arranged longitudinally disposed grooves, spaced apart from each other and from said split, a member arranged for sliding movement lengthwise on said fixed tubular member and having an internal inclined annular shoulder, a ring screw seated in said sliding member and having an inclined shoulder disposed opposite the inclined shoulder on said sliding member and a plurality of toggle blocks arranged with their inner ends bearing on the expansible portion of said tubular member and their outer ends bearing on the inclined shoulders on said sliding member and ring.

2,420,068
LUBRICANT
Gordon W. Duncan, Westfield, and John C. Zimmer, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 1, 1944, Serial No. 516,704
14 Claims. (Cl. 252—47.5)

1. An improved lubricating oil composition consisting of a mineral lubricating oil containing from 0.5 to 5% of an oil-soluble hydrophilic polyvalent metal-containing derivative of an organic

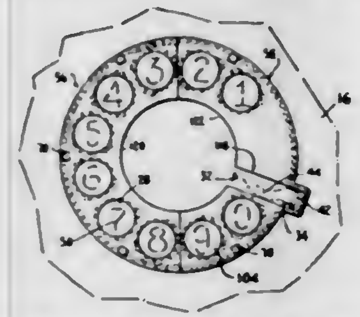
compound, said metal compound possessing engine detergent properties, and from 0.01 to 0.3% of an aliphatic primary amine containing from 8 to 22 carbon atoms per molecule.

2,420,069
BOTTLE CARRIER
William D. Egly, South Bend, Ind.
Application September 14, 1945, Serial No. 616,247
3 Claims. (Cl. 294—87)



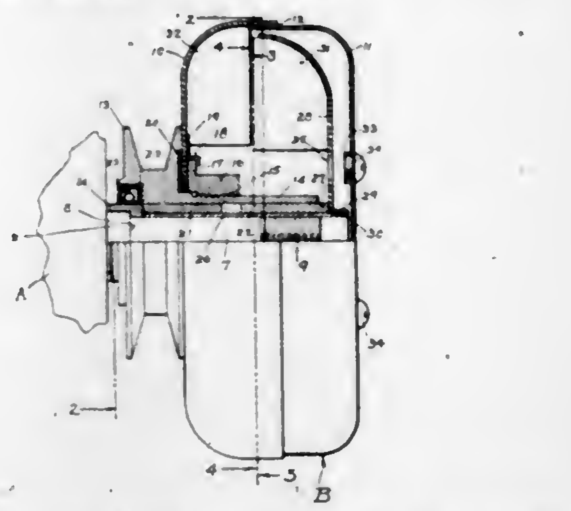
1. A carrier for a plurality of bottles having reduced neck portions provided with beaded mouth portions, comprising a rigid plate having parallel longitudinal edges each interrupted by a plurality of recesses adapted to fit around said bottle necks and to bear against said beads, and a pair of retainers slidably carried by said plate, each carrier comprising a rigid endless rectangular bail having an upper grip portion and a lower portion pressing said bottles into said recesses when the device is suspended from said grip portion.

2,420,070
TELEPHONE DIAL ATTACHMENT
Evelyn Clifford Farnham, San Bernardino, Calif., assignor to Stewart W. Chaffee, New York, N. Y.
Application April 26, 1943, Serial No. 484,526
5 Claims. (Cl. 179—90)



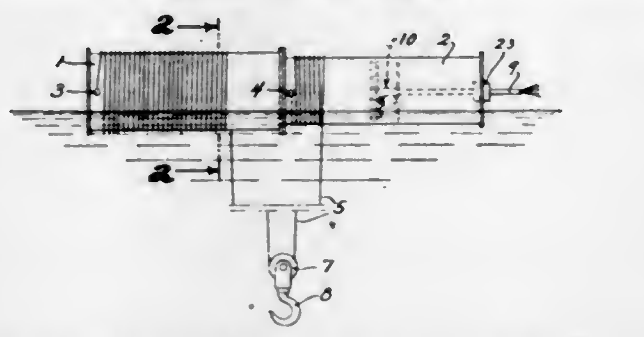
1. In combination with a dial mounting and a dial for a telephone, the dial mounting providing a base, the base having a plurality of indicia thereon, an upright extending from the base and providing a support for the dial, a collar carried by the base around the upright, the dial and the upright being associated so that the dial is rotatably mounted in spaced relation to the base, the dial having a plurality of openings therethrough; each of the openings being positioned, when the dial and the base normally are not rotating relatively to each other, to cooperate with one of the indicia; a finger stop carried by the base and extending relatively to the dial; a retainer between the dial and the base and encircling the collar; a plurality of recesses in the retainer, and a lens in each recess; the recesses in the retainer, the dial and the base being related to dispose each lens to cooperate with one of the indicia and a related opening; the retainer engaging the finger stop to lock the retainer in position in relation to the indicia.

2,420,071
TURBINE TYPE HYDRAULIC COUPLING
George C. Fields, Wilmette, Ill., assignor to Solar corporation, Milwaukee, Wis., a corporation of Delaware
Application January 11, 1945, Serial No. 572,338
5 Claims. (Cl. 60—54)



2. A fluid drive device comprising a circular fluid retaining casing having internal fluid actuable blades, a power transmitting member at one side of the casing and having a tubular hub extending into the casing, threaded means on the hub for rigidly securing the casing with respect to the power transmitting member, a bushing secured in the hub, a sleeve slidable and rotatable in the bushing, and an impeller mounted on the sleeve.

2,420,072
DIFFERENTIAL HOIST
Leonard Foote, Palo Alto, Calif.
Application September 2, 1944, Serial No. 552,482
4 Claims. (Cl. 114—51)

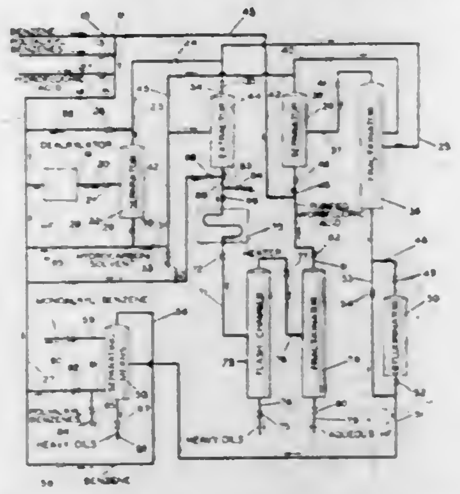


1. In a differential hoist, the combination comprising a rotatably mounted differential pulley drum, including sections of larger and smaller diameters, cable means leading from said differential pulley drum to and supporting load carrying means to form a differential hoist, driving means arranged and adapted to rotate said differential pulley drum internally mounted within said differential pulley drum and braking means for said differential hoist comprising a protuberance on said smaller diameter section of said pulley drum extending to the diameter of said larger diameter section of said pulley drum.

2,420,073
PROCESS OF PARTIAL DEALKYLATION
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 5, 1942, Serial No. 441,875
6 Claims. (Cl. 260—671)

1. A process for converting a polyalkylbenzene to an alkyl derivative of benzene having fewer alkyl groups per molecule, which comprises treat-

ing a polyalkylbenzene in admixture with a substantial molecular excess of an aromatic hydrocarbon of the class consisting of benzene and alkylbenzenes having at least two alkyl groups fewer than said polyalkylbenzene and in the presence of hydrofluoric acid which has been previously utilized as a catalyst in the alkylation of benzene with olefins and which contains alkyl fluorides, as the effective catalyst to produce an alkyl derivative of benzene having fewer alkyl groups than said polyalkylbenzene while at the same time converting said alkyl fluorides to alkyl benzenes, and recovering from effluents of said treatment said alkyl derivative so produced.



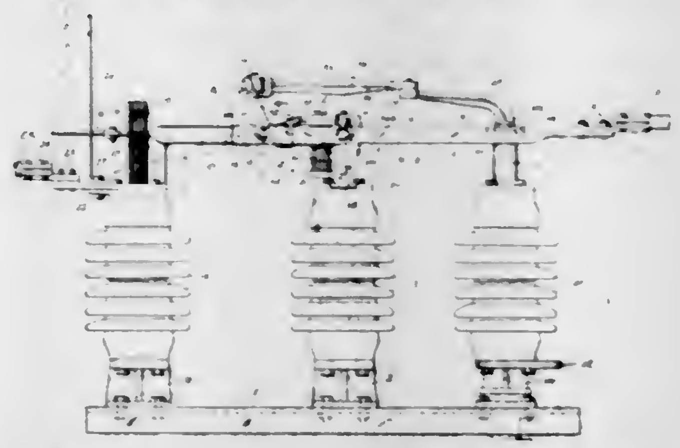
2,420,074

ELECTRICAL SWITCH

Olav Froland, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri

Application November 18, 1943, Serial No. 510,715

4 Claims. (Cl. 200—48)



1. An electrical switch comprising contact means, a switch blade including a part supported for rotary movement about its axis so as to move a portion of said switch blade part into and out of contact engagement with respect to said contact means and a switch blade part for supporting said axially rotatable switch blade part for axial rotation with respect thereto, a stationary member, pivot means for pivotally attaching said supporting switch blade part to said stationary member whereby the entire switch blade may be moved pivotally to and from the circuit closing position with relation to said contact means, and means operable during a single continuous operation thereof to first subject said axially rotatable part of said switch blade to axial rotation and thereafter subject said switch blade to pivotal movement, the last-mentioned means including a pivotally supported lever structure mounted on said supporting part of said switch blade, a member fixed to said axially rotatable part of said switch blade and engaged by a portion of said lever structure so as to rotate said member and said axially rotatable switch blade part during pivotal movement of said lever structure, abutment means forming part of said lever structure for engaging a part of said switch blade so as to cause said switch blade to be moved pivotally, and means for subjecting said lever structure to pivotal movement and for subjecting said switch blade to pivotal movement.

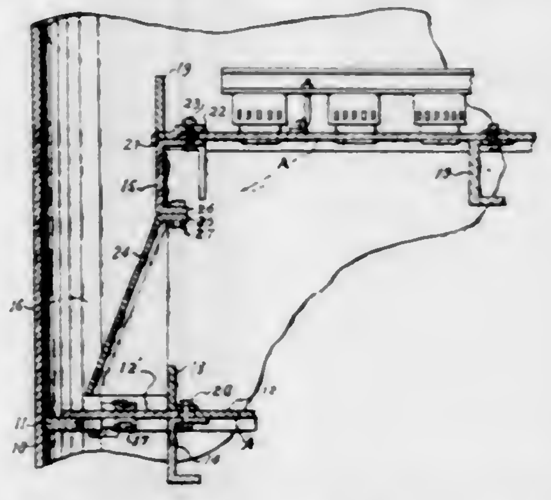
2,420,075

BUBBLE TRAY DOWNCOMER

Hans C. Glitsch, Dallas, Tex., assignor, by mesne assignments, to Glitsch Engineering Company, Dallas, Tex., a partnership consisting of Fritz W. Glitsch, Jr., and Hans C. Glitsch

Application June 23, 1945, Serial No. 601,149

8 Claims. (Cl. 261—114)



1. The combination with a cylindrical tank having a plurality of spaced trays extending transversely across the interior thereof, of a vertical downcomer for each tray including, a plate depending from each tray and having its lower end terminating adjacent the tray therebelow, an angular adapter for securing the vertical ends of the plate to the cylindrical wall of the tank, the adapter comprising an upright plate having one longitudinal edge secured to said cylindrical wall and being bent upon itself to provide a boss overlapping, receiving and supporting said inclined plate, whereby said adapter seals off between the inclined plate and the cylindrical tank wall, and means for clamping the overlapping portions of the plate and boss together, whereby the adapter may be laterally adjusted.

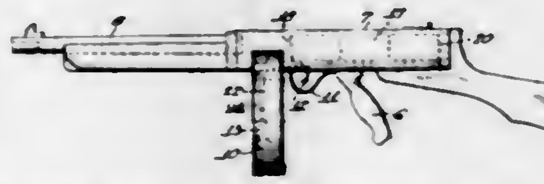
2,420,076

TOY MACHINE GUN

Robert R. Goodwin and George M. Dasher, Augusta, Ga.

Application July 24, 1944, Serial No. 546,254

1 Claim. (Cl. 46—191)



A toy machine gun of the Thompson type, comprising a stock, a breech portion having a chamber therein, and a trigger slot communicating with said chamber, a hand grip beneath said breech portion, and a barrel; a flashlight battery in said chamber, contact discs at opposite ends of said battery, a lug depending from one of said discs adjacent said trigger slot, a segmental trigger pivotally mounted at its mid point in said slot, the inner end thereof being adapted to engage said lug upon movement thereof, a hollow drum magazine mounted on the gun adjacent the trigger, a solenoid in said magazine, a vibratory arm coacting with said solenoid, engagement of said trigger and said lug energizing said solenoid, and a hammer carried by said arm adapted to be oscillated against a wall of said drum magazine to produce a vibratory sound effect.

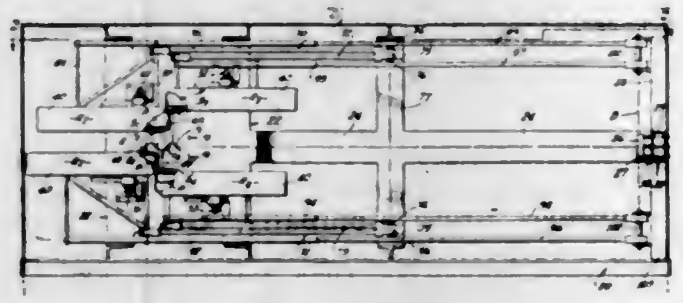
2,420,077

DIRECT READING SPECTROCHEMICAL ANALYSIS APPARATUS

Maurice F. Hasler and Roland W. Lindhurst, Glendale, Calif.

Application January 24, 1944, Serial No. 519,578

13 Claims. (Cl. 250—41.5)



2. In a spectroscopic analysis apparatus having an optical element adapted to produce a spectrum beam coming to a focus in an arcuate focal plane whose center of curvature is substantially half way between said element and said focal plane, a plurality of photoelectric spectrum line receivers adjacent said spectrum beam in the region of said spectrum and arranged to occupy nonoverlapping positions as viewed in planes which are radial with respect to said arcuate focal plane, means supporting and guiding said receivers for lateral adjustment movement along arcuate paths which are parallel to said arcuate focal plane, means constraining said receivers to maintain radial alignments with respect to said optical element throughout such lateral adjustment movement, relatively narrow reflectors, of widths narrower than the lateral widths of the receivers, carried by said receivers in positions of lateral alinement in the path of said spectrum beam and adapted to intercept segments thereof and reflect same to the receivers, said reflectors being located at different distances in front of said arcuate focal plane so as not to interfere with one another during lateral adjustment movement of the receivers, and the distances from the reflectors to their respective receivers being equal to the distances at which said respective reflectors are located in front of the said arcuate focal plane.

2,420,078

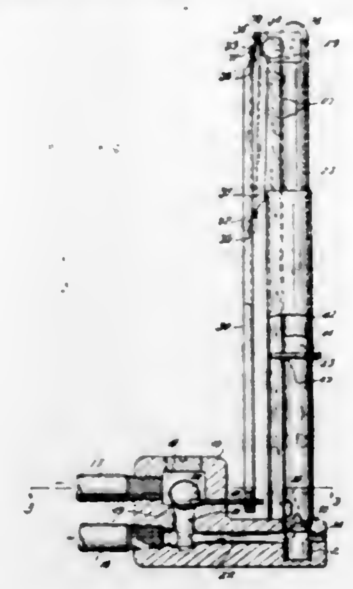
THERMALLY RESPONSIVE DEVICE

Frank R. Higley, Cleveland Heights, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio

Application March 27, 1943, Serial No. 480,829

8 Claims. (Cl. 158—117.1)

1. In a thermally responsive device, two thermally responsive units of the laterally deflecting type arranged alongside each other, one of said units being metallic and tubular and being anchored at one end, the other unit being attached to and supported by the free end of said tubular unit, and means for introducing a combustible mixture into said tubular unit, said tubular unit having side port means adapted to introduce flame into the space between said units.



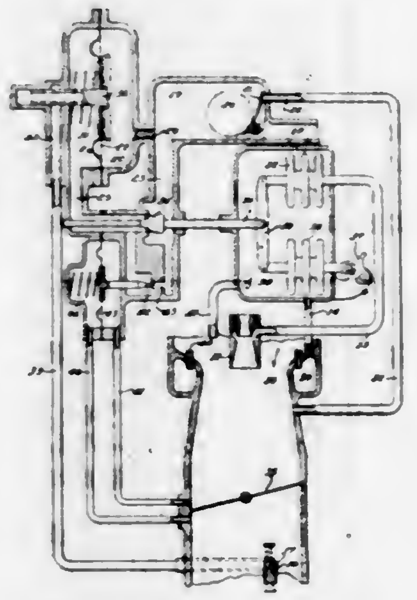
2,420,079

PRESSURE CARBURETOR

George M. Holley, Jr., Detroit, Mich., assignor to George M. Holley and Earl Holley

Application November 10, 1943, Serial No. 509,944

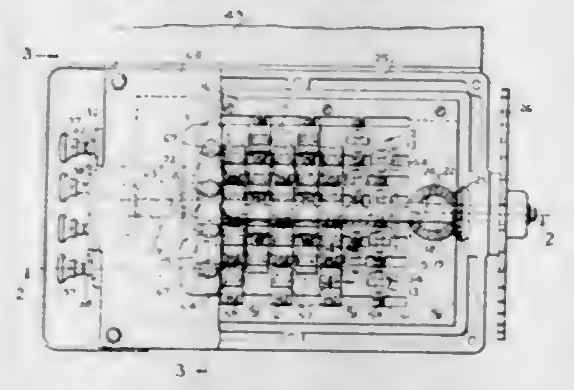
1 Claim. (Cl. 261—41)



In a carburetor of the pressure type, a source of fuel under pressure, a pressure regulating control valve adapted to control the admission of the fuel to the engine, a moving wall controlling said valve, a passage connecting the two sides of said wall, a fuel flow controlling restriction in said passage, a portion of said passage connecting the chamber on one side of the moving wall with the entering fuel under pressure, the other side of the wall being subjected to the pressure on the downstream side of said restriction, a metering valve in said restriction, a venturi in the air entrance to the engine, means responsive to the depression in the throat of said venturi adapted to open said metering valve, a butterfly throttle, a low-speed fuel control device associated therewith comprising a bypass around said fuel metering restriction, a valve adapted to control the flow through said bypass, yielding means adapted to close said valve, an air chamber having a moving wall, a passage connecting said air chamber to the air inlet on the downstream side of and adjacent to the downstream lip of said butterfly throttle, said second moving wall being connected to said bypass valve so that the engine suction is adapted to open the valve of the low speed fuel control device when the throttle is almost closed and when the throttle is opened past the idling position, the valve for the low speed fuel control device is closed.

2,420,080
INKING MECHANISM FOR PRINTING MACHINES

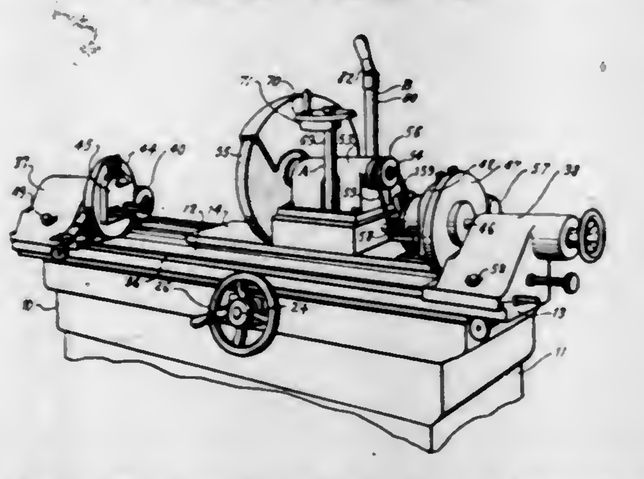
William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application March 24, 1942, Serial No. 435,994
13 Claims. (Cl. 103—38)



1. In an inking mechanism for a printing machine, an ink feeding device including a casing having a plurality of pumps therein, a plate disposed below the pumps to divide the casing into two compartments and having ports leading to the pumps to supply ink thereto, means to carry ink to the compartment below the plate, overflow means to carry surplus ink away from the casing at a level above the plate, a bleeder port through the plate, and means to maintain ink under pressure in the compartment below the plate.

2,420,081
TRAVERSING MECHANISM FOR GRINDING MACHINES

Raymond A. Johnson, Dallas, Tex., assignor, by mesne assignments, to Storm-Vulcan Manufacturing Company, Inc., Minneapolis, Minn., a corporation of Minnesota
Application March 26, 1945, Serial No. 584,789
4 Claims. (Cl. 51—45)



1. A grinding machine including, a base, a pair of tables slidably mounted upon the base and adapted to be slid longitudinally of each other, grinding means mounted on one table and adapted to undergo movement transversely of the other table, and actuating means for sliding the tables longitudinally of each other, the actuating means having a lost-motion connection with one table and a direct connection with the other table whereby the latter table may be slid longitudinally a slight distance in either direction independent of and relative to the former table.

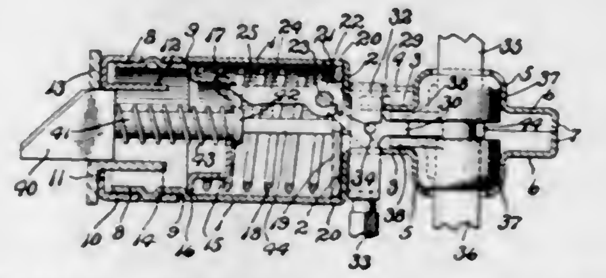
2,420,082
BITUMINOUS COMPOSITION COMPRISING AN ASPHALT AND A POLYMERIZED ESTER OF METHACRYLIC ACID

Earl W. Klinger, Long Island City, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 22, 1943, Serial No. 495,780
3 Claims. (Cl. 260—28)

1. A petroleum bituminous composition comprising an asphalt and an oil-soluble polymerized aliphatic monohydric alcohol ester of methacrylic acid in which the alcohol contains from 8 to 10 carbon atoms, said polymer being present in an amount of from 2 to 5% based on the combined weight of said asphalt and said polymer.

2,420,083
INSIDE LOCKING LATCH CONSTRUCTION

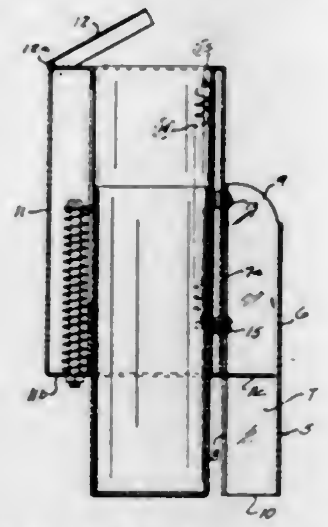
Albert F. Lickteig, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application March 14, 1945. Serial No. 582,606
7 Claims. (Cl. 292—169)



1. A latch comprising, an elongated housing open at one end, a two part operating spindle extending transversely through the inner portion of the housing, said spindle parts having independent rotative connection at their meeting ends within the housing, a latch bolt including a cup shaped member disposed within and across said housing, stop means carried by the housing for holding the cup member against outward movement beyond the stop means, spring means acting on said cup shaped member to normally move it against the stop means, retracting means connected to the cup-shaped member and extending to said two-part operating spindle, combined with independent means carried by each of the parts of said operating spindle for moving said cup shaped member inwardly on rotation of either part of the operating spindle in either direction, a latch bolt head normally projecting through the open end of the housing, a rod secured to its inner end and extending through the bottom of the cup shaped member, a lighter spring means surrounding said rod between the bottom of the cup member and the inner end of the head, a locking lever pivotally mounted between its ends within the housing having an outwardly and inwardly extending arm, manual means for rocking said lever about its pivot, means connected with one of said spindle parts with which the inwardly extending arm of said locking lever is brought into holding engagement when the lever is rocked in one direction, and means carried by said rod at its inner end engageable with the forwardly extending arm of said locking lever for returning the locking lever to its initial position upon inward movement of said projecting bolt head.

2,420,084
MAIL BOX

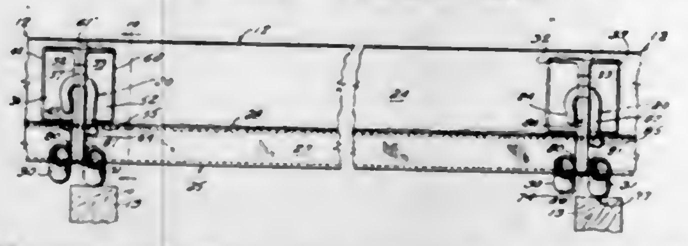
Harry Logsdon, Newton, Iowa
Application August 30, 1945, Serial No. 613,469
4 Claims. (Cl. 232—24)



1. In a device of the kind described a rectangular letter compartment closed at front and sides, open medially at the back thereof from top to bottom, and open at its upper and lower ends, the lateral margins of the sides being turned perpendicularly inward from top to bottom in a common plane and in parallel relation to form flanges defining the open back portion, a support and back closure for the said letter compartment, the same comprising a back plate slotted laterally in parallel relation conformably to the spacing of the flanges of the letter compartment and so that said flanges will overlie the slots when the elements are positioned together, a fixed bottom web or plate extended horizontally from the lower portion of the said back plate and slotted at its ends at its juncture with the back plate for receiving the inturned lateral flanges of the letter compartment, studs passed through the upper ends of the inturned flanges of the letter compartment and freely through the slots of the said back plate, and coiled draw springs secured at their lower ends under tension to the inturned flanges of the letter compartment and at their upper ends to the upper end of the back plate at each side thereof, whereby the letter compartment is normally and resiliently held to its upper-most and closed position on the back support.

2,420,085
CONVEYOR

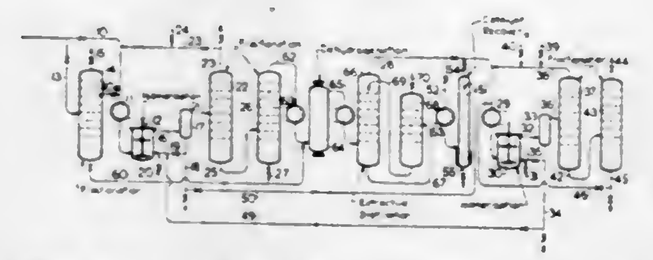
Armistead R. Long, Fayetteville, W. Va., and John B. Long, United States Navy, Washington, D. C.
Application January 5, 1945, Serial No. 571,428
13 Claims. (Cl. 198—204)



10. In a conveyor, the combination of a continuous chain, arranged to provide an upper run and a lower run; flights carried by said chain in spaced relation longitudinally thereof, said flights extending laterally of each side of the axis of the chain; conveyor sections for supporting said chain and flights, each conveyor section comprising an elongate trough in which said upper run and its flights move, and spaced apart rails extending longitudinally of and below said trough, upon which the end portions of the flights of the lower run ride, said conveyor sections being arranged with their respective troughs and rails in end to end relation; and a skid at each end portion of each of said conveyor sections, secured to the under sides and transversally of the rails thereof and constructed and arranged in such close proximity to the ends of the rails as to act as a protective guard against accidental bending thereof during transportation, assembly and dismembering of the conveyor and to serve as a hand bar at the end of the conveyor section to facilitate transportation thereof by workmen.

2,420,086
ISOMERIZING PARAFFINS AND NAPHTHENES IN A MIXED FEED

Sumner H. McAllister, Lafayette, Calif., and Chester C. Crawford, Bartlesville, Okla., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Original application May 16, 1942, Serial No. 443,269. Divided and this application November 20, 1944, Serial No. 564,298
7 Claims. (Cl. 260—666)



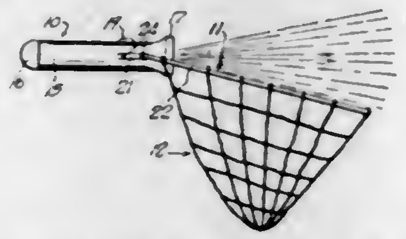
1. The process for the production of a high octane paraffinic hydrocarbon fraction from a mixture of saturated hydrocarbons comprising normal heptane and dimethylcyclopentane which comprises contacting the hydrocarbon mixture in a first conversion zone at a temperature below about 80° C. in the presence of a hydrogen halide promoter added in an amount below about 0.5 per cent by weight of the hydrocarbon charge with a partially spent isomerization catalyst comprising an aluminum chloride-containing mixture of molten salts obtained within the system, thereby effecting the conversion of dimethylcyclopentane to methylcyclohexane as the predominating reaction, separating cycloparaffins comprising methylcyclohexane from the effluence of the first conversion zone, contacting the remaining hydrocarbons comprising normal heptane with an isomerization catalyst comprising an aluminum chloride-containing mixture of molten salts at a temperature of from about 85° C. to about 100° C. in the presence of an added hydrogen halide promoter in a second conversion zone, thereby converting the remaining hydrocarbons to a high octane paraffinic hydrocarbon fraction comprising branched chain heptanes, and passing partially spent catalyst from the second conversion zone to the first conversion zone.

2,420,087
FISH LANDING NET

Melvin J. Meek, South Bend, Ind., assignor of one-half to Bernard C. Hogquist, South Bend, Ind.
Application November 5, 1943, Serial No. 509,059
3 Claims. (Cl. 240—6.4)

1. A fish landing net comprising a frame having converging end portions, a net carried by said frame, and a flashlight having a sealed casing secured to the end portions of said frame to

form a projecting handle therefor, said flashlight having a lens and a light bulb at the inner end thereof for directing a beam of light centrally across said frame.



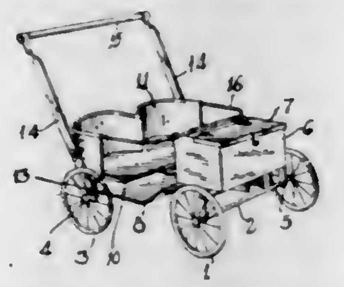
2,420,088

CHILD'S CART

John E. Milburn, Redwood City, Calif.

Application August 7, 1946, Serial No. 689,027

1 Claim. (Cl. 280—47)



In a cart for children, front and rear axle rods, wheels for supporting the axle rods, front and rear pairs of brackets mounted on the axle rods, a trunk supported at its front side by the front brackets, a seat supported at its opposite ends on the rear brackets, the said seat having a back formed with duplex curved portions, a floor member secured at its rear end to the rear axle rod and at its front end to the trunk, a centrally disposed brace and partition member secured to the seat and to the trunk, the said brace and partition member being centrally arranged to separate the space above the central part of the floor member into two areas for the occupancy of the legs and feet of two children occupying the seat, and a handle member for wheeling the cart from place to place.

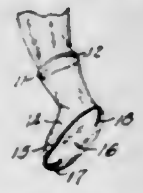
2,420,089

UNDERGARMENT

William Murphey, Chattanooga, Tenn.

Application August 4, 1945, Serial No. 608,994

1 Claim. (Cl. 2—80)



In a garment of the type described terminating in foot-portions, sole strips stitched to the foot-portions, the sole strips having centrally disposed seams at the toe and heel to shape the garment to the foot.

2,420,090

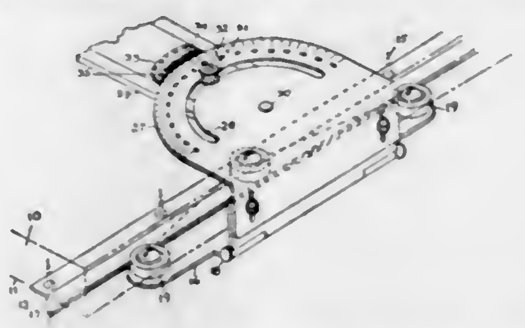
STRAIGHTEDGE PROTRACTOR

Paul A. Nelson, Lake Grove, Oreg.

Application June 23, 1945, Serial No. 601,240

1 Claim. (Cl. 33—76)

A straight edge of the class described characterized by having an elongated track of Z bar cross section adapted to be fastened to the edge of a drawing board, a carriage mounted on said track and having rollers for engaging opposite sides thereof, a side roller having a spring for urging same toward said track, an angular plate one side of which is normally vertical and hinged to said carriage and the other side of which is normally horizontal and extendable over the drawing board, said horizontal portion having a semi-circular graduated edge, a straight edge hinged to said horizontal portion at a point concentric with said graduated edge, and means for clamping said straight edge to said horizontal member.



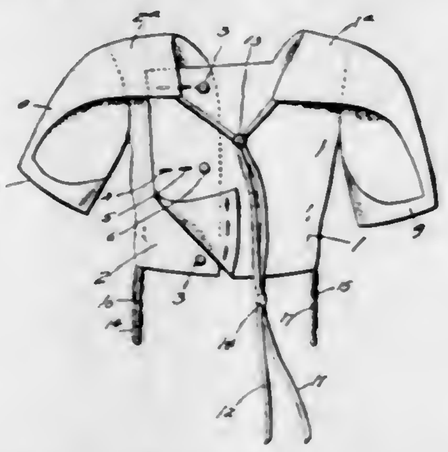
2,420,091

CHEST AND SHOULDER PROTECTOR

Selma Nordling, Pasadena, Calif.

Application February 14, 1944, Serial No. 522,244

6 Claims. (Cl. 2—51)



6. A chest and shoulder protecting garment comprising two separate chest portions relatively adjustable laterally to suit body sizes, means for fastening the two portions together in adjusted position, each chest portion having a shoulder portion and an arm portion for covering the front and top of the shoulders and arms, the garment having no back cover for the body, guides extending from the outer bottom corners of the chest portions, bands extending from the inner corners of the shoulder portions to reach down the back of the wearer, the bands being insertable through said guides and fastened together to draw the garment snugly over the shoulders and about the waist of the wearer, and means slidable on the upper end of said bands for drawing the shoulder portions snugly around the neck of the wearer.

2,420,092

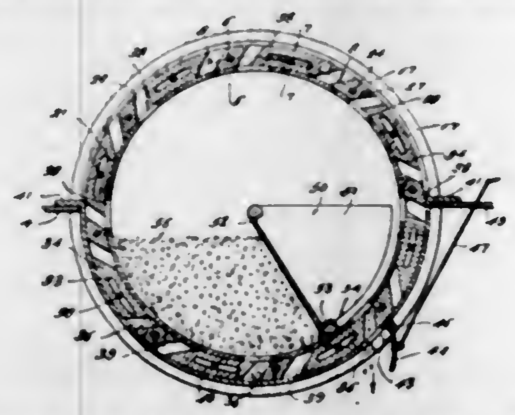
BARREL PLANTER

Harry C. Otte, Brookhaven, Miss.

Application July 27, 1945, Serial No. 607,287

1 Claim. (Cl. 111—74)

A planter comprising, a frame, a seed barrel journaled within the frame and supporting the same and including spaced, flanged tread means, channel means opening outwardly secured to the barrel between the flanges of the tread means, a plurality of holes in the web of the channel, a plurality of spaced fixed blocks in the channel, an equal plurality of spaced adjustable blocks, each between a pair of adjacent fixed blocks and defining with the nearest fixed block in a counterclockwise sense a pocket of adjustable size communicating at its inner end with a hole, a band fixed to the frame and encircling the lower half of the pockets to close the outer ends thereof, controllable aperture means in the band for successive registry with a pocket.



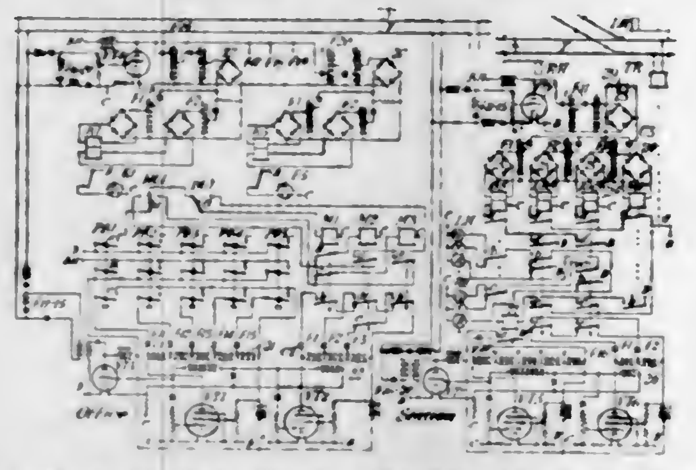
2,420,093

REMOTE CONTROL SYSTEM

Willard P. Place, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application December 17, 1943, Serial No. 514,642

5 Claims. (Cl. 177—353)



1. In a remote control system, an office and a station connected by line wires, manually controllable means for at times impressing carrier current of a given carrier frequency on the line wires and for selectively modulating said current by different modulation frequencies, means at the station for selectively receiving said current including selective circuit elements resonant to the carrier frequency, demodulating means for converting said current to alternating current of the modulation frequency, a group of slow release control relays at said station, circuits for selectively controlling said relays by the alternating current supplied by said demodulating means, the circuit for each control relay including a rectifier and selective circuit elements resonant to a different one of said modulation frequencies, a quick release relay, an energizing circuit for said quick release relay including a rectifier interposed in the circuits by which said demodulating means supplies current to said selective circuit elements, and rendering such relay responsive to current of any of said modulation frequencies, a holding circuit for each control relay including its own front contact and a back contact of said quick release relay, a slow release transmitter relay controlled by a front contact of said quick release relay, means controlled by said transmitter relay when energized for impressing carrier current of a second carrier frequency on the line wires and for modulating such current by different modulation frequencies in accordance with the condition of said control relays, means at the office for selectively receiving said second carrier current including selective circuit elements resonant thereto, demodulating means for converting said second carrier current to alternating current of the modulation frequency, and an indication relay controlled thereby for indicating the condition of said control relays.

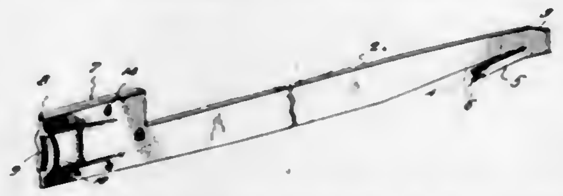
2,420,094

SELF-RIVETING SEAL

Oril M. Polkingharn, Cheyenne, Wyo.

Application March 14, 1945, Serial No. 582,635

3 Claims. (Cl. 292—323)



1. A locking seal comprising, a strip terminating near one end in a resilient tongue diverging laterally of the remainder of the strip and in direction away from such end, a folded housing at the opposite end of the strip and including an entrance through the folded edge and defined by a pair of inwardly bent lips each forming an interior pocket one of which receives the free end of the tongue during attempted retraction of the tongue from the housing.

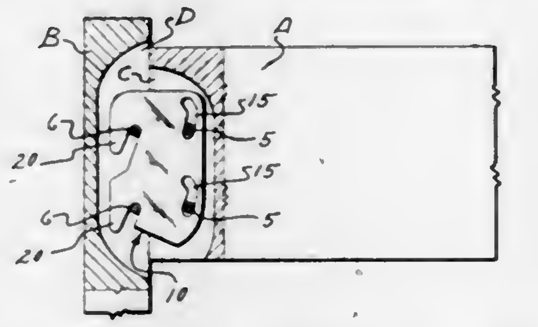
2,420,095

BED HOOK

Maurice N. Rainier, Los Angeles, Calif.

Application January 13, 1945, Serial No. 572,628

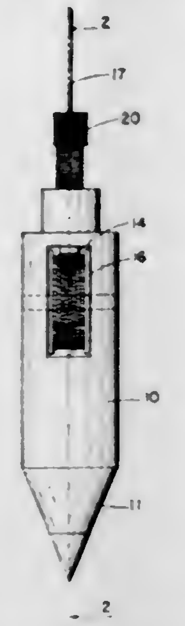
3 Claims. (Cl. 5—296)



1. A joint structure comprising a post having a recess in its side, a pair of pins disposed transversely of the post and spaced apart longitudinally thereof, said pins extending across the recess, a rail adapted to be joined at its end to the post and having a recess in its end, a pair of lateral pins carried by the rail and spaced apart in a plane parallel with the post, said last-named pins extending across said last-named recess, and a plate having a pair of lengthwise elongated slots adjacent one of its side edges through which slots the respective last-named pins extend and along which said last-named pins are slidable, the opposite side edge of the plate presenting a pair of hook members engageable over the respective first-mentioned pins, said slots having a side wall portion providing angularly disposed cam surfaces engageable by the respective pins carried by the rail to cause movement of the plate relative to the post and rail in a direction longitudinally of the rail.

2,420,096
PLUMB BOB

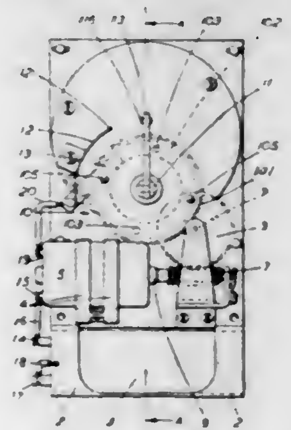
John I. Roose, Los Angeles, Calif.
Application January 16, 1945, Serial No. 573,039
1 Claim. (Cl. 33—217)



A plumb bob having a transverse slot therein, a reel rotatably mounted in the slot for rotation about a horizontal axis that intersects the vertical axis of the bob, and a tubular screw threaded into the top of the bob having its lower end extending into the slot and through which the line unwound from the reel extends, the screw being arranged coaxially with the vertical axis of the bob and being adapted to be screwed down into engagement with the line remaining on the reel to hold the reel against rotation.

2,420,097
ELECTRICALLY OPERATED WINDING MEANS FOR SPRING-ACTUATED CLOCKS

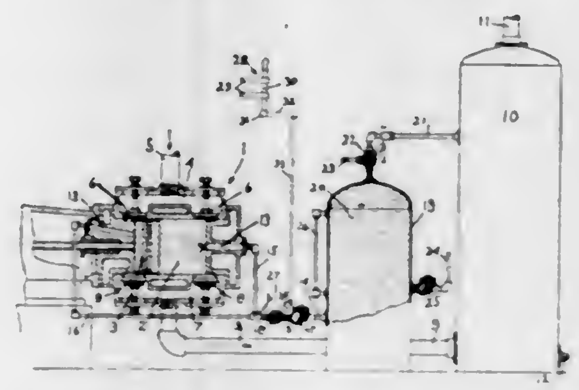
Paul Waldemar Rosenfeld, London, England, assignor to Meridian Clock Co. (Gt. Britain) Limited, London E. C. 2, England, a British company
Application September 12, 1944, Serial No. 553,696
In Great Britain September 25, 1943
20 Claims. (Cl. 185—40)



6. In an electrically-wound spring-driven clock, the combination of a clock spring having a winding arbor an arm rotatable with the arbor of the clock spring and rockable substantially normal to its plane of rotation, a contact abutment on said arm, a winding wheel on the spring arbor and freely rotatable relatively thereto, an electric motor in driving connection with said wheel, a contact stud on said wheel lying in the path of said abutment, an energising circuit for said motor, said circuit including said stud and said abutment which together form a switch to close the motor circuit upon said abutment engaging said stud as the spring unwinds, whereby said motor is energised to drive said winding wheel in a direction for winding the spring, so that said wheel through the engagement of said stud and abutment causes said arm to rotate the spring arbor to wind the spring, and means in the path of said arm for rocking the same to disengage said abutment from said stud after they have travelled together a predetermined distance, whereby to stop the motor and allow the spring to unwind.

2,420,098
COMPRESSOR

Wilfred J. Rouleau, Quincy, Mass.
Application December 7, 1944, Serial No. 566,984
6 Claims. (Cl. 230—206)



1. A compressor for compressing air and other gases comprising a cylinder, a piston operating therein, a spray nozzle to deliver cooling medium to the cylinder, a tank containing the cooling medium, means connecting the tank to the nozzle, and means for maintaining in the tank a pressure substantially equal to the maximum pressure developed by the compressor, whereby cooling medium will be automatically delivered from the nozzle into the cylinder of the compressor except when the pressure in said cylinder equals or exceeds that in the tank.

2,420,099
PHENOLIC TYPE GERMICIDES AND PROCESS OF MAKING SAME

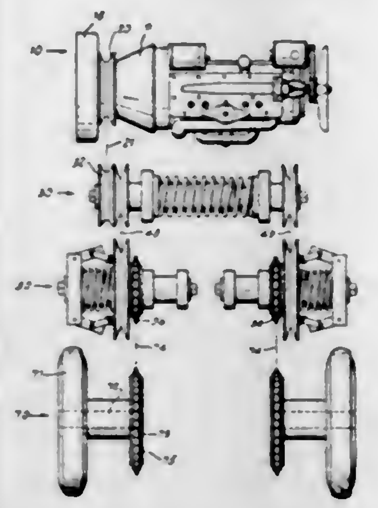
Anthony J. Salle, West Los Angeles, and Howard L. Guest, Ocean Park, Calif., assignors of one-half to Leo A. Gunther, Robbins, Calif.
No Drawing. Application October 27, 1942, Serial No. 463,542
5 Claims. (Cl. 167—31)

1. A germicide substantially equal in killing power to *Staphylococcus aureus* of substantially a 1:100 phenol solution that comprises a substantially 1:1400 solution of phenol and a soluble, inorganic oxidizing agent in which the amount of said oxidizing agent is an equivalent molecular weight thereof to each gram molecular weight of the phenol.

2,420,100
VEHICLE SPEED GOVERNED BELT TRANSMISSION

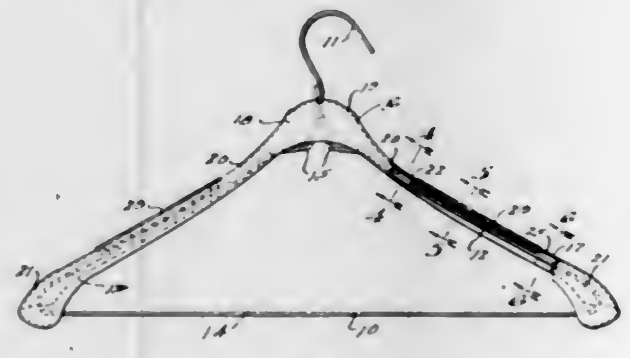
Esley F. Salsbury, Los Angeles, Calif., assignor to Salsbury Corporation, Los Angeles, Calif., a corporation of California
Application November 8, 1943, Serial No. 509,416
2 Claims. (Cl. 180—70)

1. In a vehicle having a motor and two driven wheels, the combination of: two V-belt transmissions, each having a driving pulley and a driven pulley, each driving pulley being driven at a speed proportional to the motor speed, each driven pulley driving one of said wheels; two V-belts, each driving one of said driven pulleys and being itself driven by one of said driving pulleys; two centrifugally operated governing means, each of which actuates means to reduce the effective diameter of a driven pulley within limits as the speed of the wheel the driven pulley drives increases, and acting to increase the diameter of said driven pulley within limits as the speed of said wheel decreases, each of said governing means being carried on and rotating at the speed of its driven pulley; and means for increasing or diminishing the diameters of said driving pulleys to maintain proper tension on said belts as the diameters of said driven pulleys change.



2,420,101
PADDING MEMBER FOR GARMENT HANGERS

Eric L. Samann, Grand Rapids, Mich.
Application October 27, 1944, Serial No. 560,550
10 Claims. (Cl. 223—88)

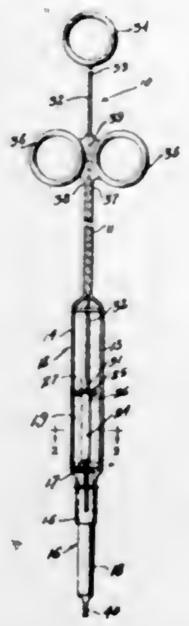


8. The combination with a wire coat hanger of a substantially inflexible padding member therefor having collar and shoulder conforming portions and means rigidly carried by said padding member tightly embracing said coat hanger at spaced points whereby said padding member and hanger mutually cooperate to impart stability and prevent distortion of each other.

2,420,102
SYRINGE EXTENSION

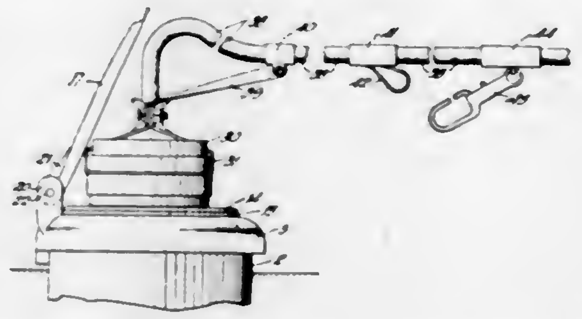
Edward L. Shuford, Asheville, N. C., assignor of fifty per cent to Roy W. Hunting, Asheville, N. C.
Application July 27, 1945, Serial No. 607,308
2 Claims. (Cl. 128—294)

1. A syringe and operating extension therefor comprising spaced axially aligned upper and lower tubes, oppositely disposed parallel rods formed integrally with the adjacent ends of said tubes providing a seat at the upper end of said lower tube, a syringe body formed with an annular flange adapted to be received in said lower tube with its flange on said seat; a piston in said syringe having a head on its outer end, an operating rod slidably mounted through said upper tube, and fingers on the lower end of said rod engageable with the head on said syringe piston.



2,420,103
WIRING SYSTEM FOR OUTDOOR AUTO THEATRES

Ralph W. Smith, Walton, N. Y.
Application August 29, 1941, Serial No. 408,770
2 Claims. (Cl. 174—70)

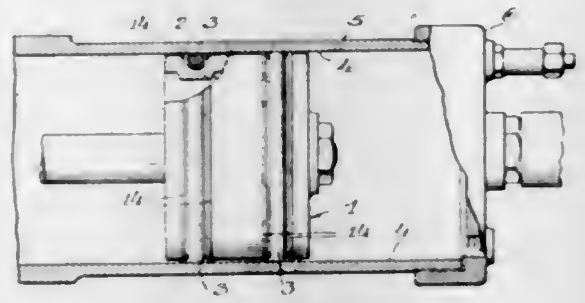


1. An outlet for use in an underground wiring system for out-door auto theatres, said outlet comprising a pipe of a length adapting it firmly to be secured in position when embedded vertically in the ground and through which wires may extend, a socket-supporting element mounted to overlie the upper end walls of said pipe and extending a substantial distance within said pipe and in closely but slidably fitting relation to the inner walls thereof whereby to prevent a laterally applied force from disengaging it from said pipe, said element being provided with a central opening therein, a plug socket secured to said element and disposed within the opening in said element, said socket comprising a body having slots therein adapted to receive the prongs of a connecting plug and opposite walls of said slots diverging toward the surface of said body whereby to enable said plug to be rocked from said socket, a cover and a hinge pivotally connecting said cover to said element in a position adapting it when closed wholly to overlie the socket therein, the axis of said hinge extending generally in the same direction as that in which the walls of said slots diverge, and means for securing said element to said pipe.

2,420,104
SEAL GUARD RING

Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware

Application July 22, 1943, Serial No. 495,703
13 Claims. (Cl. 309—23)

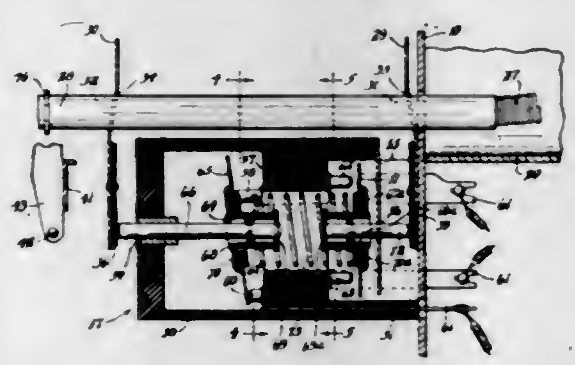


1. In a seal assembly for sealing the space between a pair of members and in which one member is formed with a continuous recess having its opposite sides so inclined as to form an acute angle with the surface of the other member to be sealed, a resilient packing carried in the recess with its opposite sides spaced from the sides of the recess when under no or relatively low pressure and adapted to flow into a corner formed by a side of the recess and the surface of the other member to be sealed when under relatively high pressure, and a guard ring positioned within the acute angle formed at the corner for protecting the material of the packing against extrusion into this corner and the clearance opening between the adjacent surfaces of the members to be sealed when the seal is under relatively high pressure.

2,420,105
CIRCUIT CONTROLLING DEVICE

Hubert T. Sparrow and Benjamin Cyr, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application October 30, 1944, Serial No. 561,008
13 Claims. (Cl. 200—16)

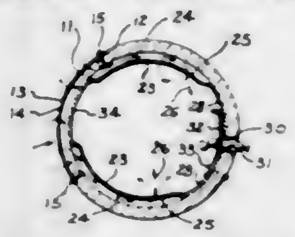


2. In a circuit controlling device, comprising, a contact supporting member, three contacts mounted on one side of said supporting member, one of said contacts being disposed on a different transverse plane than the remainder, a first switch adapted to collectively engage all three of said contacts, another contact mounted on the opposite side of said supporting member, a second switch located on the opposite side of said supporting member from said first switch and being adapted to engage said other contact, means for moving said first and second switches in unison with relation to their respective contacts, and means for moving said first switch in a step by step sequence with respect to the several transverse planes in which said three contacts are situated.

2,420,106
GOGGLE

Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application August 21, 1944, Serial No. 550,401
3 Claims. (Cl. 2—14)

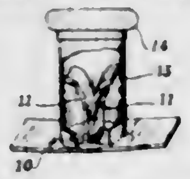


1. A device of the character described comprising an eyecup member having a face contacting edge portion, side walls extending forwardly of said edge portion and terminating in a forward supporting edge, said eyecup member having a relatively wide wall portion on the temporal side thereof with a vent opening therein and having a relatively narrow wall portion on the nasal side thereof, a baffle shaped to extend and fit within said eyecup member, said baffle having a wall portion on the temporal side thereof lying substantially flush with the adjacent inner surface of said eyecup and being of a width less than the width of the vent opening with the ends thereof spaced from the respective sides of said opening and having wall portions on the nasal side thereof contiguous with the inner adjacent surface of the eyecup, channel means formed in said baffle to extend inwardly of the eyecup from adjacent the opposed sides of the wall portion on the temporal side of said baffle, said channel means embodying spaced side wall portions lying in contiguous relation with the respective adjacent inner surfaces of the eyecup and each having an intermediate portion bulging inwardly of the eyecup and spaced from said adjacent surfaces and terminating in a closed end communicating with the portion in contiguous relation with the nasal side of the eyecup, said channel means each having an opening therein adjacent the closed end thereof communicating with the interior of the eyecup.

2,420,107
PIN CURL CURLER

Lee Stallins, Denver, Colo.

Application September 7, 1945, Serial No. 614,883
3 Claims. (Cl. 132—40)



1. A hair curler for use in making a flat pin curl, comprising a substantially flat base having two flexible fingers, each having one end connected with the base adjacent the center thereof and the other end freely movable, the under surfaces of the fingers being spaced from the opposed surface of the base when they are in hair retaining position, with their outer ends in a position closely adjacent the base, the fingers being movable into positions perpendicular from and towards positions substantially parallel to the base, and means comprising an elongated tubular member for encircling the fingers when they are in outwardly extending position to effect a spacing of the hair from the fingers when it is wound about the tubular member, the latter being removable to permit the fingers to move outwardly into hair engaging position.

2,420,108
PROCESS FOR TREATING A SOLVENT-EXTRACTED PETROLEUM DISTILLATE WITH CLAY AND LIME

Reginald K. Stratford, Corunna, Ontario, and Oldrich S. Pokorny, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware

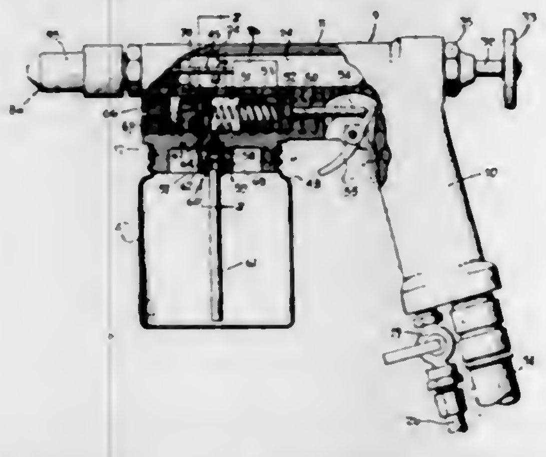
No Drawing. Application July 13, 1944,
Serial No. 544,818
6 Claims. (Cl. 196—41)

1. The process which comprises subjecting a phenol-extracted petroleum distillate of the turbine oil, hydraulic oil and transformer oil viscosity range and having a ratio of paraffinic to naphthenic constituents of at least 3 to 1, to treatment with activated clay in the presence of hydrated lime at a temperature of about 350–500° F. to produce a stabilized refined oil of improved resistance to oxidation and emulsification.

2,420,109
CLEANING GUN

Max C. Thompson, South Pasadena, Calif.

Application February 7, 1944, Serial No. 521,448
2 Claims. (Cl. 299—84)



1. A cleaning gun comprising a portable body member, a cleaning liquid reservoir attached thereto, a mixing chamber in said body member, valved means for supplying fluid to said mixing chamber, an atomizing discharge nozzle in open communication with said mixing chamber, a pump cylinder, a piston reciprocable in said cylinder, a passageway leading from said reservoir to said cylinder, a separate passageway leading from said cylinder to said mixing chamber, said separate passageway being of restricted cross sectional area for at least a portion of its length, means for moving said piston in a direction to draw cleaning liquid from said reservoir into said cylinder, means for selectively moving said piston in a direction to discharge cleaning liquid from said cylinder through said separate restricted passageway into said mixing chamber whereby to eject at will an atomized spray of fluid containing cleaning liquid or one free therefrom.

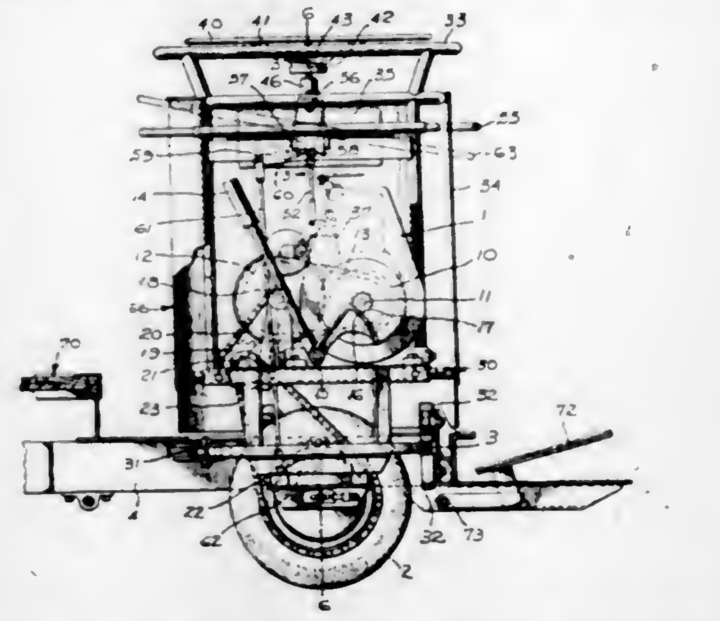
2,420,110
BRAKE CONTROL MECHANISM

Lewis D. Thostenson, Inglewood, Calif., assignor to Salsbury Corporation, Los Angeles, Calif., a corporation of California

Original application April 13, 1943, Serial No. 482,865. Divided and this application May 28, 1945, Serial No. 596,237

6 Claims. (Cl. 180—77)

1. In a truck, having a body and a turret turning freely about a vertical axis, said turret being supported on a wheel rotating about a horizontal axis fixed in said turret, the combination of: a brake for said wheel; a brake operating ring encircling the turret and pivoted about a horizontal axis fixed with relation to said turret; and means by which rotation of said brake ring about said axis either way from neutral position applies said brake.

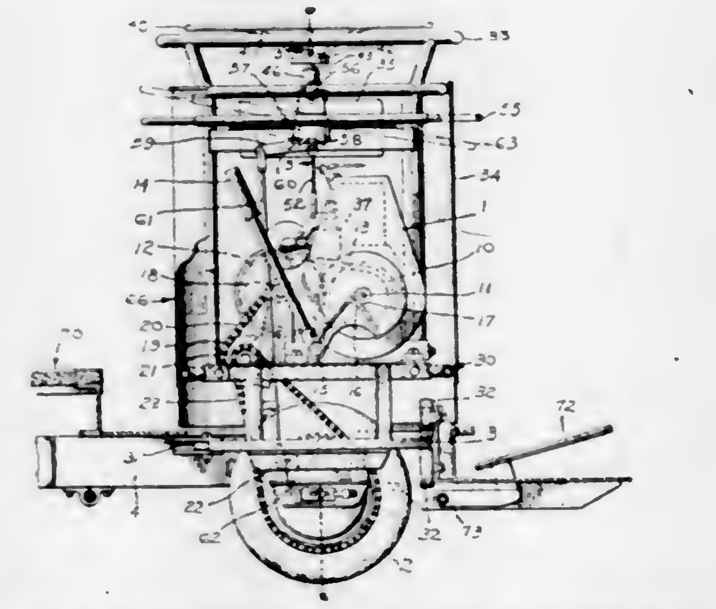


2,420,111
THROTTLE CONTROL MECHANISM

Lewis D. Thostenson, Inglewood, Calif., assignor to Salsbury Corporation, Los Angeles, Calif., a corporation of California

Original application April 13, 1943, Serial No. 482,865. Divided and this application May 28, 1945, Serial No. 596,238

2 Claims. (Cl. 180—77)

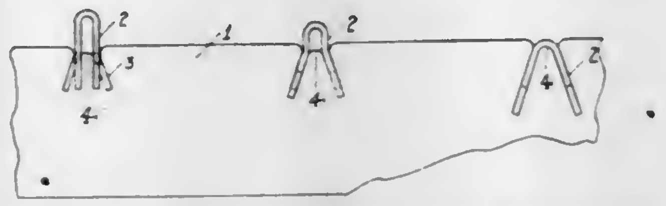


1. In a truck, having a body and a turret turning freely about a vertical axis, said turret being supported on a wheel rotating about a horizontal axis fixed in said turret, said wheel being driven from an engine fixed in said turret, the combination with the above elements of: a steering wheel rigidly fixed to said turret; a throttle control ring concentric with said steering wheel and sufficiently close thereto to be operable by the fingers of a hand grasping any portion of said steering wheel, said throttle control ring being attached to said turret by a central universal connection whereby it may be tilted in any direction about said connection; and means connecting said control ring to a throttle for said engine whereby control of said throttle may be effected by tilting said control ring.

2,420,112

METHOD OF MAKING GRATINGS HAVING INTERLOCKED BARS

Elmer W. Utzler, Pittsburgh, Pa.
Application November 1, 1941, Serial No. 417,501
1 Claim. (Cl. 29—160)

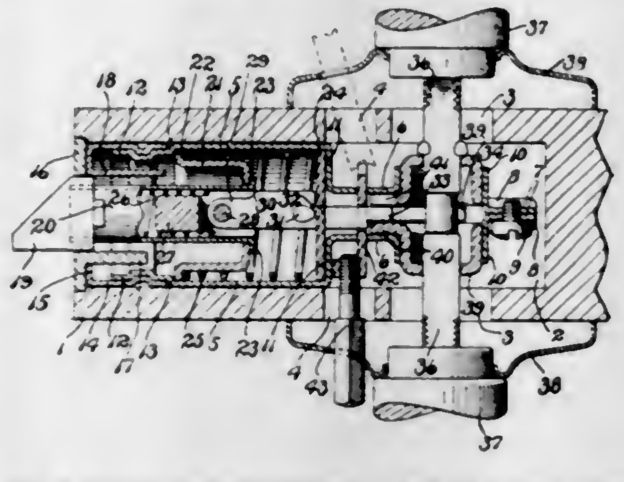


The method of making a grating which comprises providing girder bars in spaced relation, each girder bar having spaced inverted substantially V-shaped slots extending inwardly from one longitudinal edge thereof so that the intersection of the slots provide a cross bar bearing portion below the plane of said longitudinal edge of the girder bar, providing cross bars of inverted substantially U-shape, and assembling the grating by forcing the free ends of the cross bar arms into the girder bar slots and locking the cross bars therein thru progressive deformation until the rounded portion of the cross bar engages the bearing provided therefore on the girder bar.

2,420,113

LOCKING LATCH

Abraham Vander Henst, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application March 14, 1945, Serial No. 582,603
8 Claims. (Cl. 292—169)

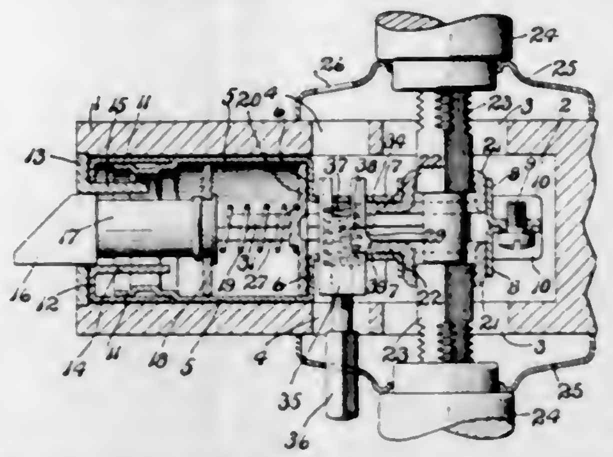


1. In a latch construction, a latch bolt assembly including a bolt head and an elongated sleeve connected to the inner end of the bolt head and extending horizontally therefrom, a member at the open end portion of the sleeve and over which said sleeve may be telescopically moved, a spring between the member and the bolt head, a lever pivotally mounted at one end on said member and normally extending in alinement with the axis of said sleeve, a transverse member through which the open end portion of the sleeve freely passes, two retractor bars connected to said transverse member at opposite sides thereof extending therefrom in parallelism to the longitudinal axis of the sleeve, a plate through which said pivoted lever passes, a heavier spring between said transverse member and the plate, and a pin extending through the pivoted lever between its ends and at the side of the plate adjacent the open end of the sleeve, said plate having a projecting rib for the pin to ride over from one side thereof to the other in pivotal movements of the lever in one direction and return thereof to original position.

2,420,114

LATCH

Abraham Vander Henst, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application April 9, 1945, Serial No. 587,229
9 Claims. (Cl. 292—169)

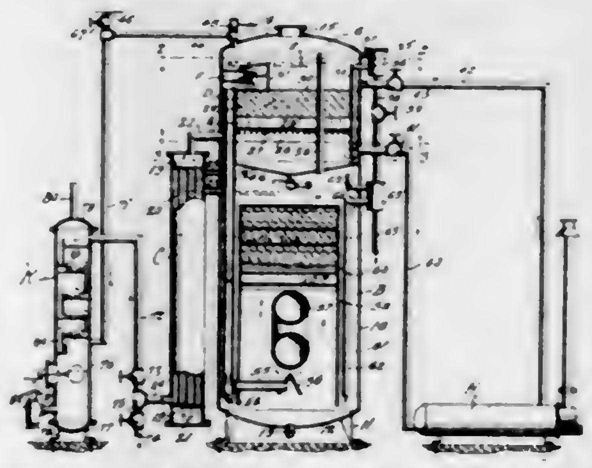


1. A latch mechanism comprising, an elongated housing open at one end, a latch bolt spring actuated to partially project at the open end of the housing, retractor bars connected to the latch bolt and extending therefrom inwardly, manually operable means mounted at one side of the housing in engagement with said retractor bars to move them longitudinally to draw the latch bolt inwardly, additional retractor bars located alongside of and slidably connected to the first retractor bars and extending inwardly, other manually operable means mounted at the opposite side of the housing for moving said second retractor bars inwardly and thereby draw the first retractor bars therewith and retract the latch bolt, means mounted at the first mentioned side of the housing and manually movable to lock the second mentioned retractor bars against movement, the first mentioned retractor bars being left free for movement, and interengaging means between said locking means and the first mentioned retractor bars for holding it in operative locking position and for releasing it upon any inward movement thereof.

2,420,115

METHODS OF AND APPARATUS FOR TREATING OIL WELL STREAMS

Jay P. Walker and Clarence O. Glasgow, Tulsa, Okla.
Application June 10, 1944, Serial No. 539,718
21 Claims. (Cl. 252—321)

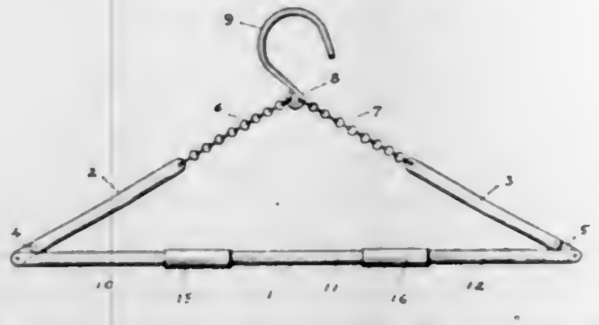


1. The method of treating emulsified oil well streams to defoam said streams and to break down the emulsion which includes, discharging the well stream directly into a body of heated water, flowing the emulsified oil through said body of water to heat said oil and primarily release gas therefrom, controlling the temperature of said water in accordance with the composition of the particular mixture being treated in order to release sufficient gas to eliminate foam, and thereafter washing the defoamed oil in a body of water heated to a temperature sufficient to break the emulsion.

2,420,116

COAT HANGER

Maxwell I. Walters, Rochester, N. Y.
Application July 6, 1946, Serial No. 681,725
3 Claims. (Cl. 223—89)

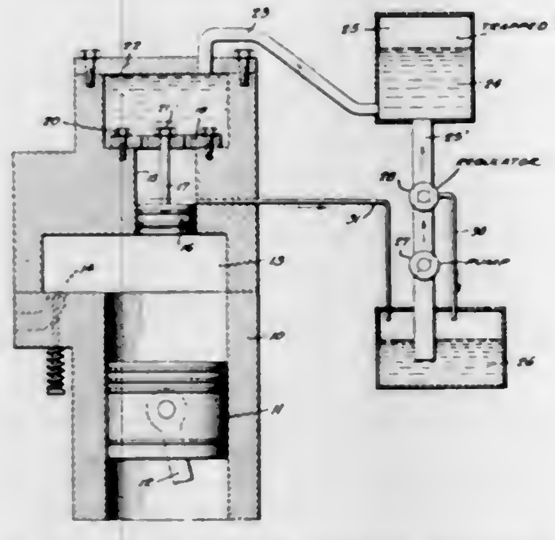


1. A coat hanger comprising a bar made up of three short sections held together by links pivoted thereon, sleeves on said sections, each sleeve being capable of covering the ends of two sections and the link connecting them for the purpose of holding the sections in line with each other, a section at each end of the bar and a link for connecting the outer end of each section to the outer end of the bar, chains connected to the inner ends of said sections, a hook to which the inner ends of two chains are connected, by which hook the hanger is suspended.

2,420,117

INTERNAL-COMBUSTION ENGINE

Robert A. Weatherup, Redlands, Calif.
Application July 5, 1945, Serial No. 603,307
5 Claims. (Cl. 123—78)

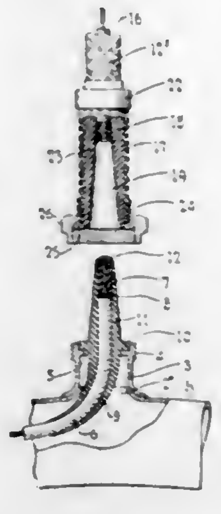


3. In an internal combustion engine comprising a cylinder having a piston therein to form an expansible combustion chamber and a movable wall member having an inner surface bounding a portion of said chamber and movable outwardly to increase the volume thereof; a controlling system for the said wall member comprising an enclosed body of fluid backing said member, a relief valve arranged to release fluid from the said body at a predetermined maximum pressure, and a pump arranged for constantly delivering fluid to said body at a pressure at least as great as said predetermined pressure.

2,420,118

CONNECTING MEANS FOR SHIELDED IGNITION LEADS

John W. Anderson, Elizabeth, N. J., assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of Delaware
Application November 1, 1943, Serial No. 508,634
2 Claims. (Cl. 174—35)



1. The combination with the manifold of a radio shielded ignition harness for an internal combustion engine, said manifold having an opening, of a conductor in said manifold and projecting outwardly from said manifold through said opening, a second conductor for connecting with a spark plug, a flexible metal radio shielding conduit into which said conductors enter, and means for securing said conduit to said manifold, a tapered body of flexible insulation within said conduit supported on the manifold and surrounding the conductor projecting from the manifold, the last mentioned conductor being supported by said insulation, a terminal at the end of said tapered body of insulation and connected with the first mentioned conductor, a second body of flexible insulation within the said conduit and through which said second conductor passes, said second body of insulation having a tapered recess within which the said tapered body of insulation extends and a second terminal connected to said second conductor at the bottom of said recess and engaging the first mentioned terminal.

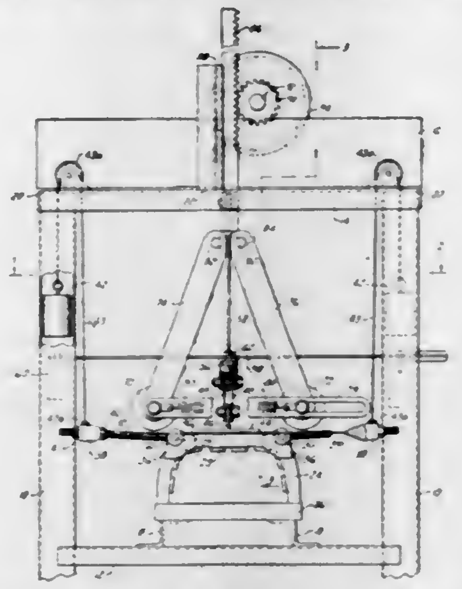
2,420,119

METHOD AND APPARATUS FOR BENDING SHEET MATERIAL

Robert M. Boehm, Laurel, Miss., and Aaron A. Ladon, Cleveland, Ohio, assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware
Application November 29, 1944, Serial No. 565,768
11 Claims. (Cl. 18—19)

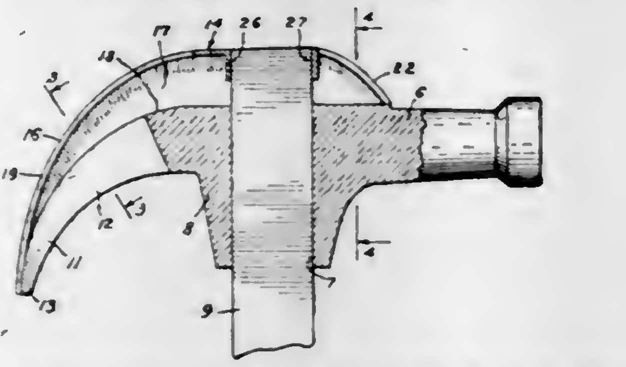
4. Apparatus for bending sheet material which comprises a heated mold including an upper surface portion and downwardly curved side portions, said upper surface portion adapted to support a sheet with its side portions extending outwardly beyond said curved side portions of the mold, clamping means for holding the sheet to the upper surface portion of the mold, arms pivoted at each end of the mold, a pair of restraining members having recessed portions for engaging the sheet by its opposite edges, said members being adjustably secured to the outer ends of said arms and positioned in substantially parallel alignment to the side of the mold, and movable means adapted

to apply downward pressure to the outwardly extending side portions of the sheet to force the side portions of the sheet and said restraining members toward the side of the mold.



2,420,120
HAMMER

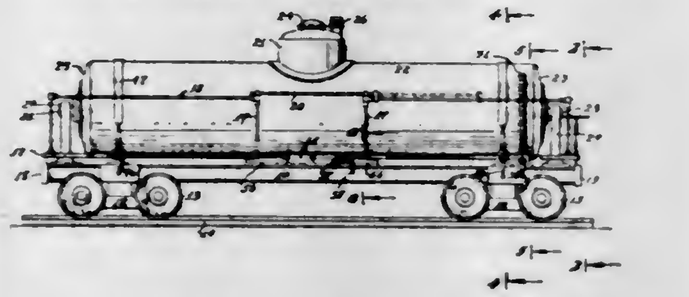
Karl Bruchsaler, Stockton, Calif.
Application August 25, 1944, Serial No. 551,153
4 Claims. (Cl. 254—26)



1. In a hammer, the combination with a hammer head having a handle extended therethrough; of an extension secured to the top of the hammer, a hub in said extension fitting over the end of said handle, a claw formed in said extension, and the top surface of said extension being curved from said hub toward said claw into a bearing surface for exerting leverage for drawing nails by means of said claw.

2,420,121
RAILWAY TANK CAR

John W. Burnett, Chicago, Ill., assignor to Reynolds Metals Co., Richmond, Va., a corporation of Delaware
Application August 26, 1944, Serial No. 551,329
6 Claims. (Cl. 105—270)

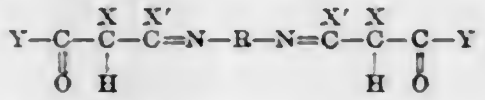


1. A transport container of the tilting or dumping type for liquids and like materials, comprising a vehicle frame; a generally cylindrical tank for holding said materials; and separate means for supporting said tank during rotation and during transport including trunnion bearings at each end of the tank and additional supporting means engageable between said tank and said frame; said latter means being adapted to be retracted in a manner to permit the tank to be supported by said trunnion bearings for rotation.

2,420,122
SUPPRESSION OF METAL CATALYSTS

Joseph A. Chenicek, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 30, 1944, Serial No. 556,661
17 Claims. (Cl. 44—71)

1. A method of inhibiting the deterioration of hydrocarbon distillate boiling in the gasoline range in the presence of a metal normally active to catalyze said deterioration, which comprises adding to said distillate, in a small but sufficient amount to suppress the catalytic effect of said metal, a compound having the following general formula:

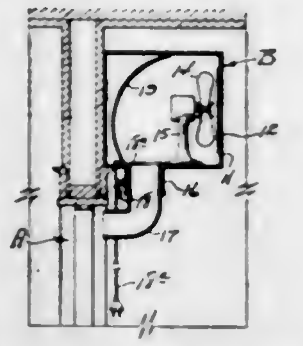


$$\mathrm{Y-\underset{\underset{O}{\|}}{C}-\overset{X}{\underset{\underset{H}{|}}{C}}-\overset{X'}{C}=N-R-N=\overset{X'}{C}-\overset{X}{\underset{\underset{H}{|}}{C}}-\underset{\underset{O}{\|}}{C}-Y}$$

where Y is a radical selected from the group consisting of OH, OR', NH_2, NHR' and NR'R', R' being a radical selected from the class consisting of alkyl and aryl groups, X and X' being selected from the class consisting of hydrogen and alkyl groups, and R is a radical selected from the class consisting of alkylene and arylene groups, the nitrogen atoms of said compound being attached to different carbon atoms of R.

2,420,123
HEAT CIRCULATING DEVICE

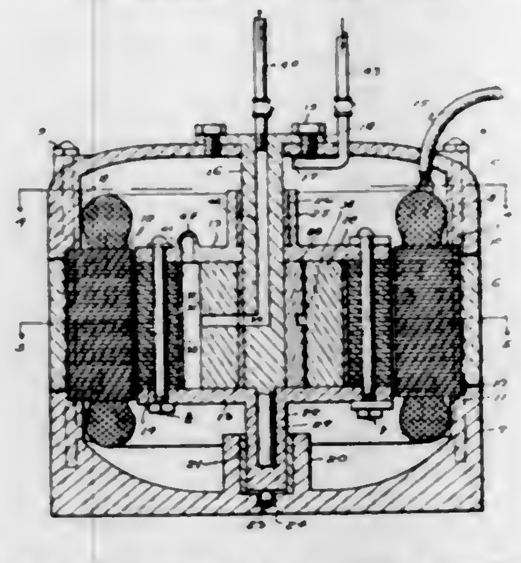
Melbourne J. Cooper, Wichita Falls, Tex.
Application August 21, 1943, Serial No. 499,583
1 Claim. (Cl. 98—39)



A heat circulating device for use between partitioned spaces, comprising a portable housing, a fan in the housing, said housing provided with a pair of openings, one located in front of the fan in the front wall of the housing, and one located in back of the fan in the bottom wall of the housing and at right angles to the first opening, a nipple on the housing about the latter opening, a screen over the first opening, and an elbow shaped conduit connected with the nipple to extend downwardly and backwardly from the housing and its free end directed in the same plane, but at a lower level than the first opening whereby said housing may be placed above and on one side of a partition over a door opening in the partition and the elbow will extend downwardly toward the door opening in, the partition to direct air through the door opening to a space on the other side thereof from the housing.

2,420,124
MOTOR-COMPRESSOR UNIT

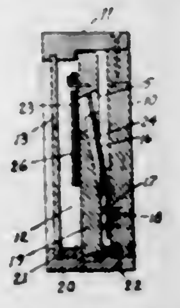
Charles Chilton Coulson, Mobile, Ala.
Application November 27, 1944, Serial No. 565,394
3 Claims. (Cl. 230—139)



1. In a motor-compressor unit, a vertical cylindrical hermetically sealed casing, a horizontal electric motor field secured in said casing adjacent the peripheral wall of the latter, a supporting shaft disposed axially of said casing and said field, the upper end of said shaft extending through the top wall of said casing and having a flange on its upper end secured to said top wall, a bearing socket on the bottom wall of said casing, a combined armature and compressor cylinder arranged within said field and including an annular laminated armature member and top and bottom discs secured against the top and bottom sides of said armature member, said shaft having an eccentric member abutted at its ends by said discs, said discs being centrally journaled on said shaft above and below the eccentric member, the bottom disc having a central depending hollow stub shaft receiving the lower end of the supporting shaft and received in said bearing socket, radial and thrust bearing elements between said bearing socket and said stub shaft, a tubular cylindrical piston rotatably fitted on the eccentric member within the armature member, and a vane carried by the armature member and slidable in said piston.

2,420,125
KEY GUARD

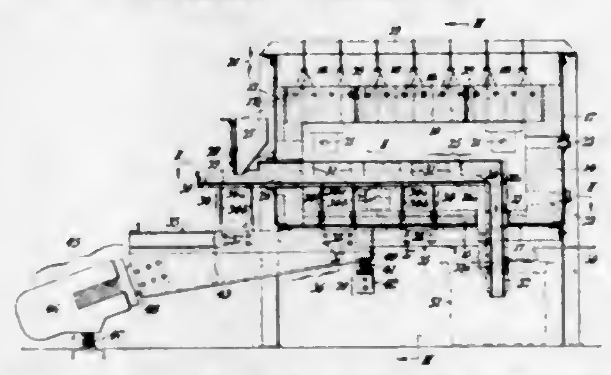
James J. Crist, Rockford, Ill.
Application July 6, 1945, Serial No. 603,485
3 Claims. (Cl. 248—203)



1. A device of the character described, comprising in combination an enclosure consisting of a rear wall, a top plate and two side plates, a transparent front plate, means for inserting the transparent front plate into said top and side plates, a retaining member slidably engaging the side members, a bottom plate attached to said retaining member, a resilient member extending outward from said rear wall, said retaining member provided with an aperture therethrough registering with said resilient member, said resilient member engaging said aperture, and means on said retaining member for supporting the object to be protected.

2,420,126
HEAT-TREATING FURNACE

Harold E. Curli, Norristown, and Pierson K. Smith, Plymouth Meeting, Pa., assignors to Vulcan Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application April 17, 1945, Serial No. 588,786
7 Claims. (Cl. 263—21)



1. A furnace of the character described including a treating chamber with means for heating it; a hearth for the material to be treated within the chamber; carriage means outside the chamber with supports extending therefrom through clearance openings in a wall of the chamber floor; means for vibrating the carriage with the supported hearth to effect progression of the material within the chamber; and vent means in a wall of the chamber instrumental in creating upward drafts of air from beneath the furnace through said clearance openings to cool the hearth supports.

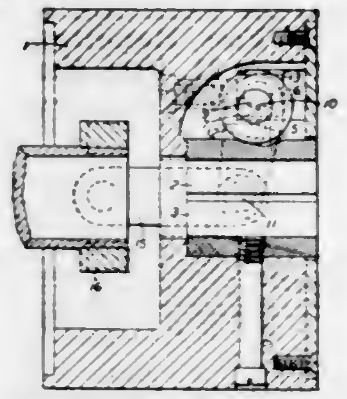
2,420,127
CORROSION PREVENTIVE COMPOSITION

George L. Doelling, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 17, 1944, Serial No. 527,002
2 Claims. (Cl. 106—14)

2. A composition of matter consisting approximately of 64% by weight of blown castor oil, 26% by weight of isopropanol, 4.5% by weight of calcium ricinoleate, 2.7% by weight of sodium ricinoleate, 0.8% by weight of potassium ricinoleate, and 1.7% by weight of water.

2,420,128
COLLET CHUCK

George Fisher, Leeds, England
Application August 4, 1944, Serial No. 548,032
In Great Britain October 8, 1943
6 Claims. (Cl. 279—44)



1. A collet chuck comprising in combination a pair of gripping collets or jaws, one fixed and

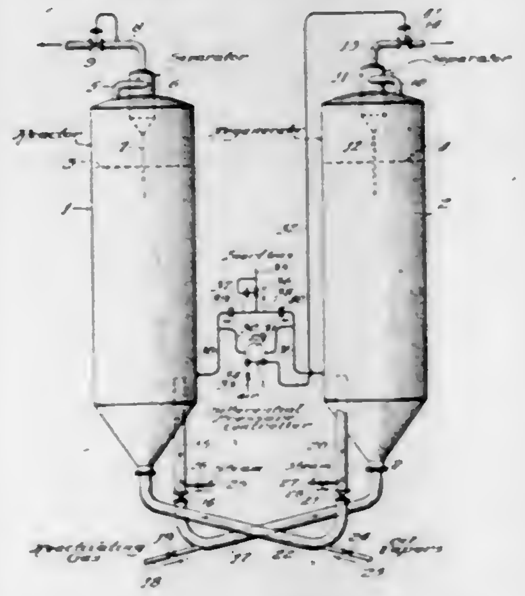
the other adjustable relatively thereto, a system of levers for adjusting the adjustable collet, the levers being in two halves each correspondingly mounted on either side of the collets or jaws and carrying a roller which bears upon a cam surface on the adjustable collet or jaw.

2,420,129

CONTROLLING THE FLOW OF FLUIDIZED SOLIDS AND LIQUIDS

Bernard J. Flock and Clarence G. Gerhold, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application October 23, 1942, Serial No. 463,060
13 Claims. (Cl. 23—1)



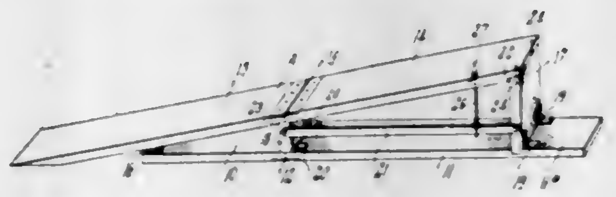
7. In a process wherein fluidized beds of subdivided solid material are maintained in separate confined zones, a confined stream of the solid material being continuously removed from the bed thereof in each zone through a restriction and commingled on the downstream side of said restriction with a gaseous medium which effects transportation of the subdivided solid particles of said stream into the other zone, the method of maintaining a substantially constant pressure drop through each of said restrictions, to maintain a substantially uniform rate of circulation for said subdivided solid material between said zones, which comprises measuring the differential pressure existing between said zones at points adjacent and on the upstream side of said restrictions and controlling the gas outlet pressure in one of said zones in response to minor variations in said differential pressure.

2,420,130

APPARATUS FOR JACKING UP AND LOWERING MOTOR VEHICLE WHEELS

George H. Foss, Hamilton, Mass.

Application October 31, 1944, Serial No. 561,257
9 Claims. (Cl. 254—88)



9. A jacking apparatus for motor vehicles comprising a foldable ramp having two base panels hinged together so that they can be extended in alinement with each other and folded face to face, a runway formed with two panels hinged together so that they can be extended in alinement and folded into superposed relation, one of said runway panels being hinged to the extremity of one of the base panels in a position such that the major portion of the runway panels overlie the base panels, and displaceable braces between the base panels and the runway panels disposed to support the latter at a prescribed inclination to the base panels, combined with an axle support disposed to receive and uphold an axle of such a vehicle when the wheel associated with such axle runs off the higher end of the alined runway panels, the ramp being placeable with the lower end of its alined runway panels beneath the wheel upheld by said support, and a traction band having a loop at one end adapted to embrace and engage one of said braces when the band is laid lengthwise along the runway panels, the band having a length sufficient to wrap around the tire of said wheel and to be overlapped on that part of the band which extends between the wheel and the ramp.

2,420,131

PROCESS FOR CONVERTING NOPINENE TO MYRCENE

Leo A. Goldblatt and Samuel Palkin, Washington, D. C.; dedicated to the free use of the People in the territory of the United States

No Drawing. Application December 12, 1940, Serial No. 369,836
4 Claims. (Cl. 260—677)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

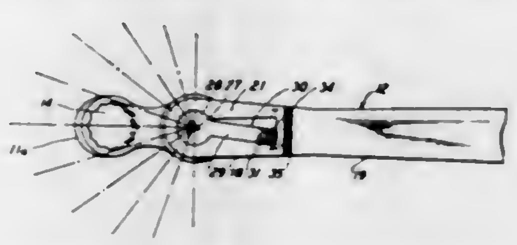
1. The method of producing a product containing as its essential active ingredient myrcene, the step comprising vaporizing nopinene, passing the vapor over a period of about 5 seconds through a reaction zone maintained at a temperature of about 370° to 425° C., and promptly cooling the reaction vapor to a liquid condensate.

2,420,132

DETACHABLE HEAD WRENCH

Michael Gryniuck, Los Angeles, Calif.

Application November 27, 1945, Serial No. 631,142
5 Claims. (Cl. 81—58)



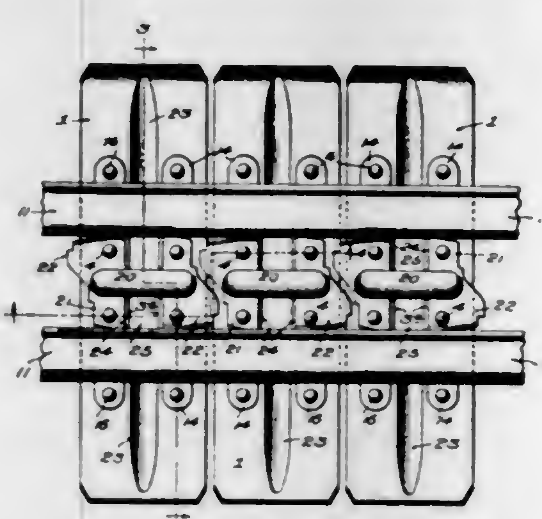
1. In a device of the kind described, a head provided with a nut receiving aperture and a shouldered handle receiving socket extending in a parallel spaced relation to said nut receiving aperture, a handle, means detachably securing said handle to said head, said means comprising a shouldered projection extending from one side of said handle and fittable within the socket of said head, the shoulders of each of the projection and socket interlocking with each other when operatively connected to maintain a fixed relation of the parts when assembled, locking means for securing said head and handle when associated as aforesaid, said locking means including a rockable locking part forming a continuation of said shouldered projection and provided with shoulders to register with the shoulders of said projection when the latter is being inserted within the socket of said head, and means carried by said handle and operatively connected to said locking part to rock it to unregister its shoulders with the shoulders of said projection and in turn register them with the shoulders of said shouldered socket, there being an unshouldered space forming a continuation of the shouldered socket in the head providing for the free movement the locking part to and from a locking position with the shoulders of said shouldered socket.

2,420,133

TRACK FOR TRACK-LAYING VEHICLES

Eugene J. Hardig, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware

Application August 19, 1944, Serial No. 550,252
3 Claims. (Cl. 305—10)



1. In a band track, the combination of a track shoe, a sprocket wheel guide member including a guiding element and mounted on said track shoe, the area transversely adjacent to said guide element being adapted for engagement by sprocket teeth, the transverse edges of said guide member being formed each with a projection extending in the direction of travel, the projections on a given block being substantially in diagonally opposite relation, whereby similarly shaped successive blocks form irregular juncture lines across the direction of travel.

2,420,134

COATING COMPOSITION COMPRISING PHENOL-FORMALDEHYDE RESIN IN A MIXTURE OF SOLVENTS

Charles H. Hempel and Francis J. Ploederl, Manitowoc, Wis., assignors to Heresite & Chemical Company, a corporation of Wisconsin

No Drawing. Application October 18, 1943, Serial No. 506,727
2 Claims. (Cl. 260—30)

1. A resinous coating composition comprising an oil-free polymerizable phenol formaldehyde resin substantially completely dissolved in a solvent consisting of:

	Parts
Steam-distilled pine oil	18
Ethyl alcohol	50
Butyl alcohol	32

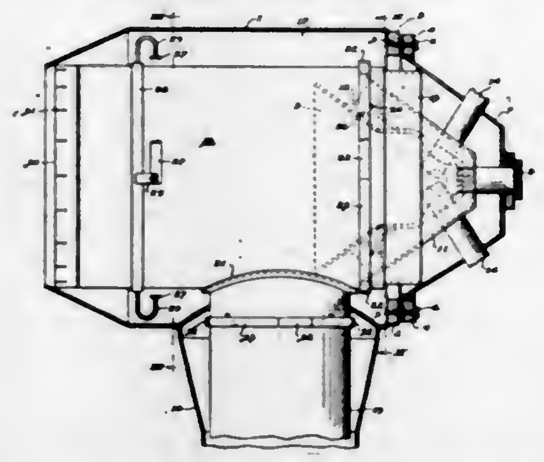
the proportion of resin to solvent being such to produce a composition having a viscosity between 18 to 40 seconds as determined by Ford viscosity cup No. 4.

2,420,135

SUPPORT FOR EXPANSIBLE MEMBERS

Fritz O. Hennig, Greensburg, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania

Application June 7, 1944, Serial No. 539,207
8 Claims. (Cl. 263—19)



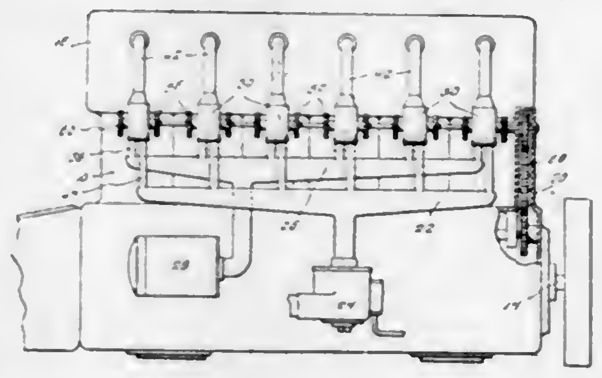
1. A combustion chamber comprising two spaced concentric shells, a burner at one end of the inner shell, the opposite end of the outer shell being conical and substantially engaging the adjacent end of the inner shell, said adjacent end of the inner shell being provided with a plurality of inwardly extending and circumferentially spaced slots, and at least three flexible bars between the shells at the burner end, said bars being symmetrically disposed non-radially of the inner shell with their inner ends connected thereto at spaced intervals around it, all of said bars extending away from the inner shell in the same circumferential direction with their outer ends connected to the outer shell.

2,420,136

SIX CYCLE ENGINE

Ralph H. Hill, Flint, Mich.

Application October 11, 1944, Serial No. 558,171
3 Claims. (Cl. 123—64)



1. In a multi-cycle internal combustion engine, the combination with a plurality of firing chambers, each chamber being provided with an intake port, a fuel mixture intake, and an undiluted air intake, of a valve means for each of said chambers in association with said fuel intake and said air intake and connected to said chambers, said valve means including a casing provided with a pair of inlet ports contiguously arranged with respect to each other and having an outlet port suitably spaced from said pair of inlet ports, a valve element intermediate said pair of inlet ports and said outlet port and operable so as to cause said inlet ports to be alternately brought into communication with said outlet port, means for connecting one of the pair of said inlet ports to said fuel intake, means for connecting the other of said pair of inlet ports to said air intake, means for connecting said out-

let port to the intake port of the firing chamber complemental thereto, and actuating mechanism in operative association with the valve element of each of said valve means for causing alternate movement of each of the latter to thereby shift each of the pair of inlet ports into and out of communication with the outlet port complemental thereto.

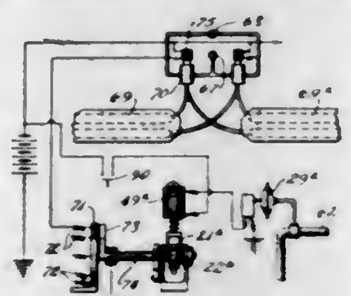
2,420,137

INFLATION APPARATUS FOR ELIMINATING ICE FROM AIRFOILS

Willson H. Hunter, Lakewood, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application December 4, 1943, Serial No. 512,866

12 Claims. (Cl. 244—134)



1. Apparatus for supplying air under pressure to a plurality of inflatable units, said apparatus comprising means for supplying air under pressure to the inflatable units, suction-producing outlet means and means responsive to the pressure of air in a unit under inflation for connecting said unit with said suction-producing outlet means and connecting the air-supplying means with another unit.

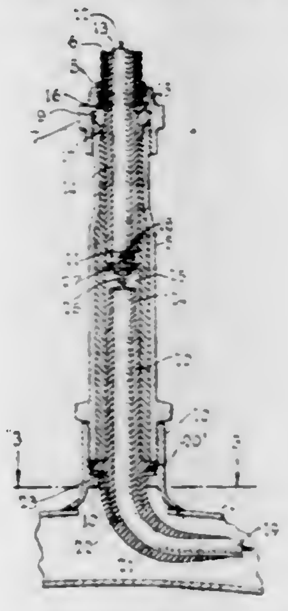
2,420,138

LEAD-IN DEVICE FOR MANIFOLD OF IGNITION HARNESS

David Ingalls, Westfield, N. J., assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of Delaware

Application September 21, 1943, Serial No. 503,207

2 Claims. (Cl. 174—35)



1. The combination with the manifold of a radio shielded ignition harness for an internal combustion engine, of a cable therein, said manifold having an outlet and said cable being bent to pass through said outlet and an elbow about said cable at its bend, said elbow being of premolded insulation and conducting means associated therewith, said elbow having a flange and means for clamping said flange to said manifold and said conducting means in electrical connection with said manifold, said conducting means being embedded in said insulation throughout at least part of the radius of bend of the elbow but in part exposed.

2,420,139

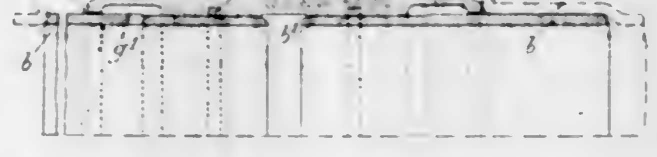
PIPE JOINT

Frederick Robert Kelly, Shipston-on-Stour, England, assignor to Iraq Petroleum Company Limited, London, England

Application July 8, 1944, Serial No. 543,991

In Great Britain December 30, 1943

5 Claims. (Cl. 285—111)



1. A coupling adapted to be welded into a pipe line comprising a sleeve and an inner length of pipe threaded thereinto in a fluid-tight manner, a welded joint connecting the sleeve and length of pipe the sleeve being recessed internally for a portion of its length so that the reduced portion thus formed may be parted by a suitable cutting tool after which the adjacent pipe length may be turned without breaking the threaded connection and the parting in the sleeve subsequently made good by welding.

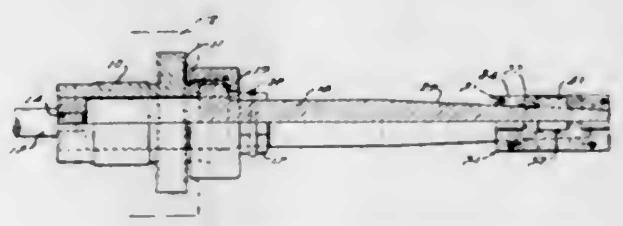
2,420,140

MEANS FOR MACHINING RECTANGULAR APERTURES

John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan

Application August 25, 1943, Serial No. 499,971

15 Claims. (Cl. 51—184.3)



1. A noncircular machine tool having a driving head, an adjusting head movable relative to said driving head, a central supporting plate carried by said driving head, cam elements disposed on opposite sides of said plate and carried by said adjusting head for movement longitudinally of said plate, and machining elements forming a continuous cutting surface about the entire perimeter of the tool supported against longitudinal movement by said plate in engagement with said cam elements which produces their lateral movement when adjusted in such manner as to retain the perimetrical form of the elements.

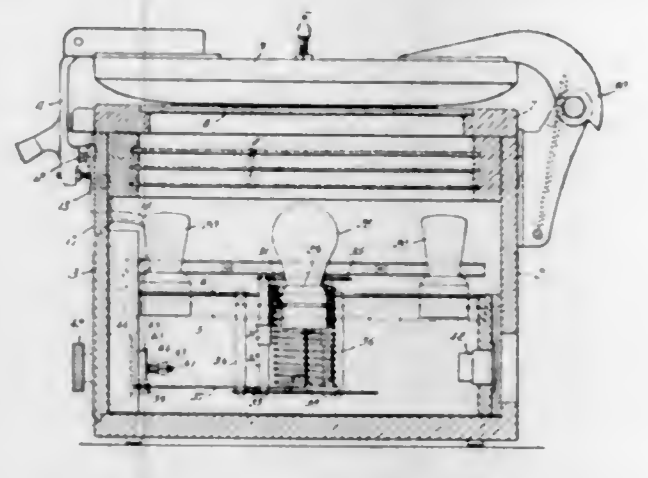
2,420,141

PHOTOGRAPHIC PRINTER

Lew W. Lessler, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application October 30, 1943, Serial No. 508,276

7 Claims. (Cl. 95—75)



1. A photoprinting apparatus comprising a support for a negative and sensitized paper, a platen mounted to move toward and away from said support to press the paper and negative, a lamp beneath the center of said support, a spring supporting said light, said spring normally urging said lamp towards said support, vertical guide means for said lamp adapted to maintain said lamp in position laterally while permitting vertical movement thereof, a flexible connector secured to said lamp, and retaining means for said flexible connector whereby said center lamp may be raised towards said support or lowered away from said support and held in position.

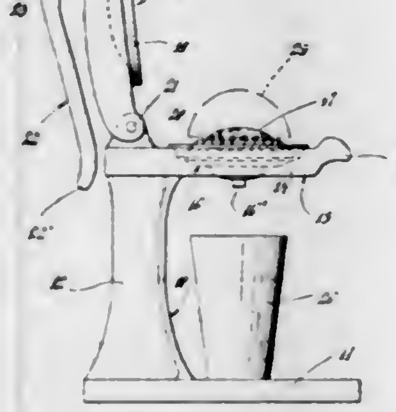
2,420,142

FRUIT SQUEEZER

David Levin, Brooklyn, N. Y.

Application August 5, 1944, Serial No. 548,173

3 Claims. (Cl. 100—41)



1. In a fruit squeezer, a frame, a stationary jaw extending from the frame, a moveable jaw pivotally mounted at one of its ends on the frame; said jaws being adapted to receive an uncrushed fruit between them when separated, a lever having a cam at one end and a link pivotally secured at its ends respectively to the moveable jaw and at a point on the lever near the cam, a lip provided on the stationary jaw with which the cam is adapted to engage, said lip and cam being so constructed and arranged that upon manual manipulation of the lever, the cam is adapted to contact the lip on the stationary jaw while the fruit is substantially in condition as when initially placed between the jaws and by movement of the lever in one direction during such contact, the moveable jaw will move towards the stationary jaw, whereby the fruit between the jaws is crushed.

2,420,143

PROCESS FOR THE MANUFACTURE OF A POLYCYCLIC HYDROCARBON

William J. Mattox, La Grange, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 31, 1944, Serial No. 561,318

13 Claims. (Cl. 260—668)

1. A process for the manufacture of a polycyclic hydrocarbon which comprises subjecting a secondary butyl benzene to the action of a dehydrocyclization catalyst, comprising a compound of an element selected from the left-hand columns of groups V and VI of the periodic table, under dehydrocyclization conditions.

2,420,144

SCALE RESISTANT CONCRETE AND CEMENT

Jacob G. Mark, Brookline, Mass., assignor to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application February 18, 1942, Serial No. 431,448

10 Claims. (Cl. 106—94)

1. A concrete or mortar mix adapted to yield concrete or mortar of enhanced resistance to freezing and thawing comprising an hydraulic cement, aggregate and not more than 0.050% of tall oil, by weight on the cement.

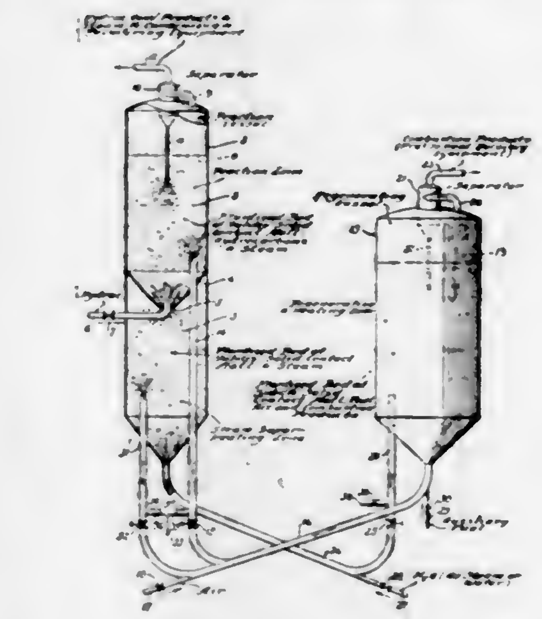
2,420,145

PROCESS FOR CONVERSION OF HYDROCARBONS AT HIGH CRACKING TEMPERATURE

Jerry McAfee, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 12, 1943, Serial No. 478,935

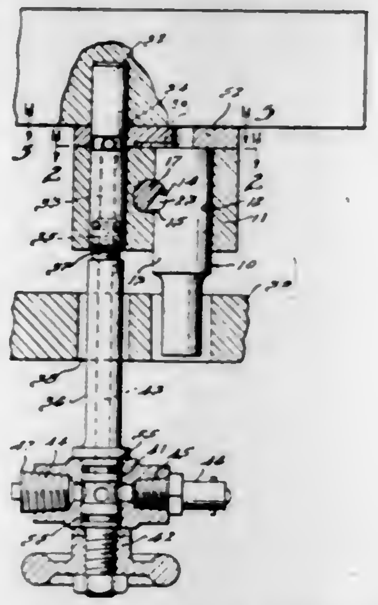
7 Claims. (Cl. 260—680)



1. A process for the conversion of hydrocarbons at high cracking temperature and low pressure to produce more valuable normally gaseous hydrocarbons, including butadiene, which comprises continuously circulating a mass of subdivided solid contact material between and through a confined reaction zone, a confined combustion zone and a confined steam superheating zone in series and in the order named, effecting said conversion of the hydrocarbons in said reaction zone by their contact with the mass of subdivided solid material passing therethrough, with the resulting deposition of combustible contaminants on

the contact material, burning said combustible contaminants from the contact mass in the combustion zone by contacting the same with oxidizing gas, thereby heating the contact mass to a high temperature, passing steam through the steam-superheating zone and therein heating the same to substantially the temperature desired for conducting said hydrocarbon conversion reaction by its contact therein with hot contact material supplied thereto from the combustion zone, and passing the resulting highly heated steam through the reaction zone in admixture with said hydrocarbons.

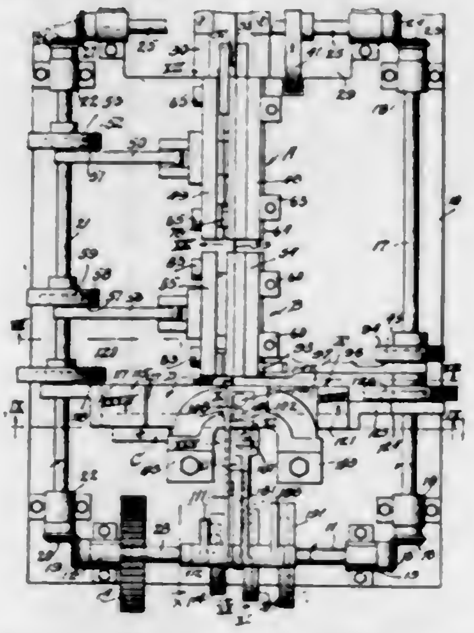
2,420,146
LOCKING AND EJECTING DEVICE
Otto Mueller, Dearborn, Mich.
Application September 21, 1945, Serial No. 617,773
17 Claims. (Cl. 164—124)



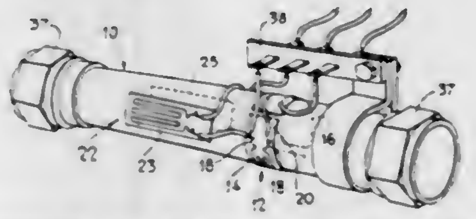
1. A holder having a punch-receiving aperture and an aperture disposed normal thereto and in intersecting relation therewith, a locking bar in said second aperture having a recess therein providing a wall portion aligned with the wall of the punch-receiving aperture when in one position, the punch having a notch for receiving said locking bar when said locking bar is rotated from said one position for locking the punch within the punch-receiving aperture, and fluid means for actuating said locking bar to release the punch and for applying pressure in said punch-receiving aperture thereafter for ejecting the punch therefrom.

2,420,147
MEANS AND METHOD FOR MAKING METALLIC CARTRIDGE BELT LINKS
Eric K. Norgren, Chicago, Ill., assignor, by mesne assignments, to United States Government, as represented by the Secretary of War and his successors in office
Application March 20, 1942, Serial No. 435,452
8 Claims. (Cl. 59—35)

1. A machine for producing by progressive stages metallic cartridge belt links of the type described from flat plate strip, comprising in combination a first, a second and a third die assembly, power means for operating said die assemblies in synchronism with each other, means adapted to feed the flat plate strip progressively through said die assemblies, punching means in the first die assembly adapted to form a pair of spaced openings in the flat strip plate within the confines thereof, means in said first die assembly and spaced from said punching means in the direction of feeding movement of the flat plate strip for cutting the links in substantially flat condition out of sheet metal stock with the tongues from which the hinge loops of the links are to be formed each joined at their ends to the body portion of the succeeding link, said punching means cooperating with said openings for holding said strip accurately aligned in said first die assembly during operation by said cutting means, means in said second die assembly effective during such formation of the link to define a transverse holding channel at the base of the link tongues from which the cartridge holding loops are to be formed, a holding means in the second die assembly for engaging the spaced openings of the strip for maintaining the same accurately aligned in said second die assembly during operation of the means forming the transverse holding channel, said third die assembly comprising a pair of arbors and die structures cooperable therewith, holding means on one of said die structures engageable in said holding channel of a link to hold said link properly aligned on said arbors preparatory to forming engagement of said die structures with the link, and forming elements on said die structures cooperable to bend the two tongues on the link around one of said arbors into circular or loop form and the other tongue around the other arbor into circular or loop form to produce the finished link.

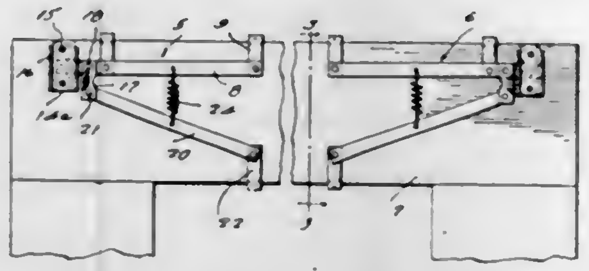


2,420,148
PRESSURE INDICATOR
Ralph H. Ostergren, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application November 8, 1943, Serial No. 509,531
5 Claims. (Cl. 177—351)



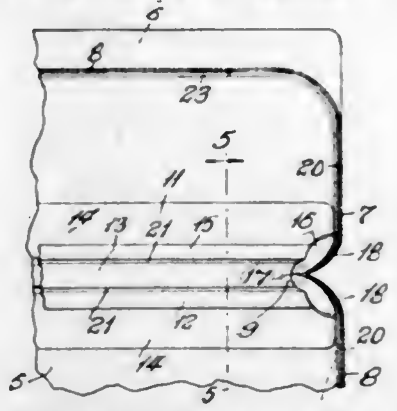
1. A pressure indicator for measuring pressure variations in a hollow body comprising: a length of tube having a portion thereof formed to yield or distort to a greater degree than said body under internal pressure; means for connecting said tube to said body so that said tube is responsive to variations in pressure within said body; a length of fine resistance wire wound into a grid formed as a plurality of closely spaced parallel lengths of wire, each pair of wires forming at one end small loops at alternately opposite ends of the grid; a backing of thin nonconductive material to which the grid is cemented throughout its extent, the backing being cemented throughout its extent to the surface of said tube so that the lengths of wire lie in the direction of strain of the material under the action of pressure acting within said tube and transversely to the longitudinal axis of the tube; a second length of resistance wire formed into a grid mounted on a backing similarly to said first mentioned grid and similarly mounted on the length of tube, the grids being arranged on opposite sides of said tube; a third length of fine resistance wire wound into a grid cemented to a backing similarly to said first mentioned grid and mounted on the tube exterior surface adjacent but at right angles to said first mentioned grid; a fourth length of fine resistance wire formed into a grid mounted on a backing similarly to said first and second grids and mounted adjacent but at right angles to said second grid; lead wires attached to the end wires of said grids with the points of connection of said lead wires cemented to said backings; and electrical indicating means to which said leads are attached, the grids being connected in the electrical circuit so that the resistances of the grids arranged so that the lengths of wire lie in the direction of strain of the material under the action of pressure acting within said tube and transversely to the longitudinal axis of the tube are additive while the changes of the resistance of the grids arranged at right angles to said first mentioned grids cancel one another so that the reading of said electrical indicating means is a measure of the pressure in the tube substantially free from error due to changes in resistance caused by bending of the tube.

2,420,149
COMBINED CURTAIN, DRAPE, AND SHADE BRACKET
Henry U. L. Parks and Henry E. Parks, Indianapolis, Ind.
Application February 19, 1946, Serial No. 648,651
6 Claims. (Cl. 248—252)



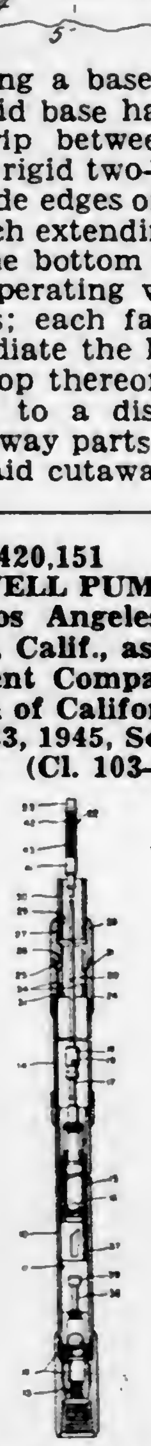
3. A combined curtain, drape and shade fixture comprising a longitudinally extending arm for positioning against the front face of a window frame, clamping means on said arm for clamping engagement with the upper edge of said frame, a vertically disposed plate carried by the outer end of said arm, a bracket having a pair of spaced outwardly projecting pegs for support of the ends of curtain and drape rods and secured to said plate, a second bracket for supporting an end of a shade roller arranged on said arm contiguous to said plate and carried by said arm, and a second longitudinally extending arm having an end thereof connected to said second bracket and having its opposite end provided with a clamping means for clamping engagement with the lower edge of said frame.

2,420,150
HAND-CARRIED LUGGAGE
John Riess, St. Louis, Mo., assignor to Henry Hotze & Sons Company, a corporation of Missouri
Application August 18, 1944, Serial No. 550,103
1 Claim. (Cl. 190—48)



A luggage bag having a base with a part cut away at each end; said base having a relatively rigid longitudinal strip between said cutaway parts and a relatively rigid two-part bottom wall hinged to respective side edges of the strip; a pair of opening sections each extending from a respective hinged part of the bottom wall; and a pair of slide fasteners cooperating with the meeting edges of said sections; each fastener extending from a point intermediate the length of each of said sections at the top thereof, down the ends of said sections and to a distance projecting within respective cutaway parts of the base; and means for covering said cutaway parts.

2,420,151
OIL WELL PUMP
Ralph R. Renouf, Los Angeles, and Frank E. Mason, South Gate, Calif., assignors to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California
Application March 23, 1945, Serial No. 584,430
14 Claims. (Cl. 103—221)

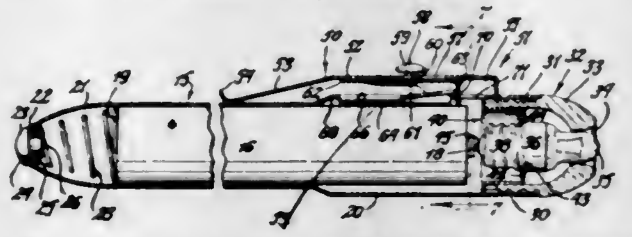


1. In a pump structure of the character described, adapted to be connected to the lower end of a string of tubing in a well, the combination of: a working barrel; a tubular extension projecting upward from said barrel; a standing valve at the lower end of said barrel; a plunger operative in said barrel; standing valve lifting means operative between said plunger and said standing valve whereby said standing valve may be lifted; sucker rod means for operating said plunger in said working barrel and for lifting

said plunger into said tubular extension, there being a space provided by said tubular extension through which liquid may flow down past said plunger when it is raised into said tubular extension; and means for holding said plunger raised into said extension during the time the tubing and the pump are being raised from the well.

2,420,152
FLASHLIGHT

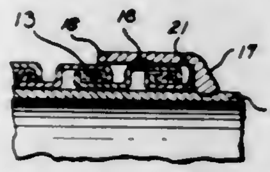
Lewis G. Sherwood and Charles E. Wohler, Niagara Falls, N. Y., assignors to Niagara Searchlight Company, Inc., Niagara Falls, N. Y., a corporation of New York
Application April 6, 1944, Serial No. 529,756
3 Claims. (Cl. 240—10.68)



1. An elongated pocket flashlight, comprising a tubular metal casing adapted to receive cylindrical batteries and having an electric light at one end, a clip fastened to one end of said casing and having a spring finger extending toward the other end thereof to permit of clipping the casing to the wall of the user's pocket, a hairpin switch contact slidingly mounted between said clip and casing for movement longitudinally of said casing, said hairpin switch contact having one leg yieldingly pressing toward the inner face of said clip and its other leg yieldingly pressing toward the wall of said casing, a contact finger formed integrally with said other leg and extending through an elongated slot in said casing, a finger piece slidingly mounted on said clip and operatively connected with said switch contact, and means operatively connecting said contact finger with said batteries and electric light to establish a circuit therethrough when moved to one extreme position in its slot.

2,420,153
FLEXIBLE EXHAUST CONDUIT ASSEMBLY

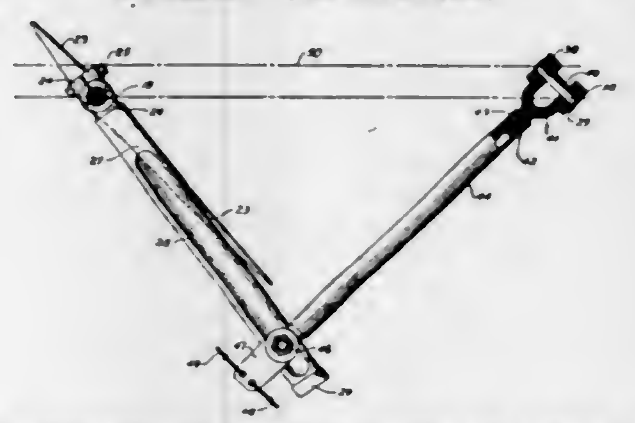
Harold A. Sprenger and Joseph R. Greene, San Diego, Calif., assignors to Solar Aircraft Company, San Diego, Calif., a corporation of California
Application December 3, 1943, Serial No. 512,744
1 Claim. (Cl. 285—72)



A flexible conduit assembly comprising: a section of flexible metal tubing consisting of interlocking turns of thin sheet metal; a terminal fitting having a metal nipple telescoped within the end portion of said tubing and of substantially greater thickness than said thin sheet metal of said tubing; a metal collar also of substantially greater thickness than said thin sheet metal and surrounding the end portion of said tubing, the outer end of said collar being substantially flush with the end of said tubing; and an annular fillet of weld metal extending from said nipple to said collar and fused to said nipple, collar and tubing, at least said tubing and fillet being of metal having the same fusing temperature.

2,420,154
RUDDER CONTROL LINKAGE

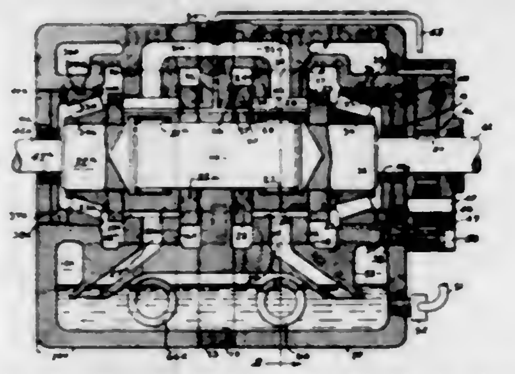
Roderick Stephens, Jr., New York, N. Y.
Application January 4, 1945, Serial No. 571,321
5 Claims. (Cl. 114—144)



5. In rudder control mechanism for boats having a hull, the combination of a rudder post pivotally mounted upon said hull, a rudder carried by said rudder post, a lever secured to said rudder post and extending generally radially therefrom, said lever having thereon connection engaging means extending axially of said lever, a tiller pivotally mounted at one end upon said hull and carrying on its other end means for controlling its motion, and a pivoted connection also mounted at said other end of said tiller and engaging said connection engaging means on said lever, said connection being slidable on said connection engaging means and occupying positions on said lever at points variously spaced from said rudder post in different angular positions of said rudder.

2,420,155
CONTROL MECHANISM FOR HYDRAULIC TRANSMISSIONS

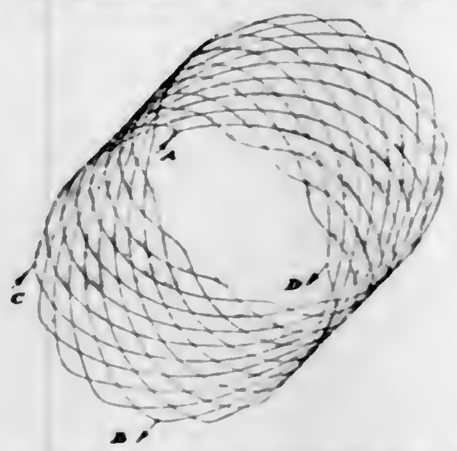
Warren R. Tucker, Oakwood, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application May 31, 1941, Serial No. 396,033
6 Claims. (Cl. 60—53)



2. A hydraulic transmission comprising; a pump unit consisting of a cylinder, a rotor disposed within said cylinder and having a plurality of vanes movable therein and extending therefrom into engagement with the walls of said cylinder, spring means for moving said cylinder with respect to said rotor to position the same eccentrically thereto and place said pump unit on full stroke position, servomotor means opposing said spring means for moving said cylinder to place the same on neutral stroke position, a pilot pump drivingly connected to the pump unit adapted to be driven thereby whenever the pump unit is in operation, means for regulating the maximum pressure produced by said pilot pump, means connecting said pilot pump to said servomotor for conducting fluid to said servomotor for actuating the same, manual means for initiating actuation of said servomotor whereby said fluid from said pilot pump can complete actuation thereof and thus move said cylinder to pre-set the position of the cylinder with respect to said rotor and control the volume delivery of said pump unit; a motor unit consisting of a cylinder, a rotor disposed within said cylinder and having a plurality of vanes movable therein and extending therefrom into engagement with the walls of said cylinder, spring means for moving said cylinder with respect to said rotor to position the same eccentrically thereto and place said motor unit on full stroke position, manual means opposing said spring means for moving said cylinder to pre-set the position of the cylinder with respect to said rotor and control the output speed thereof; means connecting said pump unit and said motor unit in a closed fluid circuit relationship; and means connecting the discharge side of said pump unit with said servomotor to apply the discharge pressure thereupon to overpower said pump unit spring means whenever the discharge pressure from the pump unit is greater than the force exerted by the pump unit spring means.

2,420,156
DEVICE FOR ELECTROMAGNETIC DEFLECTION OF A CATHODE-RAY

Harold van Suchtelen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 23, 1943, Serial No. 480,181
In the Netherlands August 31, 1939
5 Claims. (Cl. 250—156)



1. A coil structure for producing a magnetic field for deflecting the cathode ray beam of a cathode ray tube comprising a coil composed of a series of active conductors spaced from each other about the circumference of said coil, a second series of active conductors spaced around the circumference of said coil and angularly inclined with respect to the first series of conductors, end connections joining one conductor of a series to a conductor of another series in a manner to produce a closed winding and terminal connections for said closed winding providing parallel paths for deflecting currents in said winding, the angular spacing of said terminals being selected to produce resultant fields of maximum flux and zero flux alternating progressively about said winding.

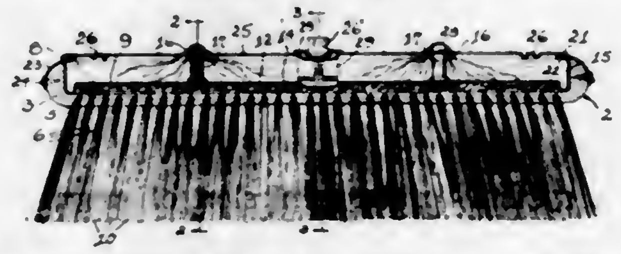
2,420,157
RESIN FINISHING OF TEXTILES

Herbert J. West, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 12, 1943, Serial No. 475,670
3 Claims. (Cl. 117—161)

1. A method of finishing textiles which comprises impregnating them with an aqueous solution of a quaternary ammonium salt of a melamine-formaldehyde condensation product and then subjecting the textiles to heating at temperatures above 80° C. to decompose the quaternary ammonium salt and set the resin on the textile fibers.

2,420,158
SWEEPING BROOM

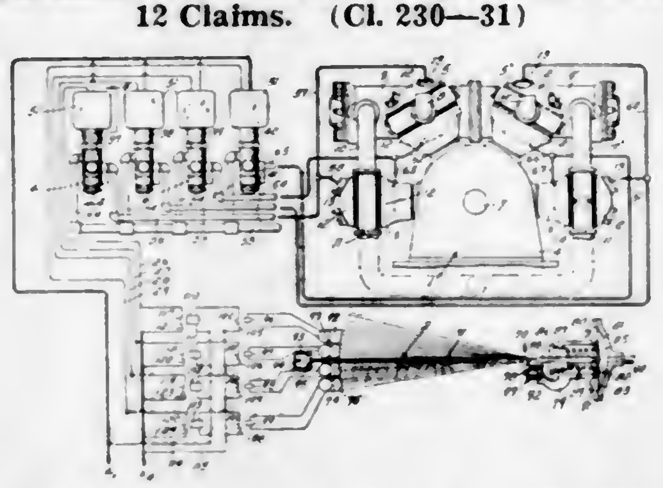
Johnnie S. Wilson, Cleveland, Ohio
Application December 30, 1944, Serial No. 570,613
3 Claims. (Cl. 15—131)



1. In a broom a back member, tufts secured to said back member so that their butt ends are openly exposed, a master wick in said back member opposite the butts of said tufts, a liquid storage means supported on said back member above said master wick, narrow tubular means in said liquid storage means having its lower end extended through and attached to the bottom wall of said liquid storage means and its upper end terminating adjacent to the top edge of said liquid storage means, wick feeder means extended from said master wick through said narrow tubular means into said liquid storage means, a cover member for said liquid storage means including a downwardly shiftable portion opposite the upper edge of said tubular means, and means to shift said shiftable portion of said cover member toward the upper edge of said tubular means to pinch said wick feeder means and effect control of the amount of liquid carried by capillary attraction of the wick feeder means from said liquid storage means to said master wick.

2,420,159
COMPRESSOR UNLOADER MECHANISM

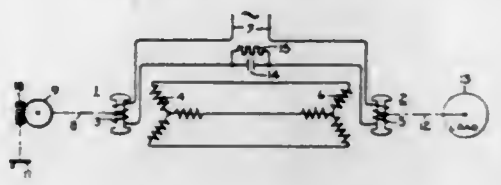
Wade H. Wineman, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application December 30, 1943, Serial No. 516,139
12 Claims. (Cl. 230—31)



1. In a pumping mechanism, in combination, a pump, driving means for said pump, fluid actuated unloading means for said pump for effecting unloading while drive continues, means for controlling the flow of operating fluid relative to said unloading means including an element responsive to radiant energy, means for producing a beam of radiant energy, and means controlled by the discharge pressure of said pump for directing said beam of radiant energy upon said element when the discharge pressure reaches a predetermined maximum value.

2,420,160
SELF-SYNCHRONOUS SYSTEM FOR TRANSMITTING ANGULAR MOTION

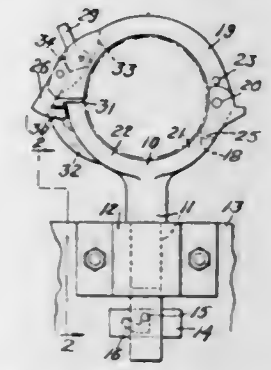
Arthur P. Adamson, Ballston Spa, N. Y., assignor to General Electric Company, a corporation of New York
Application March 7, 1946, Serial No. 652,574
6 Claims. (Cl. 318—23)



1. A system for transmission of angular motion comprising transmitter and receiver devices, said devices each having relatively rotatable primary and secondary windings, the secondary windings of both of said devices having similar polyphase connections which are electrically connected, an excitation circuit for electrically connecting the primary windings of said devices to a source of periodically varying current, said circuit including capacitive reactance means so dimensioned that when the rotary windings of said devices are in a position of angular correspondence, the excitation circuit for said primary windings is tuned approximately to resonance, said excitation circuit being detuned upon a substantial departure of the rotary windings from a correspondence position due to a change in inductive reactance of the primary windings whereby the maximum pull-in torque of said devices is limited and the stability of the system improved while maintaining a relatively high torque gradient near the correspondence position required for high correspondence accuracy of said devices.

2,420,161
OARLOCK

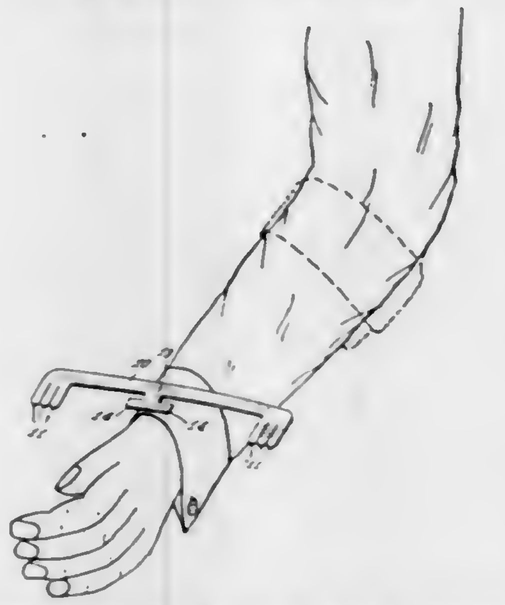
John A. Aldrich, Hampton, N. H.
Application December 11, 1945, Serial No. 634,231
6 Claims. (Cl. 9—26)



1. An oarlock comprising a yoke member provided upon its exterior with a stem to occupy a socket provided upon the gunwale of a boat; an interiorly arcuate oar-embracing closure member pivotally connected with one arm of said yoke member adjacent to the upper end thereof so that it can be swung into either an open or a closed position relatively to said yoke member, said closure member having a portion thereof which is disposed within said yoke member when said closure member occupies its open position and through which an oar introduced into said yoke member acts to close said closure member around said oar, and a latch movably mounted on one of said members and engageable with the other member to lock said closure member in its closed position.

2,420,162
SHIRT SLEEVE RESTRAINER

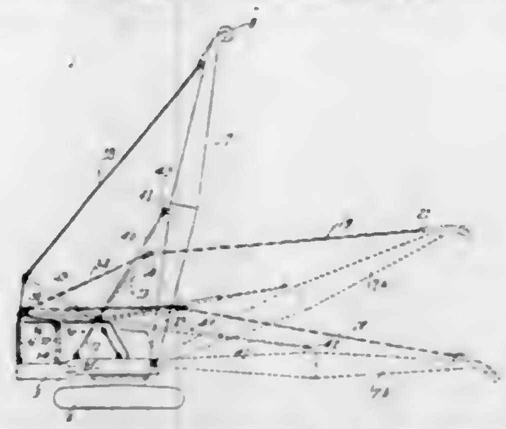
Wilson C. Baker, Madison, Ind.
Application July 2, 1945, Serial No. 602,903
4 Claims. (Cl. 2—269)



1. A restrainer for rolled shirt sleeves, comprising a strip of resilient flexible material having a length approximating the circumferential dimension of a cuff and provided at each end with means alternatively projectible through a cuff button hole or engageable beneath a cuff button in straddling relation with the holding thread therefor.

2,420,163
GANTRY

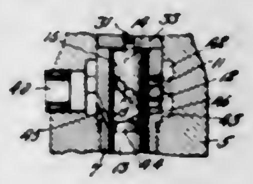
Frederick H. Borsini, Dayton, Ohio, assignor to Marion Power Shovel Company, a corporation of Ohio
Application April 21, 1945, Serial No. 589,561
1 Claim. (Cl. 212—59)



In a machine comprising a platform and a cab on said platform, a boom mounted on said platform for movement about an axis transverse to its length, a gantry comprising two base members mounted on said platform in the rear of the pivotal axis of said boom, spaced laterally one from the other and extending above the top of said cab, a shaft mounted on said base members above the top of said cab and spaced rearwardly a substantial distance from said axis of said boom, and a mast including side members mounted on said shaft for fore and aft movement about the axis thereof, a supporting connection of normally fixed length between the upper end of said mast and said boom, a sheave supporting member arranged between and pivotally mounted on the upper portions of the side members of said mast, a plurality of sheaves carried by said supporting member, a rigid frame comprising laterally spaced elongate arms mounted on said shaft and extending rearwardly therefrom, means for rigidly connecting the rear portions of said frame with said platform, a sheave supporting member arranged between and pivotally mounted on the rear portions of said elongate arms of said frame, a plurality of sheaves carried by the last-mentioned supporting member, a cable anchored at one end and extending about the sheaves on said supporting members, and a drum mounted on said platform and operatively connected with the other end of said cable.

2,420,164
PUMP

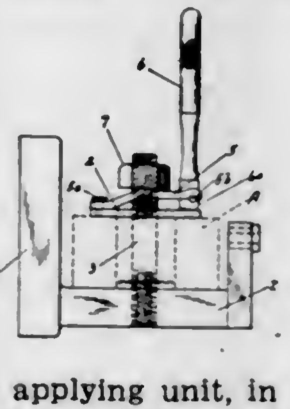
Albert T. Bremser, Sidney, N. Y., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application August 17, 1944, Serial No. 549,877
10 Claims. (Cl. 103—41)



1. In apparatus of the class described, means forming a pressure chamber comprising a cylinder and a reciprocating plunger therein, said cylinder having port means therein communicating with a source of supply and through which flow to and from said chamber is controlled by said plunger, said plunger having means thereon including a helical groove in the surface thereof for connecting said port means to said pressure chamber for terminating the effective pumping stroke of said plunger, an annular groove in the surface of said plunger immediately below the lower end of said helical groove and a port in said cylinder adapted to communicate continuously at its outer end with a region of low pressure outside said cylinder and to communicate at its inner end with said annular groove only when said plunger is near the end of its pumping stroke.

2,420,165
WORK CLAMP

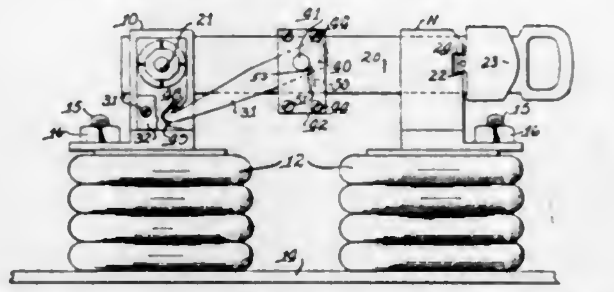
Russel F. Clutter, Cleveland, Ohio, assignor to Glenn Tool & Manufacturing Co., Cleveland, Ohio, a corporation
Application July 24, 1944, Serial No. 546,411
4 Claims. (Cl. 90—59)



1. In a force applying unit, in combination, a relatively stationary plate, a relatively movable plate disposed substantially parallel with the stationary plate, studs connecting adjacent end portions of the plates for limited movement, a cam lever mounted on the opposite end portion of one of the plates and having its cam cooperative with the other plate for causing spreading action of the plates, said plates being formed with slots extending inwardly from the ends thereof connected by said studs.

2,420,166
SAFETY CONTROL DEVICE FOR DISCONNECTING SWITCHES

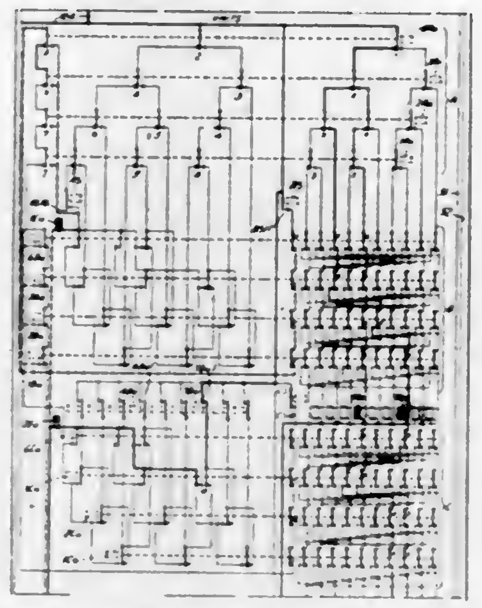
Clement P. Corey and Earl R. Deming, Millbury, Mass.
Application March 1, 1946, Serial No. 651,202
6 Claims. (Cl. 200—169)



1. In a disconnecting switch having a stand and a switch bar pivoted thereto, in combination, a locking projection fixed to said stand, a locking lever pivotally and shiftably mounted on said switch bar and having a locking hook at its free end, and a spring shiftable with said lever to opposite sides of the pivot of said lever and effective to move said hook toward said projection when said switch bar is in closed position and to move said hook away from said projection after said lever has been shifted longitudinally by locking engagement and after said hook has been freed from said locking projection by slight and partial return movement thereof.

2,420,167
RELAY TYPE CROSS-TOTALIZING DEVICE FOR RECORD CARD DATA

Arthur H. Dickinson, Scarsdale, and John N. Wheeler, Hawthorne, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 31, 1943, Serial No. 481,228
7 Claims. (Cl. 235—61.6)

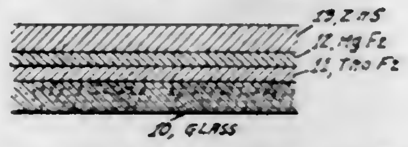


5. In a machine of the class described, three sets of contacts, each settable to represent one of a plurality of digits to be added, electric circuit connections interconnecting said sets of contacts in accordance with the table of addition, a plurality of carry controlling magnets for modifying connections for a higher order in accordance with carry requirements, a set of registering magnets included in said circuit connections, means for transmitting current through said connections, said interconnections directing the current to effect energization of said registering magnets in accordance with the units digit of the sum of the digits set on the sets of contacts, and further

means controlled through said circuit connections for energizing a number of said carry controlling magnets in accordance with the tens digit of the sum of the digits set on the sets of contacts, concurrently with the energization of said registering magnets.

2,420,168
ACHROMATIC LIGHT REFLECTING AND TRANSMITTING FILM

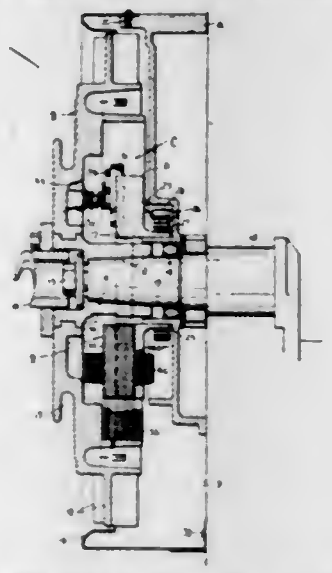
Glenn L. Dimmick, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application December 23, 1943, Serial No. 515,402
6 Claims. (Cl. 88—1)



3. In a partially transmitting optical element including a transparent support, a partially transmitting film on a surface of the support, the film including a layer of material having an index of refraction substantially lower than that of said support and an effective optical thickness of one-quarter of the wave length of blue light and a transparent layer superposed thereon of material having an index of refraction substantially higher than that of said support and an effective optical thickness of one-quarter of the wave length of red light, the film thicknesses and indices of refraction of the materials being such that a substantially achromatic element is produced.

2,420,169
MAGNETO

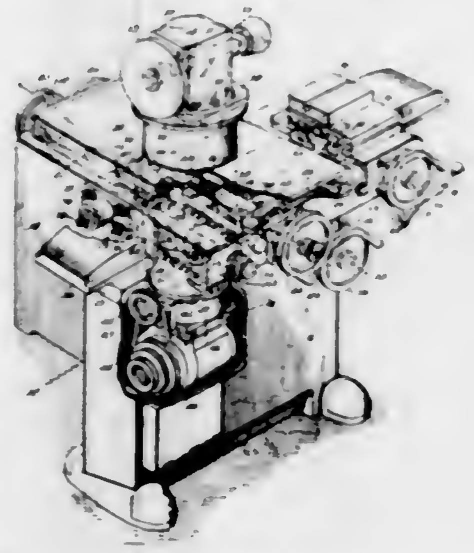
Charles G. Dols, Long Beach, Calif., assignor to D. W. Onan & Sons, Minneapolis, Minn., a partnership composed of C. W. Onan and R. D. Onan
Application October 3, 1945, Serial No. 619,990
6 Claims. (Cl. 171—209)



1. An impulse magneto for an engine having a fixed frame part and a rotating part, comprising a carrier member mounted for oscillating movements upon said fixed part and spring biased to normally stand in one position, a magneto coil carried by said carrier member, a field magnet carried by the said rotating part for travel past the coil as the engine operates and to thereby induce a current in the coil, and means carried by the rotating part for engaging and oscillating the carrier member to a second position and return to said first position when the engine is cranked.

2,420,170
GRINDING MACHINE TOOL CARRIAGE CONTROL

Gustaf Erikson, Benton Harbor, and Eddie Christian Filstrup, St. Joseph, Mich., assignors to Covel Mfg. Co., Benton Harbor, Mich., a corporation of Michigan
Application October 2, 1942, Serial No. 460,556
25 Claims. (Cl. 51—92)



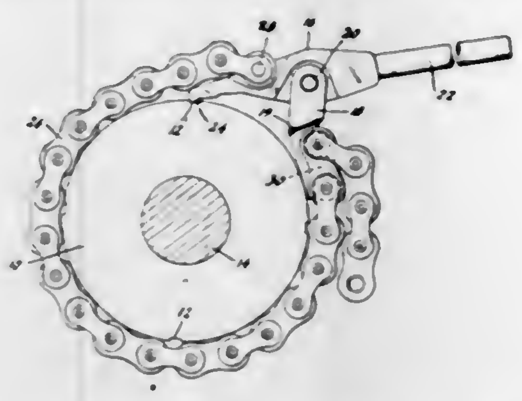
1. A machine tool of the character described comprising a frame, a table for supporting work material mounted on said frame, a supporting member slidably mounted on said frame for movement transversely of said work supporting table, a tool support mounted on said supporting member for movement therewith, a shaft extending longitudinally of the frame adjacent its forward side, a sprocket mounted on said shaft, a second sprocket mounted on the frame adjacent a rear portion thereof, a chain interconnecting said sprockets, means connecting said chain to said supporting member to effect rapid movement of the member upon movement of the chain, means on said shaft at one end of the frame and means attached to said second sprocket at the opposite end of the frame for detachably receiving an operating lever, said lever providing for rotating said sprockets to effect rapid movement of said chain, screw means operatively connected with the supporting member for effecting slow movement of said supporting member and tool support, and means for selectively rendering said screw means operative or inoperative.

20. In a machine tool having a reciprocable carriage, a transmission for moving said carriage comprising a rotatable sleeve, a screw threaded sleeve slidably mounted upon said first mentioned sleeve, means providing a splined connection between said first and second sleeves, means for selectively locking together and unlocking said first and second sleeves, and a nut fixedly connected to said reciprocable carriage and having a screw threaded engagement with said second sleeve.

2,420,171
LINK CHAIN SPANNER WRENCH

George M. Graham, Detroit, Mich., assignor to Hinckley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich., a corporation of Michigan
Application June 19, 1944, Serial No. 540,940
3 Claims. (Cl. 81—68)

2. A wrench comprising a pair of pivotally articulated toggle arms, one arm terminating at one end in a hand lever and provided at its opposite end with a part projecting from its inner face towards the other arm of the toggle and adapted to engage within a notch of a nut, a chain pivoted at one end to said arm spaced between the notch engaging part and the toggle pivot and adapted to be extended over the outer face of the arm and about the nut to connect with the other arm, the other arm of the toggle provided with a part on its outer face adapted to engage successive links of the chain and having an inner face angularly shaped to rock upon a nut embraced by said chain.



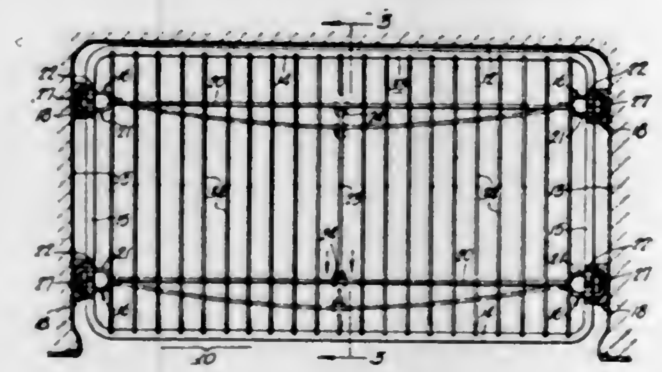
2,420,172
ELECTRICAL INSULATING MATERIAL CONTAINING MICA

Robert L. Griffeth, Delanson, and Joseph J. Pickney, Ballston Lake, N. Y., assignors to Mica Insulator Company, Schenectady, N. Y., a corporation of New Jersey
No Drawing. Application December 6, 1940, Serial No. 368,906
17 Claims. (Cl. 154—2.6)

1. A laminated electrical insulating material comprising mica flakes bonded together with a resin composition comprising a polymer of isobutylene.

2,420,173
SHELF STRUCTURE

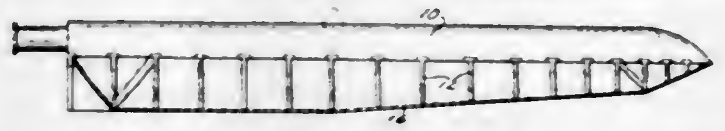
Russell M. Hall, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application March 24, 1944, Serial No. 527,952
6 Claims. (Cl. 211—153)



2. In a shelf having marginal edges, suspension means comprising flexible elongated members each provided with end portions mounted on and located respectively at different marginal edges of the shelf, said end portions being movable between projected and retracted positions with relation to the said edges in response to movements of said members, and means interconnecting said members so that the said movements of one are transmitted to the other.

2,420,174
ROTARY WING STRUCTURE

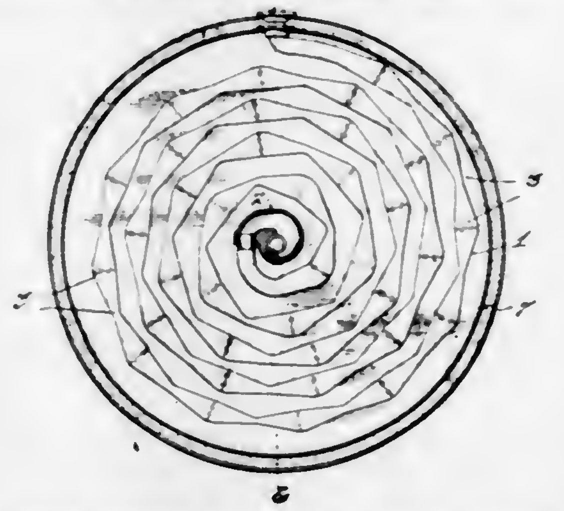
William E. Hunt, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 31, 1942, Serial No. 464,069
5 Claims. (Cl. 244—123)



1. A rib for aircraft comprising, in combination; a pair of contralateral members, each having upper and lower flanges, webs connecting said flanges, offset surfaces on said webs for securing one member to the other; and means bonding said offset surfaces together; the offset surfaces providing aligned upper and lower slots between said edges of said flanges, and elongated vertical passages between the webs and the slots.

2,420,175
ELECTRIC WATER HEATER

Robert A. Johnstone, Aurora, Ind.
Application July 11, 1945, Serial No. 604,361
6 Claims. (Cl. 219—39)



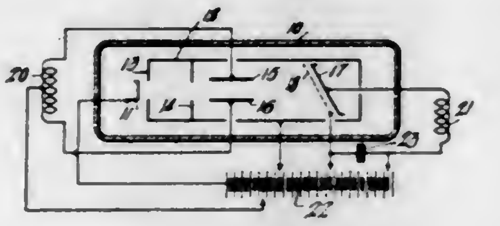
1. A non-storing domestic water heater, comprising: a water heating tubular coil, with the convolutions of the coil in a common plane, the tube depressed and flattened at determined spaced intervals to alternately convert the same from a cylindrical to an oblong contour, to thinly spread and level the water passage, an electric heater unit of flat form, one respectively disposed at each of the opposite sides of the water coil and a heat insulation lined casing enclosing said coil and electric heater units.

2,420,176
CATHODE-RAY TUBE WITH INCLINED TARGET

George Ross Kilgore, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application May 28, 1941, Serial No. 395,621, now Patent No. 2,372,282, dated March 27, 1945. Divided and this application June 29, 1944, Serial No. 542,716
3 Claims. (Cl. 315—17)

1. An electron discharge device having a cathode for supplying electrons and means for forming electrons from said cathode into a directed beam, an output electrode for receiving said electrons and a pair of deflecting electrodes between which said beam is directed to said output electrode, said output electrode including a member having a plane surface positioned at an angle

to the path of said beam, said beam forming means comprising a tubular member surrounding said deflecting electrodes and said output electrode and having a transverse element closing one end of said tubular member adjacent said cathode and provided with an aperture registering with said cathode and the other end of said tubular member being closed by a transverse element, whereby said deflecting electrodes and output electrode are completely shielded, an input circuit connected to said deflecting electrodes for applying an alternating controlling voltage to said deflecting electrodes, an output circuit connected to said output electrode, a source of voltage, means connected between said source of voltage and said electron discharge device for providing biasing voltages, the frequency of said controlling voltage being such that the difference in transit time between the output electrode surface nearest said deflecting electrodes and the part of said output electrode most distant from said deflecting electrodes is of the order of one-half period of oscillation of the controlling voltage.



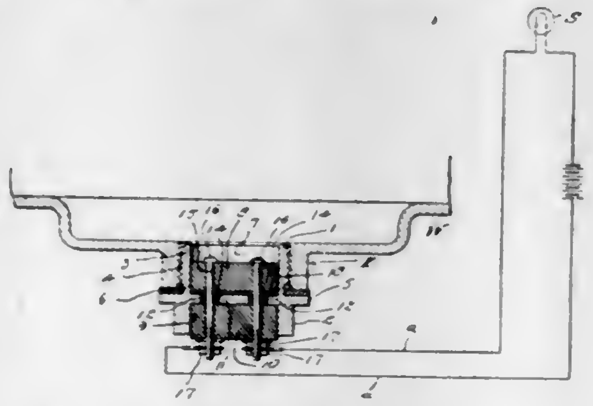
2,420,177

DRAIN PLUG

Mark B. Krall, Lebanon, Pa.

Application February 23, 1944, Serial No. 523,591

1 Claim. (Cl. 200—52)



A plug for a drain opening of an oil container of the character stated, comprising a plug body having two opposite ends each having a socket formed therein, the body at one end being exteriorly screw threaded for connection in the drain opening, a body of insulation material within each socket, the insulation material in the socket at the said one end of the plug body terminating short of the end of such end to form a metal particles receiving receptacle, a pair of electric terminals extending through the two bodies of insulation and through the material of the plug body between the sockets, insulation means between the terminals and the material of the plug body between the sockets, the terminals being disposed within the receptacle, and the terminals at the ends remote from the receptacle being extended beyond the adjacent end of the plug body for electrical connection in opposite sides of an electric circuit.

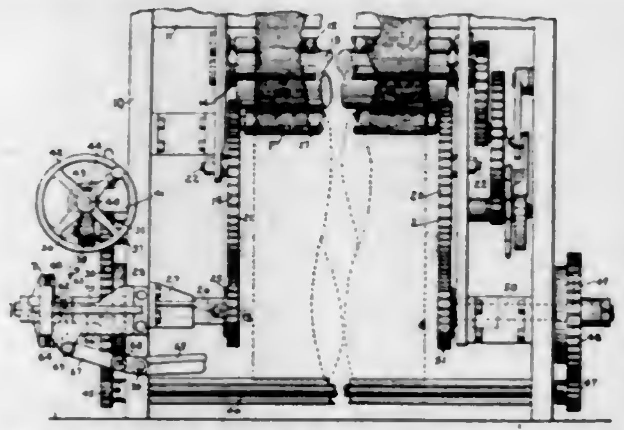
2,420,178

CLOTH ROLL CONTROL MECHANISM FOR LOOMS

Clarence R. Kronoff and Archibald J. Herard, Jr., Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application September 24, 1945, Serial No. 618,137

10 Claims. (Cl. 139—308)



1. In a loom having a cloth roll supported on gear segment means movable to locate the cloth roll in different positions, a shaft geared to the segment means, a gear rotatable on the shaft, a spring having one end operatively connected to the shaft and the other end operatively connected to the gear so that relative movement of the gear and shaft will vary the tension of the spring, a worm gear operatively connected to said gear, a worm for the worm gear, a worm shaft to which said worm is secured mounted for rotation in such position that when said worm and worm shaft are turned in a given direction said worm wheel is effective to move the gear relatively to the shaft in a direction to tension said spring, and means including a part secured to and moving with the worm shaft and a stationary part operative after a given number of rotations of said shaft in said given direction to cause engagement of said parts to prevent further rotation in said given direction of the worm to prevent excessive tensioning of the spring.

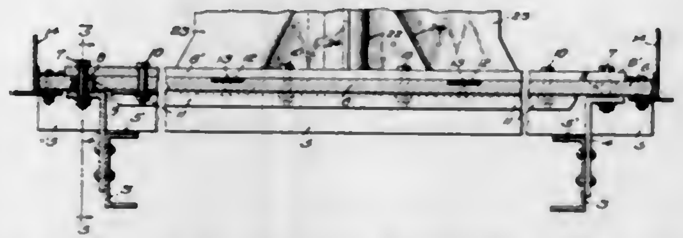
2,420,179

GUN-CARRYING VEHICLE

Ernest P. Lamb, Grosse Pointe, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application December 6, 1943, Serial No. 513,113

1 Claim. (Cl. 296—28)



In a vehicle of the class described, the combination of longitudinal side frame members for the chassis, transversely disposed floor sills extending between and supported by said side frame members, cushioning material interposed between said side frame members and said floor sills, flooring mounted on said floor sills, angle irons disposed longitudinally along said side frame members and each having a substantially vertically disposed leg depending substantially from the underside of said flooring below said floor sills and rigidly affixed to the side frame member associated therewith, each of said angle irons having a substantially horizontally disposed leg at the

upper end of the substantially vertically disposed leg thereof, a base for a pedestal gun mount, a gun pedestal rigidly affixed to said base, the latter being disposed on said flooring and extending above said substantially horizontally disposed legs of said angle irons, a row of bushings inserted in the flooring along each of said horizontal legs of said angle irons and rigidly spacing the superposed portion of said base from said horizontal legs, attaching elements extending through said bushings and rigidly securing said horizontal legs and the superposed portion of said base together in firm abutment against the ends of said bushings, other angle irons extending transversely beneath the flooring and the superposed base, and attaching elements securing the base to the latter angle irons.

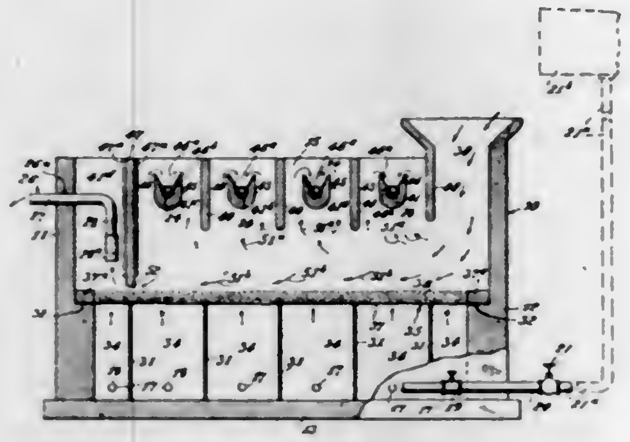
2,420,180

APPARATUS AND METHOD FOR HYDRAULIC CONCENTRATION

William C. Laughlin, New York, N. Y.

Application September 14, 1943, Serial No. 502,244

2 Claims. (Cl. 209—454)



1. The method of hydraulic separation of the mineral constituents of ground ores in the finer sizes, which consists in subjecting the disassociated constituents of such ore to the continuous even flow of a mass of water free from separate current therein and under diffusion distribution moving upwards at low velocity regulated in relation to the disassociated constituents of such ore, said constituents arranging themselves in respect to their specific gravity for forming an ambient horizontal layer having an upper and lower unimpeded horizontal boundary by the lambent contact of the water in upward amble, in which the high gravity constituent is in suspension at its own state of equilibrium in respect to said upwardly moving water mass settling from the low specific gravity constituent which flows off with the water, subjecting the lowest part of the high gravity constituents in suspension to the action of a communicating column of like constituents in suspension in an uprising water mass, and subjecting further quantities of such ores to the first mentioned mass of water, whereby high gravity constituent concentrate in suspension passes to said communicating column for discharge.

2,420,181

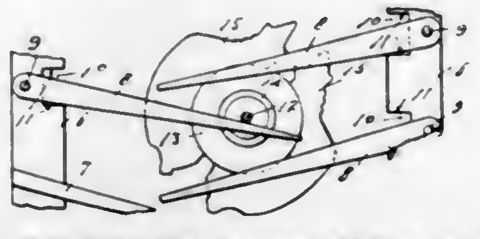
TOY

Sidney L. Long, Minneapolis, Minn.

Application November 6, 1944, Serial No. 562,156

1 Claim. (Cl. 46—130)

In a toy, an invertible frame having inclined pivoted runways, and an inanimate object mounted to travel on the runways by the force of gravity, said runways being constructed and arranged to fall into the same relative positions in respect to the frame when said frame is inverted.



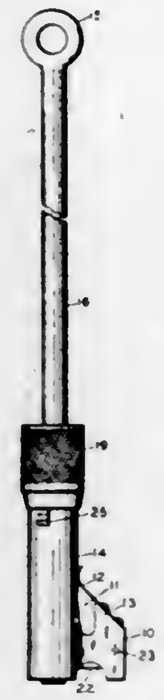
2,420,182

LOWERING DEVICE

Oscar W. Lundblad, Ishpeming, Mich., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application January 24, 1946, Serial No. 643,187

5 Claims. (Cl. 294—1)



1. In a device for lowering explosive cartridges the combination of a hook; a cutter slidably retained in said hook; a hanger rod in slidable preloaded attachment to said hook and adapted to actuate the cutter to sever material retained by the hook upon application of sufficient reactive force to the rod to cause relative movement between the hook and said rod; and adjustment means whereby the amount of preloading can be regulated.

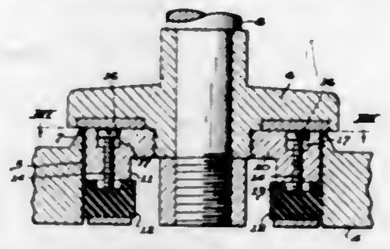
2,420,183

ADJUSTABLE VALVE GUIDE

John K. McDermott, Pittsburgh, Pa.

Application November 23, 1944, Serial No. 564,791

3 Claims. (Cl. 251—27)

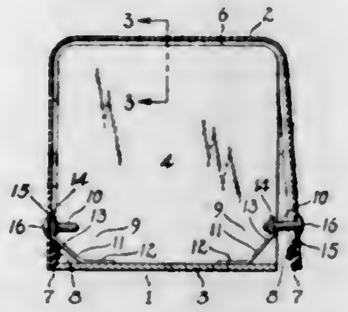


1. A pressure controlling valve comprising a casing having a partition therein provided with a cylindrical port having a valve seat at a side thereof, a stem mounted for movement axially of said port and provided with a valve for closing it, a guide attached to said stem and provided

with a plurality of angularly spaced arms lying within said port, each of said arms being provided with a laterally adjustable guide block, and means for clamping each guide block firmly to each arm in a position to bear against the wall of said port.

2,420,184
COVER FASTENING DEVICE

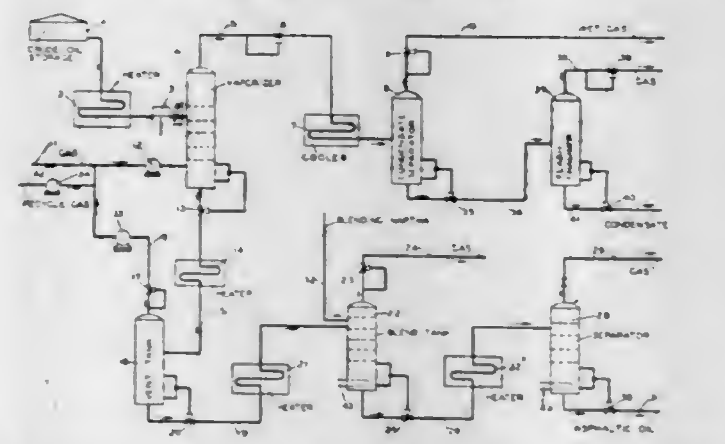
Harold L. Mekelburg, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 3, 1944, Serial No. 561,787
3 Claims. (Cl. 220—55)



1. The combination with a rear casing section having a rear wall and forwardly extending end walls, a U-shaped cover formed to fit over said end walls and to straddle the side edges of said rear wall and securing means for said cover comprising resilient brackets secured to said rear wall and having screw-receiving arms extending forwardly and toward opposite sides of said rear wall, and securing screws associated with said brackets and extending through openings in the side walls of said cover, the screw-receiving arms of said brackets being deflected when said screws are in applied fastening position to exert a spring-holding force on said cover for holding the side walls thereof in firm engagement with the side edges of said rear wall and said end walls, for also holding the front wall of said cover in firm engagement with the front edges of said end walls.

2,420,185
PROCESS FOR PRODUCING ASPHALTIC MATERIALS

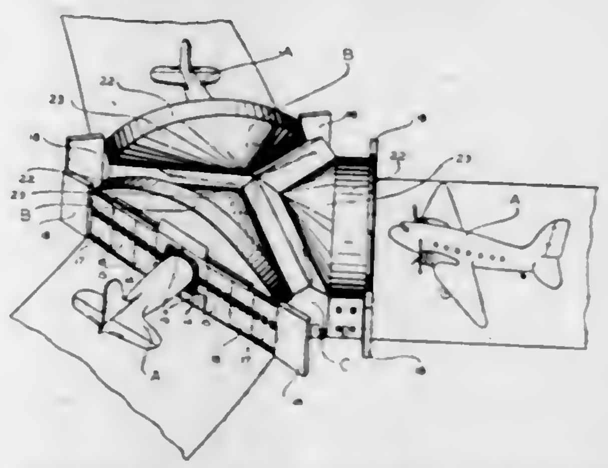
Harold E. Messmore, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 4, 1943, Serial No. 471,299
1 Claim. (Cl. 196—74)



A continuous process for preparing a blended asphaltic oil from a crude oil stock containing asphaltic and non-asphaltic materials comprising contacting said oils countercurrently with a continuous stream of natural gas at a pressure between approximately 9,000 and 10,000 pounds per square inch and at a temperature of approximately 120° F. whereby the non-asphaltic materials are vaporized into the natural gas and the asphalt with natural gas dissolved therein remains as a liquid phase; removing the gaseous phase and the liquid asphaltic phase; separating the natural gas from the non-asphaltic materials in said gaseous phase and recycling the said separated gas into the original contacting step; reducing the pressure on the liquid asphaltic phase containing dissolved natural gas to release at least a portion of said dissolved natural gas; further reducing the pressure on said liquid asphaltic phase to a pressure below approximately 1,000 pounds per square inch to release a further quantity of said dissolved natural gas and simultaneously adding a blending naphtha; still further reducing and essentially to atmospheric the pressure on the blended liquid asphaltic oil to release the remaining dissolved natural gas; compressing to approximately 9,000 to 10,000 pounds pressure per square inch the natural gas first separated from the liquid asphaltic phase and recycling the compressed gas into the original contacting step.

2,420,186
AIRPLANE HANGAR, ADMINISTRATIVE, AND SHOP UNIT

Arthur S. Miller, Carl W. Frank, and Reynold R. Hagglund, Minneapolis, Minn.
Application December 27, 1943, Serial No. 515,828
1 Claim. (Cl. 189—1.5)

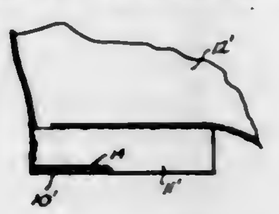


An airplane hangar, including administrative and shop units, comprising a central Y-shaped building unit made up of a series of individual rectangular building units connected together at a common axis by a triangular portion, a series of hangar units, two walls of each of said hangar units being common with the walls of said Y-shaped unit, each of said hangar units comprising triangular and rectangular portions opening into each other to provide the hangar unit for receiving the wings, nose and the engines of an airplane, a series of overlapping doors for closing said hangar units, and a flexible central portion which is adapted to fit around the empennage just back of the wings, and means for receiving said doors beyond the sides of said hangar units when the doors are in open position.

2,420,187
METHOD OF REBUILDING WORN RUBBER HEELS

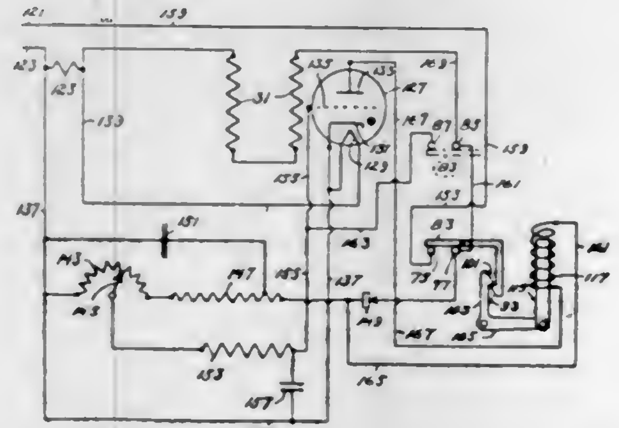
Frederick W. Phillips, New Orleans, La.
Application September 7, 1944, Serial No. 552,946
1 Claim. (Cl. 12—142)

The method of rebuilding worn rubber heels which consists in forming at the worn place in the heel a cavity with an offset edge, providing sheet rubber material, cutting therefrom a crescent shaped piece to fit the smaller cavity, cutting from the same material a larger crescent shaped piece to fit the larger cavity, cementing the smaller piece to the bottom of the cavity, and cementing the larger piece over the smaller piece to restore the tread face of the heel.



2,420,188
AUTOMATIC ELECTRIC TOASTER

Bror G. Olving, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application January 6, 1945, Serial No. 571,630
3 Claims. (Cl. 99—326)

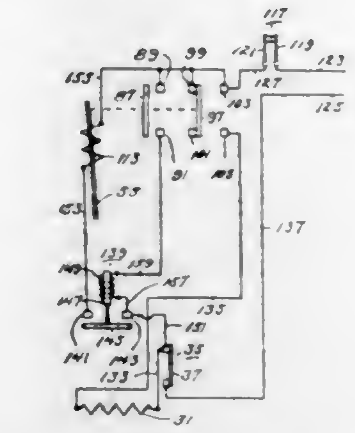


1. In an automatic electric toaster the combination with a toasting chamber, electric toast heating means therein, a control switch for the heating means biased to open position, means to move the switch to closed position to start a toasting operation and a latch for holding the switch in closed position, of means for causing release of said latch to terminate a toasting operation comprising a potentiometer, a timing condenser, a timing resistor connected to said potentiometer and said timing condenser to charge the latter, an electron tube connected to the timing condenser to be fired thereby at a predetermined potential of the condenser, means energized by the current traversing the tube for causing release of the latch and termination of a toasting operation, said tube being located in the toasting chamber and having a firing potential decreasing with increase of temperature to reduce the duration of a toasting operation with increase of temperature of the toasting chamber and means comprising said control switch for causing discharge of said timing condenser at the termination of a toasting operation.

2,420,189
MULTICONTACT BIMETALLIC THERMAL RETARDER FOR ELECTRIC WATER HEATERS

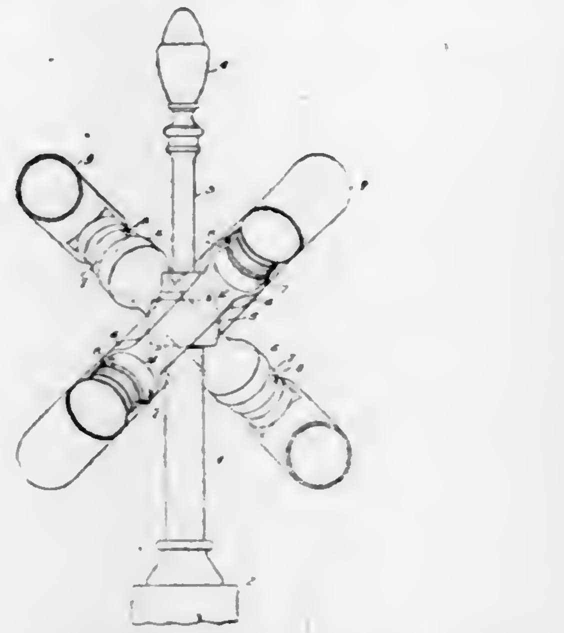
Clark M. Osterheld, Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application September 20, 1944, Serial No. 554,999
4 Claims. (Cl. 219—39)

1. In a thermal retarder switch unit for a hot water storage tank heater to be mounted on a tank intermediate its ends and comprising a heater, a pair of contact bridging members, a bimetal bar operatively connected to said bridging members to actuate the same, three pairs of stationary contact members to be engaged with and disengaged from said bridging members when actuated by said bimetal bar, a heating coil supported by the free end of said bimetal bar, the energization of which is controlled by the first of said contact bridging members and the first pair of cooperating contact members, the second and third pair of contact members being connected in parallel with each other and in series with said heater, said second contact bridging member being moved into engagement with said second pair of contact members when said bimetal bar is subject to cold water in the tank and moved into engagement with said third pair of contact members after a predetermined time period of delay after energization of said heating coil.



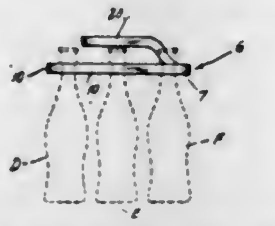
2,420,190
ELECTRIC LIGHTING MEANS

Alphonse F. Pieper, Brighton, N. Y.
Application April 10, 1944, Serial No. 530,349
4 Claims. (Cl. 240—81)



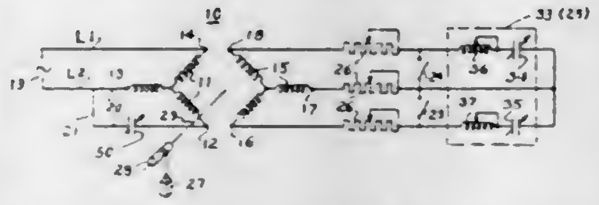
1. Electric lighting means including a vertical post, a bracket on the post comprising a horizontal body portion and a pair of lamp supporting arms at each end of said body portion, said lamp supporting arms at one end being in a plane vertically inclined to and intersecting the plane in which the lamp supporting arms at the other end are located, and circular electric lamps arranged concentrically around the post and each mounted on one of said pairs of arms.

2,420,191
BOTTLE HOLDER
Frances C. Ransom, University City, Mo.
Application September 1, 1945, Serial No. 614,027
6 Claims. (Cl. 224—45)



1. A holder for bottles or the like comprising a single piece of generally flat material having a base from which a plurality of arms extend, said base and arms providing a plurality of notches extending inwardly from one edge of the device, said notches being shaped to receive the necks of bottles, one of said arms having a handle integrally formed therewith, said handle extending upwardly and outwardly toward the open end of the device, so as to lie above the top thereof.

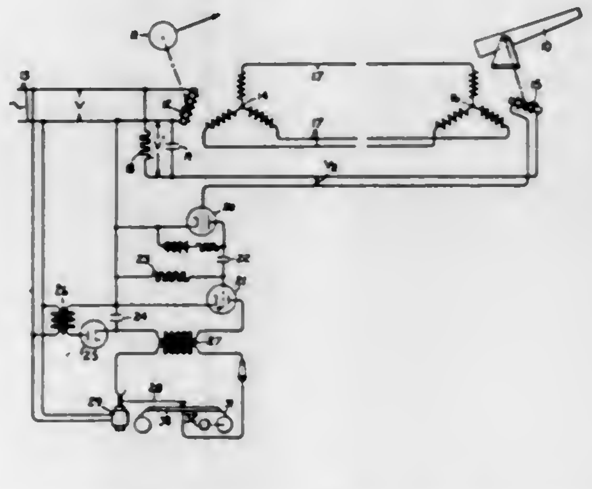
2,420,192
INDUCTION MOTOR CONTROL SYSTEM
Harold J. Rathbun, Cleveland, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 14, 1943, Serial No. 490,729
14 Claims. (Cl. 172—274)



9. A braking control system for an alternating current motor of the induction type having distributed and inductively related primary and secondary windings, a secondary circuit, means for connecting the secondary winding in said secondary circuit, means for connecting the primary winding to a source of power thereby to produce in said motor the phenomenon considered as oppositely rotating magnetic fields, the strengths of which are independent of motor speed, whereby during rotation of said motor currents of different frequency ranges flow in said secondary circuit, a condenser, means for concurrently connecting a portion of said primary winding which is angularly disposed with respect to an excited portion of said primary winding in a local closed circuit with said condenser, said condenser being effective when connected in said closed circuit to alter the phase relationship of currents flowing in said motor, and a condenser means electrically associated with said secondary circuit and operable upon rotation of said motor and in cooperation with said secondary winding for causing said secondary circuit to be substantially resonant within the higher of said frequency ranges.

13. The method of electrically braking a rotating polyphase induction motor driven by an overhauling load and having a primary winding and a secondary winding, which method comprises connecting the primary winding to a source of power so that unbalanced polyphase currents flow in said primary winding thereby to produce the effect of oppositely rotating fields in said motor, and, while said primary winding is so excited, connecting said secondary winding in a closed series resonant circuit capable of resonating at two different frequencies within the higher of the two different frequency ranges of the currents flowing in said secondary winding as a result of rotation of said motor when excited to produce oppositely rotating fields.

2,420,193
VOLTAGE RATIO RECORDER
Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 24, 1943, Serial No. 515,509
5 Claims. (Cl. 234—1.5)

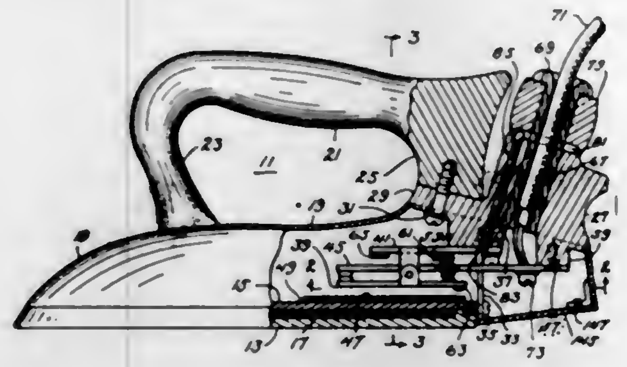


1. In a voltage ratio measuring and recording system, an induction device having relatively rotary primary and secondary windings, means for supplying the primary winding with an alternating current excitation of voltage V, said windings having a range of relative rotation over which a single phase voltage V_2 is induced in the secondary winding varying through zero value and reversing in phase relation with respect to the primary voltage V, means for obtaining a V_1 voltage proportional to the V voltage and 90 degrees out of phase therewith, means for vectorially combining the V_1 and V_2 voltages to produce a resultant voltage V_r, means for moving a record sheet, a stylus for recording on such record sheet, a synchronous motor for moving said stylus across such record sheet in a predetermined phase relation and synchronously with the V voltage, an electronic switch controlled by the V_r voltage for causing said stylus to produce instantaneous records on such record sheet in a predetermined phase relation and synchronously with the V_r voltage whereby the position of said records will indicate the value and phase relation of the V_2 voltage relative to the V voltage.

2,420,194
REACTION PRODUCT OF A POLYETHYLENICALLY UNSATURATED POLYMER AND A CARBOTHIOLIC ACID
Lawrence Marion Richards, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 27, 1943
Serial No. 515,807
7 Claims. (Cl. 260—79)

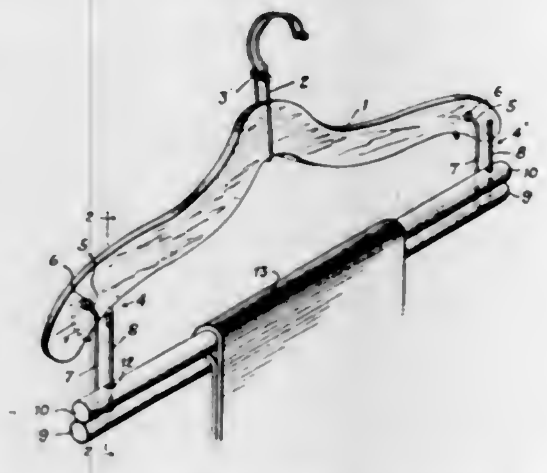
1. Process which comprises reacting, in solution in an inert solvent and for a time of at least 18.5 hours, a polymeric organic compound having a plurality of ethylenic linkages and an iodine number of at least 25 with at least 10%, by weight of the polymer, of a carbothiolic acid which is hydrocarbon except for the carbothiolic group.

2,420,195
ELECTRIC SADIRON
Burton M. Riker, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application February 26, 1944, Serial No. 524,119
4 Claims. (Cl. 219—25)



1. In an electric sad iron, the combination with a heated body, a casing thereover, a cord supporting member held against said casing, a handle secured to said casing and said member, a thermally-actuable switch mechanism supported by said cord supporting member, of a manually-adjustable annular member around the cord beyond said cord supporting member, a rod extending through said cord supporting member, movable longitudinally therein and having its ends engaging said switch mechanism and said manually-adjustable annular member to vary the temperature of the heated body in accordance with turning movement of the annular member.

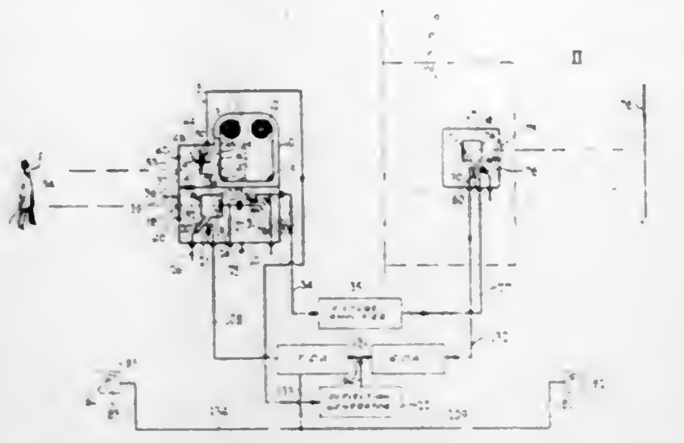
2,420,196
SUSPENSION MEANS
Jacob I. Robin, New York, N. Y.
Application May 18, 1945, Serial No. 594,537
7 Claims. (Cl. 223—91)



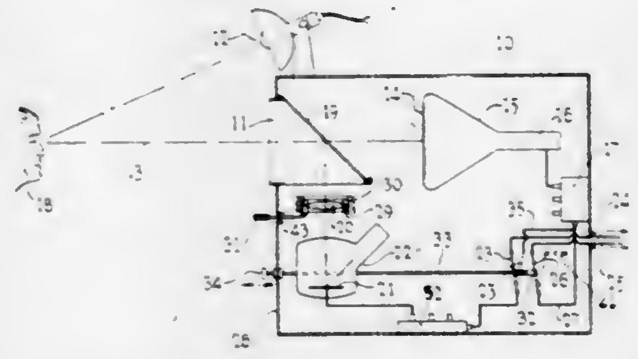
1. A pair of two-pronged brackets, one prong of each bracket having an open end, means for securing the other prongs of each one of said brackets at a predetermined distance from one another, and a multiplicity of bars arranged one above the other for parallel movement in said brackets and guided by said prongs and entirely removable therefrom, due to said open ends.

2,420,197
SYSTEM FOR SUPERVISING THE TAKING OF MOVING PICTURES
Adolph H. Rosenthal, New York, N. Y.
Application June 16, 1944, Serial No. 540,558
11 Claims. (Cl. 178—6.8)

1. A system for controlling and supervising from a distant place the taking of pictures by a moving picture camera combined with a television pick-up apparatus for an image of the field before the moving picture camera which is transmitted to a television receiver at a distant place, essentially comprising, in combination, a moving picture camera and television pick-up apparatus associated therewith, optical means for forming an image of the field before said moving picture camera in said pick-up apparatus, the field so imaged being at least as large as and including the field of view of said moving picture camera, electric means for scanning said image, electrical controlling means for varying the size or position of scanned areas of said image, and a television receiver at the distant place for reproducing such a scanned area.



2,420,198
TWO-WAY TELEVISION COMMUNICATION UNIT
Adolph H. Rosenthal, New York, N. Y., assignor to Scophony Corporation of America, New York, N. Y., a corporation of Delaware
Application June 20, 1944, Serial No. 541,155
7 Claims. (Cl. 178—6.8)



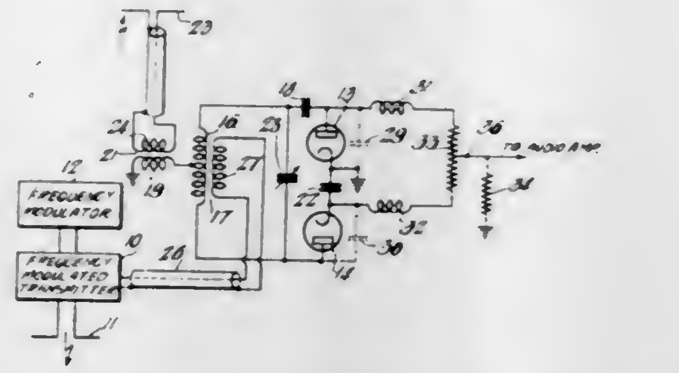
1. A unitary two-way communication apparatus for picking up intelligence to be transmitted to a distant place and for visibly reproducing intelligence received from a distant place, essentially comprising, in combination, a pick-up and transmitting device adapted to transform light rays within the visible and invisible spectral regions and representative of intelligence to be transmitted, into electric signal impulses, means for translating said impulses upon outgoing transmitter means, a device for visibly reproducing electric signal impulses representative of intelligence, means for translating incoming signal impulses upon said reproducing device, and means for operatively connecting said translating means either with outgoing and incoming transmitter means or with one another, so that in the latter case impulses produced in said pick-up device are visibly reproduced by said reproducing device.

2,420,199
FREQUENCY MODULATED ALTIMETER OR DISTANCE INDICATOR

Royden C. Sanders, Jr., Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 4, 1942, Serial No. 445,720

9 Claims. (Cl. 250—1.68)



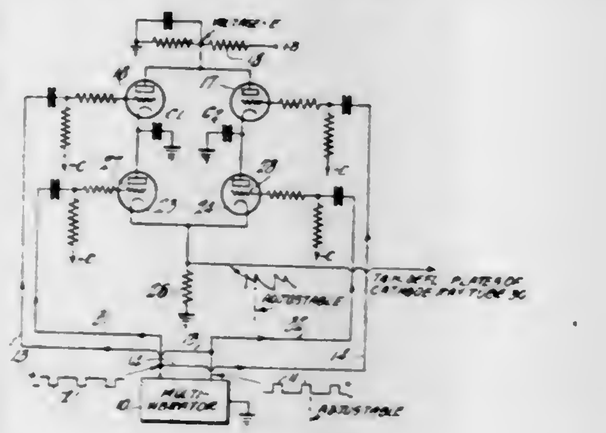
1. A radio receiver comprising a pair of rectifiers connected in balanced relation, each rectifier having an anode and a cathode, means for so applying two carrier waves to said rectifiers that they have one phase relation with respect to each other at the anode of one rectifier and the opposite phase relation with respect to each other at the anode of the other rectifier, a frequency responsive device, an output impedance unit connected to supply signal to said frequency responsive device, means for taking the output signal of one rectifier off its anode and means for taking the output signal of the other rectifier off its cathode, and means for supplying the signals from said anode and from said cathode to said output impedance unit whereby any amplitude modulation on said carrier waves may be balanced out while supplying said beat frequency signal to said frequency responsive device.

2,420,200
DEFLECTING CIRCUIT

Earl Schoenfeld, Mamaroneck, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application July 25, 1944, Serial No. 546,546

5 Claims. (Cl. 320—1)



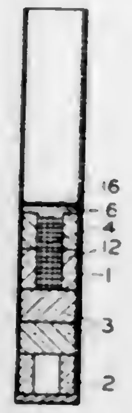
2. A deflecting wave circuit comprising two capacitors, means for charging said capacitors alternately to substantially full charge, and means for discharging each of said capacitors to less than complete discharge and with their discharge periods unequal while the other capacitor is being charged whereby they are discharged alternately, said discharging means including a common output impedance through which said capacitors discharge whereby the desired deflecting wave appears thereacross.

2,420,201
BLASTING CAP

Frederick R. Seavey, Alton, Ill., assignor to Olin Industries, Inc., a corporation of Delaware

Application March 7, 1942, Serial No. 433,697

2 Claims. (Cl. 102—29)



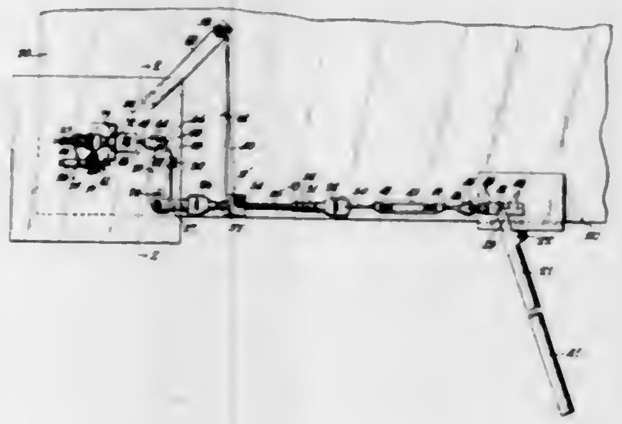
1. A blasting cap having a shell, an explosive initiating charge therein, and a base charge of secondary explosive in contact with the initiating charge, the said base charge being composed of a series of preformed tablets of explosive wherein each tablet has a substantially uniform high density, the top and bottom tablets are perforated so as to have the form of annular rings, and at least one solid tablet is disposed between the said perforated tablets, the initiating charge being disposed within the top perforation of the said base charge.

2,420,202
TENSION TESTING MACHINE

Walter Hans Setz, Upper Darby, Pa., assignor to All American Aviation, Inc., Wilmington, Del., a corporation of Delaware

Application February 1, 1943, Serial No. 474,253

12 Claims. (Cl. 73—89)



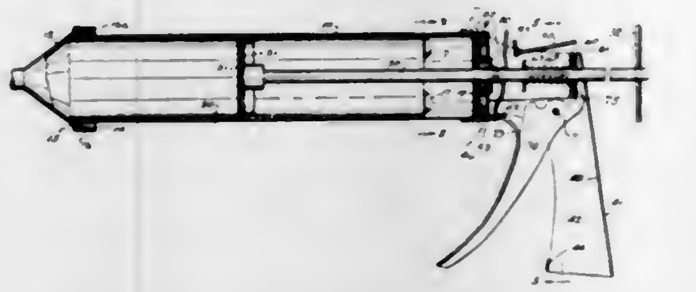
1. In an indicator for test purposes, as a subcombination, an operating rod, a mount for the rod, a rod guide, a spring connected with the rod and against whose resistance the rod moves, a cylinder in which the rod is movable, the rod and guide operating as a piston and rod unit in said cylinder, the unit being open to the atmosphere, a thrust rod having universal joint connection with the piston and rod unit, a guide for the thrust rod, tension transmitting mechanism having an anchorage for the specimen tested, and thrust connections from the anchorage with the guided end of the thrust rod to operate the piston by mechanical means against the resistance of the spring.

2,420,203
DISPENSING APPARATUS FOR PLASTIC MATERIAL

William E. Sherbondy, Shaker Heights, Ohio; Anna Louise Sherbondy, executrix of said William E. Sherbondy, deceased, assignor to Vital Products Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application July 10, 1944, Serial No. 544,291

13 Claims. (Cl. 222—323)



1. In a dispensing apparatus, the combination of a barrel, a hollow hand grip connected thereto, a plunger within the barrel, a rod for operating the plunger extending through the upper portion of the hand grip, said hand grip having a pair of spaced side portions offset outwardly to provide shoulders adjacent the rear of the handle, a feeding plate loosely surrounding the rod and located between the side portions of the handle, a spring for normally pressing said plate against said shoulders, a lever carried by the handle, operable to cant said plate and feed it forwardly and means for retaining the gain effected by such feeding.

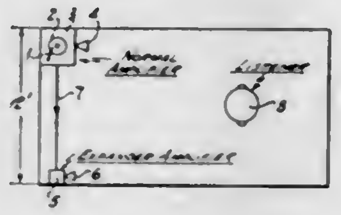
6. In a dispensing apparatus, the combination of a cap adapted to be removably secured to a barrel and stiffened by an annular deformation in its transverse portion, a handle, a disc on the outer side of the cap bearing against said cap and extending across said deformation and a bushing for securing the handle, disc and cap together and providing a swivel connection between the handle and cap while allowing for the passage of an operating rod.

2,420,204
METHOD OF AND SYSTEM FOR ENHANCING SOUND REPRODUCTION

Chester M. Sinnett, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 21, 1944, Serial No. 555,131

9 Claims. (Cl. 179—1)



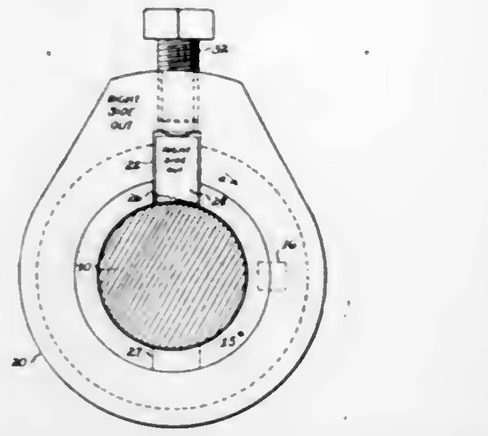
1. A method of producing sound enhancement for audio frequency wave reproduction, which includes the steps of applying the waves to a plurality of audio frequency transmission channels each of which passes a predetermined band of audio frequencies, and expanding the gain of each channel in accordance with the intensity level of the signals transmitted by each channel whereby the various portions of the audio frequencies range may be expanded at different times depending on the audio frequency content of said waves.

2,420,205
COUPLING

Walter O. Sjogren, Worcester, Mass.

Application January 29, 1945, Serial No. 575,010

7 Claims. (Cl. 287—52.09)



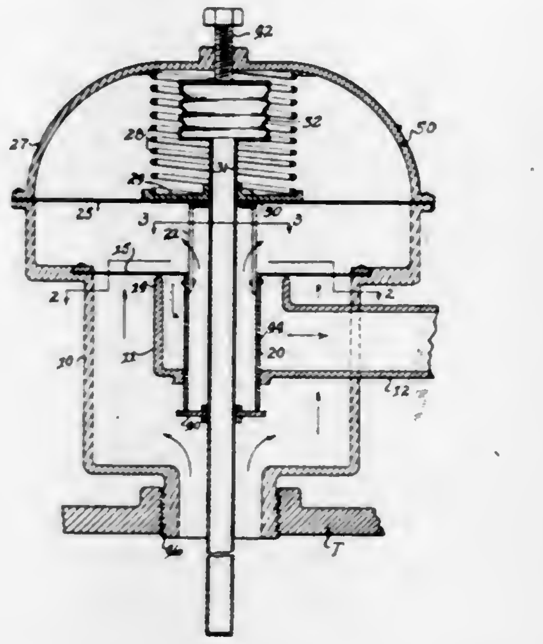
1. A coupling for a rotated shaft comprising a driving member loosely supported on said shaft and having an end slot laterally offset with respect to the center line of the shaft in the direction of rotation, an axially extended driving dog loosely mounted in said slot and having a beveled edge face engaging said shaft, and means to force said dog against said shaft.

2,420,206
PRESSURE AND TEMPERATURE RELIEF VALVE

Chetwood Smith, Worcester, Mass.

Application October 7, 1944, Serial No. 557,644

3 Claims. (Cl. 236—80)



1. In a pressure and temperature relief valve having a casing and a waste connection thereto, in combination, a smaller main valve diaphragm normally directly closing said waste connection, a larger diaphragm connected to move said smaller main valve diaphragm and open said waste connection, a normally atmospheric chamber between said diaphragms, and a temperature-responsive pilot valve admitting water under pressure to said chamber between said diaphragms on the occurrence of excessive temperature, said water under pressure acting against said larger diaphragm to unseat and lift said smaller main valve diaphragm.

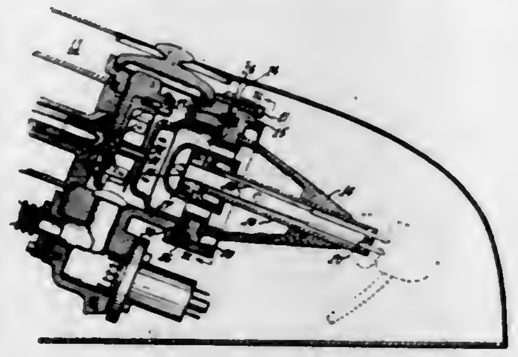
2,420,207

ELECTRON GUN MOUNTING

Perry C. Smith, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 30, 1944, Serial No. 570,661

4 Claims. (Cl. 250—49.5)



2. In an electron microscope having a column and an anode electrode provided with an aperture, an electron gun, a base for said gun, a one point connection between said base and said column, said connection providing a lost motion, means to swing said base angularly with respect to said connection to adjust the beam of said gun to aline with said aperture, and a resilient gasket interposed between said base and said column to prevent air leakage during said swinging operation.

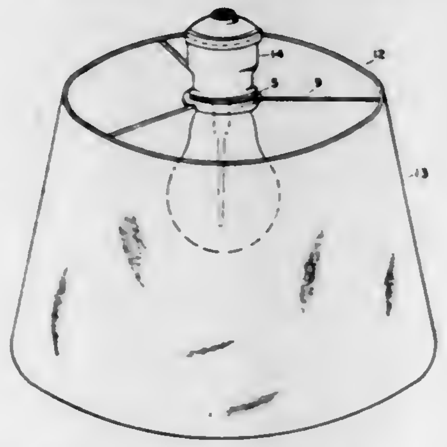
2,420,208

LAMP SHADE MOUNTING MEMBER

Joseph W. Solomon, Bronx, N. Y., assignor to The Verplex Company, Essex, Conn., a corporation of Connecticut

Application November 3, 1944, Serial No. 561,674

3 Claims. (Cl. 240—128)



1. A lamp shade frame including a combined socket holder and lamp shade mounting member, said socket holder and lamp shade mounting member having an inside edge shaped to follow a spiral course, said edge having a plurality of notches therein, the outside edge of said member having a plurality of orifices therein adapted to receive frame supporting spokes, frame supporting spokes disposed in said orifices and radiating outwardly from said member, and a plurality of tabs formed in said member clamping said spokes in place in the assembly.

2,420,209

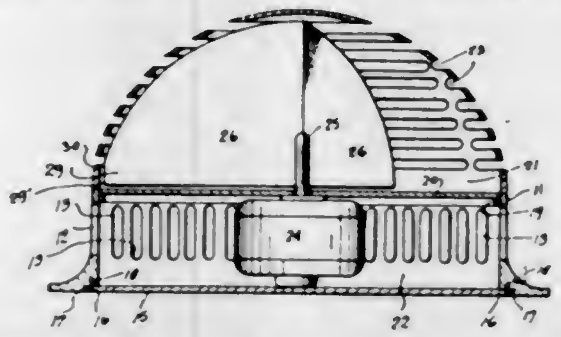
ELECTRIC FAN

Clifford M. Strom, Chicago, Ill.

Application July 10, 1944, Serial No. 544,168

2 Claims. (Cl. 230—259)

1. An electric fan comprising an enclosure having a cylindrical base portion of relatively short height and a fan housing substantially semiglobular in form with the walls thereof provided with a plurality of vents, a flange circular in plan view formed integral with the housing, a partition separating the fan housing from the base portion and providing together with said flange a well, a motor mounted in the base portion and having an armature projecting into the fan housing, blade elements carried by and arranged radially about said armature in said fan housing and each of said blade elements being substantially segmental in side elevation with their vertical edge portions in abutting relation with respect to each other and with the base portion of the blade elements disposed in substantially parallel spaced relation with respect to the top surface of the partition for rotation in said well, the edge portion of each of said blade elements extending between the base and the vertical edges thereof having a curvature defined by a radius coinciding with the radius defining the curvature of the fan housing, substantially as described.



2,420,210

TETRAACYLRIBONYL-XYLIDINE

Max Tishler, Rahway, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application September 12, 1945, Serial No. 615,929

6 Claims. (Cl. 260—211)

1. 3,4-dimethyl-N-tetraacylribonyl-aniline.

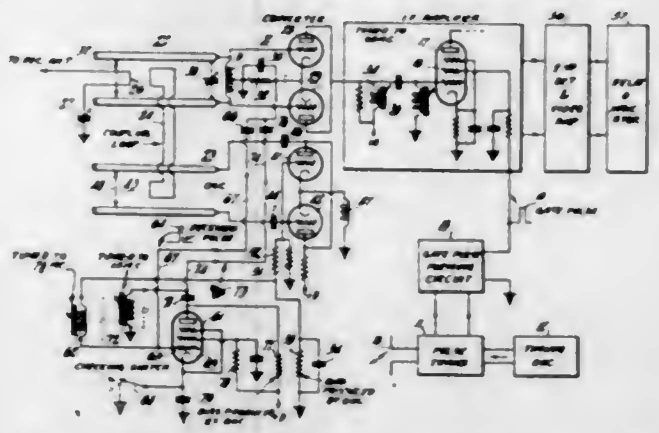
2,420,211

PULSE-ECHO RADIO SYSTEM TESTING MEANS

Simeon I. Tourshou, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application June 12, 1944, Serial No. 539,917

6 Claims. (Cl. 250—1.66)



1. In a pulse-echo system comprising a pulse transmitter and a pulse receiver and further comprising gating means for causing the receiver to pass a received pulse during a predetermined time interval, a checking circuit for checking the operativeness of said system, said checking circuit comprising a circuit that is resonant at a frequency which is high with respect to the repetition rate of the transmitted pulses, means for applying to said resonant circuit pulses which are received directly from the transmitter whereby each of said received pulses produces a damped wave train, and means for applying said wave trains to the input circuit of the pulse receiver, each of said wave trains extending into said predetermined time interval whereby the receiver may pass a portion of each wave train.

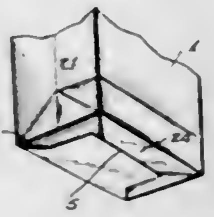
2,420,212

BAG

Hans Volksdorf, Philadelphia, Pa., assignor to Thomas M. Royal & Co., Philadelphia, Pa., a corporation of Pennsylvania

Application April 1, 1946, Serial No. 658,759

12 Claims. (Cl. 229—55)



1. A bag of the character described including a tubular body comprising an outer sheet of flexible non-heat reactive material having predetermined portions of its bottom edge cut away, an intermediate sheet of flexible heat-sealable material interiorly of said outer sheet and covering the cut-away areas thereof, a liner sheet of flexible non-heat reactive material disposed interiorly of said intermediate sheet, and a closure at the bottom of the bag comprising sections of the tubular body folded inwardly from opposite sides thereof and providing a bag bottom section and endwise flap sections, one of said flap sections being folded upon said bottom section and heat-sealed thereto, and the other of said flap sections being folded upon and heat-sealed to said bag bottom section and said one flap section, the cut-away bottom edge portions of said outer sheet exposing areas of the heat-sealable intermediate sheet centrally through said bag bottom and flap sections and providing direct contact between heat-sealable surfaces of the folded over flap sections and bag bottom section.

2,420,213

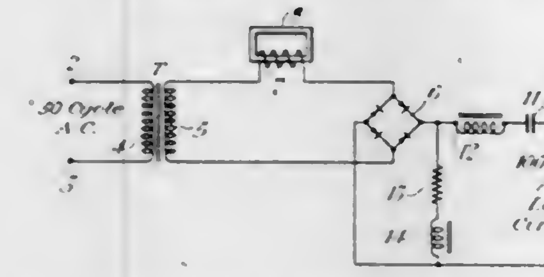
APPARATUS FOR FREQUENCY MULTIPLICATION OF ALTERNATING ELECTRIC CURRENTS

Alec Hervey Bennett Walker, London, England, assignor, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application May 2, 1945, Serial No. 591,524

In Great Britain July 11, 1944

2 Claims. (Cl. 172—281)



1. In combination, a supply source of alternating current of a given frequency, a full wave rectifier, a reactor having a coil wound on a magnetizable core, said supply source and said reactor coil in series connected to the input terminals of said rectifier, said reactor core proportioned to introduce a relatively large current component of third harmonic frequency, a load circuit connected to output terminals of said rectifier through inductance and capacitance tuned to resonance at a frequency double said given frequency, and means connected to the output terminals of said rectifier in multiple with the load circuit to absorb the direct current component of the rectifier output, whereby an alternating current wave of double said given frequency and of a relatively large percent of the input power is passed to said load circuit.

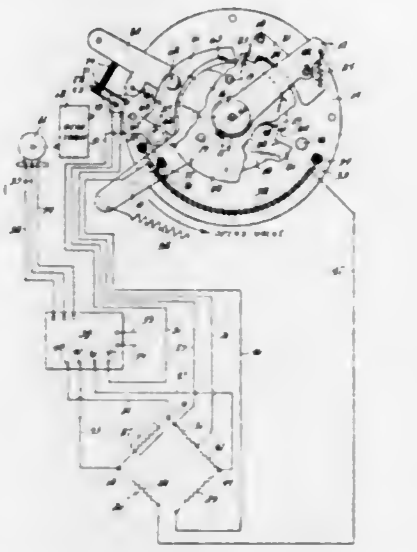
2,420,214

MANUAL CONTROL MECHANISM

Russell H. Whempner, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application October 14, 1942, Serial No. 461,954

12 Claims. (Cl. 236—1)



1. In a temperature control system, in combination, a variably positionable member for changing a temperature condition, a power operator therefor normally operable to position said member in a plurality of different positions, temperature responsive means in control of said power operator to cause it to position said member in said plurality of different positions upon change in temperature, a manual operator having an inactive stationary position, means operable thereby to position said member in a plurality of positions independently of said power operator, said member remaining in any position to which it is moved by said manual operator, and means operable as an incident to movement of said manual operator out of its normal position to additionally control said power operator to render said power operator incapable of positioning said member in said plurality of positions upon said change in temperature.

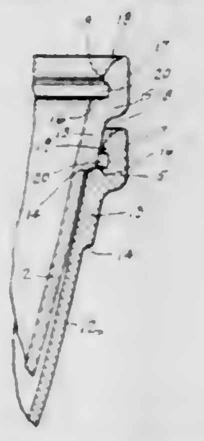
7. In combination, a member to be positioned, a power operator, a pivoted manual operator movable in a single plane and having a normal stationary position, clutching means normally clutching said power operator to said member, means operable upon movement of said manual operator about its pivot out of its normal stationary position to declutch said member from said power operator and to clutch it to said manual operator in a predetermined relationship for positioning thereby upon movements thereof about its pivot after said declutching and clutch-

ing actions have taken place, the position of said manual operator thereafter indicating the position of said member, and means associated with said manual operator to cause declutching thereof and reclutching of said power operator.

2,420,215

STACKING CUPS AND CONTAINER FOR SAME

Lee M. Wiley, Marion, Ind., assignor of one-half to Julian T. Lett, Marion, Ind.
Application November 4, 1944, Serial No. 561,879
2 Claims. (Cl. 206—65)

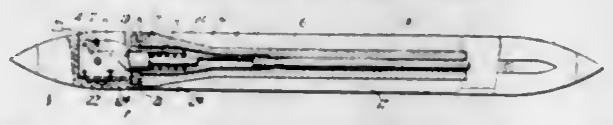


2. A plurality of bottom nestable cups capable of stacking relation, each supportable exteriorly and near the upper end thereof, each cup having a mouth at its uppermost upper end, an internal seat spaced therefrom and an external cup supporting shoulder spaced from the mouth slightly greater than the said seat but comparatively close together, the shoulder of the upper cup having appreciable facial bearing upon the seat of the lower cup, each cup adjacent the seat having an inwardly projecting overhang of lesser internal diametric dimension than the seat and spaced therefrom to form a groove between the seat and mouth for cover reception, said inwardly projecting overhang being further of greater internal diametric dimension than the external diametric dimension of the shoulder, each cup having a downwardly and inwardly directed sidewall of flared character for hand grip purposes, the flaring being of reverse curve type, the upper curve portion being convex externally and the lower curve portion being concave externally and the radii of curvature being of similar order, the length of the curved portions being approximately of the order as 1 to 2, respectively.

2,420,216

SHUTTLE AND BOBBIN FOR LOOMS

Walter Leo Williamson, Glen Iris, Melbourne, Victoria, Australia
Application March 20, 1945, Serial No. 583,720
In Australia April 27, 1944
3 Claims. (Cl. 139—208)

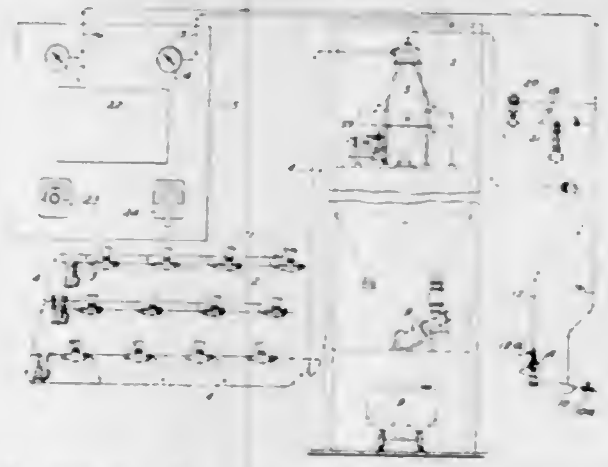


1. In a shuttle and bobbin assembly for looms, the combination of a shuttle, a bobbin-carrying spindle, means pivotally connecting one extremity of said spindle to the shuttle near one extremity of the latter so that the spindle may be swung outwardly about a transverse axis from an operative position within the shuttle, said axis bisecting the longitudinal center line of the said spindle, and a locking device, including a stationary part and a part which is movable axially of said spindle, which prevents inadvertent swinging movement of said spindle from said operative position while permitting deliberate swinging movement of the spindle out of the shuttle to render the spindle accessible for bobbin changing, and which is automatically reset into locking condition by return swinging movement of said spindle.

2,420,217

AUTOMATIC DUST REMOVING SYSTEM

Frank B. Allen, Lower Merion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 16, 1943, Serial No. 483,275
6 Claims. (Cl. 302—17)



1. A system for handling dust comprising a plurality of dust-collecting chambers, a dust and gas separating chamber, a vacuum creating device, a passage selectively connecting each dust collecting chamber with said separating chamber, and with said vacuum creating device, an electrical circuit, means automatically actuated by predetermined amounts of vacuum in said passage between said collecting chambers and said vacuum creating device to energize said electrical circuit, and control means actuated by said circuit when energized to shift said flow of gas from one dust-collecting chamber to another such chamber.

2,420,218

SWEETENING HYDROCARBON OILS

George W. Ayers, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application September 22, 1944, Serial No. 555,394
10 Claims. (Cl. 196—24)

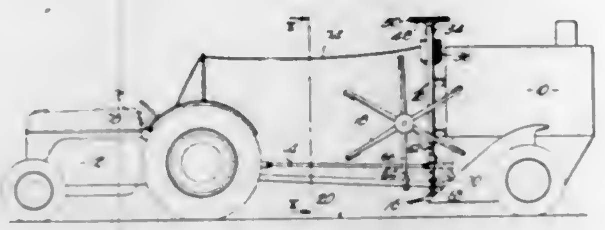
1. The method of removing sulfur compounds from hydrocarbon oils comprising contacting said oil with an aqueous solution of a compound selected from the group consisting of alkali metal hydroxides and carbonates in the presence of a comminuted alloy comprising a metal selected from the group consisting of copper and nickel and an element selected from the group consisting of silicon, beryllium, aluminum and zinc.

2,420,219

CUTTER BAR CONTROL

Ernest W. Baldwin, Ottawa, Kans., assignor, by mesne assignments, to Baldwin-Ward Manufacturing Co., Inc., Ottawa, Kans., a corporation of Kansas
Application July 8, 1944, Serial No. 543,982
2 Claims. (Cl. 56—208)

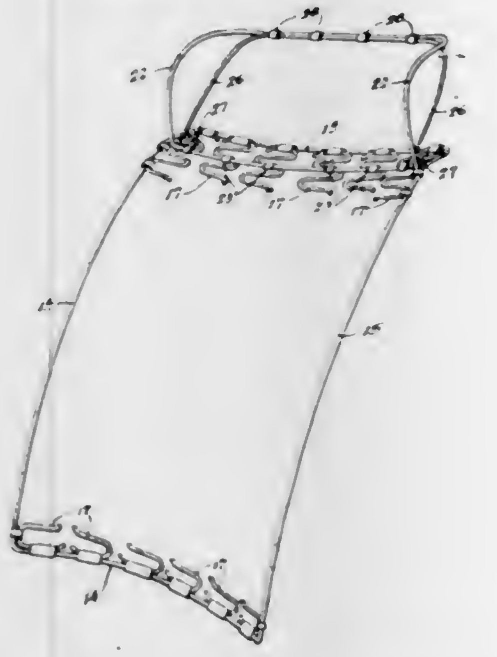
1. A cutter bar control for combines or like implements comprising a pivoted support, a housing forming a part of said support; a screw rotatably mounted in said housing; a follower block threaded onto the screw; a cutter bar pivotally mounted to swing relative to said support; members pivotally interconnecting said block and the cutter bar; a prime mover on the support operably joined to the screw and being operable for rotating the screw in either direction for raising and lowering the block and the cutter bar pivotally connected thereto to and from predetermined positions along their respective paths of travel; and means for pivotally mounting the support and parts carried thereby for bodily swinging movement as the cutter bar is adjusted whereby said housing and cutter bar each are caused to swing in relation to each other to permit a change in the angularity therebetween.



2,420,220

SEAT BACK CONSTRUCTION

Walter F. Bartlett, La Grange, and Mitchell J. Grzenia, Chicago, Ill., assignors to S. Karpen & Bros., Chicago, Ill., a corporation of Illinois
Application July 13, 1944, Serial No. 544,654
4 Claims. (Cl. 155—179)

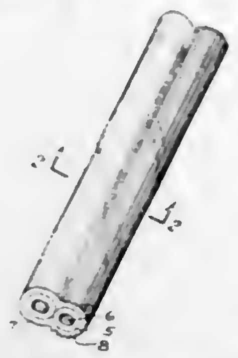


1. A seat back construction comprising a frame having top and bottom cross members bowed inwardly between their ends and flexible side members connecting the top and bottom members, a series of sinuous springs extending between the top and bottom cross members and formed with laterally extending loop portions, the intermediate springs being bowed outwardly between their ends substantially into alignment with the side members, transverse coil springs extending between the side members and coiled around the loop portions of the sinuous springs, a headrest hinged to loop portions of the sinuous springs adjacent the top of the back, and cantilever springs hooked over loop portions of the sinuous springs adjacent the headrest hinge and engaging the headrest to urge it away from the back.

2,420,221

DUPLEX WELDING TUBE

Charles J. Bell, Chicago, Ill., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application October 8, 1945, Serial No. 621,030
1 Claim. (Cl. 138—87)



In a duplex welding hose, two tubes positioned in contact and enclosed in a continuous cover of material having ruber-like characteristics, means for identifying the tubes by touch alone comprising a series of longitudinal ribs on substantially one-half of the cover and a smooth surface on the other half.

2,420,222

METHOD OF PREPARING FLUORO-CHLORO COMPOUNDS

Anthony F. Benning, Woodstown, N. J., and Joseph D. Park, Wilmington, Del., assignors to Kinetic Chemicals, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application June 23, 1945, Serial No. 601,356
2 Claims. (Cl. 260—653)

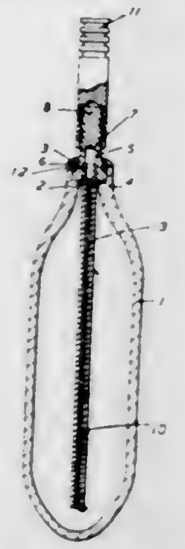
1. The process which comprises heating polymeric trifluoromonochloroethylene, having a melting point above 300° C., at a temperature between 400° C. and 700° C. in the substantial absence of reactive substances for a sufficient period of time to convert the major proportion of the polymer to monomeric trifluoromonochloroethylene and then promptly cooling the products, and separating monomeric trifluoromonochloroethylene from the products.

2,420,223

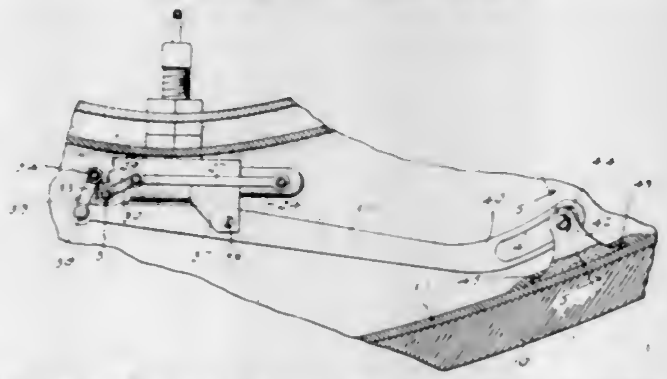
ATOMIZER

William Brewer, Edmonton, London, England, assignor to Sparklets Limited, London, England, a British company
Application March 21, 1944, Serial No. 527,420
In Great Britain January 20, 1944
1 Claim. (Cl. 299—95)

Means for producing a spray of atomized liquid comprising in combination a container adapted to contain under pressure the liquid to be atomized, and provided with a relatively wide filling opening to permit the container to be initially charged with said liquid, an abutment in said filling opening, a closure member adapted to be mounted in said filling opening so as to permit the container to be charged with a gaseous propellant and means for securing said closure member in fluid-tight connection with said opening after said container has been charged with the gaseous propellant, said means comprising an inwardly-directed lip comprising the inturned end of said filling opening whereby said closure member is clamped in fluid-tight manner against said abutment, a fluid delivery tube extending inwardly from said closure member and terminating close to the bottom of said container, and a frangible projection extending outwardly from said closure member as an integral part thereof, and having an internal bore normally closed at its outer end and communicating with said delivery tube, said frangible projection having a weakened section to enable it to be readily flexed and fractured whereby said delivery tube is opened to release the liquid from the container in the form of an atomized spray.



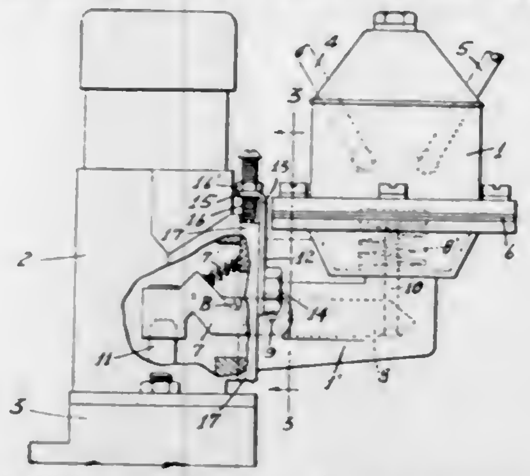
2,420,224
TIRE INFLATOR
Carl Victor Bymark, Biwabik, Minn.
Application August 21, 1944, Serial No. 550,419
1 Claim. (Cl. 152—426)



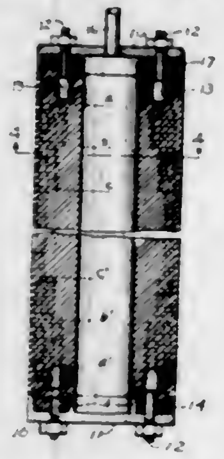
A tire inflating device comprising the combination with an innertube and a tire, of an air pump disposed within the innertube and fixed relative to said tire and rotatable therewith, said pump including a cylinder, a piston slidable in said cylinder, a valve stem comprising a ball check valve connected to said cylinder, a bell crank rockably carried by one end of said cylinder, a pair of arms carried by the other end of said cylinder, a link connected to said piston in said other end of said cylinder and one arm of said bell crank, an elongated operating lever pivotally carried by said arms extending from said other end of said cylinder, a second link connecting one end of said lever to the other arm of said bell crank, an elongated opening in the other end of said lever, means fixed relative to said tire slidably connected with the other end of said lever through said elongated opening whereby to rock said lever and reciprocate said piston at each revolution of said tire with said tire in partially deflated condition.

2,420,225
FUEL PUMP ADJUSTOR
William J. Chilcott, Wichita, Kans.
Application January 12, 1946, Serial No. 640,943
3 Claims. (Cl. 103—218)

1. In a fuel pump adjuster of the class described, a member comprising two legs extending in parallelism from a crotch that connects the legs, the ends of the legs opposite the crotch being bored adjacent their extremities, bolts extending through the apertures, a flanged fuel pump and an oil tube to which the flange of the pump is secured by said bolts, the bolts being reduced in diameter intermediate their ends to loosely engage in an aperture extending through said flange as means to permit vertical adjustment of the fuel pump when the bolts are loosened, and means on the crotch for vertical movement of the pump to a desired position, the bolts when tightened snugly bind the member and flange to the oil tube whereby a predetermined stroke for the fuel pump's lever may be attained to regulate a suitable supply of fuel through the pump.



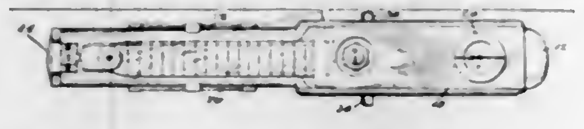
2,420,226
OIL WELL PACKER
Clyde R. Claus, Denver, Colo., assignor to Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application November 3, 1944, Serial No. 561,661
4 Claims. (Cl. 166—10)



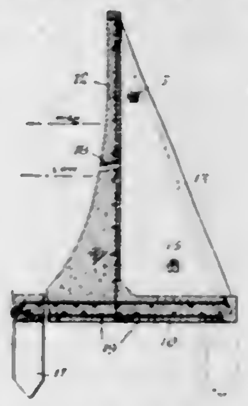
1. A well packer comprising a tubular cylindrical body formed in part from rubber composition, end closures therefor, one of which has an opening for the admission of a fluid under pressure, and reenforcing clements in the wall of the body, said elements comprising flat rings of woven fabric of larger inside diameters than the opening in the body, positioned in concentric relation to the cylindrical body, the rings being spaced substantially uniformly throughout the length of the body, the width of the rings decreasing from the ends towards the center, whereby the body will expand at a greater rate at the middle than at any other point in its length.

2,420,227
NEPHOSCOPE
William Knowlton Coburn, Cambridge, Mass., assignor to Serdex, Inc., Boston, Mass., a corporation of Massachusetts
Application March 2, 1946, Serial No. 651,661
4 Claims. (Cl. 161—18)

1. Nephoscope which comprises an elongated handle of pistol-shape, a rigid scale pivotally secured to said handle adjacent the barrel end and arranged either to be folded flat against said handle or to be extended at a predetermined angle thereto, a glow discharge tube secured in said handle adjacent the grip end thereof and arranged to be visible simultaneously with the extended scale, an oscillating circuit having elements thereof secured within said handle and including said glow discharge tube, and means for controlling said oscillating circuit.

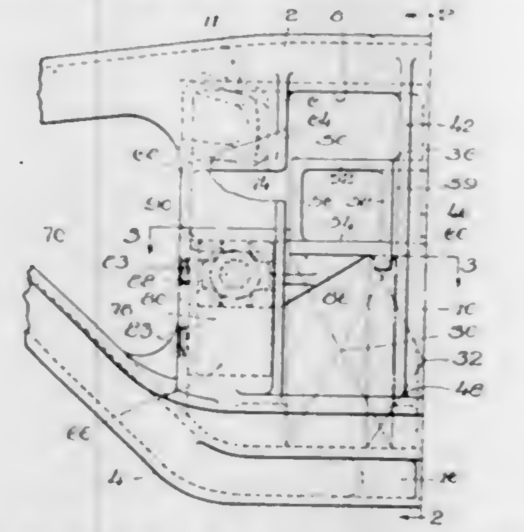


2,420,228
BULKHEAD AND DOCK
John Condon, Whitestone, N. Y., assignor of one-half to Richard J. Welsh, Long Island City, N. Y.
Application September 27, 1945, Serial No. 618,937
6 Claims. (Cl. 61—49)



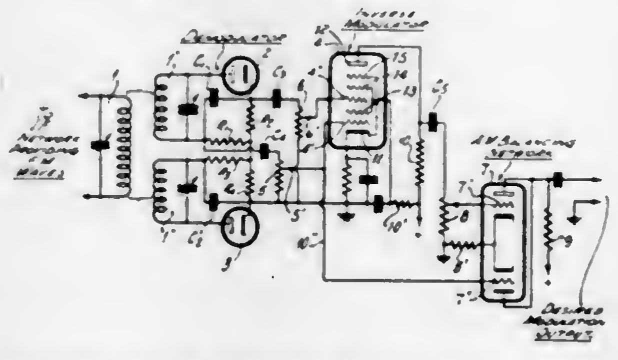
1. A bulkhead comprising a relatively narrow base adapted to cover a relatively small area, anchor dowels connected to said base, a wall on said base, and reinforcing members braced between said base and said wall, said base, dowels, wall and reinforcing members constituting a unitary construction.

2,420,229
CAR TRUCK
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 3, 1944, Serial No. 543,224
33 Claims. (Cl. 105—197)



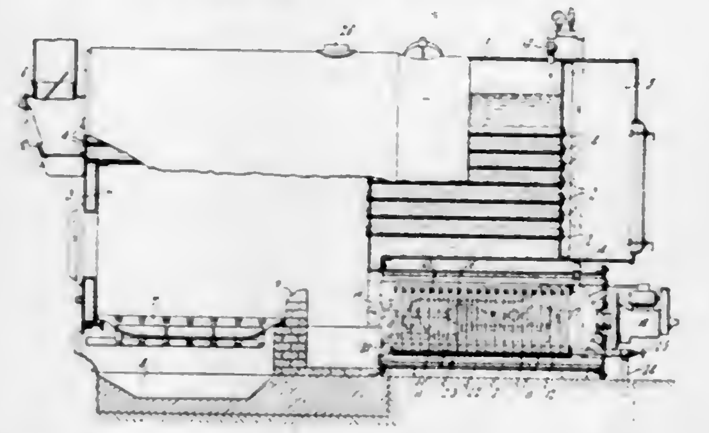
29. In a railway car truck, a side frame comprising spaced columns, each column having spaced inboard and outboard walls, a plurality of springs supported on said frame between said columns, a bolster supported from said springs and having members integral with the bottom thereof and extending between certain of said springs and toward respective columns, and friction means associated with said members and having engagement with friction means supported by said walls.

2,420,230
PHASE MODULATION RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application October 25, 1941, Serial No. 416,443. Divided and this application October 31, 1944, Serial No. 561,289
8 Claims. (Cl. 250—27)



1. A method of receiving phase modulated carrier waves which have undesired amplitude modulation thereon, which includes deriving a first modulation voltage from the waves corresponding to the phase modulation and undesired amplitude modulation, deriving from the phase modulated carrier waves filtered carrier energy, combining said filtered energy and unfiltered phase modulated carrier waves in such phases as to provide a second modulation voltage corresponding to said undesired amplitude modulation, and subjecting both said modulation voltages to a modulation step in such relative phases that said undesired amplitude modulation of said first modulation voltage is substantially reduced.

2,420,231
AUXILIARY BOILER
Michael C. Crotty, Flushing, N. Y., assignor to Crotty Manufacturing Corporation, New York, N. Y., a corporation of New York
Application June 13, 1944, Serial No. 540,085
5 Claims. (Cl. 122—4)

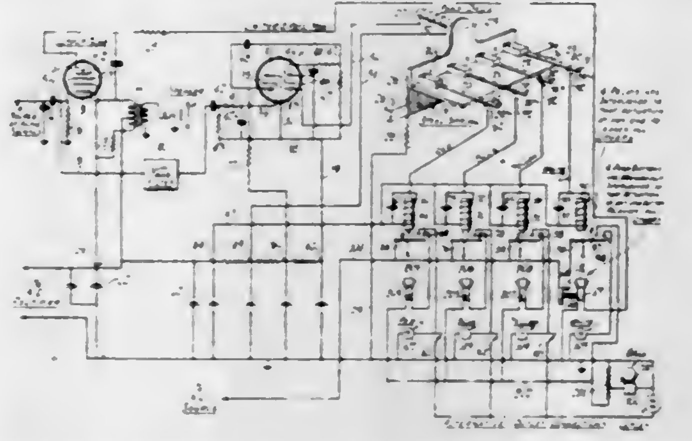


1. In a steam heating system a main furnace combustion chamber, a tubular boiler associated therewith, and a secondary furnace auxiliary to said main furnace, said auxiliary furnace comprising a plurality of annular tubes connected at top and bottom by headers and a combustion chamber embraced within said tubes; a pipe connection between said bottom header and the

water in said boiler and a pump in said pipe connection between said boiler and said bottom header; a second pipe connection between said top header and said boiler above the level of water in said boiler, and pressure drop means at the outlet of said second pipe connection into said boiler; an opening from the combustion chamber of said auxiliary furnace communicating with the combustion chamber of said main furnace whereby combustion gases from said auxiliary furnace escape into the combustion chamber of said main furnace and baffle means within said main furnace opposite the communicating outlet of said auxiliary furnace whereby the gases of combustion escaping from said auxiliary furnace into said main furnace are caused to eddy within said main furnace combustion chamber and to pass through the boiler tubes together with the gases of combustion of said main furnace.

2,420,232
SIGNALING SYSTEM

Harmon B. Deal, Glen Ridge, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 21, 1942, Serial No. 469,604
1 Claim. (Cl. 177—353)



In a signalling system, a plurality of differently colored lamps representative of different signals, means providing said different signals, a plurality of reeds each selectively resonant to a respective one of said signals, means responsive to said signals for selectively vibrating said reeds, a plurality of separate lamp energizing circuits each including a respective one of said lamps in circuit, a respective relay-actuated circuit closer included in each of said energizing circuits, each of said reeds being constructed to function as a circuit closer for a respective one of said relays upon reed vibrations, said relays being interlocked so that energization of any one releases all the others, an alarm bell, a bell energizing circuit respective to each relay-actuated circuit closer, and a plurality of interlocked bell silencing buttons for selectively breaking the respective bell energizing circuits.

2,420,233
PRODUCTION OF ALUMINUM SALTS OF ORGANIC ACIDS

Lawrence John Edwards, Stratford, London, England, assignor to A. Boake, Roberts & Company Limited, Stratford, London, England, a British company
No Drawing. Application August 31, 1944, Serial No. 552,218. In Great Britain September 7, 1943
20 Claims. (Cl. 252—37.2)

1. A process for the manufacture of a viscosity-increasing agent for hydrocarbon oils, which comprises the following steps: (1) precipitating hydrated aluminum oxide in an aqueous medium by interaction in solution therein of a water-soluble salt of aluminum and a water-soluble alkali, the precipitation being effected under conditions of agitation of the aqueous medium, under substantially non-alkaline conditions thereof and in the presence in dispersion in the medium of (*a*) a soap-forming fatty acid and (*b*) a hydrophylic colloid, thereby forming a composite precipitate filterable as such from the aqueous medium in which it has been formed and consisting of an "aluminum soap" as herein referred to carrying a proportion at least of the colloid that was present in said medium, (2) filtering the aluminum soap from the aqueous medium and (3) drying it to the form of a substantially dry powder dispersible as such in a hydrocarbon oil.

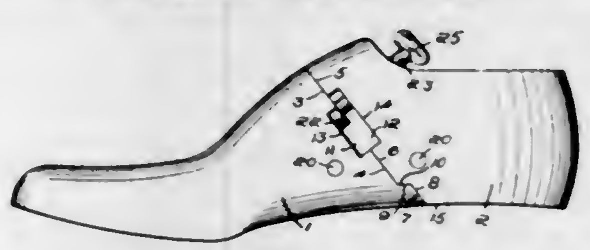
2,420,234
PURIFICATION OF LACTIC ACID

Edward M. Filachione, Philadelphia, and Charles H. Fisher, Abington, Pa., assignors to United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
No Drawing. Application May 27, 1944, Serial No. 537,664
12 Claims. (Cl. 260—535)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process of recovering lactic acid from acidified aqueous fermentation liquors which comprises reacting an alcohol therewith by passing a stream of the alcohol vapor in countercurrent flow and in contact with the acidified fermentation liquor at a temperature in the range 50° C. to 135° C., removing a vapor mixture comprising the alcohol, water, and the lactate of the alcohol, and converting the lactate of the alcohol to lactic acid.

2,420,235
LAST

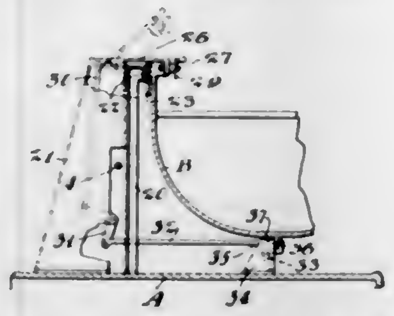
Jeremiah Fitzpatrick, Weymouth, Mass., assignor to Arnold Bros. Company, Weymouth, Mass., a corporation of Massachusetts
Application January 11, 1946, Serial No. 640,574
11 Claims. (Cl. 12—136)



1. A divided last having a fore part and a heel part provided with intermediate forwardly inclined surfaces and between certain of which surfaces sockets are formed, those of said inclined surfaces between which the sockets are formed meeting in a plane forwardly inclined to the longitudinal axis of the last when the last is in extension, and certain other of said surfaces then meeting in a plane substantially parallel with said first mentioned plane but rearwardly spaced therefrom, said surfaces being so related that said heel part of the last may slide in said planes and upon change in the relative position of said surfaces be movable longitudinally with entry by certain of said surfaces into and out of said sockets whereby the longitudinal extension or contraction of the last will be accomplished by movement of the heel part along lines substantially parallel to the longitudinal axis of the last, and means connecting said parts whereby the relative positions thereof may be changed as aforesaid and the last be extended or contracted.

2,420,236
LIFEBOAT FASTENING MEANS

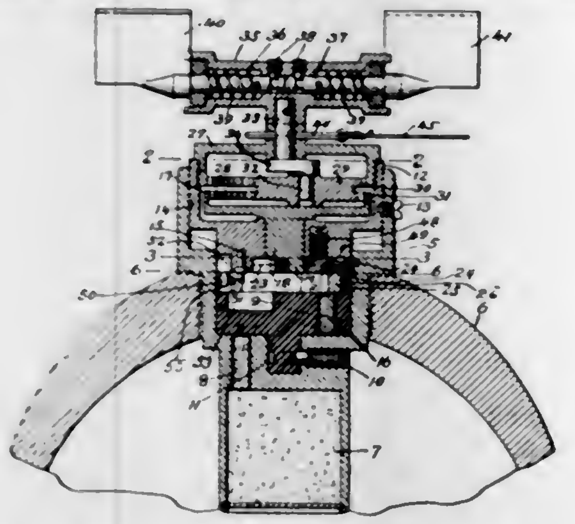
Peter Full, Vermillion, Ohio
Application November 17, 1944, Serial No. 563,818
3 Claims. (Cl. 9—46)



2. The combination with a boat, of a standard separate from and rising at a side of the boat, a plate fixed to the gunwale of the boat adjacent to said standard, said plate and standard having interengaging parts when one is resting against the other to prevent predetermined relative movements of the boat and standard, and a hasp carried by the standard and adapted to be swung over the plate and gunwale of the boat and having a free hook end extending at the inner side of the gunwale, and means carried by the hasp for releasable locking engagement with the gunwale to retain the interengaging parts in engagement.

2,420,237
BOMB FUSE DEVICE

Philias H. Girouard, Washington, D. C.
Application February 3, 1933, Serial No. 655,119
15 Claims. (Cl. 102—81.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a fuse, a body member having a transverse partition therein, there being a hole through said partition, a detonator holder rotatably mounted at one side of said partition, said holder having a recess opening on the side thereof opposite said partition and a hole therethrough adapted to be brought into registry with the hole in said partition, a lug on said holder adjacent the hole therein having a slot in its free end, a member slidably and rotatably mounted in said body, shearable means normally acting to prevent sliding movement of said member, a lug extending from said member toward said detonator holder to engage said lug on the holder to move said holder to align the hole therein with the hole in said partition, a firing pin positioned on said member to be aligned with both said holes when said holes are aligned, a fixed lug on said body to engage said lug on the holder and stop the holder when said holes are aligned as aforesaid, a second lug on said holder engageable with the lug on said member to move said holder to the position in which said holes are not aligned, a locking element slidably mounted in said member to engage said slotted lug and said body in one relative position of these parts and having a transverse slot therein and a depression in its outer surface, a loop depending from said member and passing under said element to contact said detonator holder except when disposed over the recess in said holder, a spring pressed plunger in said member adapted to engage said depression when said element is in the unlocked position, a shaft journaled in said member, an eccentric pin projecting from said shaft into the slot in said element, a first internal gear having a disk body mounted on said shaft, a second internal gear having a slightly greater number of teeth than the first internal gear connected to said member and disposed adjacent said first internal gear, a pinion disposed to be slidable on the body of said first internal gear and having two sets of gear teeth each of which sets of teeth is engaged with one of said internal gears, a shaft rotatably mounted in said second internal gear, a crank including a crank arm and a pin journaled in said pinion and connected by the crank arm to the last mentioned shaft, a T-shaped member having the stem thereof fixed to the last mentioned shaft, a vane shaft journaled in each end of the head of said T member, a propeller vane secured to the outer end of each of said vane shafts, said head having stops to limit the rotation of said vane shafts and resilient means normally holding said vanes directed outwardly from a bomb by which said fuse is carried.

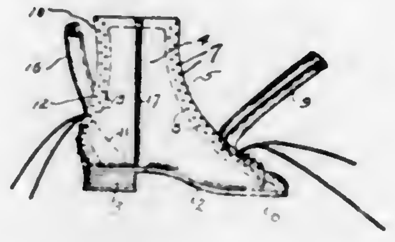
2,420,238
STABILIZED FAT COMPOSITIONS

Paul Gyorgy, Cleveland, Ohio, assignor to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application June 7, 1944, Serial No. 539.187
8 Claims. (Cl. 99—163)

2. A stabilized composition of matter comprising a substance containing a significant percentage of fats susceptible to oxidation, and a small, effective amount of a mixture of a crude source of vitamin B complex and a monoether of hydroquinone selected from the group consisting of monomethyl and monobenzyl ethers.

2,420,239
CONVALESCENT SHOE

Nathan Hack, Detroit, Mich., assignor to Hack Shoe Company, Detroit, Mich., a partnership
Application May 3, 1945, Serial No. 591,653
5 Claims. (Cl. 36—8.5)



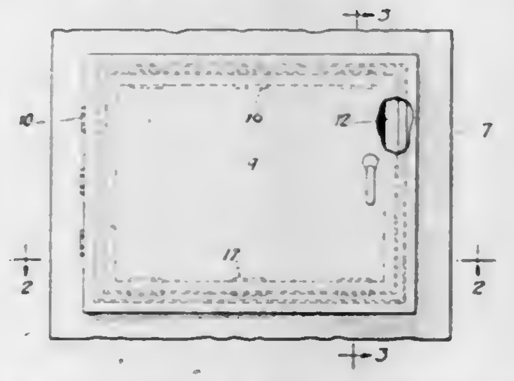
1. A surgical shoe comprising an insole, a relative stiff outsole and an upper, said upper hav-

ing a split at the front and at the back, the back split extending entirely from the top of the upper to said sole, a tongue in the shoe at each split, the tongue at the back split having its lower end fastened between said insole and outsole, whereby to clear the lower end of said back split.

2,420,240

MEANS FOR THE PREVENTION OF FROST ON REFRIGERATOR DOORS

William B. Haggerty, Tampa, Fla.
Application March 13, 1945, Serial No. 582,527
4 Claims. (Cl. 62—89)

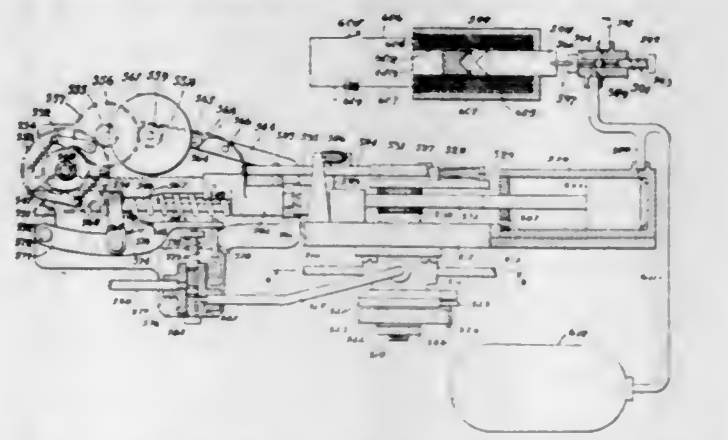


1. A refrigerator of the character described including a low-temperature cabinet having an access opening thereto defining a frame, a door for closing said opening, means for forming a continuous closed air passage between the door and frame when the door is closed, positive means for heating said passage, and means for connecting the continuous closed air passage with the interior of the cabinet to provide a convection flow air circulation therethrough that prevents the accumulation of frost on the door frame.

2,420,241

TORPEDO CONTROL VALVE

John Hays Hammond, Jr., Gloucester, Mass., assignor to the United States of America, as represented by the Secretary of the Navy
Application November 6, 1935, Serial No. 48,584
6 Claims. (Cl. 137—144)

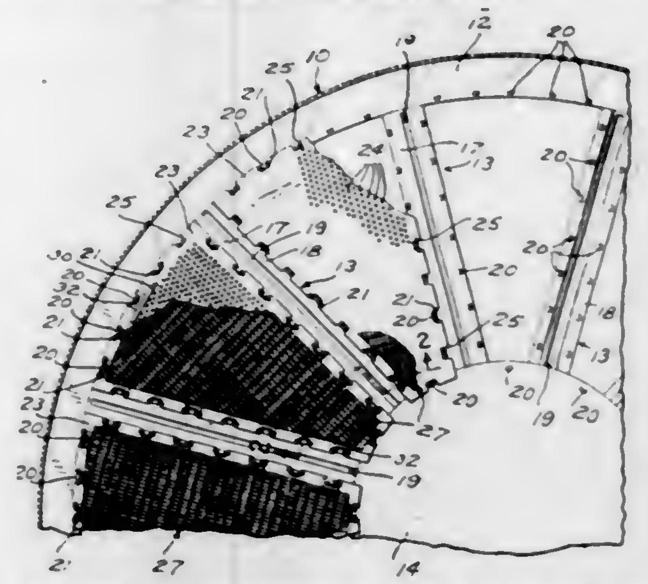


6. Mechanism as described, comprising a fluid control valve having an inlet port, two outlet ports and an exhaust port and a member settable to connect either one of said outlet ports to said inlet port, means to actuate said settable member to connect one said outlet port to said inlet port by one impulse and to connect the other said outlet port to said inlet port by two impulses, means to apply said impulses to said actuating means, means to supply fluid to said valve, and means to delay automatically the supply of fluid to said valve for a predetermined time after the application of an impulse to said actuating means.

2,420,242

GAS SCRUBBER

Robert R. Harmon, Charlottesville, Va., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application February 19, 1946, Serial No. 648,797
6 Claims. (Cl. 261—113)

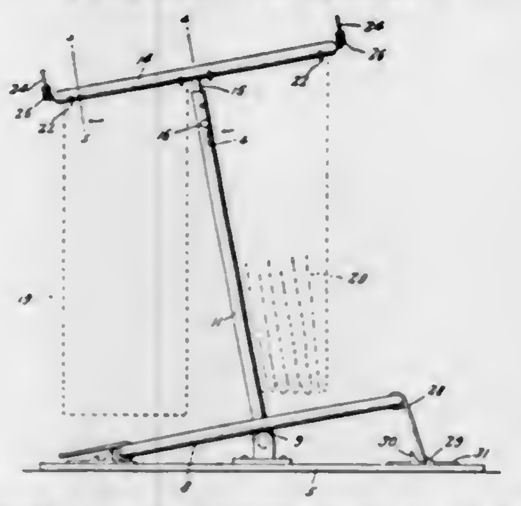


1. A diaphragm assembly for a gas and liquid contact apparatus, comprising a perforated plate having marginal slots for securing said plate to a support, and a baffle grid adapted to be superimposed upon said perforated plate and having a spacer on the engaging surface thereof for spacing said plates apart, and slotted ears extending outwardly from said spacer for securing said baffle plate to a support.

2,420,243

SACK HOLDER

Clyde E. Helms, Alamosa, Colo.
Application November 24, 1945, Serial No. 630,597
4 Claims. (Cl. 248—99)



1. A sack holder comprising an upstanding rockable support, a horizontal sack holding member at the upper end of the support and adapted for suspending a sack from each end thereof for alternate movement into and out of position under a sack filling device, and locking means securing the support in tilted position.

2,420,244

RECOVERY OF NAPHTHENIC ACIDS

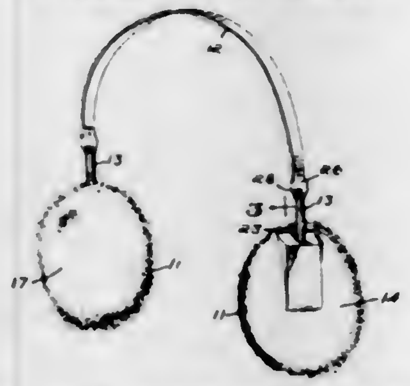
Lawrence M. Henderson, Winnetka, and George W. Ayers, Jr., Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application December 26, 1942, Serial No. 470,301
2 Claims. (Cl. 260—514)

1. The method of separating naphthenic acid soaps from aqueous sodium hydroxide solution containing at least 10% by weight of free sodium hydroxide and substantially free from solventizers comprising cooling the solution to a temperature not below approximately 50° F. at which said naphthenic acid soaps separate from said solution as a supernatant solid and separating the solid from the solution.

2,420,245

PLASTIC EAR MUFF

Samuel Hurst, Boston, Mass.
Application October 26, 1945, Serial No. 624,661
7 Claims. (Cl. 2—209)

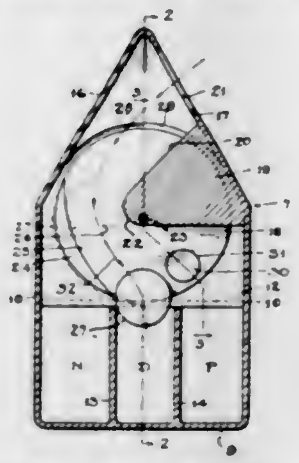


1. An ear muff comprising a molded plastic backing having a peripheral rim, a retaining ring having a flange larger than said rim, and a pad having its margins folded over said flange and under said rim and secured between said flange and rim, the edge of the backing rim having a groove receiving the edge of the pad.

2,420,246

COIN BANK

Philip B. Keller, Santa Monica, Calif.
Application June 17, 1946, Serial No. 677,140
16 Claims. (Cl. 232—5)

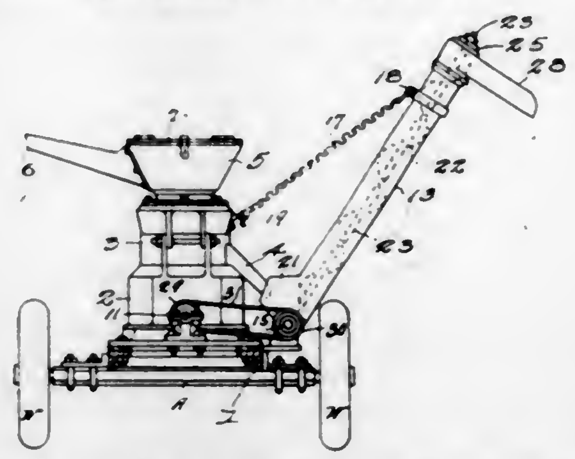


8. In a classifying coin bank, means defining a coin passage, said means including a downwardly inclined rollway, and a rotatable disc having a barrier spaced from an extremity of said rollway to define a restricted pass, and three coin receptacles disposed below said disc, said barrier being arranged to guide a coin of minimum size through said pass into a first receptacle, to be moved downwardly by an intermediate sized coin temporarily arrested at said pass, and to thereby move to an inclined position in which said pass is widened sufficiently to permit said intermediate sized coin to pass therethrough and in which position it will then guide said intermediate sized coin to a second receptacle, and to be moved by a maximum sized coin to a position in which its direction of inclination is reversed with reference to the aforesaid inclined position, in which position of reversed inclination, said maximum sized coin will back-track and move into the third receptacle.

2,420,247

CONVEYOR MECHANISM FOR PORTABLE GRINDING MILLS

Thomas D. Kidd, Mendota, Ill., assignor of fifty one-hundredths to Ray Kreiser, Mendota, Ill.
Application September 20, 1944, Serial No. 554,941
4 Claims. (Cl. 198—53)

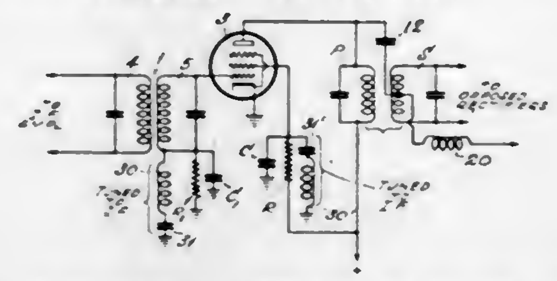


1. In a grinding mill, the combination with a lower operating shaft and drive means therefor, an upper horizontally swiveled feed hopper, and a lateral discharge port and chute, of an auxiliary driven shaft and power transmission means between said shaft and the operating shaft, a screw conveyer having an intake end co-acting with the chute and pivotally supported on the auxiliary shaft, and a bevel gear-couple between the auxiliary shaft and the screw conveyer.

2,420,248

AMPLITUDE LIMITER CIRCUIT

Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 19, 1944, Serial No. 545,664
6 Claims. (Cl. 250—20)



1. In combination between a source of frequency modulated wave energy and a frequency discriminator circuit having a predetermined response characteristic, an amplitude limiter tube including a cathode, signal grid, plate and auxiliary cold electrode adjacent the plate, means for applying a positive potential to each of the auxiliary cold electrode and the plate, means in circuit with each of said signal grid and auxiliary cold electrode for providing a fast-acting gain control over the limiter tube for carrier amplitude variations in excess of a predetermined value, and means in circuit with the auxiliary electrode for providing a controlled minimum voltage therefor.

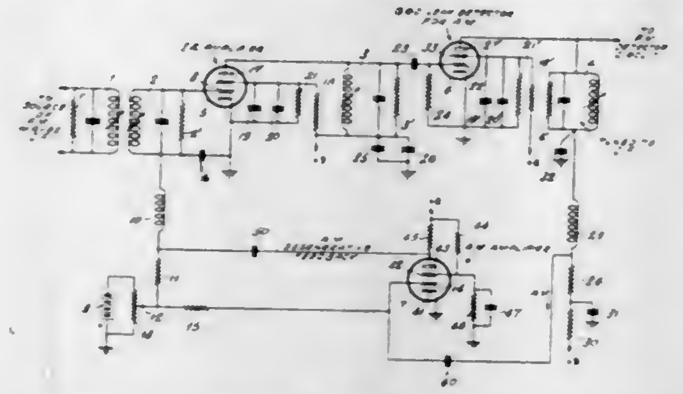
2,420,249

AMPLITUDE MODULATION REDUCING CIRCUIT

Nathaniel I. Korman, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 29, 1944, Serial No. 547,116
10 Claims. (Cl. 179—171)

8. In combination, a source of angle modulated carrier waves, a transmission network for the

modulated waves, an amplifier for the transmitted modulated waves, means operatively associated with said amplifier to render it operative as a detector of undesired amplitude variations in the angle modulated carrier waves applied thereto, means for deriving from the output of said amplifier voltage representative of detected undesired amplitude variations, and a circuit for utilizing said derived voltage to control the transmission of said network in a sense substantially to reduce said undesired amplitude variations.



2,420,250
METHOD OF PREPARING GAMMA-VALEROLACTONE

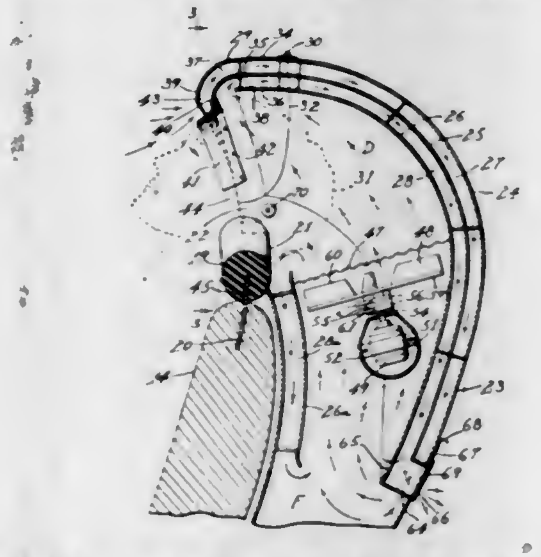
Lucas P. Kyrides, Webster Groves, and Ferdinand B. Zienty, St. Louis, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 8, 1944, Serial No. 553,288
9 Claims. (Cl. 260—344)

1. The method of preparing gamma-valerolactone comprising heating 1,4-pentanediol in the presence of a catalyst comprising copper chromite until evolution of hydrogen has ceased, and subsequently recovering gamma-valerolactone from the reaction mixture.

2,420,251
HAIR DRIER WITH AIR RECIRCULATING MEANS

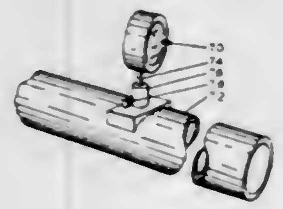
Frank La Foriyes, Rockford, Ill.
Application May 8, 1944, Serial No. 534,554
17 Claims. (Cl. 34—100)



1. A hair drier for use with a chair having a reclining back portion, said hair drier comprising a vertically elongated housing disposed behind and adapted to be supported in rigid relation to said chair and providing a drying chamber therein open at one side above the back portion of the chair to accommodate the scalp portion of the head of an occupant in the chair, electrical air heating means and electrically operated air circulating means in said drier housing below the drying chamber for delivering warm air upwardly to said drying chamber, a neck rest of cushion material of arcuate form to fit the back of the neck of the chair occupant and supported on the top of the back portion of the chair, the lower wall of said chamber being cut away to provide an opening to receive said neck rest and the latter being compressed in said opening to seal the same, and a hinged top front section on said drier housing which is of arcuate form to conform generally to the forehead of the chair occupant and having an arcuate sealing strip of flexible material carried thereon and projecting therefrom for sealing contact with the forehead and temples of the chair occupant.

2,420,252
OPTICAL INTERFERENCE SIGHT FOR GUNS, CAMERAS, OR THE LIKE

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application March 23, 1945, Serial No. 584,295
30 Claims. (Cl. 88—65)

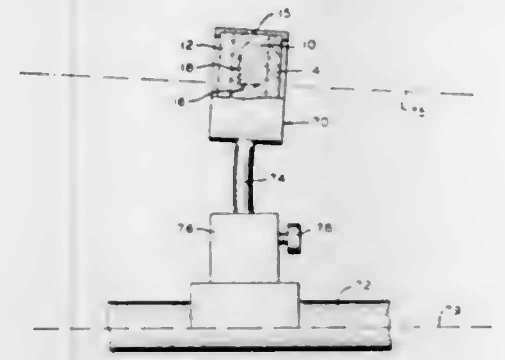


1. In combination with an instrument such as a gun, camera or the like having an axis which determines the direction of operation of said instrument, sighting means comprising, in combination, means providing a transparent viewing area having a viewing axis, means for forming an interference pattern at optical infinity visible to an observer looking through said viewing area, said pattern-forming means producing a central interference indicium appearing concentric with said viewing axis at optical infinity and serving as a reticle for said sighting means, said pattern-forming means also producing a predetermined series of other interference indicia appearing at optical infinity and being predeterminedly angularly related to said viewing axis, and means for so mounting said sighting means in operative relation with said instrument that said viewing axis bears a predetermined relationship with said instrument axis, whereby said indicia bear predetermined angular relations with said instrument axis.

2,420,253
OPTICAL INTERFERENCE SIGHT FOR GUNS, CAMERAS, OR THE LIKE, INCLUDING POLARIZERS AND A BIAXIAL BIREFRINGENT ELEMENT

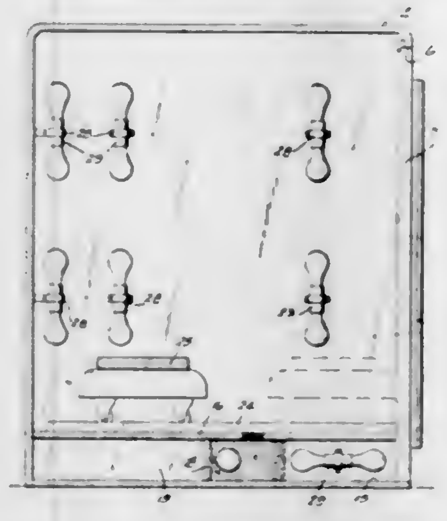
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application April 23, 1946, Serial No. 664,391
20 Claims. (Cl. 88—65)

1. In combination with an instrument such as a gun, camera or the like having an axis which determines the direction of operation of said instrument, sighting means comprising, in combination, means providing a transparent viewing area, a plurality of light polarizing elements positioned in superimposed relation within the line of sight through said viewing area, said second-named means additionally including a support for said elements, and a biaxial birefringent element positioned between said polarizing elements, said birefringent element having an optic axis and being of such birefringence and being so positioned between said polarizing elements as to form an interference pattern at optical infinity visible to an observer looking through said viewing area, said birefringent and polarizing elements producing a central interference indicium appearing concentric with said optic axis at optical infinity and serving as a reticle for said sighting means, said elements also producing a predetermined series of other indicia appearing at optical infinity and being predeterminedly angularly related to said optic axis, and means for mounting said support on said instrument so that said optic axis bears a predetermined relationship with said instrument axis, whereby said indicia bear a predetermined relationship with respect to said instrument axis.



2,420,254
PHYSIOTHERAPY CABINET

Rudolf Emil Lind, Milwaukee, Wis.
Application November 4, 1944, Serial No. 561,902
8 Claims. (Cl. 128—373)



7. A physiotherapy cabinet having at its front a doorway and a door movable between open and closed positions, guide means extending into the cabinet at each side of the doorway, said cabinet being provided with a floor adjacent to the doorway and below the level of the guide means and adapted to receive a patient's feet, and a seat wholly supported on said guide means within the cabinet and extending transversely between the guide means and reciprocable in the cabinet to and from the doorway, said seat being adapted, when adjacent the doorway, to receive a patient seated backward thereon and to carry the body of the seated patient into the cabinet while the patient's feet rest on said floor in a position which does not interfere with the patient's manipulation of said door.

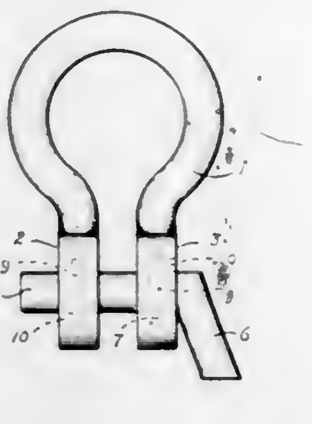
2,420,255
MANUFACTURE OF ADDITION COMPOUNDS OF LACTIC ACID SALTS WITH ACETIC ACID

Ritchie Hart Lock, Chigwell, England, assignor to Howards & Sons Limited, Ilford, England
No Drawing. Application June 23, 1945, Serial No. 601,353. In Great Britain June 22, 1944
11 Claims. (Cl. 260—535)

9. An addition compound of an alkaline earth metal lactate with acetic acid.

2,420,256
SHACKLE

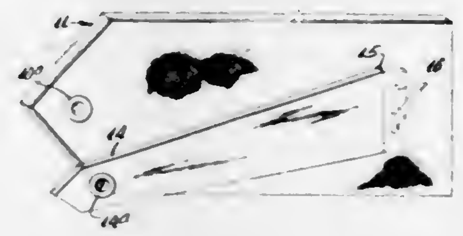
Neil J. MacKenzie, Superior, Wis.
Application October 14, 1944, Serial No. 558,665
2 Claims. (Cl. 59—86)



1. In a shackle having a pair of spaced arms, with aligned bolt-receiving openings therethrough, a major annular keyway within each of said openings, minor diametrically opposed keyways one through the outermost wall of each of said major key ways, a bolt for engagement within said openings from either of opposite sides of said shackle, said bolt carrying a locking key extending radially therefrom for selective entrance into either of said annular key ways through its respective minor keyway.

2,420,257
SHOULDER MARK

Solomon Mars, New York, N. Y.
Application August 18, 1944, Serial No. 550,089
4 Claims. (Cl. 2—246)



4. A shoulder mark having a rigid shoulder board and a fabric casing enclosing the same, said casing having a slit therein disposed across one end of the shoulder board and adjacent to the bottom face of the shoulder board, said shoulder board being provided with a plurality of slots disposed in a row parallel to the slit, and each of said slots having a wide and a narrow end, a flexible strap disposed under and against the bottom face of the shoulder board and having one end thereof extended through said slit into said casing, and studs carried by said end engageable with the slots of the shoulder board to detachably couple said flexible strap to the shoulder board, the board and strap having openings in their outer end to receive a tie.

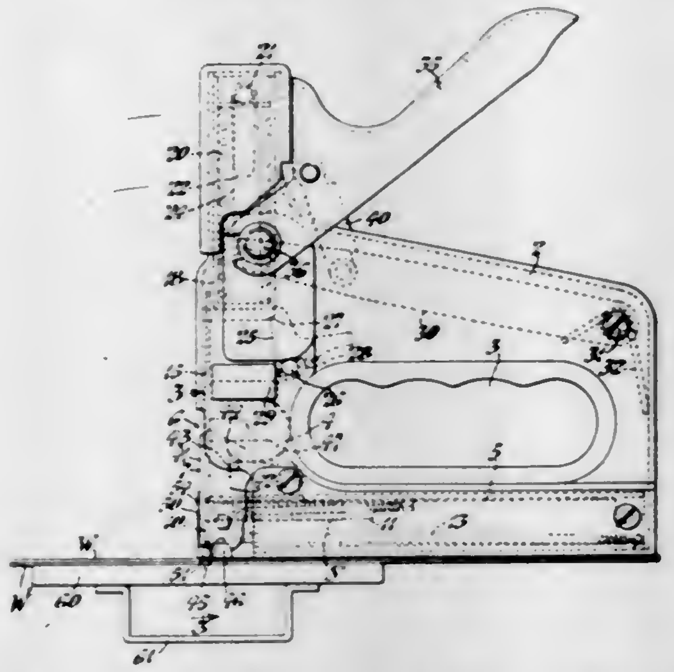
2,420,258

FASTENER-APPLYING IMPLEMENT

Arthur H. Maynard, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine

Application December 31, 1943, Serial No. 516,454

4 Claims. (Cl. 1—49)



1. A device for fastening together various articles and objects comprising a fastener-applying implement having means for driving U-shaped staples into the work, a resilient deflector-element mounted on the implement and provided with inclined cam-faces positioned in the path of a staple being driven, said cam-faces being arranged to engage and deflect the legs of the staple inwardly in converging relationship as the staple is driven, and means for flexing the deflector-element to withdraw its cam-faces from engagement with the legs of the staple at the end of the driving operation.

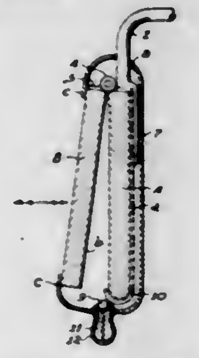
2,420,259

ANTIGLARE REAR VIEW MIRROR

Harold McNamara, Butler, Pa.

Application April 10, 1944, Serial No. 530,299

6 Claims. (Cl. 88—77)



1. In combination with a fixedly held full value reflecting mirror, a movable enclosing frame, a front semi-transparent mirror fixedly mounted in the frame and movable therewith, and means for adjusting the frame and front mirror outwardly from or inwardly towards the fixed mirror including hinge connections between the two mirrors and with the frame.

2,420,260

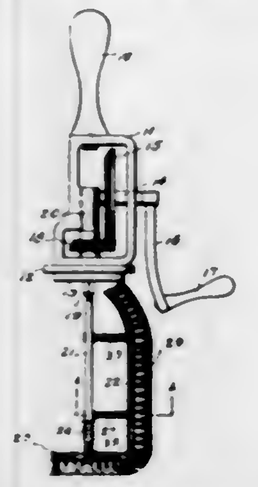
FRUIT JAR WASHER

Anton O. Myszkowski, Gilman Hot Springs, Calif.

Application March 22, 1945, Serial No. 584,088

1 Claim. (Cl. 15—164)

A device of the class described comprising a central actuating rod, means for actuating said rod, a substantially L-shaped brushing element, a laterally extending telescoping supporting sleeve carried by the rod, said brushing element comprising a vertical brush-supporting plate having a horizontally extending portion projecting laterally beyond the central rod, the vertical plate having a vertical slot and the horizontal portion having a horizontal slot, the rod having a yieldable telescoping lower end slidably mounted in said horizontal slot and said laterally extending yieldable telescoping supporting sleeve being slidably mounted in said vertical slot thereby permitting vertical movement of the brushing element relative to said actuating rod, and also permitting lateral movement of the horizontal portion of the brushing element across the longitudinal axis of the control rod to completely scrub the bottom of a container in which the device is placed.



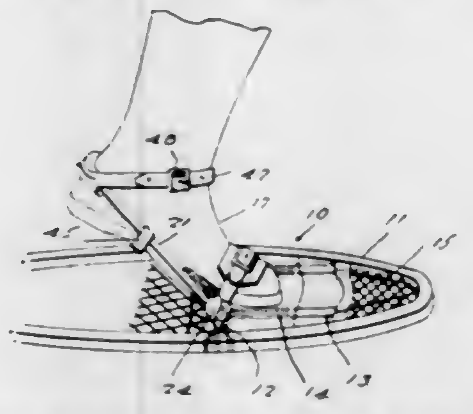
2,420,261

SNOWSHOE HARNESS

Joseph A. L. Nadeau. The Forks, Maine

Application August 22, 1944, Serial No. 550,597

5 Claims. (Cl. 36—4.5)



1. In combination with a snow shoe having a frame and a mainstay across said frame, a relatively rigid U-shaped stabilizer, the ends thereof being positioned adjacent said mainstay, a cover for said stabilizer, said cover terminating in flexible straps extending beyond the ends of said stabilizer, means for securing said straps about said mainstay, and buckles for retaining said straps in secured position.

2,420,262

METHOD OF REMOVING FIRE FILM FROM HEATED SILVER-COPPER ALLOYS

Malio Navaretta, Providence, R. I.

No Drawing. Application December 29, 1945, Serial No. 638,458

4 Claims. (Cl. 134—3)

1. The method of removing "fire" from heated silver-copper alloy articles comprising pickling said articles with a hot dip of dilute sulphuric acid to remove the carbon, treating the articles with a nitric acid fire dip to oxidize off the silver nitrate, leaving a milky "film of fire," immersing said articles at least once in an aqueous solution containing when prepared hydrogen perioxide equivalent to 90–120 cc. of 10 per cent of hydrogen peroxide solution and substantially one-half ounce sodium cyanide per gallon of water until said articles turn pink to remove all traces of silver oxide, immersing said articles at least once in a solution of 3–15 ounces of sodium cyanide per gallon of water until the red disappears thus removing all traces of copper from the sterling silver alloy residue, and washing the articles with an ammonia rinse, comprising ammonia, soap and water.

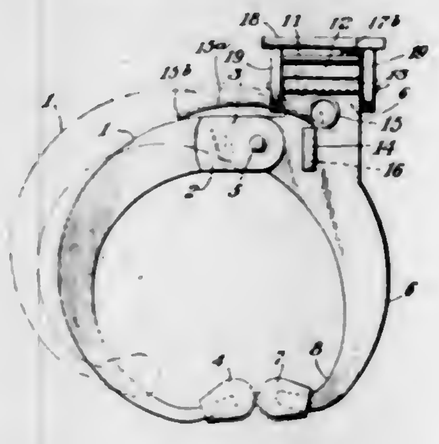
2,420,263

ATTACHMENT FOR HOLDING BAGS AND OTHER ARTICLES

James Papalexis, Ashtabula, and Oliver Warren Johnson, Geneva, Ohio

Application December 15, 1944, Serial No. 568,760

1 Claim. (Cl. 211—31)



A garment holder comprising a flat base plate adapted for attachment to the lower side of a horizontal support, spaced parallel lugs dependent from said base plate, the head of a C-shaped frame horizontally pivoted to said lugs, a flat spring attached to the underside of said base plate, said spring operatively engaging said head, said C-frame adapted for angular movement, a gooseneck formation of the lower section of said C-frame, a cushion pad on the end of said gooseneck, an outward extension on and adjacent to the head of said C-frame, the top end of a D-clamp pivotally attached to said extension, the lower end of said D-clamp enclosed by a cushion pad, said pad adapted to operatively engage the pad on said gooseneck, one portion of a helical spring rigidly attached to said head, the other portion of said spring adapted to engage in compressed relation the upper top surface of said D-clamp adjacent said D-clamp's pivotal connection to said head.

2,420,264

STABILIZING MEANS FOR THE CONTROL OF A FREQUENCY MODULATED ULTRA-SHORT WAVE TRANSMITTER

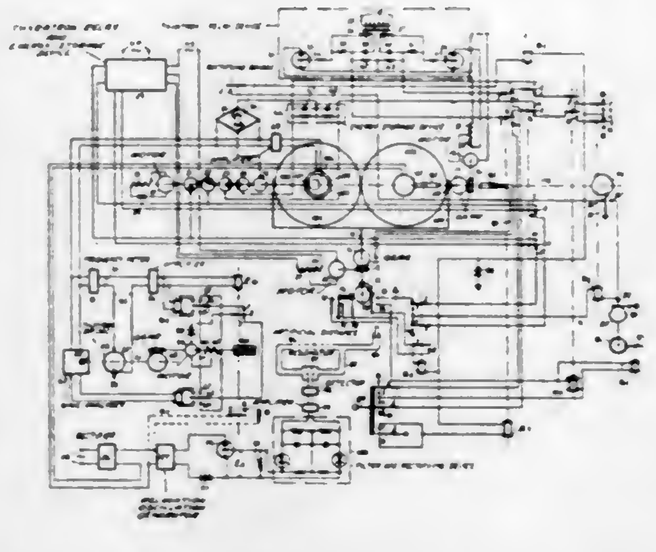
Helge Fabian Rost, Djursholm, Karl Harry Thunell, Nockeby, Sten Daniel Vigren, Stockholm, and Per Harry Elias Claesson, Jakobsberg, Sweden

Application June 30, 1942, Serial No. 449,100

In Sweden May 26, 1941

14 Claims. (Cl. 250—36)

1. Frequency stabilizing means for a frequency modulated ultra-short wave generator, comprising means for passing waves from said generator over two paths of different known fixed lengths, means for receiving and mixing said waves, after having passed over said two paths, in order to produce a control beat frequency, and regulating means responsive to the produced control beat frequency, said regulating means being interconnected between the said receiving and mixing means and said generator, whereby the said regulating means serves to regulate the transmitted frequency and its modulation upon variation of said control beat frequency from its normal value, which corresponds to the difference between the said fixed known lengths.



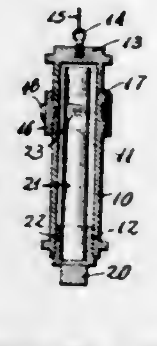
2,420,265

TALISMAN CONTAINER

Max Schick, New York, N. Y.

Application January 10, 1945, Serial No. 572,160

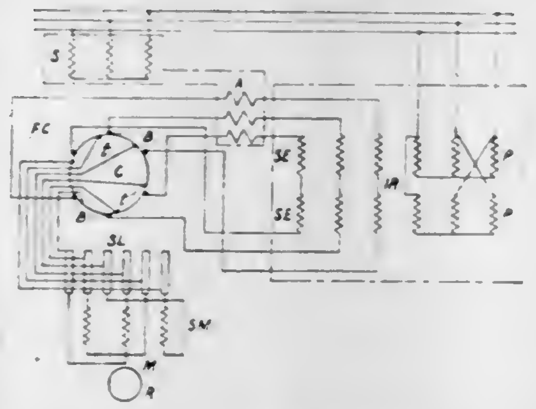
1 Claim. (Cl. 40—19)



A talisman container comprising a tubular container having a side window opening and an open end, a cover for closing said side window opening, a removable stopper for closing said open end slidably fitting in said open end and having an internal bore for receiving a roll of paper talisman, said stopper having an integral stem extending upwardly into said container around which said paper talisman is adapted to be wound, said paper talisman being viewable through said window, said stopper having a transversely extending slot, and means on said stopper for gripping and turning said paper talisman when said stopper is turned including a resilient curled brake band within said stopper having one end fixedly attached to said stopper and having, at its other end, a pin extending through said slot, said other end of the band being free and said band resiliency being directed to normally urge said band to expand, whereby when said pin is moved in said slot said band grips said roll of paper talisman and forces it against said stem whereby said roll of paper talisman must rotate with said stopper.

2,420,266
ELECTRIC FREQUENCY CONVERTER

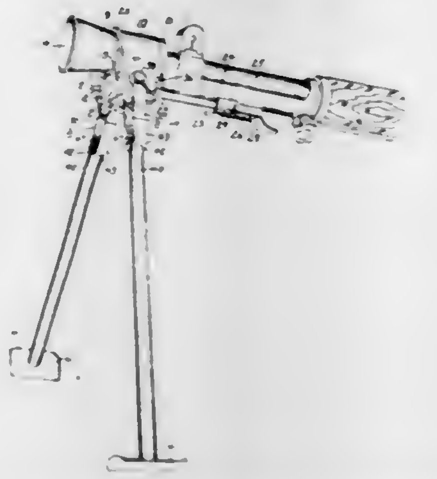
Benno Schwarz, Norwich, England
Application June 2, 1943, Serial No. 489,417
In Great Britain June 5, 1942
17 Claims. (Cl. 172—281)



1. An electric frequency converter comprising a wound stator having a multiphase excitation winding to be excited with alternating current of the supply frequency, a wound rotor, a commutator rotatable with said rotor, said commutator having its segments electrically connected to a winding on said rotor, slip rings rotatable with said rotor, said slip rings being connected to tappings in a winding on said rotor, stationary brushes for said commutator and a variable voltage transformer for feeding said brushes from the supply line with the power input to be converted in frequency, said slip rings delivering an output with a voltage of variable frequency and magnitude in operation of said converter.

2,420,267
SUPPORT FOR RIFLES AND OTHER SHOULDER FIREARMS

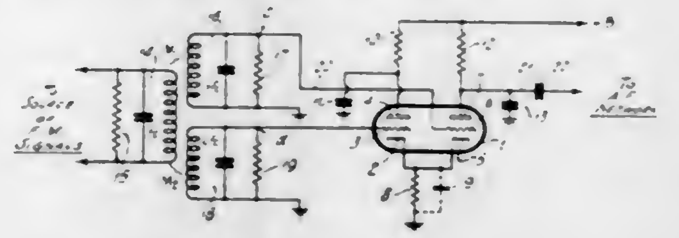
Harry H. Sefried, II, New Haven, Conn., assignor to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware
Application April 19, 1945, Serial No. 589,127
5 Claims. (Cl. 42—94)



1. A firearm-support, including in combination: a frame-unit constructed and arranged for attachment to the muzzle-end of a shoulder firearm and having an arm provided with locking-means; a pivot-pin extending crosswise of the arm of the said frame-unit; a U-shaped stirrup having an apertured cross-reach and two side-arms respectively connected at their free ends to the said pivot-pin; a leg-unit having locking-means engageable with and disengageable from the said locking-means of the frame-unit by a lengthwise axial movement of the said leg-unit; and a latch-spring engaged at one end with the said stirrup and at its opposite end with the said leg-unit and yieldingly urging the said leg-unit axially toward the arm of the said frame-unit to engage the locking-means of the leg-unit with the locking-means of the said arm.

2,420,268
FREQUENCY MODULATION DETECTOR

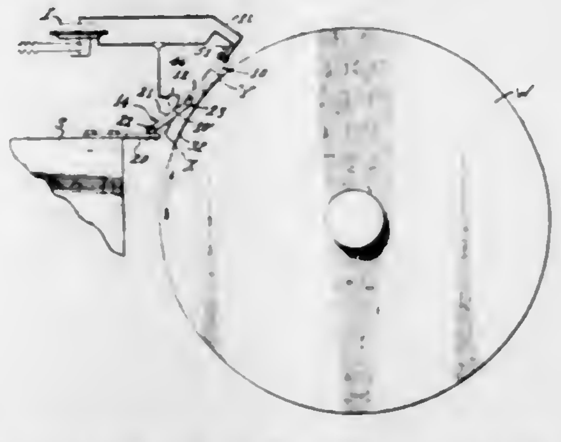
Carl G. Sontheimer, Stamford, Conn., assignor to Radio Corporation of America, a corporation of Delaware
Application February 9, 1945, Serial No. 577,002
8 Claims. (Cl. 250—27)



1. In a detector of angle modulated carrier waves, a pair of electron discharge devices each including at least a cathode, control electrode and anode, a resistive impedance connecting the cathodes of said devices to ground, means applying a positive direct current voltage to the anodes of both devices, an output resistor of relatively low magnitude in circuit with only one of the anodes, a modulation signal voltage output connection from the anode end of said output resistor, and means for varying the control electrodes of said devices with respective signal voltages derived from said waves and varying in relative polarity and magnitude in accordance with the angle modulation of said waves.

2,420,269
PNEUMATIC CONTROL

Ernest V. Stone, Los Alamitos, Calif.
Application September 11, 1944, Serial No. 553,610
14 Claims. (Cl. 230—1)

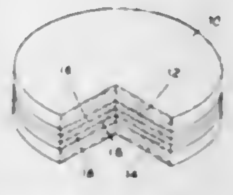


7. In combination, a fly wheel revolving about a fixed axis and having its rim exposed, a body mounted stationary adjacent the wheel and having an orifice faced to receive flow of air from the wheel, a conduit in communication with the orifice, and means operable to clean the orifice.

2,420,270
LAMINATED OPTICAL FILTER

Alexander Thomas, Weston, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application August 25, 1943, Serial No. 499,937
4 Claims. (Cl. 88—1)

1. In an optical filter comprising a plurality of light-transmitting elements arranged in superimposed position with respect to each other, in combination, two outer elements formed of glass, each outer element having surfaces which are generally plane with respect to each other, the outer surface of one of said outer elements departing from optical flatness by having curved portions thereof lying at elevated positions with respect to other curved portions thereof, the outer surface of the second glass element also departing from optical flatness by having curved portions thereof elevated with respect to other curved portions thereof but having the more elevated curved portions corresponding in location to the lesser elevated curved portions of said first-named surface whereby to be complementary thereto, said outer elements being arranged with respect to each other so that the elevated curved portions on the outer surface of one element lie substantially opposite the less elevated curved portions of the outer surface of the other element and the less elevated curved portions of the outer surface of the first-named element lie substantially opposite the more elevated curved portions of the outer surface of the other element, the thickness of the filter from outer surface to outer surface being substantially uniform throughout its entirety.



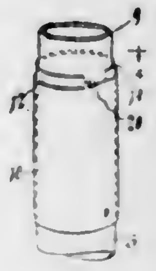
2,420,271
INSECT REPELLENT COMPOSITION

Bernard V. Travis and Howard A. Jones, Orlando, Fla.; dedicated to the free use of the People in the territory of the United States
No Drawing. Application May 18, 1944, Serial No. 536,110
2 Claims. (Cl. 167—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insect repellent composition comprising p-iso-propylphenylethyl alcohol incorporated in zinc oxide in such amounts as to form a paste-like composition.

2,420,272
LOCKING DEVICE

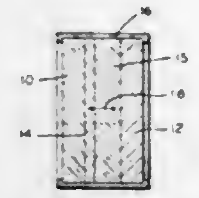
John G. Wallace, Toronto, Ontario, Canada
Application July 3, 1945, Serial No. 602,994
4 Claims. (Cl. 287—114)



1. A locking device for securing an outer member to a rotund inner member, comprising a cylindrical member for encircling said inner member, a yieldable wedge carried by said cylindrical member to extend circumferentially of said inner member for clamping engagement therewith, a ring sleeved loosely on said cylindrical member, means on said cylindrical member providing thrust shoulders for holding said ring against axial displacement, and a non-yieldable wedge carried by said ring for urging said yieldable wedge inwardly.

2,420,273
ACHROMATIC SIGHT FOR GUNS, CAMERAS, OR THE LIKE, INCLUDING POLARIZING AND BIREFRINGENT ELEMENTS

Cutler D. West, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application September 18, 1944, Serial No. 554,590
5 Claims. (Cl. 88—65)



1. As a new article of manufacture, the combination comprising a pair of light-polarizing elements positioned in superimposed and parallel relation, and uniaxial birefringent means positioned between said polarizing elements and having the surfaces thereof adjacent said polarizing elements substantially parallel and each substantially perpendicular to the optic axis therein, said birefringent means comprising a first birefringent element and a second birefringent element each comprising different material and positioned in superimposed relation with their optic axes parallel, the dispersion (N) of birefringence in said combination of birefringent elements being of the order of —3.46 as expressed by the formula

$$N=\frac{N_1N_2(t_1\Delta n_1 \pm t_2\Delta n_2)}{N_2(t_1\Delta n_1) \pm N_1(t_2\Delta n_2)}$$

wherein t_1 and t_2 represent the thicknesses of said first and second birefringent elements respectively, Δn_1 and Δn_2 represent the differences between the refractive indices of said first and second birefringent elements respectively, said ± being + when the birefringent elements have the same sign of birefringence and — when the birefringent elements have opposite signs of birefringence, and N_1 and N_2 represent the dispersion (N) of birefringence in said first and second birefringent elements respectively, as expressed by the formula

$$N=\frac{\Gamma(D)}{\Gamma(F)-\Gamma(C)}$$

wherein Γ(D) represents the path difference of said combination of birefringent elements for the D line of the spectrum and Γ(F) and Γ(C) represent similar values for the F and C lines of the spectrum, respectively, N_1 being substantially different from N_2; said combination of birefringent elements being of such thickness, and birefringence as to produce an interference pattern at optical infinity visible to an observer looking through said article, said birefringent and polarizing elements producing a central interference indicium appearing concentric with said optic axis at optical infinity, said elements also producing a predetermined series of other indicia appearing at optical infinity and being predeterminedly angularly related to said optic axis, wherein the relationship $(\Delta n_1 t_1 \pm \Delta n_2 t_2)$ is such as to give the desired angular relationships between the indicia of said pattern.

2,420,274
HEAVY-DUTY MOTOR OIL COMPOSITION

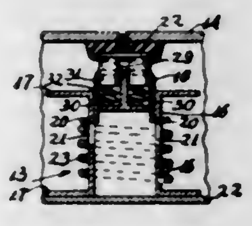
Norman D. Williams, Chicago, and William J. Backoff, Elmhurst, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application March 25, 1944, Serial No. 528,170
18 Claims. (Cl. 252—32.7)

1. The method of preparing a lubricant additive comprising preparing a saponified fatty semi-wax material containing in chemical combination therewith a small amount of a phosphorus sulfide, separating the resulting product into two unequal portions, heating the major portion for a short time to a temperature of about 300 to 350° F. sufficient to remove traces of moisture and objectionable odor but insufficient to decompose it and reblending it with the minor unheated portion.

2,420,275
BOBBIN THREAD CONTROLLED SIGNAL FOR SEWING MACHINES

Ragnar W. Winberg, New York, N. Y.
Application August 24, 1943, Serial No. 499,759
6 Claims. (Cl. 112—218)

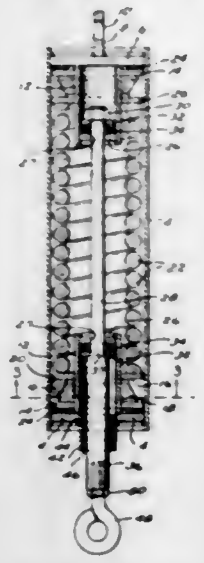


1. In a device of the class described, a spool like bobbin for insertion in the bobbin carrier of a sewing machine and having a hollow cylindrical hub and end flanges permitting threads to be wound on the hub, a movable extendable member slidably mounted in one end of said hollow cylindrical hub and having a contact element, a lateral projection from said extendable member passing through a slot in the side wall of said hub and over which said thread is to be wound for holding the extendable member retracted in said hub, resilient means operating between one end flange of said bobbin and said projection for urging said extendable member into an extended position in which said contact element will be extended from the face of the other of said flanges when the thread is nearly completely unwound from said hub, and a stationary contact mounted on said sewing machine at a point adjacent said bobbin to be engaged by said contact element when in extended position for completing a circuit to signaling device.

2,420,276
SUPPORT

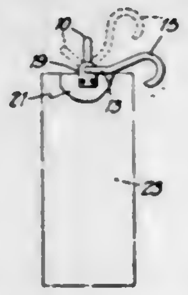
Joseph Kaye Wood, New York, N. Y., assignor to General Spring Corporation, New York, N. Y., a corporation of New York
Application April 2, 1945, Serial No. 586,093
15 Claims. (Cl. 248—54)

1. A steadying support comprising, in combination, a piston cylinder having abutments located near the ends thereof, pistons and a spring interposed therebetween and normally maintaining said pistons in engagement with the respective abutments, a piston rod slidably mounted in said pistons and having thereon means for effecting a pull connection with one piston and a push connection with the other, said means being so arranged that the piston rod may slide idly through the other piston when either of the pistons is moved by its connection therewith.



2,420,277
COMBINED HANDLE AND HANGER

Charles Wulstein, New York, N. Y., assignor to himself and Murray Gordon, New York, N. Y.
Application April 25, 1944, Serial No. 532,687
1 Claim. (Cl. 220—95)

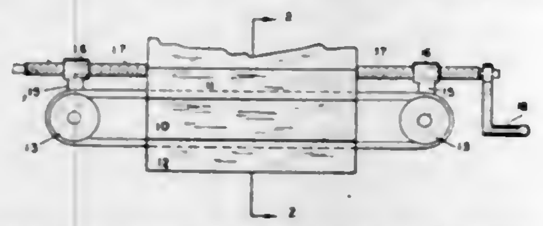


The combination with a portable container, of a combined carrying handle and suspension hanger therefor, comprising a length of stock having an intermediate portion offset to constitute a carrying bale, journalling portions coaxially alined with each other at the respective ends of said carrying bale and terminal portions upturned substantially 90° from the plane of said carrying bale and formed as open suspension hooks disposed in substantially parallel planes substantially perpendicular to the common axis of said journalling portions and in spaced apart relation to each other so as to swing free of the container and at substantially a 90° angle to the plane of the carrying bale portion, and a pair of bearing members for hingedly connecting said journalling portions to the upper portion of said container, said carrying bale portion being of sufficiently restricted dimensions to abut against the upper surface of the container and thus limit the range of the swinging movement of said suspension hooks, but otherwise free to swing through a range of substantially 180°.

2,420,278
METHOD OF CURING V-TYPE BELTS

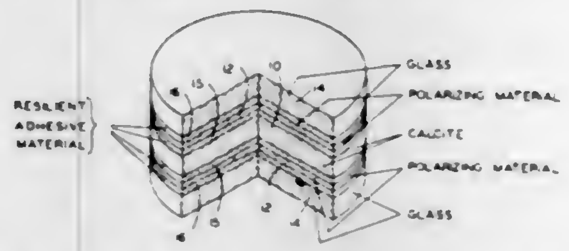
Charles Walter Yelm, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application May 27, 1946, Serial No. 672,679
3 Claims. (Cl. 18—48)

3. The method of curing an endless power transmission belt of uncured rubber composition, having a wide outer surface, a narrow inner surface, and a layer of flexible tension cables positioned in the belt body adjacent the wide side, which comprises the steps of applying the belt to two axially parallel spaced rollers with its wide surface in contact with the peripheral surfaces of the rollers, separating the rollers to put the belt under tension whereby the flexible cables tend to move towards the wide side of the belt, and subjecting the portions of the belt between the rollers to a curing treatment.



2,420,279
LAMINATED POLARIZER AND BIREFRINGENT LAYERS

Clinton J. T. Young, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application June 9, 1944, Serial No. 539,540
7 Claims. (Cl. 88—65)



1. As a new article of manufacture, a lamination comprising, in combination, two layers of glass, two elements comprising quarter-wave retardation material positioned between said glass layers, a birefringent crystalline element positioned between said quarter-wave elements and comprising material having a coefficient of thermal expansion substantially different from that of glass, a relatively thick layer comprising resilient adhesive material bonding said crystalline element to each of said quarter-wave elements, and a layer of light-polarizing material bonded between each of said quarter-wave elements and said glass layers with the axis thereof at an angle of substantially 45° to a vibration direction of the quarter-wave element adjacent thereto.

2,420,280
LUBRICANT AND METHOD OF MAKING SAME

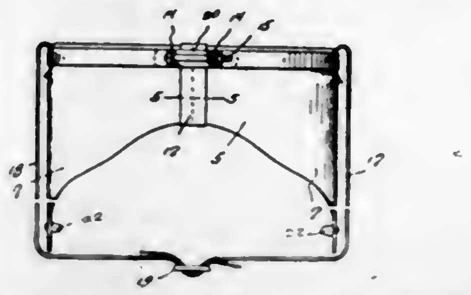
John S. Yule, Chicago, and Harry L. Moir, Skokie, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application August 21, 1942, Serial No. 455,612
7 Claims. (Cl. 252—46.6)

1. The method of preparing a lubricant comprising cooking sulfurized and phosphorized fatty material, prepared by reacting fatty material with 5 to 9% by weight of sulfur at temperatures not in excess of 340° F. until the product gives a good copper strip corrosion test, and then reacting the sulfurized material with sufficient phosphorus-sesquisulfide to incorporate therein between 0.2 and 0.6% by weight of phosphorus at a temperature approaching but not in excess of 230° F., with from about 2 to 8% by weight of sulfur at a temperature of approximately 270–300° F. and for a period of time, between about 2 and 6 hours, sufficient to cause the sulfur to become incorporated in the product in a loosely bound form in which it will not separate from the product upon cooling to atmospheric temperatures.

2,420,281
DIVING MASK

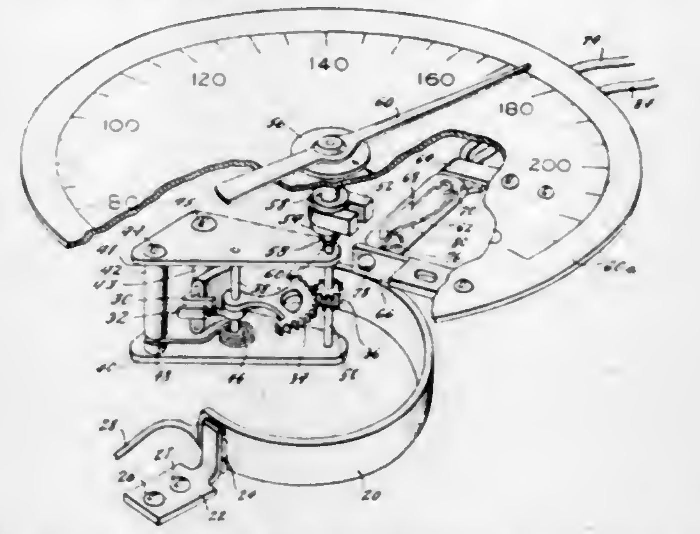
Marcus J. Zbar, Tampa, Fla.
Application September 20, 1944, Serial No. 555,012
2 Claims. (Cl. 2—14)



1. A mask comprising a flexible waterproof wall structure having an irregular rear edge portion adapted to conform with the shape of a human face at the eye area thereof, the forward portion of said wall having a groove adjacent its forward edge said wall being provided with a transparent pane fitted in said groove, means for securing the pane in position in said groove, said means for securing the pane in position consisting of a band circumscribing the forward portion of the wall and being contractible to compress the forward portion of the wall snugly against the perimeter of the pane and the ends thereof joining one another at a point removed from the sides of the wall structure, and head straps provided with connecting means, said head straps having the forward ends thereof extended in from the front of the mask and interposed and clamped between the band and the wall, the straps being bent back from the front of the mask for connection with one another behind the ears of a wearer.

2,420,282
PRESSURE OPERATED SWITCH

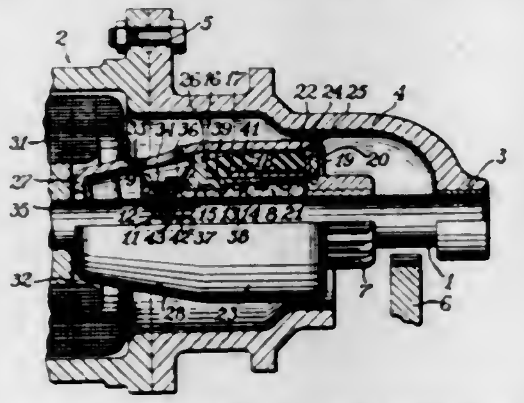
Hoel L. Bowditch, Sharon, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application April 21, 1944, Serial No. 532,191
2 Claims. (Cl. 200—81.8)



1. In apparatus for indicating, recording, or controlling a condition and employing a frictionless shaft rotatable through a range by a condition responsive element to positions corresponding to values of the condition, in combination, a switch including a magnetically operated switching member normally yieldingly urged by a light force to occupy one of two positions, and

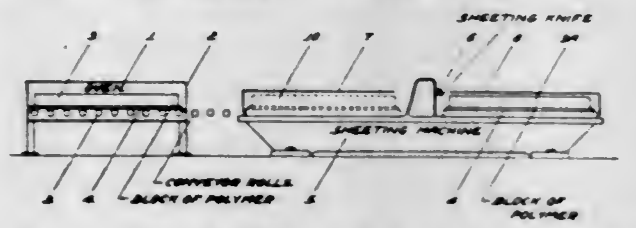
a magnet mounted on and movable by said frictionless shaft into and out of a switch operating position in which position the pull of the magnet on said switching member overcomes said force and moves the switching member to occupy the second of its two positions whereas when said magnet is not in said switch operating position the pull of the magnet does not operate to overcome said force and the switching member is held in the first of said two positions, whereby said switch is operated when said condition responsive member moves the magnet into and out of said switch operating position, the center of gravity of said magnet falling substantially upon the axis about which said frictionless shaft rotates.

2,420,283
STARTING MECHANISM
James E. Buxton and Donald L. Miller, Chemung County, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 5, 1945, Serial No. 597,642
3 Claims. (Cl. 74—7)



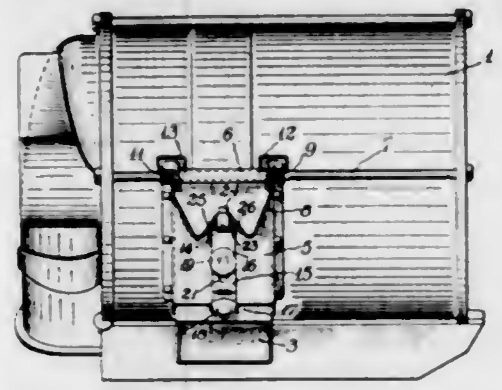
1. In an engine starter, a motor having a frame, an extension fixed to the frame having a bearing in its end, an armature shaft journalled at one end in said bearing, a pinion slidably journalled on the shaft for longitudinal movement into and out of mesh with a gear of an engine to be started, a hollow shaft fixed on the armature shaft externally threaded at one end and having an abutment surface at the other end, a nut threaded on the hollow shaft, a yielding driving connection between the nut and pinion including a ring of elastically deformable material and a housing completely enclosing the nut, ring and hollow shaft and rigidly attached to the pinion; said housing having an inwardly extended flange adapted to engage the abutment on the end of the hollow shaft to thereby limit the meshing movement of the pinion.

2,420,284
PROCESS FOR CUTTING POLYMERIZED VINYL AROMATIC MATERIAL
Thomas S. Carswell, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Application March 30, 1944, Serial No. 528,669
6 Claims. (Cl. 18—48)



6. A process for sheeting a block of thermoplastic vinyl aromatic material which comprises heating said block to the transition temperature range of the thermoplastic polymerized vinyl aromatic material and then cutting said sheets from said block while maintaining said block in said transition temperature range.

2,420,285
DOOR LATCH
Harrison C. Gilbert, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 23, 1944, Serial No. 527,789
2 Claims. (Cl. 292—67)



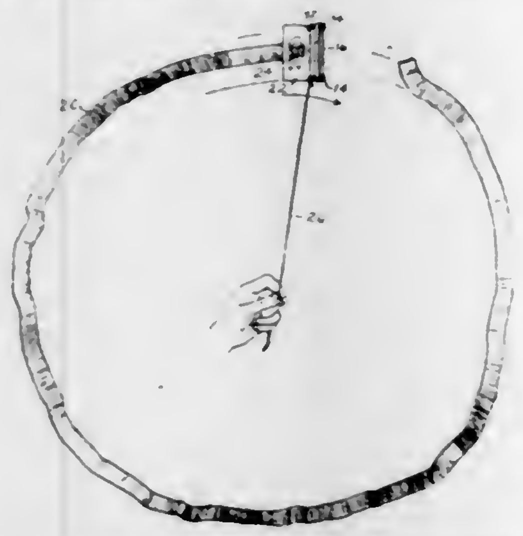
1. A latch mechanism, adapted for use on a hinged door of a discharge chute comprising, a spring bearing on the door and pressing it toward closed position, a catch fixed on the chute, a latch pivotally and slidably mounted on the door in position to engage at one end in the catch when the door is closed, said latch and catch being so formed and mounted that release is accomplished by first a sliding withdrawal and then a pivotal disengagement of the latch, said spring being formed to engage the latch and resist both the sliding withdrawal and the pivotal movement of the latch.

2,420,286
CHEMILUMINESCENT COMPOSITIONS
Harold T. Lacey and Henry E. Millson, Plainfield, and Frederick H. Heiss, Martinsville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 3, 1943, Serial No. 477,856
5 Claims. (Cl. 252—188.3)

1. Solid material adapted to be placed upon and supported by the surface of a body of water whereby a portion of its contents dissolves in the water and reacts to produce chemiluminescent light, the portion which dissolves consisting essentially of an intimate mixture of dry powdered material which when dissolved in water and oxidized gives off chemiluminescent light, a powdered water-soluble material which generates nascent oxygen when wetted, and the remainder of the composition comprising particulate material incorporated in the mixture, whereby its buoyancy is increased and a sufficient amount of a binder to produce a unitary material at the temperature of the water upon which it is to be used.

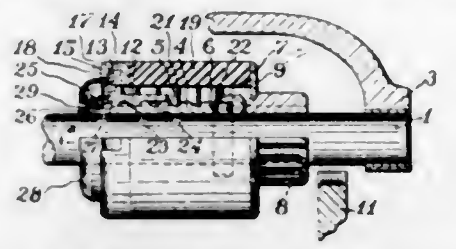
2,420,287
SOUNDING TOY
Albert T. Linney, Lexington, Ky.
Application February 8, 1947, Serial No. 727,335
6 Claims. (Cl. 46—52)

1. A sounding toy adapted to be whirled through the air, said sounding toy including a wire-like main body member having a straight portion terminating in a pair of leg-like portions extending at right angles to the straight portion, tubular members mounted upon the leg-like portions, a rubber band positioned upon the tubular members, the sides of the rubber band extending parallel to the straight portion of the main body member, a cardboard member folded over the straight portion of the main body member, means attached to the main body member for whirling the toy through the air, and a tail secured to the cardboard member, the portion of the tail adjacent the cardboard member extending in a direction substantially normal to the straight portion of the main body member when the toy is whirled through the air.

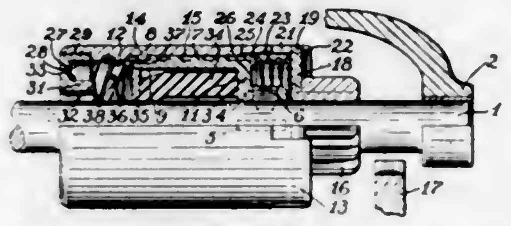


2,420,288
ENGINE STARTER DRIVE
Donald L. Miller, Pine City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 5, 1945, Serial No. 586,675
5 Claims. (Cl. 74—7)

1. In an engine starter, a motor shaft, a pinion mounted thereon for traversal into engagement with a member of an engine to be started and a flange on said pinion, an operating member fixed to the motor shaft and a flanged control member concentric with said operating member, means including an inclined connection between said operating and control members for traversing said pinion, means on the operating member for arresting the movement of the control member, and a sleeve of elastic material fixed at its ends to the pinion and control member flanges constituting the sole operative connection to the pinion.



2,420,289
STARTER FOR INTERNAL-COMBUSTION ENGINES
Donald L. Miller, Pine City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 7, 1945, Serial No. 603,716
6 Claims. (Cl. 74—7)

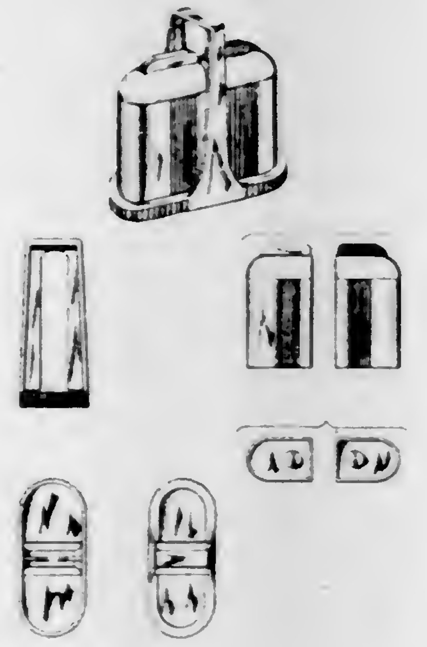


1. In an engine starter, a motor shaft, and a screw sleeve fixed thereon having a thrust shoulder, a casing member provided with threads fitting said screw sleeve, said interfitting threads being adapted to disengage when the starter is in idle position, a spring cooperating with said thrust shoulder and the casing member for assuring re-engagement of said threads when said sleeve rotates, a pinion slidably journalled on said shaft for rotation therewith and for movement thereby into meshing engagement with an engine gear and operatively connected to said casing member, means including said spring for enforcing mesh of the pinion with the engine gear, and means including an elastic member and abutments on said sleeve and casing for yieldingly arresting the meshing movement of the casing and pinion.

DESIGNS

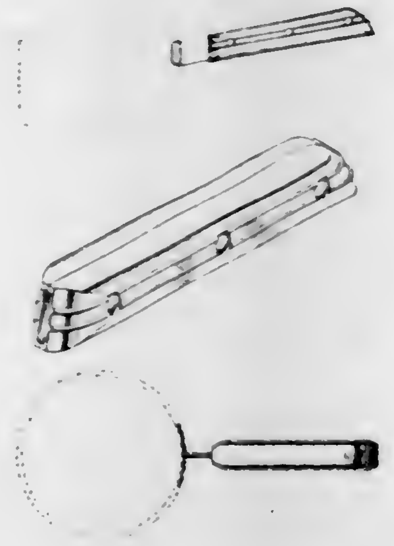
MAY 6, 1947

146,733
DESIGN FOR A CONDIMENT DISPENSER SET
Wade E. Ballard, Los Angeles, Calif., assignor to Modern Plastic Co., Los Angeles, Calif., a partnership
Application January 26, 1946, Serial No. 125,991
Term of patent 7 years
(Cl. D44—22)



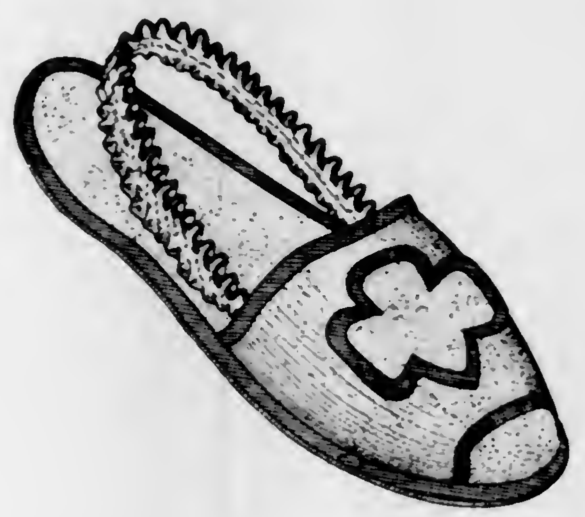
The ornamental design for a condiment dispenser set, as shown.

146,734
DESIGN FOR A COOKING UTENSIL
William A. Beck, Itasca, Ill., assignor to Ekco Products Company, a corporation of Illinois
Application October 22, 1945, Serial No. 123,071
Term of patent 14 years
(Cl. D44—1)



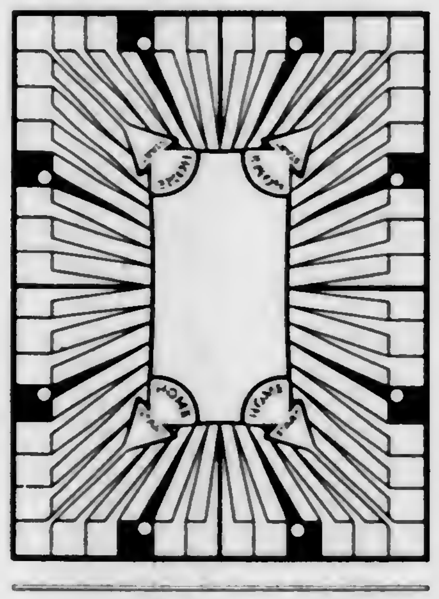
The ornamental design for a cooking utensil, as shown and described.

146,735
DESIGN FOR A SLIPPER
Thelma M. Carpenter, Brentwood, Pa.
Application May 11, 1946, Serial No. 129,601
Term of patent 7 years
(Cl. D7—7)



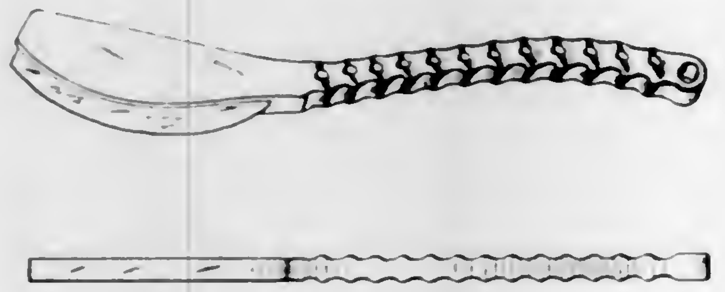
The ornamental design for a slipper, as shown.

146,736
DESIGN FOR A GAME BOARD
Woodrow M. Childs, Oakland, Calif.
Application September 10, 1945, Serial No. 121,970
Term of patent 7 years
(Cl. D34—5)



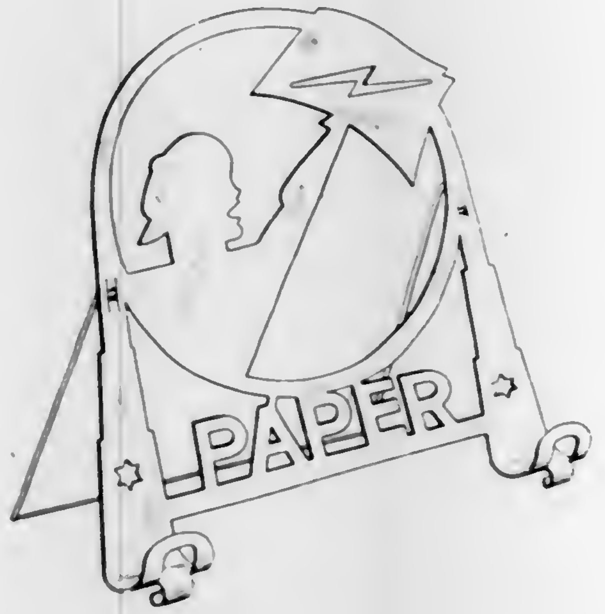
The ornamental design for a game board, substantially as shown.

146,737
DESIGN FOR A BONE CUTTING SAW OR SIMILAR ARTICLE
Daniel Dohm, Jr., St. Louis, Mo., assignor to Dohm & Nelke, Inc., St. Louis, Mo., a corporation of Missouri
Application December 5, 1945, Serial No. 124,394
Term of patent 14 years
(Cl. D93—4)



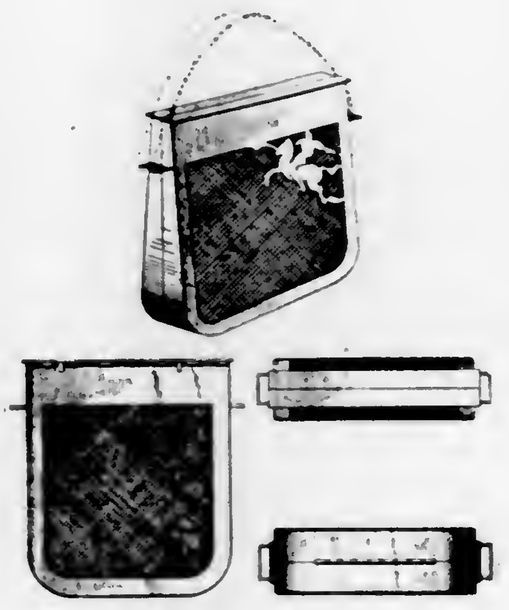
The ornamental design for a bone cutting saw or similar article, as shown.

146,738
DESIGN FOR AN EASEL
Clarence A. Elzinga, Kalamazoo, Mich.
Application March 4, 1946, Serial No. 127,082
Term of patent 7 years
(Cl. D29—20)



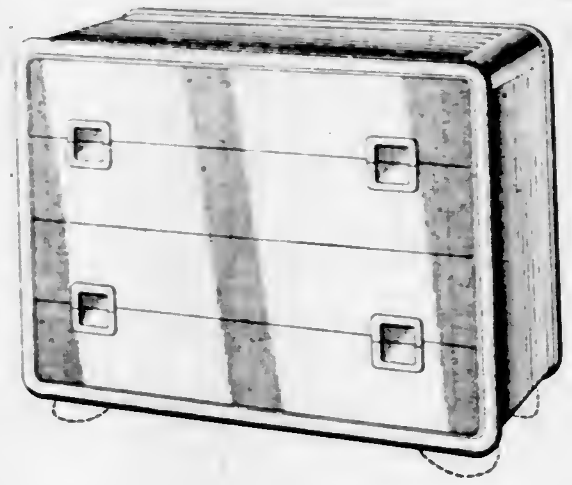
The ornamental design for an easel, as shown.

146,739
DESIGN FOR A HANDBAG
Alex Glaser, Paris, France, assignor to Richard Alan Inc., a corporation of New Jersey
Application May 28, 1946, Serial No. 130,183
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag, as shown and described.

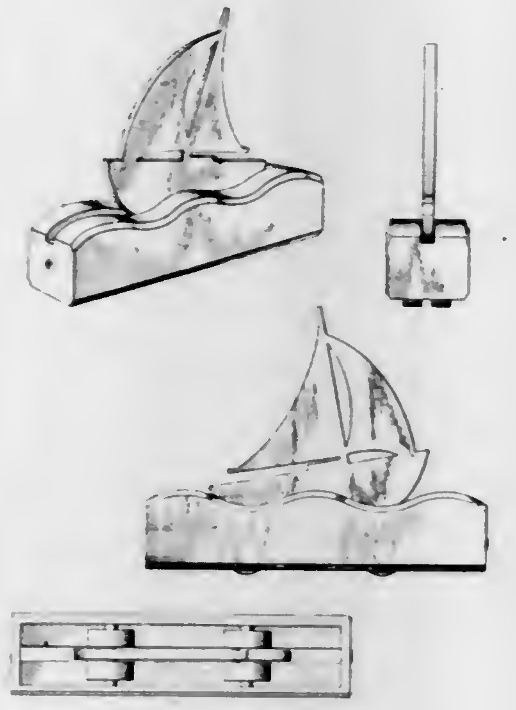
146,740
DESIGN FOR A BUREAU
Michael Hallward, Swampscott, Mass.
Application September 22, 1945, Serial No. 122,253
Term of patent 14 years
(Cl. D33—6)



The ornamental design for a bureau, substantially as shown and described.

146,741
DESIGN FOR A PULL TOY

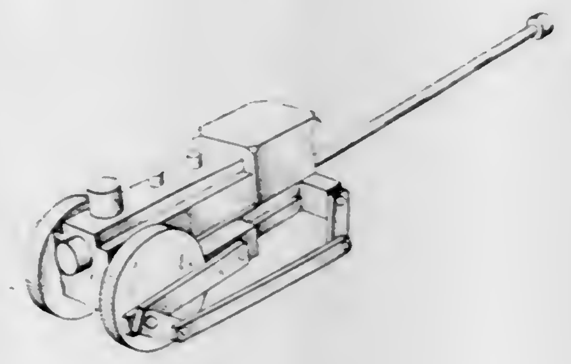
Clarence H. Keller, Buffalo, N. Y., assignor of one-third to Norbert P. Floss and one-third to Henry W. Rust, both of Buffalo, N. Y.
Application March 28, 1946, Serial No. 128,013
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a pull toy, as shown.

146,742
DESIGN FOR A WHEELED TOY

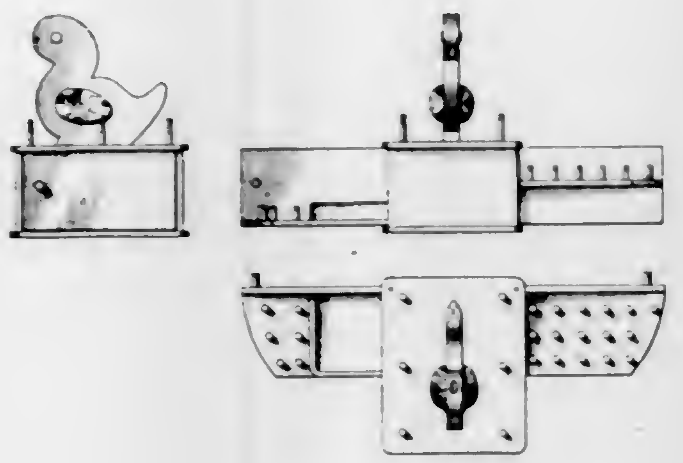
Roy L. McCormack, Geneva, Ohio, assignor of one-half to Bernard M. Benton
Application March 15, 1946, Serial No. 127,539
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a wheeled toy, as shown and described.

146,743
DESIGN FOR A SEWING BOX

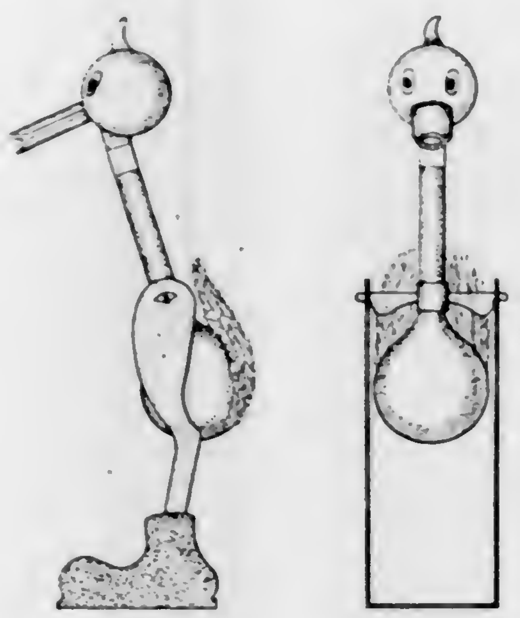
Harold W. Murray, San Pedro, Calif.
Application September 21, 1945, Serial No. 122,245
Term of patent 14 years
(Cl. D3—19)



The ornamental design for a sewing box, as shown.

146,744
DESIGN FOR AN ACTIVATED TOY BIRD FIGURE

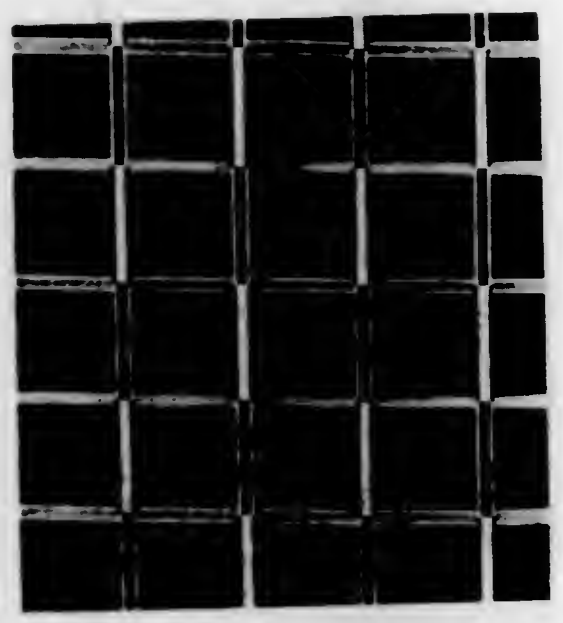
Robert T. Plate, Detroit, Mich.
Application October 14, 1946, Serial No. 133,947
Term of patent 14 years
(Cl. D34—2)



The ornamental design for an activated toy bird figure, substantially as shown.

146,745
DESIGN FOR A TEXTILE FABRIC

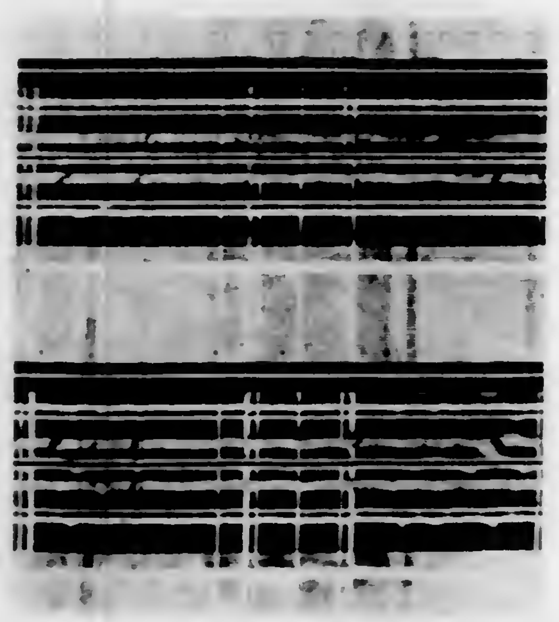
Edwin Raphaels, New York, N. Y., assignor to N. Wishbow & Raphaels, Inc., New York, N. Y.
Application January 11, 1947, Serial No. 136,068
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown.

146,746
DESIGN FOR A TEXTILE FABRIC

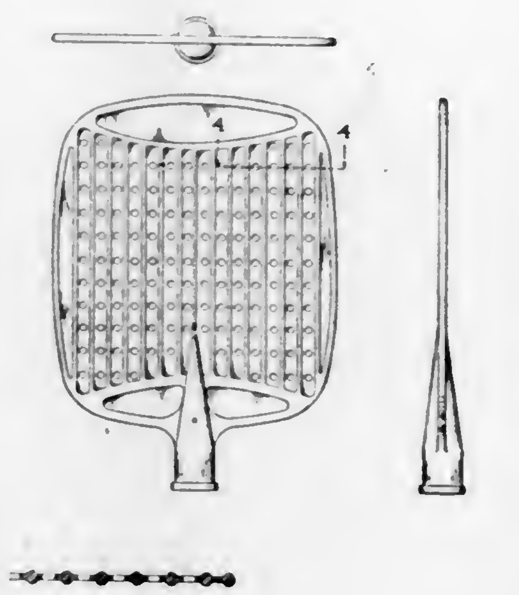
Edwin Raphaels, New York, N. Y., assignor to N. Wishbow & Raphaels, Inc., New York, N. Y.
Application January 11, 1947, Serial No. 136,069
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown.

146,747
DESIGN FOR A FLY SWATTER BLADE

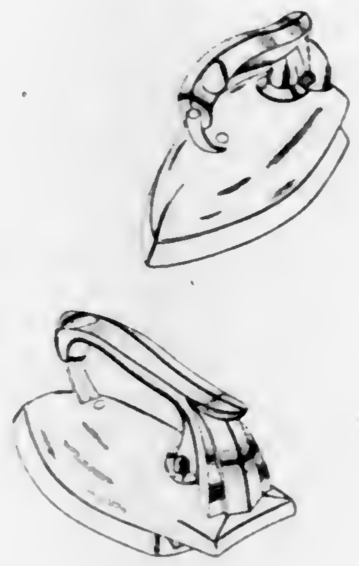
Harry S. Roemisch, Brecksville, Ohio
Application January 19, 1946, Serial No. 125,985
Term of patent 7 years
(Cl. D31—3)



The ornamental design for a fly swatter blade, substantially as shown.

146,748
DESIGN FOR AN ELECTRIC FLATIRON

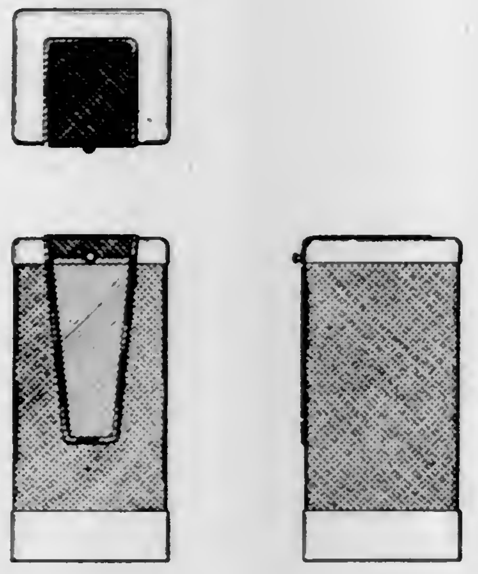
William J. Russell, Newington, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application December 11, 1945, Serial No. 124,617
Term of patent 7 years
(Cl. D49—6)



The ornamental design for an electric flatiron, substantially as shown and described.

146,749
DESIGN FOR A SPACE HEATER

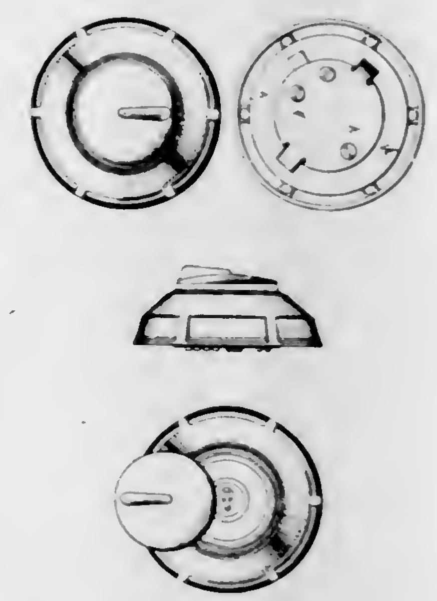
Kenneth P. Schory, Chicago, Ill., assignor to American Gas Machine Company, Albert Lea, Minn., a corporation of Minnesota
Application December 29, 1945, Serial No. 125,134
Term of patent 14 years
(Cl. D81—19)



The ornamental design for a space heater, substantially as shown.

146,750
DESIGN FOR A LOCKING CAP FOR GASOLINE TANKS

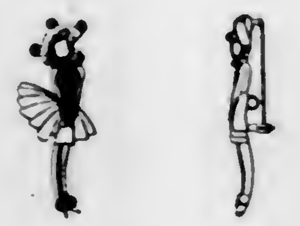
Sidney J. Sidell, Detroit, Mich., assignor, by mesne assignments, to Nor Jay Company, a corporation of Michigan
Application November 13, 1945, Serial No. 123,710
Term of patent 7 years
(Cl. D14—6)



The ornamental design for a locking cap for gasoline tanks, as shown.

146,751
DESIGN FOR A PIN OR SIMILAR ARTICLE

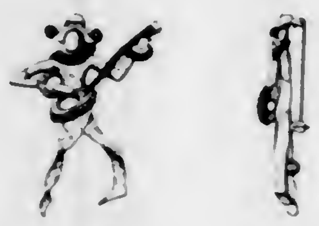
Murray Slater, Brooklyn, N. Y.
Application June 14, 1946, Serial No. 130,712
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

146,752
DESIGN FOR A PIN OR SIMILAR ARTICLE

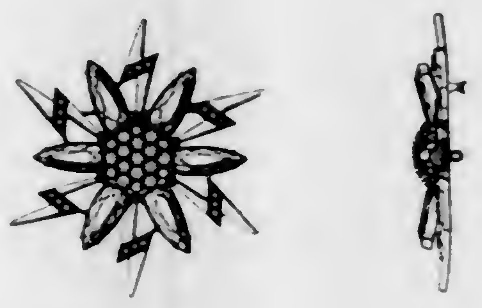
Murray Slater, Brooklyn, N. Y.
Application June 14, 1946, Serial No. 130,713
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

146,753
DESIGN FOR A PIN OR SIMILAR ARTICLE

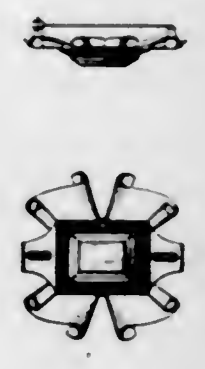
Murray Slater, Brooklyn, N. Y.
Application June 14, 1946, Serial No. 130,714
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

146,754
DESIGN FOR A PIN OR SIMILAR ARTICLE

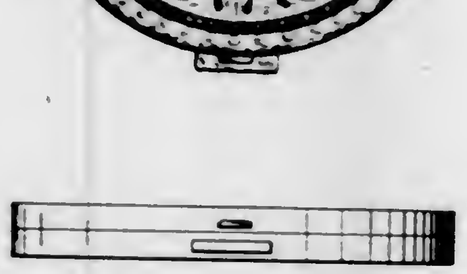
Murray Slater, Brooklyn, N. Y.
Application June 14, 1946, Serial No. 130,717
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

146,755
DESIGN FOR A VANITY CASE OR SIMILAR ARTICLE

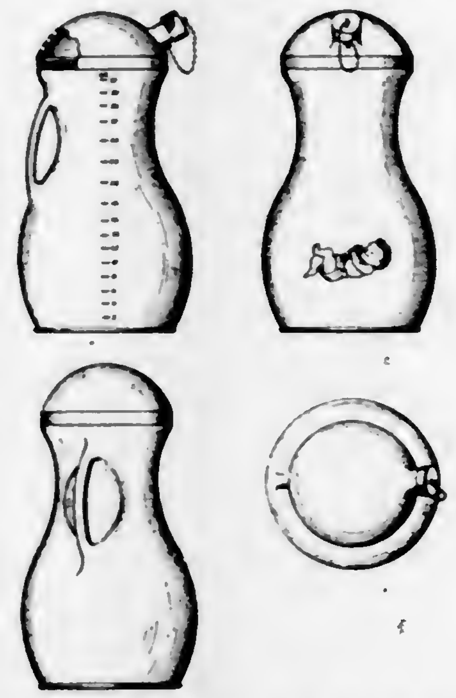
Fred Spitalny, Hillside, N. J.
Application May 20, 1946, Serial No. 129,908
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a vanity case or similar article, substantially as shown and described.

146,756
DESIGN FOR A BABY'S FORMULA MIXER AND CONTAINER

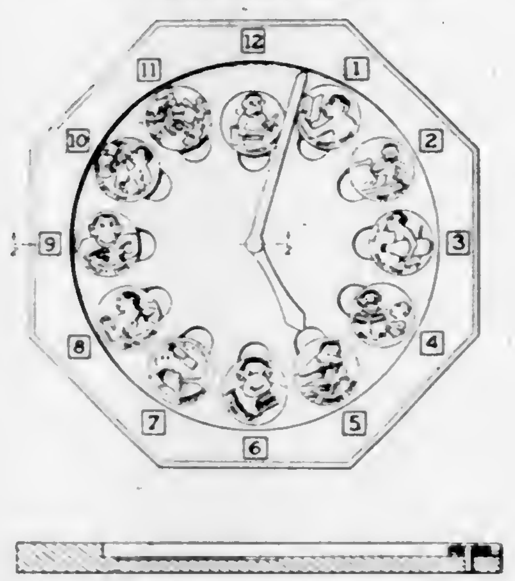
Robert A. Warren and Dorothy L. Warren, Lakewood, Ohio
Application December 4, 1945, Serial No. 124,312
Term of patent 3½ years
(Cl. D44—21)



The ornamental design for a baby's formula mixer and container, as shown.

146,757
DESIGN FOR AN EDUCATIONAL DEVICE TO TEACH CHILDREN TO READ A CLOCK

James A. Webb, Rochester, N. Y.
Application January 25, 1946, Serial No. 125,982
Term of patent 7 years
(Cl. D34—15)



The ornamental design for an educational device to teach children to read a clock, substantially as shown.

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
W. AVERELL HARRIMAN, *Secretary*

U. S. Patent Office
CASPER W. OOMS, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

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T. M. Renewals	79			
Reissues	4—No.	22,876	to No.	22,879, inclusive
Plant Patents	1—No.	736		
Patents	350—No.	2,420,290	to No.	2,420,639, inclusive
Designs	25—No.	146,758	to No.	146,782, inclusive
Total	561			

Patents expiring: Patent Numbers 1,757,950 to 1,758,914, inclusive, issued May 13, 1930, expire May 13, 1947

Condition of Applications Under Examination at Close of Business April 25, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 145,895; Trade-Mark Division, See [1] Oldest new case, Aug. 9, 1945; oldest amended, July 19, 1945.) (The dates given are 1945 except where * indicates 1946.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Sept. 14	Nov. 30	2850
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 15	Oct. 19	3516
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Nov. 7	Oct. 6	2024
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	Dec. 29	Dec. 7	2946
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 21	July 25	4316
6. BYERS, J. H. (Acting), Carbon Chemistry (part)	*Mar. 4	*Mar. 7	1995
7. HANLIN, GEORGE, Optics, Photography	*Mar. 29	*Apr. 24	1978
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 5	Dec. 3	3681
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 12	Oct. 3	2210
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Dec. 17	Dec. 29	1460
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	*July 29	*July 24	815
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Dec. 10	Dec. 20	2684
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Aug. 17	Sept. 25	2277
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	*Feb. 8	*Jan. 26	1427
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	Dec. 28	*Apr. 11	1323
16. LOVEWELL, N. N., Telegraphy; Telephony	*Feb. 23	*Mar. 16	1286
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	*Jan. 15	Dec. 12	1315
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 23	Sept. 8	1803
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	*Feb. 14	*Jan. 19	1772
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Oct. 26	Oct. 16	2199
21. THOMPSON, T. J., Textiles	*June 18	*July 30	918
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Dec. 4	Dec. 3	1925
23. LEWIS, J. B., Cash Registers; Calculators (part)	*Feb. 20	*Feb. 15	248
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	*Aug. 21	*Aug. 8	1626
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills, Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Oct. 26	Nov. 26	1756
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 19	Dec. 3	2181
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	Dec. 20	Dec. 22	2418
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	Nov. 1	Aug. 8	1550
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	Dec. 22	*Jan. 16	2635
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	*Jan. 10	*Jan. 10	2514
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	*Oct. 25	*Oct. 31	656
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Dec. 17	Dec. 14	2437
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Oct. 26	Oct. 19	3696
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	*Jan. 3	Dec. 29	1383
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	*Jan. 14	Dec. 8	2289
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 24	Sept. 28	1890
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	*Feb. 4	*Jan. 24	1608
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	*Mar. 12	*Mar. 4	1402
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Sept. 6	Sept. 7	2008
40. DRUMMOND, E. J., Receptacles (part); Packages	*Jan. 11	*Jan. 16	2807
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	Nov. 5	Nov. 2	1254
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	*May 1	*May 18	1054
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	*May 9	*Feb. 11	1081
44. HARVEY, L. P., Refrigeration; Preserving	Aug. 23	Sept. 8	1393
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Oct. 19	Nov. 2	2473
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	*Feb. 2	*Mar. 6	1719
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	*Feb. 18	*Feb. 8	2845
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Oct. 16	Oct. 25	1939
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	*Feb. 14	*Jan. 18	1558
50. LEVIN, SAMUEL, Synthetic Resins	*Mar. 5	*Mar. 5	2618
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	Dec. 10	Dec. 6	2110
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	*Mar. 2	*Jan. 26	3386
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Aug. 9	July 19	4346
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	*Jan. 7	*Jan. 8	2158
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Oct. 4	Oct. 30	1919
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	*Feb. 21	*Feb. 27	1483
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 10	Nov. 19	3118
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	*Mar. 8	*Mar. 9	1388
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Sept. 29	Oct. 9	2130
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Oct. 26	*Jan. 30	2017
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Dec. 3	Nov. 19	2783
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Aug. 23	Sept. 13	4097
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Nov. 20	Oct. 24	2107
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	*Oct. 25	*Oct. 29	1205
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Oct. 10	Sept. 29	2297
TRADE-MARKS: MERCHANT, J. H	See (1).		
DESIGNS: BREHM, G. L., Acting	*Feb. 1	*Mar. 19	8990

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[1] Due to moving of Trade-Mark Division, no report is being submitted for week ending Apr. 25, 1947, and will be consolidated in report or week ending May 2, 1947.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acme Visible Records, Inc., Chicago, Ill. Visible record cabinets. Serial No. 506,567; May 13. Class 32.

Affiliated Retailers, Inc., New York, N. Y. Soaps. Serial No. 504,143; May 13. Class 4.

Agazim, Michael, doing business as The Floralatoms Company, Chicago, Ill. Perfume. Serial No. 506,358; May 13. Class 6.

Allen-Bradley Company, Milwaukee, Wis. Apparatus for the control of electric energy. Serial No. 494,644; May 13. Class 21.

Allen Products Company: *See*—
Hunsicker, Robert F.

American Home Foods, Inc., New York, N. Y. Broths, coffees, coffee extracts. Serial No. 506,288; May 13. Class 46.

Anglo-French Drug Co.: *See*—
Claivaz, Joseph.

Anti-Friction Bearings Co., Los Angeles, Calif. Ball bearings; roller bearings; pillow blocks, etc. Serial No. 502,786; May 13. Class 23.

Arabol Mfg. Co., The, New York, N. Y. Mucilage, glue, shoe cement, etc. Serial No. 512,480; May 13. Class 5.

Arco Company, The, Cleveland, Ohio. Enamel paints, lacquer paints and primer paints. Serial No. 501,623; May 13. Class 16.

Associated Merchandising Corporation, New York, N. Y. Toilet and cleansing tissues. Serial No. 503,181; May 13. Class 37.

Associated Merchandising Corporation, New York, N. Y. Lavender shaving bowl containing soap. Serial No. 503,859; May 13. Class 4.

Associated Products, Inc., Chicago, Ill. Rayon, silk, linen, etc., piece goods. Serial No. 504,420; May 13. Class 42.

Automatic Control Engineers, Inc., Bedford, Ind. Electrical motors, generators, and speed controlling and frequency controlling devices. Serial No. 516,754; May 13. Class 21.

Automatic Metal Products Corporation, Brooklyn, N. Y. Frictionally operated pyrophoric cigar lighters. Serial No. 497,693; May 13. Class 34.

Babcock & Wilcox Company, The, New York, N. Y. Refractory concrete. Serial No. 516,525; May 13. Class 12.

Bar F Products: *See*—
Foringer, John W. B.

Bates, C. J., & Son, Chester, Conn. Crochet hooks and knitting needles. Serial No. 514,683; May 13. Class 40.

Beavermou Company, Jersey City, N. J. Preparation for the bleaching of furs. Serial No. 502,876; May 13. Class 6.

Beckett, R. W., Engineering Company, Elyria, Ohio. Domestic and industrial oil burners. Serial No. 512,230; May 13. Class 34.

Beenstock, Jack N., doing business as Standard Kiddies Sportswear, Brooklyn, N. Y. Children's snow suits, boys' and girls' coat legging suits, etc. Serial No. 505,474; May 13. Class 39.

Belcano Company, Jersey City, N. J. Cosmetic leg lotion. Serial No. 507,362; May 13. Class 6.

Bell Aircraft Corporation, Town of Wheatfield, N. Y. Helicopters and structural parts thereof. Serial No. 507,363; May 13. Class 19.

Campbell & Helmich, Boyertown, Pa. Panties, vests, chemise, etc. Serial No. 503,347; May 13. Class 39.

Cavada, Enrique F., Havana, Cuba. Perfumes, cologne, rouge, etc. Serial No. 505,282; May 13. Class 6.

Celanese Corporation of America, New York, N. Y. Sheets, webs, or batts. Serial No. 500,739; May 13. Class 1.

Chatsworth Manufacturing Co., Chatsworth, Ga. Automobile jacks, tire pumps, radiator caps, etc. Serial No. 504,091; May 13. Class 23.

Chemo-Plastics Company: *See*—
Crispino, Gene J.

Chemo-Plastics Company, Inc., assignee: *See*—
Crispino, Gene J.

Chicago Printed String Company, Chicago, Ill. Cotton ribbon. Serial No. 500,367; May 13. Class 42.

Christian Science Publishing Society, The, Boston, Mass. Periodical. Serial No. 505,686; May 13. Class 38.

Claivaz, Joseph, doing business as Anglo-French Drug Co., Montreal, Quebec, Canada. Pharmaceutical preparations. Serial No. 494,391; May 13. Class 6.

Cofax Corporation, The, New York, N. Y. Tape printing dispensers. Serial No. 484,246; May 13. Class 23.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Cosmetic. Serial No. 498,825; May 13. Class 6.

Combined Metals Reduction Company, Salt Lake City, Utah. Slabs, bars, brick or pigs of non-ferrous metals. Serial Nos. 503,552–3; May 13. Class 14.

Conn, C. G., Ltd., Elkhart, Ind. Magnetic wire recording and reproducing apparatus and wire spools, etc. Serial No. 492,311; May 13. Class 21.

Consolidated Textile Co., Inc., New York, N. Y. Piece goods of cotton and piece goods of a mixture of cotton and rayon. Serial No. 498,605; May 13. Class 42.

Corvette Leather Goods Company: *See*—
Rosking, Morris.

Craft Specialty Manufacturing Company, assignor to Craft Specialty Manufacturing Company, Inc., Akron, Ohio. Handcarts. Serial No. 500,286; May 13. Class 19.

Craft Specialty Manufacturing Company, Inc., assignee: *See*—
Craft Specialty Manufacturing Company.

Crispino, Gene J., doing business as Chemo-Plastics Company, Village of Westbury, assignor to Chemo-Plastics Company, Inc., Nassau County, N. Y. Adhesive liquid compound. Serial No. 501,312; May 13. Class 5.

Cumberland Cloth Company Limited, The, Huddersfield and Workington, England. Men's and boys' suits, jackets, vests, etc. Serial No. 486,854; May 13. Class 39.

Cuprose Company, Dallas, Tex. Algaecide. Serial No. 503,556; May 13. Class 6.

Dale, Nancy, Limited, New York, N. Y. Shampoo for hair. Serial No. 498,119; May 13. Class 6.

Dan River Mills, Incorporated: *See*—
Riverside & Dan River Cotton Mills, Inc.

Daumit, Kay, Inc., Chicago, Ill. Cologne, perfume, deodorant. Serial No. 504,338; May 13. Class 6.

Design Inc., St. Louis, Mo. Refreshment bars, refreshment back bars, and display, storage, etc., cabinets. Serial No. 497,467; May 13. Class 32.

Domestic Thermostat Company, assignor to Domestic Thermostat Company, Los Angeles, Calif. Thermostats. Serial No. 497,658; May 13. Class 26.

Dresner, S., & Son, Inc., Chicago, Ill. Ladies' and misses' fitted (overnight) cases. Serial No. 514,044; May 13. Class 3.

Duriron Company, Inc., The, Dayton, Ohio. Factory equipment, for handling corrosive liquids. Serial No. 506,296; May 13. Class 2.

Electric Machinery Mfg. Company, Minneapolis, Minn. Adjustable electronic speed controls. Serial No. 509,143; May 13. Class 21.

Ellsworth Industries, Inc., Milwaukee, Wis. Furniture. Serial No. 502,812; May 13. Class 32.

Epstein, Solomon, Los Angeles, Calif. Men's sportswear. Serial No. 506,371; May 13. Class 39.

Ero Manufacturing Company, Chicago, Ill. Metal bridge sets. Serial No. 512,771; May 13. Class 32.

Essential Chemical and Drug Co.: *See*—
Wells, Willard Z.

Fantasy Comics, Inc., New York, N. Y. Magazine or publication. Serial No. 504,347; May 13. Class 38.

Fernandez, Alice L., doing business as Victory Enterprises, New York, N. Y. Cleanser. Serial No. 496,178; May 13. Class 4.

Floralatoms Company, The: *See*—
Agazim, Michael.

Florist's Foil Bank Manufacturing Company, Detroit, Mich. Display stands. Serial No. 505,693; May 13. Class 32.

Foringer, John W. B., doing business as Bar F Products, Chicago, Ill. Cream for polishing and preserving leather. Serial Nos. 505,047–9; May 13. Class 4.

Frederick Iron & Steel, Inc., Frederick, Md. Sheet metal forming machines. Serial No. 510,499; May 13. Class 23.

Frederics, John, Inc., New York, N. Y. Sashes so designed as to be worn as turbans, scarves, girdles, etc. Serial No. 509,337; May 13. Class 39.

French-Kitchen Foods Company: *See*—
Karmen, B. H.

Garments Incorporated, Charlotte, N. C. Men's, women's, and children's underwear and sleeping garments. Serial No. 505,196; May 13. Class 39.

Gaylord Products, Incorporated, Chicago, Ill. Non-electric hair curling devices. Serial No. 511,872; May 13. Class 40.

General Gummed Products, Inc., Richmond Hill, Long Island, N. Y. Gummed paper tape and gummed cloth tape. Serial No. 518,721; May 13. Class 5.

Gerotor May Corporation, Baltimore, Md. Hedge cutters and trimmers. Serial No. 510,674; May 13. Class 23.

Globe Aircraft Corporation, Fort Worth, Tex. Aeroplanes. Serial No. 505,296; May 13. Class 19.

Harwell, Wilbur F., Charlotte, N. C. Pocket knives. Serial No. 505,828; May 13. Class 23.

Haugron Cientifical, S. A., Barcelona, Spain. Perfumery products. Serial No. 498,767; May 13. Class 6.

Haugron Cientifical, S. A., Barcelona, Spain. Perfumes, toilet waters, rouge, etc. Serial No. 498,768; May 13. Class 6.

Hayes Industries, Inc., Jackson, Mich. Regulating valves for hydraulic brake systems. Serial No. 483,528; May 13. Class 19.

Hazelite, Inc., New York, N. Y. Lenses for automobile headlights. Serial No. 513,886; May 13. Class 34.

Hearn, William J., Inc., Boston, Mass. Woolen yarns. Serial No. 509,515; May 13. Class 43.

Hercules Powder Company, Wilmington, Del. Resin. Serial No. 506,718; May 13. Class 1.

Hollywood Doll Manufacturing Company: *See*—
Ippolito, Domenick.

Hughes, J. W.: *See*—
Hughes, Sadie L.

Hughes, Sadie L., doing business as J. W. Hughes, Graham, Wash. Pickled eggs. Serial No. 507,726; May 13. Class 46.

Hunsicker, Robert F., doing business as Allen Products Company, Allentown, Pa. Canned and frozen dog food. Serial No. 504,182; May 13. Class 46.

International Paint Company, Inc., New York, N. Y. Paints, paint enamels, varnishes, etc. Serial No. 495,744; May 13. Class 16.

International Shoe Machine Corporation, Cambridge, Mass. Shoe cements. Serial No. 510,957; May 13. Class 5.

International Silver Company, The, Meriden, Conn. Silverplated flat-ware and hollow-ware. Serial No. 511,560; May 13. Class 28.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. Serial No. 496,808; May 13. Class 22.

Italian Swiss Colony, San Francisco, Calif. Wines. Serial No. 505,654; May 13. Class 47.

Jacobs, F. L., Co., Detroit, Mich. Clothes washing machines and clothes washing machine cylinders. Serial No. 507,913; May 13. Class 24.

Jensen Manufacturing Company, Seattle, Wash. Aggregate in bat form for stuffing quilting, filling or padding. Serial No. 476,392; May 13. Class 1.

Johns-Manville Corporation, New York, N. Y. Plastic floor tile containing asbestos and binder. Serial No. 516,612; May 13. Class 12.

Kammerer, H. A., Inc., Mount Vernon, N. Y. Metal window sash and screens. Serial No. 513,661; May 13. Class 12.

Karmen, B. H., doing business as French-Kitchen Foods Company, Chatsworth, Calif. Soup mixtures. Serial No. 500,223; May 13. Class 46.

Kem-Stone Products Company, assignee: *See*—
Van Sinden, Carl H.

Kem-Stone Products Co. (Not Incorporated): *See*—
Van Sinden, Carl H.

King Innovations, Inc., New York, N. Y. Ladies' handbags, and combined handbags and cosmetic cases. Serial No. 514,355; May 13. Class 3.

Kolber, A., Inc., New York, N. Y. Fountain pens. Serial No. 502,144; May 13. Class 37.

Lake, Clark R., Kansas City, Mo. Window locks. Serial No. 509,013; May 13. Class 25.

Larus & Brother Company, Inc., also doing business as Reed Tobacco Company Branch, Larus & Brother Company, Inc., Richmond, Va., assignor to Riggio Tobacco Corporation, Brooklyn, N. Y. Cigarettes and smoking tobacco. Serial No. 506,041; May 13. Class 17.

Lathan Company, Inc., South San Francisco, Calif. Booster units. Serial No. 486,904; May 13. Class 23.

Lavalee & Ide, Inc., Chicopee, Mass. Metal cutting tools. Serial No. 508,534; May 13. Class 23.

Lehigh Handkerchief Co., New York, N. Y. Handkerchiefs. Serial No. 504,112; May 13. Class 39.

Levy, Victor H., Los Angeles, Calif. Novelties for the hair. Serial No. 501,944; May 13. Class 39.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 502,383; May 13. Class 6.

Louisiana Supply Company, Sulphur & Sulphur Mines, Sulphur, La. Boiler paints, roofing paints, marine paints, etc. Serial No. 486,907; May 13. Class 16.

Love Nest Ring, Inc., New York, N. Y. Gold finger rings and jewelry. Serial No. 503,166; May 13. Class 28.

Major Industries Co., Inc., Redondo Beach, Calif. Concrete building blocks. Serial No. 513,568; May 13. Class 12.

Marchand, O., Inc., New York, N. Y. Watches and parts thereof. Serial No. 511,280; May 13. Class 27.

Means, H. S., Co., Culver City, Calif. Buckle sets, saddle and harness buckles and saddle and harness ornaments. Serial No. 508,435; May 13. Class 28.

Miller Manufacturing Co., Inc., Portland, Oreg. Fruit and vegetable cutters. Serial No. 510,606; May 13. Class 23.

Monomac Shoe Co., Inc., Haverhill, Mass. Moccasins. Serial No. 504,125; May 13. Class 39.

Myers, Harry, & Company, Inc., Baltimore, Md. Men's and boys' suits and overcoats. Serial No. 507,013; May 13. Class 39.

Nash, Inc., Jersey City, N. J. Wallets and billfolds. Serial No. 513,945; May 13. Class 3.

National Institute of Social Relations, Inc., The, Washington, D. C. Periodical publication. Serial No. 497,809; May 13. Class 38.

National Research Corporation, Boston, Mass. Vacuum or pressure gauge. Serial No. 509,234; May 13. Class 26.

National Screen Company, Inc., Suffolk, Va. Window screens. Serial No. 509,235; May 13. Class 12.

National Starch Products Inc., New York, N. Y. Resin and starch adhesives. Serial No. 506,832; May 13. Class 5.

New York Merchandise Co., Inc., New York, N. Y. Safety pins. Serial No. 503,315; May 13. Class 40.

Norcross, New York, N. Y. Greeting cards, calendars, printed tags, etc. Serial No. 491,669; May 13. Class 38.

Nu-Dell Manufacturing Company, assignor to Nu-Dell Plastics Corporation, Chicago, Ill. Weather indicators. Serial No. 495,757; May 13. Class 26.

Nu-Dell Plastics Corporation, assignee: *See*—
Nu-Dell Manufacturing Company.

Olin Industries, Inc., New Haven, Conn. Loaded paper shot shells. Serial No. 506,255; May 13. Class 9.

Paley Manufacturing Corporation, Brooklyn, N. Y. Frozen food cabinets. Serial No. 509,872; May 13. Class 31.

Pappas and Pavlakos, Alburquerque, N. Mex. Hand cleaner. Serial No. 499,430; May 13. Class 4.

Park Metalware Company, Inc., Orchard Park, N. Y. Screw drivers, socket and other open ended wrenches and pliers. Serial No. 495,816; May 13. Class 23.

Pfaudler Co., The, Rochester, N. Y. Liquid pasteurizing equipment. Serial No. 508,613; May 13. Class 23.

Photo Research Corporation, San Fernando, Calif. Hemispherical light collector. Serial No. 509,244; May 13. Class 26.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Hypnotic and sedative. Serial No. 506,263; May 13. Class 6.

Pressing Supply Company, Philadelphia, Pa. Ironing board pads and ironing board pad covers. Serial No. 511,576; May 13. Class 24.

Recordak Corporation, New York, N. Y. Check or document endorsing machines. Serial No. 510,616; May 13. Class 23.

Reed Tobacco Company Branch: *See*—
Larus & Brother Company, Inc.

Rees and Chapman, Vancouver, British Columbia, Canada. Tooth powder and tooth paste. Serial No. 493,623; May 13. Class 6.

Regent Limited, Boston, Mass. Women's and girls' shirts, skirts, jackets, etc. Serial No. 500,416; May 13. Class 39.

Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic resinous materials. Serial No. 507,851; May 13. Class 5.

Riggio Tobacco Corporation, assignee: *See*—
Larus & Brother Company, Inc.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Men's shirts, shorts, and pajamas, etc. Serial No. 505,923; May 13. Class 39.

Rochon, Jeanne, Lyon, France. Articles of clothing for women and children. Serial No. 505,521; May 13. Class 39.

Ronson Art Metal Works, Inc., Newark, N. J. Lighter fluid. Serial No. 506,961; May 13. Class 6.

Rosking, Morris, doing business as Corvette Leather Goods Company, Gloversville, N. Y. Handbags. Serial Nos. 507,540–1; May 13. Class 3.

Salvato, Charles, & Co., Brooklyn, N. Y. Men's and women's sports, beach and work slacks. Serial No. 508,315; May 13. Class 39.

Schulze and Burch Biscuit Company, Chicago, Ill. Cookies. Serial No. 509,473; May 13. Class 46.

Scribner's, Charles, Sons, New York, N. Y. Printed books. Serial No. 507,430; May 13. Class 38.

Seaslic, Inc.: *See*—
Seaslic, Incorporated.

Seaslic, Incorporated, also doing business as Seaslic, Inc., Chicago, Ill. Powdered food-flavoring product. Serial No. 506,350; May 13. Class 46.

Sibner, H. R., Co.: *See*—
Sibner, Harold R.

Sibner, Harold R., doing business as H. R. Sibner Co., New York, N. Y. After shave lotion, hand lotion, hair lotion, etc. Serial No. 493,697; May 13. Class 6.

Skinner & Kennedy Stationery Co., St. Louis, Mo. Key containers. Serial No. 513,589; May 13. Class 3.

Smith, Kline & French Laboratories, Philadelphia, Pa. Anti-biotic mixture. Serial No. 503,398; May 13. Class 6.

Standard Kiddies Sportswear: *See*—
Beenstock, Jack N.

Startex Mills, Tucapau, S. C. Crash goods in the piece, towels, and toweling. Serial No. 491,594; May 13. Class 42.

Stetson, John B., Company, Philadelphia, Pa. Berets. Serial No. 508,556; May 13. Class 39.

Stewart, John R., Philadelphia, Pa. Rayon in the form of synthetic fibers. Serial No. 499,669; May 13. Class 1.

Strausberg, Jack, Chicago, Ill. Cartoons. Serial No. 497,887; May 13. Class 38.

Strommen, M. T., Arcadia, Calif. Lipstick and rouge. Serial No. 503,230; May 13. Class 6.

Supreme Council Mystic Order of Veiled Prophets of the Enchanted Realm, Chicago, Ill. Circulars, pamphlets, booklets, etc. Serial No. 496,873; May 13. Class 38.

Telleoptic Company, The, Racine, Wis. Back-up lights for automobiles. Serial No. 492,592; May 13. Class 21.

Tennessee Eastman Corporation, Kingsport, Tenn. Secondary aromatic amine. Serial No. 506,556; May 13. Class 6.

Thonet Brothers, Inc., New York, N. Y. Barber's armchairs, bedroom suites, bedsteads, etc. Serial No. 477,827; May 13. Class 32.

Time Oil Co., Seattle, Wash. Gasoline. Serial No. 477,381; May 13. Class 15.

Transvision, Inc., New Rochelle, N. Y. Television transmitting sets and/or television receiving sets. Serial No. 510,625; May 13. Class 21.

Turover, Isador S., Bethesda, Md. Construction materials. Serial No. 513,596; May 13. Class 12.

Tynan & Evans, Inc., New York, N. Y. Apparel fabrics. Serial No. 502,038; May 13. Class 42.

Ultrafit Co., Inc., New York, N. Y. Sport shirts, jackets, slacks, and sweaters. Serial No. 506,706; May 13. Class 39.

U. S. Lite-Ray Company, Dayton, Ohio. Water pumps and water distribution systems. Serial No. 506,072; May 13. Class 23.

United States Time Corporation, The, Waterbury, Conn. Jewelry. Serial No. 509,053; May 13. Class 28.

Universal Camera Corporation, New York, N. Y. Cameras, camera lenses, optical view finders, and range finders. Serial No. 498,952; May 13. Class 26.

Universal Camera Corporation, New York, N. Y. Radio receiving sets, electric phonographs and combinations thereof. Serial No. 498,955; May 13. Class 21.

Universal Camera Corporation, New York, N. Y. Cameras, camera lenses, optical view finders, and range finders. Serial No. 498,958; May 13. Class 26.

Vanderbilt, Gloria, Corp., New York, N. Y. Perfumes and toilet water. Serial No. 506,305; May 13. Class 6.

Vanderbilt, Gloria, Corp., New York, N. Y. Men's cologne. Serial No. 506,307; May 13. Class 6.

Vanderbilt, Gloria, Corp., New York, N. Y. Perfumes and toilet water. Serial No. 506,310; May 13. Class 6.

Van Sinden, Carl H., doing business as Kem-Stone Products Co. (Not Incorporated), assignor to Kem-Stone Products Company, Chicago, Ill. Detergents. Serial No. 482,451; May 13. Class 4.

Van Tassel, Edward D., Jr., Cohasset, Mass. Soles and insoles of leather. Serial No. 509,895; May 13. Class 39.

Veronique of California, Los Angeles, Calif. Shoulder pads. Serial No. 510,870; May 13. Class 40.

Victory Enterprises: *See*—
Fernandez, Alice L.

Vulcan Motor Products, Inc., Newark, N. J. Speedometer cables and casings. Serial No. 518,502; May 13. Class 26.

Vulcan Safety Razor Corp., Maplewood, N. J. Safety razor blades. Serial No. 503,686; May 13. Class 23.

Wallace, Burton & Davis Co., Inc., New York, N. Y. Worcestershire sauce. Serial No. 504,409; May 13. Class 46.

Warner, William R., & Co., Inc., New York, N. Y. Composition of penicillin and aluminum hydroxide gel, etc. Serial Nos. 504,234–5; May 13. Class 6.

Wein, Frank, New York, N. Y. Shoulder pads. Serial No. 512,357; May 13. Class 40.

Welch Grape Juice Company, The, Westfield, N. Y. Jam or conserve. Serial No. 507,556; May 13. Class 46.

Wellington Sears Company, New York, N. Y. Cotton piece goods. Serial No. 506,974; May 13. Class 42.

Wells, Willard Z., doing business as Essential Chemical and Drug Co., Burlington, N. J. Toothache drops. Serial No. 503,177; May 13. Class 6.

Winthrop Chemical Company, Inc., New York, N. Y. Chemotherapeutic agent. Serial No. 499,184; May 13. Class 6.

Wisconsin Alumina Research Foundation, Madison, Wis. Vitamin D concentrate. Serial No. 488,138; May 13. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Adams, Arthur R., assignor to Adams Rite Manufacturing Company, Glendale, Calif. Metal fasteners, faucets, valves, and drain valves. 429,695; May 13; Serial No. 504,872; published Feb. 11, 1947. Class 13.

Adams Rite Manufacturing Company, assignee: *See*—
Adams, Arthur R.

Adler Sons Shoe Corp., New York, N. Y. Men's shoes and sandals. 429,666; May 13; Serial No. 491,604; published Feb. 25, 1947. Class 39.

Affiliated Retailers, Inc., New York, N. Y. Gas stoves, and combination gas and coal stoves. 429,720; May 13. Class 34.

Affiliated Retailers, Inc., New York, N. Y. Control of volume and tone with full scale range. 429,730; May 13. Class 21.

Alexander, A., & Company, Limited, Edinburgh, Scotland. Whiskey. 429,677; May 13; Serial No. 500,454; published Feb. 18, 1947. Class 49.

American Brake shoe Company, New York, N. Y., and St. Louis, Mo. Gate valves and parts thereof. 429,678; May 13; Serial No. 500,595; published Feb. 4, 1947. Class 13.

American Lady Corset Co., Detroit, Mich. Girdles, combinettes, bandeaux, etc. 216,943; renewed Aug. 24, 1946. O. G. May 13. Class 39.

American Spectacle Co., Inc., assignee: *See*—
Compton Company.

Archer, A. W., Co., Inc., New York, N. Y. Twine, rope and braided cord. 225,655; renewed Mar. 22, 1947. O. G. May 13. Class 7.

Armstrong Rubber Company, The, West Haven, Conn. Pneumatic tires. 429,708; May 13; Serial No. 509,320; published Feb. 18, 1947. Class 35.

Artmart Linen Co., Inc., New York, N. Y. Towels, bureau scarves, dresser scarves, etc. 429,731; May 13. Class 42.

Ben-Hur Mfg. Co., Milwaukee, Wis. Farm and home freezers. 429,704; May 13; Serial No. 507,614; published Feb. 25, 1947. Class 31.

Ben-Hur Mfg. Co., Milwaukee, Wis. Farm and home freezers. 429,705; May 13; Serial No. 507,796; published Feb. 25, 1947. Class 31.

Berg, Charles F., to Charles F. Berg, Inc., Portland, Oreg. Gloves. 224,968; renewed Mar. 8, 1947. O. G. May 13. Class 39.

Berg, Charles F., Inc.: *See*—
Berg, Charles F.

Berke Brothers Distilleries Inc., Boston, Mass. Whiskey. 429,660; May 13; Serial No. 488,636; published Feb. 18, 1947. Class 49.

Berliner, Edwin E., & Co., New York, N. Y. All piece goods made from yarns composed of rayon. 429,662; May 13; Serial No. 489,640; published Feb. 18, 1947. Class 42.

Best Coat & Apron Mfg. Co., Inc., New York, N. Y. Washable service apparel. 429,703; May 13; Serial No. 506,087; published Feb. 25, 1947. Class 39.

Bethlehem Steel Company, Bethlehem, Pa. Steel pipe. 429,692; May 13; Serial No. 504,652; published Feb. 11, 1947. Class 13.

Beverly Hills Wine Company, Syracuse, N. Y. Wines. 429,726; May 13. Class 47.

Blanke-Baer Chemical Company, to Blanke Baer Extract & Preserving Company, St. Louis, Mo. Massage-cream and eczema cure. 61,247; re-renewed Mar. 12, 1947. O. G. May 13. Class 6.

Blanke Baer Extract & Preserving Company: *See*—
Blanke-Baer Chemical Company.

Bogen, David, Co., Inc., New York, N. Y. Sound equipment. 429,747; May 13. Class 21.

Bonat, Samuel, & Bro., New York, N. Y. Cold wave hair curlers. 429,673; May 13; Serial No. 496,946; published Feb. 25, 1947. Class 40.

Braun, E., & Co., Inc., New York, N. Y. Tablecloths, napkins, bed sheets, etc. 429,723; May 13. Class 42.

Brook, Jonas, & Bros., Limited, Meltham, England, to Jonas Brook & Bro. (U. S. A.) Inc., Newark, N. J. Cotton thread. 223,614; renewed Feb. 8, 1947. O. G. May 13. Class 43.

Brook, Jonas, & Bros. (U. S. A.) Inc.: *See*—
Brook, Jonas, & Bros., Limited.

Browne, Stewart R., Mfg. Co., Inc., New York, N. Y. Braided asbestos lubricated yarn valve stem packing. 429,674; May 13; Serial No. 497,011; published Feb. 11, 1947. Class 35.

Buettner, T., & Co., Inc., Chicago, Ill. Aprons. 220,455; renewed Nov. 9, 1946. O. G. May 13. Class 39.

Burklyn Company, Los Angeles, Calif. Extensible sprinkler heads. 429,697; May 13; Serial No. 505,281; published Feb. 11, 1947. Class 13.

California Brass Mfg. Co., Los Angeles, Calif. Faucets, valves, cocks, etc. 429,696; May 13; Serial No. 504,962; published Feb. 18, 1947. Class 13.

California Growers Wineries, Cutler, Calif. Wines. 429,744; May 13. Class 47.

Cannon Shoe Company, Baltimore, Md. Shoes. 429,690; May 13; Serial No. 504,604; published Feb. 25, 1947. Class 39.

Carter Coal Company, New York, N. Y. Coal. 429,651; May 13; Serial No. 455,221; published Dec. 29, 1942. Class 1.

Carter Coal Company, New York, N. Y. Coal. 429,652–4; May 13; Serial Nos. 455,223–5; published Dec. 29, 1942. Class 1.

Cecco, Edward L., doing business as Cecco Yarns, Niles, Mich. Yarn. 429,736; May 13. Class 43.

Cecco Yarns: *See*—
Cecco, Edward L.

Chapman, Samuel, Inc., New York, N. Y. Ladies' and misses' dresses, coats and suits. 429,748; May 13. Class 39.

Chavin, Bernard, Brooklyn, N. Y. Billfolds, pocketbooks, and wallets. 429,668; May 13; Serial No. 494,213; published Feb. 25, 1947. Class 3.

Chemische Fabrik "Norgine" Dr. Victor Stein, Prague, Czechoslovakia, to Schering Corporation, Bloomfield, N. J. Pharmaceutical preparations. 222,534; renewed Jan. 4, 1947. O. G. May 13. Class 6.

Chemische Fabrik Vormals Sandoz, Basel, Switzerland, to Sandoz Chemical Works, Inc., New York, N. Y. Medicinal compound. 60,788; re-renewed Feb. 19, 1947. O. G. May 13. Class 6.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, etc., fabrics in the piece. 224,987–8; renewed Mar. 8, 1947. O. G. May 13. Class 42.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, etc., fabrics in the piece. 225,248–9; renewed Mar. 15, 1947. O. G. May 13. Class 42.

Chesterton, A. W., Company, Boston, Mass. Mechanical packings. 429,721; May 13. Class 35.

Church Grape Juice Co., Kennewick, Wash. Grape juice. 429,734; May 13. Class 45.

Clark & Co., Ltd, Paisley, Scotland, to The Clark Thread Company, Newark, N. J. Sewing cotton, crochet, embroidery, and knitting cotton. 59,158; re-renewed Jan. 1, 1947. O. G. May 13. Class 43.

Clark Thread Company, The: *See*—
Clark & Co., Ltd.

Clark Thread Company, The, Newark, N. J. Sewing cotton or cotton thread. 223,684; renewed Feb. 8, 1947. O. G. May 13. Class 43.

Coats, J. & P., Limited, Paisley, Scotland, to J. & P. Coats, (R. I.) Inc., Pawtucket, R. I. Sewing-cotton on spools or reels. 60,307–8; re-renewed Feb. 5, 1947. O. G. May 13. Class 43.

Coats, J. & P., (R. I.) Inc.: *See*—
Coats, J. & P., Limited.

Colorado Fuel and Iron Corporation, The: *See*—
Metalace Corporation, The.

Colorbrite Textiles, Inc., New York, N. Y. Pillow protectors. 429,680; May 13; Serial No. 500,741; published Feb. 25, 1947. Class 42.

Columbia Bag & Paper Corporation, Long Island City, to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 224,317; renewed Feb. 22, 1947. O. G. May 13. Class 2.

Columbia Carpet Mills, Inc.: *See*—
Nelson, Hugh, -Columbia Carpet Mills, Inc.

Columbia Chemical Works, Brooklyn, to Parsons Ammonia Company, Inc., New York, N. Y. Aqua ammonia. 58,397; re-renewed Dec. 11, 1946. O. G. May 13. Class 6.

Comptone Company, assignor to American Spectacle Co., Inc., New York, N. Y. Sun glasses, eye glasses, spectacles, etc. 429,669–70; May 13; Serial Nos. 494,784–5; published July 23, 1946. Class 26.

Consolidated Cigar Corporation: *See*—
Lovera, Jose, Co.,

Cooke & Cobb Company, The, Brooklyn, to The Cooke & Cobb Company, New York, N. Y. Vertical-cabinet folders, alphabetical-index inserts, and hand-operated perforators. 224,456; renewed Mar. 1, 1947. O. G. May 13. Class 37.

Cooke & Cobb Company, The, Brooklyn, to The Cooke & Cobb Company, New York, N. Y. Files for correspondence and papers. 224,596; renewed Mar. 1, 1947. O. G. May 13. Class 37.

Corliss, Coon & Co.: *See*—
Stein Uniform Company.

Corrao, John, doing business as Original Trapunto Novelties Co., New York, N. Y. Holding pad for baby bottles. 429,752; May 13. Class 40.

Cosmic Laboratories: *See*—
Rhoads, Earnest E.

Cosmic Products Co.: *See*—
Rhoads, Earnest E.

Cream of Wheat Company, to The Cream of Wheat Corporation, Minneapolis, Minn. Wheat breakfast food. 226,621; renewed Apr. 12, 1947. O. G. May 13. Class 46.

Cream of Wheat Corporation, The: *See*—
Cream of Wheat Company.

Davega, Inc., to Davega Stores Corporation, New York, N. Y. Ice skates. 225,694; renewed Mar. 22, 1947. O. G. May 13. Class 22.

Davega Stores Corporation: *See*—
Davega, Inc.

Davis, A. B., & Company: *See*—
Davis, Alva B.

Davis, Alva B., doing business as A. B. Davis & Company, Dallas, Tex. Charcoal heated barbecue grill and broiler. 429,675; May 13; Serial No. 497,655; published Feb. 25, 1947. Class 34.

Del Collado, Ramon, Habana, Cuba. Rum. 429,711; May 13. Class 49.

Desert Grapefruit Industry Committee, Inc., Phoenix, Ariz. Canned citrus juices. 429,712; May 13. Class 45.

Diskin, Saul, New York, N. Y. Leather utility and dressing cases; and overnight bags. 429,671; May 13; Serial No. 494,823; published Feb. 25, 1947. Class 3.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Graphite. 59,029; re-renewed Jan. 1, 1947. O. G. May 13. Classes 1 and 15.

Drondoski, Edward W., doing business as Manhan Potato Chip Co., Easthampton, to Manhan Potato Chip Co., Inc., Northampton, Mass. Potato chips. 221,869; renewed Dec. 14, 1946. O. G. May 13. Class 46.

Dunn Worsted Mills, Woonsocket, R. I. Woolen and worsted piece goods. 224,449; renewed Mar. 1, 1947. O. G. May 13. Class 42.

Du Pont, E. I., de Nemours and Company: *See*—
Eastern Dynamite Company, The.

Eastern Dynamite Company, The, Kenvil, N. J., to E. I. du Pont de Nemours and Company, Wilmington, Del. High explosives. 60,918; re-renewed Feb. 26, 1947. O. G. May 13. Class 9.

Elgin American Division of Illinois Watch Case Co.: *See*—
Illinois Watch Case Co.

Elverson Distilling Company, Inc., The, Philadelphia and Elverson, Pa. Potable, distilled spiritous beverages. 429,683; May 13; Serial No. 501,315; published Dec. 31, 1946. Class 49.

Embo Casual Footwear Corp: *See*—
Palm Beach Casual Corp.

English Needle & Fishing Tackle Company, Limited, The: *See*—
Harper, Thomas, & Sons Limited.
James, John, & Sons, Limited.
Milward, H., & Sons, L'd.

Enterprise Manufacturing Company of Pennsylvania, The, Philadelphia, Pa. Sad irons. 60,517; re-renewed Feb. 12, 1947. O. G. May 13. Class 24.

Errig, William F., to Peco Manufacturing Corporation, Philadelphia, Pa. Experimental and special machinery. 224,466; renewed Mar. 1, 1947. O. G. May 13. Class 23.

Finley, A. H.: *See*—
Rhoads, Earnest E.

Fitz Patrick, A. L., Philadelphia, Pa. Horses. 224,922; renewed Mar. 8, 1947. O. G. May 13. Class 1.

Fog Nozzle Company, Los Angeles, Calif. Nozzles. 429,714; May 13. Class 13.

Forman, Ford and Company, Minneapolis, Minn. Decorative roof coatings. 429,718; May 13. Class 16.

General Baking Company, New York, N. Y. Magazine. 222,007; renewed Dec. 21, 1946. O. G. May 13. Class 38.

General Dry Batteries, Inc., Cleveland, to General Dry Batteries, Inc., Lakewood, Ohio. Electric batteries. 220,666; renewed Nov. 16, 1946. O. G. May 13. Class 21.

General Dyestuff Corporation, New York, N. Y. Dyes, dyestuffs, and dyestuff intermediates, etc. 224,827; renewed Mar. 8, 1947. O. G. May 13. Class 6.

General Foods Corporation: *See*—
Postum Cereal Co., Ltd.
Towle Syrup Co., The.

General Mills, Inc.: *See*—
Purity Oats Company.
Red Star Milling Company, The.

General Ribbon Mills, Inc., New York, N. Y. Ribbons. 429,663; May 13; Serial No. 489,954; published Feb. 25, 1947. Class 42.

Goldman-Rossman Corporation, New York, N. Y. Knitted and woven fabrics. 429,725; May 13. Class 42.

Goodrich, B. F., Company, The: *See*—
Miller Manufacturing Co., The.
Miller Rubber Company, The.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Accelerators. 223,697; renewed Feb. 8, 1947. O. G. May 13. Class 6.

Grant, Foster, Co., Inc., Leominster, Mass. Sunglasses. 429,741–2; May 13. Class 26.

Guest, Keen & Nettlefolds, Limited, Birmingham, to Guest, Keen & Nettlefolds Limited, Smethwick, England. Screws of all descriptions, nails, rivets, nuts, etc. 60,716; re-renewed Feb. 19, 1947. O. G. May 13. Classes 13 and 40.

Halgreen, Inc., New York, N. Y. Radio receiving sets and parts thereof in radio kits. 429,751; May 13. Class 21.

Haller, W. A., Company, Inc., Pittsburgh and Philadelphia, Pa. Potable, distilled spiritous beverages, particularly whiskey. 429,672; May 13; Serial No. 496,309; published Jan. 7, 1946. Class 49.

Hamm, Theo., Brewing Company, St. Paul, Minn. Nonalcoholic malt beverage. 225,364; renewed Mar. 15, 1947. O. G. May 13. Class 48.

Harper, Thomas, & Sons Limited, Redditch, England, to The English Needle & Fishing Tackle Company, Limited, Birmingham, England. Hand sewing needles. 223,210; renewed Feb. 22, 1947. O. G. May 13. Class 40.

Harte, Ralph S., San Francisco, Calif. Thin transparent or translucent sheets or films of polyvinyl resin. 429,717; May 13. Class 42.

Hartman Corporation of America, The, St. Louis, Mo. Battery chargers and analyzers. 429,750; May 13. Class 21.

Hearst Corporation, The: *See*—
Northeastern Publishing Company.

Hershey Chocolate Company, to Hershey Corporation, Hershey, Pa. Sugar. 222,759; renewed Jan. 11, 1947. O. G. May 13. Class 46.

Hershey Corporation: *See*—
Hershey Chocolate Company

Hesslein & Co., Inc., New York, N. Y. Sheetings, sheets, and pillow cases. 429,686; May 13; Serial No. 503,093; published Feb. 25, 1947. Class 42.

Hochschild, Kohn & Co., Inc., Baltimore, Md. Women's corsets, underwear, negligees, etc. 224,485; renewed Mar. 1, 1947. O. G. May 13. Class 39.

Hollywood Theater Screen Service, Inc., Milwaukee, Wis. Reprocessed theater screen. 429,706; May 13; Serial No. 508,288; published Feb. 11, 1947. Class 26.

House Beautiful Curtains, Inc., New York, N. Y. Shower curtains. 429,700; May 13; Serial No. 505,831; published Feb. 18, 1947. Class 13.

Houze, L. J., Convex Glass Company, Point Marion, Pa. Sheet glass, optical glass, and pressed glassware. 225,181; renewed Mar. 15, 1947. O. G. May 13. Class 33.

I. C. A. Industrie Conserve Alimentari: *See*—
Società Anonima Bonifiche Pontine.

Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Button hooks, money clips, shoe horns, etc. 429,656; May 13; Serial No. 481,847; published Feb. 25, 1947. Class 40.

Jacobson Textile Corp., New York, N. Y. Textile cloth in the piece. 429,661; May 13; Serial No. 489,584; published Feb. 25, 1947. Class 42.

James, John, & Sons, Limited, Redditch, to The English Needle & Fishing Tackle Company, Limited, Birmingham, England. Hand sewing-needles, crochet hooks, hand knitting pins, etc. 57,412; re-renewed Nov. 13, 1946. O. G. May 13. Class 40.

Jones & Randolph, Ltd., Chicago, Ill. Flavored gin, kummel, sloe gin, etc. 429,722; May 13. Class 49.

Kann, S., Sons Company, The, Washington, D. C. Refrigerators. 218,832; renewed Oct. 5, 1946. O. G. May 13. Class 31.

Kaplan, Lazare, & Sons, Inc., New York, N. Y. Diamond impregnated wheels and diamond impregnated hones. 429,738; May 13. Class 4.

Koret of California, Inc., San Francisco, Calif. Girls' and women's jackets, coats, blouses, etc. 429,688; May 13; Serial No. 503,455; published Feb. 11, 1947. Class 39.

Laher Spring and Tire Corporation, Oakland, Calif. Pneumatic tires. 429,749; May 13. Class 35.

Lakeside Packing Company, Manitowoc, Wis. Canned vegetables. 221,057; renewed Nov. 23, 1946. O. G. May 13. Class 46.

Lakeside Packing Company, Manitowoc, Wis. Canned vegetables, pork and beans and relishes. 221,058; renewed Nov. 23, 1946. O. G. May 13. Class 46.

Lakeside Packing Company, Manitowoc, Wis. Canned vegetables. 222,025; renewed Dec. 21, 1946. O. G. May 13. Class 46.

Lakeside Packing Company, Manitowoc, Wis. Canned vegetables and relishes. 224,342; renewed Feb. 22, 1947. O. G. May 13. Class 46.

Lakeside Packing Company, Manitowoc, Wis. Canned vegetables and pickles. 225,010; renewed Mar. 8, 1947. O. G. Mar. 13. Class 46.

Lecap Rainwear Co., New York, N. Y. Ladies', misses', and girls' raincoats, and raincoat and hood ensembles. 429,664; May 13; Serial No. 490,836; published May 14, 1946. Class 39.

Levy, Charles H., Company, New Orleans, La. Men's and boys' ties and cravats. 429,693; May 13; Serial No. 504,678; published Feb. 18, 1947. Class 39.

Liebert, Dora, doing business as Dorine Liebert, New York, N. Y. Blouses, negligees, and vestees. 429,743; May 13. Class 39.

Liebert, Dorine: *See*—
Liebert, Dora.

Lovera, Jose, Co., to Consolidated Cigar Corporation, New York, N. Y. Cigars. 59,354; re-renewed Jan. 8, 1947. O. G. May 13. Class 17.

Lyman Gun Sight Corporation, The, Middlefield, Conn Gun-sights. 61,393; re-renewed Mar. 19, 1947. O. G. May 13. Class 9.

Manhan Potato Chip Co.: *See*—
Drondoski, Edward W.

Manhan Potato Chip Co., Inc.: *See*—
Drondoski, Edward W.

Manhattan Shirt Company, The, New York, N. Y. Neckwear. 429,687; May 13; Serial No. 503,301; published Feb. 11, 1947. Class 39.

Marber Shoe Company Inc., Boston, Mass. Men's and women's boots, shoes, sandals, and slippers. 429,689; May 13; Serial No. 504,372; published Feb. 25, 1947. Class 39.

Matthews, W. N., Corporation, St. Louis, Mo. Clamps. 429,701; May 13; Serial No. 505,847; published Feb. 18, 1947. Class 13.

Metalace Corporation, The, Boston and South Boston, Mass., to The Colorado Fuel and Iron Corporation, New York, N. Y. Open-mesh fabric of metal strands. 219,925; renewed Oct. 26, 1946. O. G. May 13. Class 13.

Miller Rubber Company, The, Akron, Ohio, to The B. F. Goodrich Company, New York, N. Y. Rubber tires and tubes. 218,928; renewed Oct. 5, 1946. O. G. May 13. Class 35.

Miller Rubber Manufacturing Co., The, Akron, Ohio, to The B. F. Goodrich Company, New York, N. Y. Seamless rubber gloves. 56,773; re-renewed Oct. 16, 1946. O. G. May 13. Classes 39 and 44.

Milward, H., & Sons, Ltd., Redditch, to The English Needle & Fishing Tackle Company, Limited, Birmingham, England. Fish-hooks, artificial flies, artificial baits, etc. 57,707; re-renewed Nov. 27, 1946. O. G. May 13. Class 22.

Minchenberg, Morton, New York, N. Y. Misses' and junior misses' blouses and dresses. 429,740; May 13. Class 39.

Moynahan Bronze Company, Detroit, Mich. Hinges and separable connectors. 429,713; May 13. Class 13.

Nash, C. A., & Son, Inc., Norfolk, Va. Wax. 429,728; May 13. Class 16.

Nelson, Hugh,-Columbia Carpet Mills, Inc., Philadelphia, Pa. Textile rugs and carpets. 429,685; May 13; Serial No. 501,759; published Feb. 25, 1947. Class 42.

Northeastern Publishing Company, to The Hearst Corporation, Boston, Mass. Daily newspaper. 218,916; renewed Oct. 5, 1946. O. G. May 13. Class 38.

Odell Company, Inc., The, Newark, N. J. Toilet requisites. 225,500; renewed Mar. 22, 1947. O. G. May 13. Class 6.

Optique et Precision de Levallois, Levallois-Perret (Seine), France. Photographic apparatus. 429,658; May 13; Serial No. 487,200; published Feb. 11, 1947. Class 26.

Original Trapunto Novelties Co.: *See*—
Corrao, John.

Ortho Products Co.: *See*—
Rolling, Irving K.

Ouerbacker Coffee Co., Inc., The, Louisville, Ky. Coffee. 216,733; renewed Aug. 17, 1946. O. G. May 13. Class 46.

Pallarés Hermanos, S. A.: *See*—
Pallares Hermanos.

Pallares Hermanos, to Pallarés Hermanos, S. A., Cabra, Spain. Olive oil. 221,639; renewed Dec. 7, 1946. O. G. May 13. Class 46.

Palm Beach Casual Corp., Boston, Mass., now by change of name Embo Casual Footwear Corp. Women's slippers. 429,698; May 13; Serial No. 505,313; published Feb. 25, 1947. Class 39.

Palmer, Mona, Los Angeles, Calif., executrix and sole trustee of the estate of Russell Palmer, deceased. Magazine. 429,729; May 13. Class 38.

Palmer, Mona, Los Angeles, Calif., executrix and sole trustee of the estate of Russell Palmer, deceased. Magazine. 429,733; May 13. Class 38.

Palmer, Russell: *See*—
Palmer, Mona.

Parsons Ammonia Company, Inc.: *See*—
Columbia Chemical Works.

Patent Scaffolding Co. Inc., The: *See*—
Steel Scaffolding Co.

Peanut Specialty Co., Chicago, Ill. Roasted and salted peanuts. 225,670; renewed Mar. 22, 1947. O. G. May 13. Class 46.

Peco Manufacturing Corporation: *See*—
Errig, William F.

Phillips-Jones Corporation, New York, N. Y. Neckties and scarfs, dress shirts, sports shirts, etc. 429,702; May 13; Serial No. 505,856; published Feb. 25, 1947. Class 39.

Piedmont Shirt Company, Greenville, S. C. Men's underwear. 429,691; May 13; Serial No. 504,632; published Feb. 18, 1947. Class 39.

Pierce, S. S., Co., Boston, Mass Blend of coffee with other ingredients. 58,135; re-renewed Dec. 4, 1946. O. G. May 13. Class 46.

Pierce, S. S., Co., Boston, Mass. Cigars. 58,233; re-renewed Dec. 11, 1946. O. G. May 13. Class 17.

Pierce, S. S., Co., Boston, Mass. Baking-powder. 58,713; re-renewed Dec. 25, 1946. O. G. May 13. Class 46.

Pierce, S. S., Co., Boston, Mass. Canned and preserved fruits, canned vegetables, canned fish, etc. 223,788; renewed Feb. 8, 1947. O. G. May 13. Class 46.

Plastic-Ply Corporation, The, Cleveland, Ohio. Polish for metals. 429,667; May 13; Serial No. 492,854; published Jan. 7, 1947. Class 4.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Lawn hose and rubber washers. 429,694; May 13; Serial No. 504,696; published Feb. 4, 1947. Class 35.

Postum Cereal Co., Ltd., Battle Creek, Mich., to General Foods Corporation, New York, N. Y. Sugar. 59,204; re-renewed Jan. 1, 1947. O. G. May 13. Class 46.

Pressure Proof Piston Ring Company, Boston, Mass., to Thompson Products, Inc., Cleveland, Ohio. Piston rings. 223,418; renewed Feb. 1, 1947. O. G. May 13. Class 35.

Prior, W. F. Company, Inc., Hagerstown, Md. Monthly medical journal. 225,126; renewed Mar. 15, 1947. O. G. May 13. Class 38.

Purity Oats Company, Keokuk, Iowa, to General Mills, Inc., Minneapolis, Minn. Rolled oats. 221,074; renewed Nov. 23, 1946. O. G. May 13. Class 46.

Quinn, Edwin H., doing business as Zephyr Products Co., Brooklyn, N. Y. Bobby pins. 429,684; May 13; Serial No. 501,595; published Feb. 25, 1947. Class 40.

Red Star Milling Company, The, Wichita, Kans., to General Mills, Inc., Minneapolis, Minn. Wheat flour. 218,934; renewed Oct. 5, 1946. O. G. May 13. Class 46.

Reiter, Julius, Cincinnati, Ohio. Top coats and overcoats. 429,735; May 13. Class 39.

Remcraft Products: *See*—
Remstein, William.

Remstein, William, doing business as Remcraft Products, Syracuse, N. Y. Festoon rings and festoon holders. 429,679; May 13; Serial No. 500,698; published Feb. 4, 1947. Class 13.

Revel Dresses, Inc., New York, N. Y. Ladies', misses', and junior misses' dresses. 429,739; May 13. Class 39.

Rhoads, Earnest E., doing business as Cosmic Laboratories, to A. H. Finley, doing business as Cosmic Products Co., Washington Court House, Ohio. Antiseptic powder. 225,302; renewed Mar. 15, 1947. O. G. May 13. Class 6.

Riedele, Andrew P., Los Angeles, Calif. Attachment for toilet bowls. 429,657; May 13; Serial No. 484,107; published Jan. 28, 1947. Class 13.

Roebling's, John A., Sons Company, Trenton, N. J. Rubber-covered electrical wire. 56,844; re-renewed Oct. 23, 1946. O. G. May 13. Class 21.

Rolling, Irving K., doing business as Ortho Products Co., New York, N. Y. Foot cushioning inner soles. 429,746; May 13. Class 39.

Rotella Beverages, Inc., Newark, N. J. Non-alcoholic, noncereal, maltless beverages. 429,727; May 13. Class 45.

Roth, Aaron, New York, N. Y. Tuning fork. 429,716; May 13. Class 44.

St. Clair Foods Co., Ltd., McAllen, Tex. Canned citrus juices. 429,732; May 13. Class 46.

Salvador Sicars Salbado, Santiago de Cuba, Cuba. Rum. 429,655; May 13; Serial No. 464,765; published Jan. 7, 1947. Class 49.

Sandoz Chemical Works, Inc.: *See*—
Chemische Fabrik Vormals Sandoz.

Schering Corporation: *See*—
Chemische Fabrik "Norgine" Dr. Victor Stein.

Schieren, Chas. A., Company: *See*—
Schieren, Chas. A., & Co.

Schieren, Chas. A., & Co., to Chas. A. Schieren Company, New York, N. Y. Leather of all kinds. 61,577; re-renewed Mar. 26, 1947. O. G. May 13. Class 1.

Scranton Lace Company, The, Scranton, Pa. Lace dinner cloths. 429,659; May 13; Serial No. 487,528; published Feb. 25, 1947. Class 42.

Seamprufe Incorporated, New York, N. Y. Women's apparel. 429,676; May 13; Serial No. 500,188; published Feb. 25, 1947. Class 39.

Smith, J. Allen, & Company, Knoxville, Tenn. Wheat flour. 224,910; renewed Mar. 8, 1947. O. G. May 13. Class 46.

Società Anonima Bonifiche Pontine, to I. C. A. Industrie Conserve Alimentari, Rome, Italy. Concentrated tomato, tomato sauce, peeled tomatoes, etc. 218,512; renewed Sept. 28, 1946. O. G. May 13. Class 46.

Solar Electric Corporation, Warren, Pa. Electric incandescent lamps, electric dry batteries, etc. 429,745; May 13. Class 21.

So-Lo Jack Company, Inc., Attleboro, Mass. Lifting jacks and parts thereof. 223,864; renewed Feb. 15, 1947. O. G. May 13. Class 23.

Standard Steel Propeller Company, Pittsburgh, Pa., to United Aircraft Corporation, East Hartford, Conn. Blades and hubs for aeroplane propellers. 225,307; renewed Mar. 15, 1947. O. G. May 13. Class 19.

Steel Scaffolding Co., Evansville, Ind., to The Patent Scaffolding Co. Inc., Long Island City, N. Y. Carpenters', plasterers' structural-metal-workers', and other artisans' metal scaffolds, trestles, and brackets. 218,837; renewed Oct. 5, 1947. O. G. May 13. Class 50.

Stein Uniform Company, also doing business as Corliss, Coon & Co., Baltimore, Md. Men's and women's collars. 429,682; May 13; Serial No. 501,096; published Feb. 25, 1947. Class 39.

Stone, H., & Co., Ltd., Newark, N. J. Wines. 429,724; May 13. Class 47.

Strong, Carlisle & Hammond Company, Cleveland, Ohio. Steam traps, air traps, gasoline and oil traps, etc. 429,715; May 13. Class 13.

Thompson, H. I., Co., The: *See*—
Thompson, Harry I.

Thompson, Harry I., doing business as The H. I. Thompson Co., Los Angeles, Calif. Insulating blankets. 429,707; May 13; Serial No. 509,111; published Feb. 25, 1947. Class 12.

Thompson Products, Inc.: *See*—
Pressure Proof Piston Ring Company.

Towle Syrup Co., The, St. Paul, Minn., to General Foods Corporation, New York, N. Y. Preparation of cereals, preserves, and jellies. 29,409; re-renewed Jan. 5, 1947. O. G. May 13. Class 46.

Union Bag & Paper Corporation: *See*—
Columbia Bag & Paper Corporation.

United Aircraft Corporation: *See*—
Standard Steel Propeller Company.

Universal Mfg. Co. Inc., New York, N. Y. Men's and boys' pajamas and nightshirts. 429,699; May 13; Serial No. 505,462; published Feb. 18, 1947. Class 39.

Vamos, Alfred, Inc., New York, N. Y. Textile fabrics. 429,665; May 13; Serial No. 491,438; published Feb. 18, 1947. Class 42.

Veale, Frank, Mfg. Co., Bradenton, Fla. Fibre product. 429,737; May 13. Class 1.

Vigder Bros., Incorporated, New York, N. Y. Ladies' and misses' fur coats. 429,719; May 13. Class 39.

Vita-Food Corporation, The, Los Angeles, Calif. Concentrate. 429,709; May 13. Class 6.

Wanamaker, John, Philadelphia, Philadelphia, Pa. Perfumes and toilet creams. 225,003; renewed Mar. 8, 1947. O. G. May 13. Class 6.

Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. 225,004; renewed Mar. 8, 1947. O. G. May 13. Class 6.

Warner Brothers Company, The, Bridgeport, Conn. Bust pads. 429,681; May 13; Serial No. 500,918; publ'shed Feb. 25, 1947. Class 40.

Warren Featherbone Co., The, to The Warren Featherbone Co., Three Oaks, Mich. Stiffening cords, blades, tapes, and fabrics. 60,338; re-renewed Feb. 5, 1947. O. G. May 13. Class 40.

Western Salt Co., San Diego, Calif. Salt. 225,123; renewed Mar. 15, 1947. O. G. May 13. Class 46.

Woodside, Frank G., doing business as Woodside Industries, Wauwatosa, Wis. Finely divided heat insulating material. 429,710; May 13. Class 12.

Woodside Industries: *See*—
Woodside, Frank G.

Zephyr Products Co.: *See*—
Quinn, Edwin H.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Carter Coal Company. 429,651; May 13; Serial No. 455,221; published Dec. 29, 1942.

Coal. Carter Coal Company. 429,652–4; May 13; Serial Nos. 455,223–5; published Dec. 29, 1942.

Fibre product. Frank Veale Mfg. Co. 429,737; May 13.

Graphite. Joseph Dixon Crucible Company. 59,029; re-renewed Jan. 1, 1947. O. G. May 13.

Horses. A. L. Fitz Patrick. 224,922; renewed Mar. 8, 1947. O. G. May 13.

Leather of all kinds. Chas. A. Schieren & Co. 61,577; re-renewed Mar. 26, 1947. O. G. May 13.

CLASS 2

Bags, Paper. Columbia Bag & Paper Corporation. 224,317; renewed Feb. 22, 1947. O. G. May 13.

CLASS 3

Billfolds, pocketbooks, and wallets. B. Chavin. 429,668; May 13; Serial No. 494,213; published Feb. 25, 1947.

Cases; and overnight bags, Leather utility and dressing. S. Diskin. 429,671; May 13; Serial No. 494,823; published Feb. 25, 1947.

CLASS 4

Polish for metals. Plastic-Ply Corporation. 429,667; May 13; Serial No. 492,854; published Jan. 7, 1947.

Wheels and diamond impregnated hones, Diamond impregnated. Lazare Kaplan & Sons, Inc. 429,738; May 13.

CLASS 6

Accelerators. Goodyear Tire & Rubber Company. 223,697; renewed Feb. 8, 1947. O. G. May 13.

Ammonia, Aqua. Columbia Chemical Works. 58,397; re-renewed Dec. 11, 1946. O. G. May 13.

Antiseptic powder. E. E. Rhoads. 225,302; renewed Mar. 15, 1947. O. G. May 13.

Concentrate. Vita-Food Corporation. 429,709; May 13.

Dyes, dyestuffs, and dyestuff intermediates, etc. General Dyestuff Corporation. 224,827; renewed Mar. 8, 1947. O. G. May 13.

Massage-cream and eczema cure. Blanke-Baer Chemical Company. 61,247; re-renewed Mar. 12, 1947. O. G. May 13.

Medicinal compound. Chemische Fabrik Vermals Sandoz. 60,788; re-renewed Feb. 19, 1947. O. G. May 13.

Perfumes and toilet creams. John Wanamaker Philadelphia. 225,003; renewed Mar. 8, 1947. O. G. May 13.

Pharmaceutical preparations. Chemische Fabrik "Norgine" Dr. Victor Stein. 222,534; renewed Jan. 4, 1947. O. G. May 13.

Soaps. John Wanamaker Philadelphia. 225,004; renewed Mar. 8, 1947. O. G. May 13.

Toilet requisites. Odell Company, Inc. 225,500; renewed Mar. 22, 1947. O. G. May 13.

CLASS 7

Twine, rope, and braided cord. A. W. Archer Co., Inc. 225,655; renewed Mar. 22, 1947. O. G. May 13.

CLASS 9

Explosives, High. Eastern Dynamite Company. 60,918; re-renewed Feb. 26, 1947. O. G. May 13.

Gun-sights. Lyman Gun Sight Corporation. 61,393; re-renewed Mar. 19, 1947. O. G. May 13.

CLASS 12

Insulating blankets. H. I. Thompson. 429,707; May 13; Serial No. 509,111; published Feb. 25, 1947.

Insulating material, Finely divided heat. F. G. Woodside. 429,710; May 13.

CLASS 13

Attachment for toilet bowls. A. P. Riedele. 429,657; May 13; Serial No. 484,107; published Jan. 28, 1947.

Clamps. W. N. Matthews Corporation. 429,701; May 13; Serial No. 505,847; published Feb. 18, 1947.

Curtains, Shower. House Beautiful Curtains, Inc. 429,700; May 13; Serial No. 505,831; published Feb. 18, 1947.

Fabric of metal strands, Open-mesh. Metalace Corporation. 219,925; renewed Oct. 26, 1946. O. G. May 13.

Fasteners, faucets, valves, and drain valves, Metal. A. R. Adams. 429,695; May 13; Serial No. 504,872; published Feb. 11, 1947.

Faucets, valves, cocks, etc. California Brass Mfg. Co. 429,696; May 13; Serial No. 504,962; published Feb. 18, 1947.

Hinges and separable connectors. Moynahan Bronze Company. 429,713; May 13.

Nozzles. Fog Nozzle Company. 429,714; May 13.

Pipe, Steel. Bethlehem Steel Company. 429,692; May 13; Serial No. 504,652; published Feb. 11, 1947.

Rings and festoon holders, Festoon. W. Remstein. 429,679; May 13; Serial No. 500,698; published Feb. 4, 1947.

Screws of all descriptions, nails, rivets, nuts, etc. Guest, Keen & Nettlefolds, Limited. 60,716; re-renewed Feb. 19, 1947. O. G. May 13.

Sprinkler heads, Extensible. Burklyn Company. 429,697; May 13; Serial No. 505,281; published Feb. 11, 1947.

Traps, air traps, gasoline and oil traps, etc., Steam. Strong, Carlisle & Hammond Company. 429,715; May 13.

Valves and parts thereof, Gate. American Brake Shoe Company. 429,678; May 13; Serial No. 500,595; published Feb. 4, 1947.

CLASS 15

Graphite. Joseph Dixon Crucible Company. 59,029; re-renewed Jan. 1, 1947. O. G. May 13.

CLASS 16

Roof coatings, Decorative. Forman, Ford and Company. 429,718; May 13.

Wax. C. A. Nash & Son, Inc. 429,728; May 13.

CLASS 17

Cigars. Jose Lovera Co. 59,354; re-renewed Jan. 8, 1947. O. G. May 13.

Cigars. S. S. Pierce Co. 58,233; re-renewed Dec. 11, 1946. O. G. May 13.

CLASS 19

Blades and hubs for aeroplane propellers. Standard Steel Propeller Company. 225,307; renewed Mar. 15, 1947. O. G. May 13.

CLASS 21

Batteries, Electric. General Dry Batteries, Inc. 220,666; renewed Nov. 16, 1946. O. G. May 13.

Battery chargers and analyzers. Hartman Corporation of America. 429,750; May 13.

Control of volume and tone with full scale range. Affiliated Retailers, Inc. 429,730; May 13.

Lamps, electric dry batteries, etc., Electric incandescent. Solar Electric Corporation. 429,745; May 13.

Radio receiving sets and parts thereof in radio kits. Halgreen, Inc. 429,751; May 13.

Sound equipment. David Bogen Co., Inc. 429,747; May 13.

Wire, Rubber-covered electrical. John A. Roebling's Sons Company. 56,844; re-renewed Oct. 23, 1946. O. G. May 13.

CLASS 22

Fish-hooks, artificial flies, artificial baits, etc. H. Milward & Sons, L'd. 57,707; re-renewed Nov. 27, 1946. O. G. May 13.

Skates, Ice. Davega, Inc. 225,694; renewed Mar. 22, 1946. O. G. May 13.

CLASS 23

Jacks and parts thereof, Lifting. So-Lo Jack Company, Inc. 223,864; renewed Feb. 15, 1947. O. G. May 13.

Machinery, Experimental and special. W. F. Errig. 224,466; renewed Mar. 1, 1947. O. G. May 13.

CLASS 24

Irons, Sad. Enterprise Manufacturing Company of Pennsylvania. 60,517; re-renewed Feb. 12, 1947. O. G. May 13.

CLASS 26

Glasses, eye glasses, spectacles, etc., Sun. Comptone Company. 429,669–70; May 13; Serial Nos. 494,784–5; published July 23, 1946.

Photographic apparatus. Optique et Precision de Levallois. 429,658; May 13; Serial No. 487,200; published Feb. 11, 1947.

Screen, Reprocessed theater. Hollywood Theater Screen Service, Inc. 429,706; May 13; Serial No. 508,288; published Feb. 11, 1947.

Sunglasses. Foster Grant Co., Inc. 429,741–2; May 13.

CLASS 31

Freezers, Farm and home. Ben-Hur Mfg. Co. 429,704; May 13; Serial No. 507,614; published Feb. 25, 1947.

Freezers, Farm and home. Ben-Hur Mfg. Co. 429,705; May 13; Serial No. 507,796; published Feb. 25, 1947.

Refrigerators. S. Kann Sons Company. 218,832; renewed Oct. 5, 1946. O. G. May 13.

CLASS 33

Glass, optical glass, and pressed glassware, Sheet. Houze Convex Glass Company. 225,181; renewed Mar. 15, 1947. O. G. May 13.

CLASS 34

Grill and broiler. Charcoal heated barbecue. A. B. Davis. 429,675; May 13; Serial No. 497,655; published Feb. 25, 1947.

Stoves, and combination gas and coal stoves, Gas. Affiliated Retailers, Inc. 429,720; May 13.

CLASS 35

Hose and rubber washers, Lawn. Plymouth Wholesale Dry Goods Corporation. 429,694; May 13; Serial No. 504,696; published Feb. 4, 1947.

Packings, Mechanical. A. W. Chesterton Company. 429,721; May 13.

Piston rings. Pressure Proof Piston Ring Company. 223,418; renewed Feb. 1, 1947. O. G. May 13.

Tires and tubes, Rubber. Miller Rubber Company. 218,928; renewed Oct. 5, 1946. O. G. May 13.

Tires, Pneumatic. Armstrong Rubber Company. 429,708; May 13; Serial No. 509,320; published Feb. 18, 1947.

Tires, Pneumatic. Laher Spring and Tire Corporation. 429,749; May 13.

Valve stem packing, Braided asbestos lubricated yarn. Stewart R. Browne Mfg. Co., Inc. 429,674; May 13; Serial No. 497,011; published Feb. 11, 1947.

CLASS 37

Files for correspondence and papers. Cooke & Cobb Company. 224,596; renewed Mar. 1, 1947. O. G. May 13.

Folders, alphabetical-index inserts, and hand-operated perforators, Vertical-cabinet. Cooke & Cobb Company. 224,456; renewed Mar. 1, 1947. O. G. May 13.

CLASS 38

Journal, Monthly medical. W. F. Prior Company, Inc. 225,126; renewed Mar. 15, 1947. O. G. May 13.

Magazine. General Baking Company. 222,007; renewed Dec. 21, 1946. O. G. May 13.

Magazine. M. Palmer. 429,729; May 13.

Magazine. M. Palmer. 429,733; May 13.

Newspaper, Daily. Northeastern Publishing Company. 218,916; renewed Oct. 5, 1946. O. G. May 13.

CLASS 39

Apparel, Washable service. Best Coat & Apron Mfg. Co., Inc. 429,703; May 13; Serial No. 506,087; published Feb. 25, 1947.

Apparel, Women's. Seamprufe Incorporated. 429,676; May 13; Serial No. 500,188; published Feb. 25, 1947.

Aprons. T. Buettner & Co., Inc. 220,455; renewed Nov. 9, 1946. O. G. May 13.

Blouses and dresses, Misses' and junior misses'. M. Minchenberg. 429,740; May 13.

Blouses, negligees, and vestees. D. Liebert. 429,743; May 13.

Boots, shoes, sandals, and slippers, Men's and women's. Marber Shoe Company Inc. 429,689; May 13; Serial No. 504,372; published Feb. 25, 1947.

Coats and overcoats, Top. J. Reiter. 429,735; May 13.

Coats, Ladies' and misses' fur. Vigder Bros., Incorporated. 429,719; May 13.

Collars, Men's and women's. Stein Uniform Company. 429,682; May 13; Serial No. 501,096; published Feb. 25, 1947.

Corsets, underwear, negligees, etc., Women's. Hochschild, Kohn & Co., Inc. 224,485; renewed Mar. 1, 1947. O. G. May 13.

Dresses, coats, and suits, Ladies' and misses'. Samuel Chapman Inc. 429,748; May 13.

Dresses, Ladies', misses', and junior misses'. Revel Dresses, Inc. 429,739; May 13.

Girdles, combinettes, bandeaux, etc. American Lady Corset Co. 216,943; renewed Aug. 24, 1946. O. G. May 13.

Gloves. C. F. Berg. 224,968; renewed Mar. 8, 1947. O. G. May 13.

Gloves, Seamless rubber. Miller Rubber Manufacturing Co. 56,773; re-renewed Oct. 16, 1946. O. G. May 13.

Inner soles, Foot cushioning. I. K. Rolling. 429,746; May 13.

Jackets, coats, blouses, etc., Girls' and women's. Koret of California, Inc. 429,688; May 13; Serial No. 503,455; published Feb. 11, 1947.

Neckties and scarfs, dress shirts, sports shirts, etc. Phillips-Jones Corporation. 429,702; May 13; Serial No. 505,856; published Feb. 25, 1947.

Neckwear. Manhattan Shirt Company. 429,687; May 13; Serial No. 503,301; published Feb. 11, 1947.

Pajamas and nightshirts, Men's and boys'. Universal Mfg. Co. Inc. 429,699; May 13; Serial No. 505,462; published Feb. 18, 1947.

Raincoats, and raincoat and hood ensembles, Ladies', misses', and girls'. Lecap Rainwear Co. 429,664; May 13; Serial No. 490,836; published May 14, 1946.

Shoes. Cannon Shoe Company. 429,690; May 13; Serial No. 504,604; published Feb. 25, 1947.

Shoes and sandals, Men's. Adler Sons Shoe Corp. 429,666; May 13; Serial No. 491,604; published Feb. 25, 1947.

Slippers, Women's. Palm Beach Casual Corp. 429,698; May 13; Serial No. 505,313; published Feb. 25, 1947.

Ties and cravats, Men's and Boys'. Charles H. Levy Company. 429,693; May 13; Serial No. 504,678; published Feb. 18, 1947.

Underwear, Men's. Piedmont Shirt Company. 429,691; May 13; Serial No. 504,632; published Feb. 18, 1947.

CLASS 40

Cords, blades, tapes, and fabrics, Stiffening. Warren Featherbone Co. 60,338; re-renewed Feb. 5, 1947. O. G. May 13.

Curlers, Cold wave hair. Samuel Bonat & Bro. 429,673; May 13; Serial No. 496,946; published Feb. 25, 1947.

Hooks, money clips, shoe horns, etc., Button. Illinois Watch Case Co. 429,656; May 13; Serial No. 481,847; published Feb. 25, 1947.

Needles, Hand sewing. Thomas Harper & Sons Limited. 224,210; renewed Feb. 22, 1947. O. G. May 13.

Pad for baby bottles, Holding. J. Corrao. 429,752; May 13.

Pads, Bust. Warner Brothers Company. 429,681; May 13; Serial No. 500,918; published Feb. 25, 1947.

Pins, Bobby. E. H. Quinn. 429,684; May 13; Serial No. 501,595; published Feb. 25, 1947.

Screws of all descriptions, nails, rivets, nuts, etc. Guest, Keen & Nettlefolds, Limited. 60,716; re-renewed Feb. 19, 1947. O. G. May 13.

Sewing-needles, crochet hooks, hand knitting pins, etc., Hand. John James & Sons, Limited. 57,412; re-renewed Nov. 13, 1946. O. G. May 13.

CLASS 42

Fabrics in the piece, Woven, knitted, netted, etc. Cheney Brothers. 224,987; renewed Mar. 8, 1947. O. G. May 13.

Fabrics in the piece, Woven, knitted, netted, etc. Cheney Brothers. 225,248–9; renewed Mar. 15, 1947. O. G. May 13.

Fabrics, Knitted and woven. Goldman-Rossman Corporation. 429,725; May 13.

Lace dinner cloths. Scranton Lace Company. 429,659; May 13; Serial No. 487,528; published Feb. 25, 1947.

Piece goods made from yarns composed of rayon, All. Edwin E. Berliner & Co. 429,662; May 13; Serial No. 489,640; published Feb. 18, 1947.

Pillow protectors. Colobrite Textiles, Inc. 429,680; May 13; Serial No. 500,741; published Feb. 25, 1947.

Polyvinyl resin, Thin transparent or translucent sheets or films of. R. S. Harte. 429,717; May 13.

Ribbons. General Ribbon Mills, Inc. 429,663; May 13; Serial No. 489,954; published Feb. 25, 1947.

Sheetings, sheets and pillow cases. Hesslein & Co., Inc. 429,686; May 13; Serial No. 503,093; published Feb. 25, 1947.

Tablecloths, napkins, bed sheets, etc. E. Braun & Co., Inc. 429,723; May 13.

Textile cloth in the piece. Jacobson Textile Corp. 429,661; May 13; Serial No. 489,584; published Feb. 25, 1947.

Textile fabrics. Alfred Vamos Inc. 429,665; May 13; Serial No. 491,438; published Feb. 18, 1947.

Textile rugs and carpets. Hugh Nelson-Columbia Carpet Mills, Inc. 429,685; May 13; Serial No. 501,759; published Feb. 25, 1947.

Towels, bureau scarves, dresser scarves, etc. Artmart Linen Co., Inc. 429,731; May 13.

Woolen and worsted piece goods. Dunn Worsted Mills. 224,449; renewed Mar. 1, 1947. O. G. May 13.

CLASS 43

Sewing cotton and cotton thread. Clark Thread Company. 223,684; renewed Feb. 8, 1947. O. G. May 13.

Sewing cotton, crochet, embroidery, and knitting cotton. Clark & Co., Ltd. 59,158; re-renewed Jan. 1, 1947. O. G. May 13.

Sewing-cotton on spools or reels. J. & P. Coats, Limited. 60,307–8; re-renewed Feb. 5, 1947. O. G. May 13.

Thread, Cotton. Jonas Brook & Bros., Limited. 223,614; renewed Feb. 8, 1947. O. G. May 13.

Yarns. E. L. Cecco. 429,736; May 13.

CLASS 44

Fork, Tuning. A. Roth. 429,716; May 13.

Gloves, Seamless rubber. Miller Rubber Manufacturing Co. 56,773; re-renewed Oct. 16, 1946. O. G. May 13.

CLASS 45

Beverages, Non-alcoholic, noncereal, maltless. Rotella Beverages, Inc. 429,727; May 13.

Grape juice. Church Grape Juice Co. 429,734; May 13.

Juices, Canned citrus. Desert Grapefruit Industry Committee, Inc. 429,712; May 13.

CLASS 46

Baking-powder. S. S. Pierce Co. 58,713; re-renewed Dec. 25, 1946. O. G. May 13.

Canned and preserved fruits, canned vegetables, canned fish, etc. S. S. Pierce Co. 223,788; renewed Feb. 8, 1947. O. G. May 13.

Canned citrus juices. St. Clair Foods Co., Ltd. 429,732; May 13.

Canned vegetables. Lakeside Packing Company. 221,057; renewed Nov. 23, 1946. O. G. May 13.

Canned vegetables. Lakeside Packing Company. 222,025; renewed Dec. 21, 1946. O. G. May 13.

Canned vegetables and pickles. Lakeside Packing Company. 225,010; renewed Mar. 8, 1947. O. G. May 13.

Canned vegetables and relishes. Lakeside Packing Company. 224,342; renewed Feb. 22, 1947. O. G. May 13.

Canned vegetables, pork and beans and relishes. Lakeside Packing Company. 221,058; renewed Nov. 23, 1946. O. G. May 13.

Coffee. Ouerbacker Coffee Co., Inc. 216,733; renewed Aug. 17, 1946. O. G. May 13.

Coffee with other ingredients, Blend of. S. S. Pierce Co. 58,135; re-renewed Dec. 4, 1946. O. G. May 13.

Flour, Wheat. Red Star Milling Company. 218,934; renewed Oct. 5, 1946. O. G. May 13.

Flour, Wheat. J. Allen Smith & Company. 224,910; renewed Mar. 8, 1947. O. G. May 13.

Oats, Rolled. Purity Oats Company. 221,074; renewed Nov. 23, 1946. O. G. May 13.

Olive oil. Pallares Hermanos. 221,639; renewed Dec. 7, 1946. O. G. May 13.

Peanuts, Roasted and salted. Peanut Specialty Co. 225,670; renewed Mar. 22, 1947. O. G. May 13.

Potato chips. E. W. Drondoski. 221,869; renewed Dec. 14, 1946. O. G. May 13.

Preparation of cereals, preserves, and jellies. Towle Syrup Co. 29,409; re-renewed Jan. 5, 1947. O. G. May 13.

Salt. Western Salt Co. 225,123; renewed Mar. 15, 1947. O. G. May 13.

Sugar. Hershey Chocolate Company. 222,759; renewed Jan. 11, 1947. O. G. May 13.

Sugar. Postum Cereal Co., Ltd. 59,204; re-renewed Jan. 1, 1947. O. G. May 13.

Tomato, tomato sauce, peeled tomatoes, etc., Concentrated. Società Anonima Bonifiche Pontine. 218,512; renewed Sept. 28, 1946. O. G. May 13.

Wheat breakfast food. Cream of Wheat Company. 226,621; renewed Apr. 12, 1947. O. G. May 13.

CLASS 47

Wines. Beverly Hills Wine Company. 429,726; May 13.

Wines. California Growers Wineries. 429,744; May 13.

Wines. H. Stone & Co., Ltd. 429,724; May 13.

CLASS 48

Beverage, Non-alcoholic malt. Theo. Hamm Brewing Company. 225,364; renewed Mar. 15, 1947. O. G. May 13.

CLASS 49

Beverages, particularly whiskey, potable, distilled spirituous. W. A. Haller Company, Inc. 429,672; May 13; Serial No. 496,309; published Jan. 7, 1947.

Beverages, Potable, distilled spirituous. Elverson Distilling Company, Inc. 429,683; May 13; Serial No. 501,315; published Dec. 31, 1946.

Gin, kummel, sloe gin, etc., Flavored. Jones & Randolph, Ltd. 429,722; May 13.

Rum. R. del Collado. 429,711; May 13.

Rum. Salvador Sicars Salbado. 429,655; May 13; Serial No. 464,765; published Jan. 7, 1947.

Whiskey. A. Alexander & Company, Limited. 429,677; May 13; Serial No. 500,454; published Feb. 18, 1947.

Whiskey. Berke Brothers Distilleries Inc. 429,660; May 13; Serial No. 488,636; published Feb. 18, 1947.

CLASS 50

Scaffolds, trestles, and brackets, Carpenters', plasterers', structural-metalworkers', and other artisans' metal. Steel Scaffolding Co. 218,837; renewed Oct. 5, 1946; O. G. May 13.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

De Weese, Joseph C.: *See*—
  Gray, Reid B., and De Weese.

Goodall-Sanford, Inc., assignee: *See*—
  Nutter, William S.

Gray, Reid B., Dundalk, and J. C. De Weese, Essex, assignors to The Glenn L. Martin Company, Middle River, Md. Utilization of cargo space in ships and the like. Re. 22,876; May 13.

Harper, Philip S., and G. F. Turner, assignors to Harper-Wyman Company, Chicago, Ill. Gas burner. Re. 22,877; May 13.

Harper-Wyman Company, assignee: *See*—
  Harper, Philip S., and Turner.

Martin, Glenn L., Company, The, assignee: *See*—
  Gray, Reid B., and De Weese.

Nutter, William S., assignor to Goodall-Sanford, Inc., Sanford, Maine. Wool type fabric. Re. 22,878; May 13.

Peters, Herbert W., and A. A. Peters, deceased, Milwaukee, Wis., by Herbert W. Peters, assignee. Beverage production. Re. 22,879; May 13.

Turner, George F.: *See*—
  Harper, Philip S., and Turner.

LIST OF PLANT PATENTEES

Jackson & Perkins Company, assignee: *See*—
  Naungayan, Antonio.

Naungayan, Antonio, Pleasanton, Calif., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 736; May 13.

LIST OF DESIGN PATENTEES

Anderson, Olof V., Cowesett, R. I. Tie holder. 146,758; May 13.

Brown, Albert D., Atlanta, Ga. Disposable razor. 146,759; May 13.

Carpenter, John R., assignor to Price Industries Corporation, New York, N. Y. Portable developing tank. 146,760; May 13.

Chernow, Michael, New York, N. Y. Bracelet or the like. 146,761; May 13.

Chernow, Michael, New York, N. Y. Earring or the like. 146,762; May 13.

Coro, Inc., assignee: *See*—
  Katz, Adolph.
  Verrecchio, Gene.

Dixon-Bartlett Company, assignee: *See*—
  Henkel, John.

Earl, Paul D., Malone, N. Y. Boot or similar article. 146,763; May 13.

Finkelstein, Solomon, New York, N. Y. Clip or similar article. 146,764; May 13.

Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Mirror frame or the like. 146,765; May 13.

Frascino, Mario, New York, N. Y. Suit. 146,766; May 13.

Freedman, Jules, New York, N. Y. Suit. 146,767; May 13.

Henkel, John, Baltimore, Md., assignor to Dixon-Bartlett Company. Shoe. 146,768; May 13.

Imperial Pearl Co., Inc., assignee: *See*—
  Pearsall, Frederick J.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,769; May 13.

Lower, Frederick A., Wichita Falls, Tex. Combination ash tray and cigarette holder. 146,770; May 13.

Newman, Hilda, assignor to The Winston Sportswear Corporation, New York, N. Y. Blouse. 146,771; May 13.

Newman, Hilda, assignor to The Winston Sportswear Corporation, New York, N. Y. Blouse. 146,772; May 13.

Newman, Hilda, assignor to The Winston Sportswear Corporation, New York, N. Y. Blouse. 146,773; May 13.

Parker, Ralph A., Melrose, Mass. Man's sport shoe or similar article. 146,774; May 13.

Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 146,775; May 13.

Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel Pin. 146,776; May 13.

Phillips, Grayden W., San Jose, Calif. Figurine or the like. 146,777; May 13.

Price Industries Corporation, assignee: *See*—
  Carpenter, John R.

Schraysshuen, Carl, Providence, R. I. Jewelry finding. 146,778; May 13.

Slater, Murray, Brooklyn, N. Y. Bracelet or similar article. 146,779; May 13.

Syracuse Ornamental Co. Inc., assignee: *See*—
  Fisher, Frederic H.

Trautner, Wagn, Syracuse, N. Y. Ash-tray. 146,780; May 13.

Verrecchio, Gene, assignor to Coro, Inc., New York, N. Y. Earring. 146,781; May 13.

Winston Sportswear Corporation, The, assignee: *See*—
  Newman, Hilda.

Zimmerman, Herman W., North Newington, Conn. Drink mixer. 146,782; May 13.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adler, Orville E., Niles, Mich., assignor to National-Standard Company. Electrodepositing copper upon steel wire. 2,420,291; May 13.
Agins, George: *See*—
  Davis, Arthur P., and Agins.
Air Reduction Company, Incorporated, assignee: *See*—
  Anderson, James L.
  Deming, George M.
  Hamilton, James K.
  Heidbrink, Jay A.
Albertoli, John, San Francisco, Calif. Can unloading apparatus. 2,420,343; May 13.
Alexander, Verna C., Spartanburg, S. C. Beach towel and garment. 2,420,344; May 13.
Allied Chemical & Dye Corporation, assignee: *See*—
  Engel, Karl H.
Allis-Chalmers Manufacturing Company, assignee: *See*—
  Paterson, Ira W.
Alma, Gerrit H. P., and B. G. Dammers, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electron discharge device. 2,420,345; May 13.
Alves, Alexander L., assignor to The Watertown Manufacturing Company, Watertown, Conn. Transfer molding press. 2,420,405; May 13.
American Bosch Corporation, assignee: *See*—
  Bachman, Oscar L.
American Cyanamid Company, assignee: *See*—
  Dudley, James R.
American-Marsh Pumps, Inc., assignee: *See*—
  Barton, Benjamin D.
American MonoRail Company, The, assignee: *See*—
  Harris, Frank C.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated. Remote speed control of electric motors. 2,420,346; May 13.
Andrews, Daly P., B. D. Heeger, and A. P. Smith; said Smith assignor to W. M. Sanders, Mountain Grove, Mo. Pulsator-type fluid motor for power-driven saws. 2,420,406; May 13.
Antes, Leland L., Houston, Tex., assignor to Standard Oil Development Company. Magnetometer. 2,420,580; May 13.
Arma Corporation, assignee: *See*—
  Davis, Arthur P., and Agins.
Arnold, Ralph J., Western Springs, assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, Chicago, Ill., and R. D. Collins, Beverly Hills, Calif. Supporting device. 2,420,391; May 13.
Arrowood, Charles W., Charlotte, N. C. Stop motion mechanism. 2,420,513; May 13.
Atlas Powder Company, assignee: *See*—
  Brandner, John D., and Goepp.
  Brown, Kenneth R.
Attorney General of the United States: *See*—
  Beck, Adolf, Siebel, and Vosskühler.
  De France, Henri.
Auto City Plating Co., assignee: *See*—
  Cassin, Anthony F.
Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron lens structure. 2,420,514; May 13.
Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron microscope structure. 2,420,561; May 13.
Bachman, Oscar L., assignor to American Bosch Corporation, Springfield, Mass. High tension magneto. 2,420,407; May 13.
Bacon, Laurence Guy, Torquay, England. Transmission for steam or internal combustion engines. 2,420,581; May 13.
Bacon, Osborne C.: *See*—
  Shipp, Joseph H., Bacon, and Pedersen.
Baer, John M., and A. H. Heineman, assignors to The Guardite Corporation, Chicago, Ill. Airplane body. 2,420,292; May 13.
Bailey Meter Company, assignee: *See*—
  Hornfeck, Anthony J.
  Johnson, Clarence.
Baldwin, Joseph W., Worcester, assignor to Harrington & Richardson Arms Company. Line throwing gun kit. 2,420,347; May 13.
Barker, Clifford H., Boston, Mass. Spanner wrench. 2,420,458; May 13.
Barr & Stroud, Limited, assignee: *See*—
  Strang, John M.
Barton, Benjamin D., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich. Pressure governor control mechanism. 2,420,515; May 13.
Beck, Adolf, G. Siebel, and H. Vosskühler, Bitterfeld, Germany; vested in the Attorney General of the United States. Magnesium base alloys. 2,420,293; May 13.
Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Drive gear mechanism. 2,420,294; May 13.
Beemer, Paul K.: *See*—
  Bivans, Elbert L., Beemer, and Montgomery.
Behn, Eric R., Arlington County, Va. Nonoptical radioscope rangefinder. 2,420,408; May 13.
Bell & Howell Company, The, assignee: *See*—
  Stechbart, Bruno.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
  Darlington, Sidney.
  Goodall, William M.
  Samuel, Arthur L.
Bendix Aviation Corporation, assignee: *See*—
  Dasher, Don E.
  Jandasek, Joseph.
  McConnel, William G.
Bentley Engineering Company Limited, The, assignee: *See*—
  Deans, Frederick E.
Bicknell, Frank A.: *See*—
  Bishop, Benjamin S. T., and Bicknell.
Biehn, Gordon E., Hockessin, and J. E. Kirby, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. 4,4′-dichlorodiphenyl 1,1,1-trichloroethane dispersed in polyvinyl acetate. 2,420,295; May 13.
Bischoff, Alfred F., Milford, Conn., assignor to General Electric Company. Pulse producing system. 2,420,516; May 13.
Bishop, Benjamin S. T., Shrewsbury, and F. A. Bicknell, assignors to Leland-Gifford Company, Worcester, Mass. Work control mechanism for machine tools. 2,420,296; May 13.
Bishop, Lyle, Los Angeles, Calif. Ventilated closure. 2,420,297; May 13.
Bivans, Elbert L., Los Angeles, P. K. Beemer, Inglewood, and P. H. Montgomery, Los Angeles, Calif., assignors to Preco, Incorporated. Multiple pressure pump. 2,420,409; May 13.
Blanchard, Joseph H., Chicago, Ill. Home-style cigarette making device. 2,420,459; May 13.
Blankner, William, Lakewood, Ohio. Pavement repairing and the like. 2,420,410; May 13.
Blaw-Knox Company, assignee: *See*—
  Thomas, William A.
Blount, Eugene A., Sr., Athens, Ga. Retort, tank, or like container. 2,420,411; May 13.
Boon, Joseph L.: *See*—
  Wittel, Otto, Koch, and Boon.
Borg-Warner Corporation, assignee: *See*—
  Holt, Ray G., and Martin.
  Roth, Jay M., and Lauck.
Boriff, Jewell L., New Braunfels, Tex. Navigation instrument. 2,420,348; May 13.
Boudreau, Alban M., assignor to Hedstrom-Union Company, Gardner, Mass. Brake for baby carriages, strollers and the like. 2,420,412; May 13.
Bouwers, Albert, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Schmidt's optical systems comprising a correction element. 2,420,348; May 13.
Bowdoin, Fairbanks C., and H. L. Medlock, Phoenix, Ariz. Carton divider. 2,420,460; May 13.
Bowman, Charles C., Helena, and H. F. Bowman, Augusta, Mont. Dehorning paste applier having a serrated edge. 2,420,582; May 13.
Bowman, Howard F.: *See*—
  Bowman, Charles C. and H. F.
Bradbury, Donald: *See*—
  Meyer, Charles A., and Bradbury.
Brandner, John D., Wilmington, and R. M. Goepp, Jr., New Castle, assignors to Atlas Powder Company, Wilmington, Del. Dehydration of foods by means of hydrophilic liquids. 2,420,517; May 13.
Branson, James E., assignor to J. D. Shanman, Cincinnati, Ohio. Baling press. 2,420,413; May 13.
Breakefield, Durward E., Watertown Arsenal, and J. L. Martin, Newton, Mass. Centrifugal casting. 2,420,298; May 13.
Bremner, John G. M.: *See*—
  Reynolds, Peter W., Taylor, and Bremner.
Breslow, Nathan, J. Stein, and H. Kneitel, Brooklyn, N. Y. Shoulder pad. 2,420,583; May 13.
Briggs, Southwick W.: *See*—
  Greger, Herbert H., and Briggs.

Briggs, Southwick W., Washington, D. C. Filter construction. 2,420,414; May 13.
Brimer, Marshall R., J. E. Magoffin, and H. Von Bramer, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing n-butyraldimine. 2,420,584; May 13.
Bristol Company, The, assignee: *See*—
  Dyson, Ernest F.
Bristol, Edward S., assignor to Leeds and Northrup Company, Philadelphia, Pa. Control system. 2,420,415; May 13.
Britt, Herbert E., Los Angeles, Calif. Producing smoke. 2,420,416; May 13.
Brown, George M., Scotia, N. Y., assignor to General Electric Company. Power reduction circuit for radio receivers. 2,420,518; May 13.
Brown Instrument Company, The, assignee: *See*—
  Tegge, Carlton S.
Brown, Kenneth R., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Etherified anhydro hexitols. 2,420,519; May 13.
Brown, Lloyd P., Los Angeles, Calif. Center finder and punch. 2,420,350; May 13.
Brown, Norman L., Velasco, Tex. Vehicle deceleration signal. 2,420,351; May 13.
Buckeye Steel Castings Company, The, assignee: *See*—
  Orr, Claude L., and Stertzbach.
Budd Company, The, assignee: *See*—
  Hill, Carl H., and Schneider.
  Somes, Howard E.
Burling, Herbert S., South Orange, N. J. Temperature controlling device. 2,420,352; May 13.
Burrows, Allen, Providence, R. I. Inspection hole cover for motor vehicle brake casings. 2,420,353; May 13.
Caimi, Agostino, assignee, et al.: *See*—
  Engel, David.
Caimi, Domenico, assignee, et al.: *See*—
  Engel, David.
Campbell, Alvin A., Hackettstown, N. J. Transfer mechanism. 2,420,299; May 13.
Campbell, Donald L.: *See*—
  Gohr, Edwin J., Campbell, Graham, and Thompson.
Campbell-Taggart Research Corporation, assignee: *See*—
  Selman, Roland W., Jr., and Myers.
Cannon, Charles H., Jr.: *See*—
  Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.
Capp, Charles H., Philadelphia, Pa. Loud-speaker announcing system. 2,420,461; May 13.
Carbide and Carbon Chemicals Corporation, assignee: *See*—
  Rugeley, Edward W., Field, and Petrokubi.
  Shriver, Leland C., and Fremon.
Carnegie-Illinois Steel Corporation, assignee: *See*—
  Stewart, Robert G., Sr.
Carr, James J., Raleigh, N. C. Knee action rear wheel suspension. 2,420,462; May 13.
Carsey, Eugene A., Cincinnati, Ohio, and W. G. Stalker, Pittsburgh, Pa., assignors to The Kirk & Blum Manufacturing Company, Cincinnati, Ohio. Automatic shake-out hood. 2,420,520; May 13.
Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Coupling circuit. 2,420,354; May 13.
Cassin, Anthony F., assignor to Auto City Plating Co., Detroit, Mich. Apparatus for washing cylinders. 2,420,463; May 13.
Cataldo, John B., Summit, N. J., and W. E. Stilwell, Jr., Cincinnati, Ohio, assignors to John B. Pierce Foundation, New York, N. Y. Electric overload protective device. 2,420,300; May 13.
Celanese Corporation of America, assignee: *See*—
  Geer, Norma B., and Schatz.
Champion Paper and Fibre Company, The, assignee: *See*—
  Stoddard, William B., Jr.
Chemical Laboratories, Inc., assignee: *See*—
  Whitner, Thomas C.
Christensen, Alfred C., and J. J. Dvorak, Chicago, assignors to H. S. Simpson, Evanston, Ill. Foundry sand reclaiming system and method. 2,420,392; May 13.
Chromium Mining & Smelting Corporation, assignee: *See*—
  Fraser, Alan R.
Cocozella, Anthony, Lynn, Mass. Shoemaking. 2,420,464; May 13.
Cocozella, Anthony, Lynn, Mass. Shoemaking. 2,420,465; May 13.
Cole, Allen T.: *See*—
  Greene, Ernest W., Sherertz, and Cole.
Coleman, William, assignor to Johnson City Mills, Johnson City, Tenn. Moistening apparatus for knitting yarns. 2,420,355; May 13.
Colgate-Palmolive-Peet Company, assignee: *See*—
  Compa, Russell E.
  Ross, John.
Collins, Ralph D., assignee, et al.: *See*—
  Arnold, Ralph J.
Compa, Russell E., Bogota, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Degasification. 2,420,356; May 13.
Cook Electric Company, assignee: *See*—
  Hasselhorn, Walter C., and Schultz.
Corbin, Fred A., Gary, and H. F. Netzhammer, Hobart, Ind. Apparatus for heating ingots. 2,420,357; May 13.
Cordeau, Joseph A., Portland, Maine. Welted moccasin and making it. 2,420,466; May 13.
Cread Engineering and Research Company, assignee: *See*—
  Gilman, Wilbert M.
Crimmins, William C., assignor to Delta Electric Company, Marion, Ind. Flashlight. 2,420,585; May 13.
Culligan, Emmett J., San Bernardino, Calif., and G. H. Klumb, assignors to Culligan Zeolite Company, Northbrook, Ill. Hair drying means provided with silica gel. 2,420,358; May 13.
Culligan Zeolite Company, assignee: *See*—
  Culligan, Emmett J., and Klumb.
Cupler, John A., Cumberland, Md., and C. W. Truxell, Jr., Detroit, Mich. Drill press. 2,420,521; May 13.
Curtiss-Wright Corporation, assignee: *See*—
  Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.
Cusumano, Rudolph, Los Angeles, Calif. Venetian blind. 2,420,301; May 13.
Cutler, Jacob, Matapan, Mass., assignor to Maryland Baking Company, Inc., Baltimore, Md. Cone jacket forming machine. 2,420,417; May 13.
Daly, Le Grand, Birmingham, Mich. Making articles from plastic treated materials. 2,420,522; May 13.
Dammers, Bernhardus G.: *See*—
  Alma, Gerrit H. P., and Dammers.
Darlington, Sidney, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse generator. 2,420,302; May 13.
Dasher, Don E., assignor to Bendix Aviation Corporation, Detroit, Mich. Making dies. 2,420,359; May 13.
Davis, Arthur P., Stamford, Conn., and G. Agins, assignors to Arma Corporation, Brooklyn, N. Y. Self-synchronously controlled induction motor follow-up apparatus. 2,420,467; May 13.
Davis, Arthur P., New York, and G. Agins, Brooklyn, N. Y., assignors to Arma Corporation. Damping device for remote control apparatus. 2,420,523; May 13.
Deans, Frederick E., assignor to The Bentley Engineering Company Limited, Leicester, England. Clutch mechanism of knitting machines. 2,420,524; May 13.
De France, Henri, Lyon, Rhone, France; vested in the Attorney General of the United States. Stable frequency conversion system. 2,420,303; May 13.
De La Vergne, William H.: *See*—
  Donahew, Arthur L., and De La Vergne.
De Lorenzo, Sylvio A.: *See*—
  Poitras, Herman A., Snow, and De Lorenzo.
Deloye, James J., Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Interfolding machine. 2,420,525; May 13.
Delta Electric Company, assignee: *See*—
  Crimmins, William C.
Deming Company, The, assignee: *See*—
  Mueller, Alexander V.
Deming, George M., Orange, N. J., assignor to Air Reduction Company, Incorporated. Motor governor. 2,420,360; May. 13.
Dennison, Ernest A., Goodworth, Clatford, Andover, assignor to Kennedy and Kempe Limited, Longparish, Andover, England. Nonskid device. 2,420,361; May 13.
De Vry Corporation, assignee: *See*—
  Ress, Thomas I.
De Walt, Stuard, Leavenworth, Kans. Saw-tooth gage and jointer. 2,420,468; May 13.
De Welles, Roy W., Kansas City, Mo. Colon therapy apparatus. 2,420,586; May 13.
Diem, Donald T., Saginaw, Mich. Spent bullet trap. 2,420,304; May 13.
Dietrich, Michael, assignor to Eastman Kodak Company, Rochester, N. Y. Self-threading device for projectors. 2,420,587; May 13.
Dixon, Frank T., assignor to Dixon Truck Parts Company, Altoona, Pa. Drive shaft brake. 2,420,526; May 13.
Dixon Truck Parts Company, assignee: *See*—
  Dixon, Frank T.
Donahew, Arthur L., U. S. Army, and W. H. De La Vergne, Washington, D. C. Hydraulic transmission and clutch. 2,420,305; May 13.
Doniger, Sundel, New York, N. Y. Knife gauge. 2,420,469; May 13.
Dons, Eddie M., and O. G. Mauro, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Apparatus for dewaxing oils. 2,420,418; May 13.
Dorschner, Irvin E., Spirit Lake, Iowa. Corn harvester. 2,420,470; May 13.
Dorsey, John J., Bay City, Grays Harbor, Wash. Handling of fish meal and the like. 2,420,393; May 13.
Dudley, James R., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Purification of fluids with cation active resins. 2,420,419; May 13.
Dunnihoo, John R., Corry, assignor, by mesne assignments, to Rohlm Manufacturing Company, Incorporated, Erie, Pa. Plural way valve. 2,420,588; May 13.
Dunnihoo, John R., assignor to Rohlm Manufacturing Company, Inc., Erie, Pa. Valve. 2,420,589; May 13.

- Du Pont, E. I., de Nemours & Company, assignee: *See—*
  - Biehn, Gordon E., and Kirby.
  - Filbert, William F.
  - Guenther, Arthur E., and Molyneux.
  - Kingerley, Richard W., Jr.
  - Robertson, James A.
  - Salzenberg, Walter H., and Sveda.
  - Shipp, Joseph H., Bacon, and Pedersen.
  - Shipp, Joseph H., and Pedersen.
  - Stainaker, Frederick M., and Shaver.
  - Watkins, William W.
- Durdin, Augustus C., Jr., Lincolnwood, Ill.; The Northern Trust Company, executor of said Augustus C. Durdin, Jr., deceased. Self-priming centrifugal pump. 2,420,420; May 13.
- Dvorak, James J.: *See—*
  - Christensen, Alfred C., and Dvorak.
- Dykoski, Walter J., Minneapolis, Minn., assignor to General Mills, Inc. Glass surface plate. 2,420,637; May 13.
- Dyson, Ernest F., Wolcott, assignor to The Bristol Company, New Haven, Conn. Resilient zero stop. 2,420,527; May 13.
- Dziedzic, Nicholas J.: *See—*
  - McKee, Harry H., Dziedzic, and Straeten.
- Eason, Sidney L., Charleston, S. C. Roofing or surfacing material. 2,420,421; May 13.
- Eastman Kodak Company, assignee: *See—*
  - Brimer, Marshall R., Magoffin, and Von Bramer.
  - Dietrich, Michael.
  - Hutchison, Miller, Jr., and Wehr.
  - McLeod, John H., and Turner.
  - Stolber, Joseph.
  - Taylor, George J.
  - Wittel, Otto, Koch, and Boon.
  - Yule, John A. C.
- Eastman Oil Well Survey Company, assignee: *See—*
  - Schadel, Charles H.
- Eaton, Bruce G., Jr., Bexley, and W. O. Meyer, and C. H. Cannon, Jr., Columbus, Ohio, and L. G. Raiche, Williamsville, N. Y., assignors to Curtiss-Wright Corporation. Rudder pedal assembly. 2,420,528; May 13.
- Ekleberry, James F., assignor of one-half to C. R. Miller, Miami, Fla. Diver's light. 2,420,362; May 13.
- Electric Household Utilities Corporation, assignee: *See—*
  - Gerhardt, Andrew H.
- Electric Storage Battery Company, The, assignee: *See—*
  - White, Curtice C.
- Emery Industries, Inc., assignee: *See—*
  - Myers, Latimer D.
- Engel, David, Bloomfield, N. J., assignor of one-fourth to D. Caimi and one-fourth to A. Caimi, Philadelphia, Pa. Swivel harp for lamp shades. 2,420,471; May 13.
- Engel, Karl H., West Englewood, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Resolution of heterocyclic nitrogen base mixtures. 2,420,529; May 13.
- Espenas, Arthur K., Denton, Tex. Keyed turnbuckle device. 2,420,363; May 13.
- Espenas, Arthur K., Denton, Tex. Telescoping turnbuckle. 2,420,364; May 13.
- Evans, Arthur G., Canton, Ill., assignor to International Harvester Company. Combined implement stabilizing and lifting structure. 2,420,530; May 13.
- Everel Propeller Corporation, assignee: *See—*
  - Hackethal, Paul F.
- Everhart, James G., Zanesville, Ohio, assignor to Line Material Company, Milwaukee, Wis. Counting device. 2,420,590; May 13.
- Ex-Cell-O Corporation, assignee: *See—*
  - Stewart, Gilbert.
- Feild, Theophilus A.: *See—*
  - Rygeley, Edward W., Feild, and Petrokubi.
- Filbert, William F., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting cap primer composition. 2,420,306; May 13.
- Fink, Rudolph: *See—*
  - Samiran, David, and Fink.
- Fischer, Theodore, Midvale, N. J. Combination center punch. 2,420,365; May 13.
- Ford Motor Company, assignee: *See—*
  - Wharam, John J., and Jovanovich.
- Frame, Newton B., and J. W. Keim, Buckhannon, W. Va. Snow plow. 2,420,591; May 13.
- Francis, Alfred, Providence, R. I. Ear wire for earrings. 2,420,531; May 13.
- Fraser, Alan R., assignor to Chromium Mining & Smelting Corporation Limited, Sault Ste. Marie, Ontario, Canada. Production of chromium compounds. 2,420,532; May 13.
- Free Sewing Machine Co., assignee: *See—*
  - Ivandick, Matthew G.
- Freedman, Ruth, New York, N. Y. Brassière. 2,420,472; May 13.
- Fremon, George H.: *See—*
  - Shriver, Leland C., and Fremon.
- Fristoe, Frank H., U. S. Army. Portable lamp. 2,420,307; May 13.
- Galvin Manufacturing Corporation, assignee: *See—*
  - Mitchell, Donald H.
- Gates, John I., Pasadena, assignor to Kelco Company, San Diego, Calif. Gel-forming algin composition and method. 2,420,308; May 13.
- Geddings, Saint J., West Columbia, S. C. Feeler controlled filling replenishing mechanism. 2,420,473; May 13.
- Geen, Henry C., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Adhesive tape and use in plywood. 2,420,366; May 13.
- Geer, Norma B., Los Angeles, Calif., and L. W. Schatz, South Tacoma, Wash., assignors to Celanese Corporation of America. Fluffing up artificial staple fibers. 2,420,367; May 13.
- General Aniline & Film Corporation, assignee: *See—*
  - Mueller, Fritz W. H.
- General Electric Company, assignee: *See—*
  - Bachman, Charles H.
  - Bischoff, Alfred F.
  - Brown, George M.
  - Mackay, Kenneth M., and Sims.
  - Mendelsohn, Lewis I.
  - Morrill, Wayne J.
  - Nelson, Richard B.
  - Ramo, Simon.
- General Mills, Inc., assignee: *See—*
  - Dykoski, Walter J.
- General Motors Corporation, assignee: *See—*
  - Rataiczak, Francis I.
- General Railway Signal Company, assignee: *See—*
  - Swanton, Charles L.
- Gerhardt, Andrew H., Skokie, assignor to Electric Household Utilities Corporation, Chicago, Ill. Balancing means for centrifugal machines. 2,420,592; May 13.
- Gilliam, Comillus W., New York, N. Y. Pedal-operated aquatic vehicle. 2,420,422; May 13.
- Gilman, Wilbert M., Wellesley Hills, Mass., assignor, by mesne assignments, to Cread Engineering and Research Company, Cranston, R. I. Unloading valve for hydraulic circuits. 2,420,394; May 13.
- Gilpin, Garth G., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Walk for railway house cars. 2,420,533; May 13.
- Giordano, Joseph, Nanuet, N. Y. Apparatus for coating aggregates. 2,420,368; May 13.
- Glassmire, William F.: *See—*
  - Smith, William R., and Glassmire.
- Gluckin Corporation, The, assignee: *See—*
  - Gluckin, Harry.
- Gluckin, Harry, assignor to The Gluckin Corporation, New York, N. Y. Brassière. 2,420,593; May 13.
- Goepp, Rudolph M., Jr.: *See—*
  - Brandner, John D., and Goepp.
- Gohr, Edwin J., Summit, D. L. Campbell, Short Hills, J. M. Graham, Plainfield, and W. I. Thompson, Westfield, N. J., assignors to Standard Oil Development Company. Catalytic cracking of hydrocarbon oils. 2,420,534; May 13.
- Goldsby, Arthur R., Beacon, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Acid alkylation of isoparaffins. 2,420,369; May 13.
- Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse generator. 2,420,309; May 13.
- Goodman, Leo A., assignor to Marcleph & Co., Inc., Brooklyn, N. Y. Casing or packaging perishable food products. 2,420,310; May 13.
- Goodrich, B. F., Company, The, assignee: *See—*
  - Slusher, Frank.
- Gowell, Niles P., Watertown, assignor to Raytheon Manufacturing Company, Newton, Mass. Conductive shield for external press type electron discharge tubes. 2,420,311; May 13.
- Grabau, William C., Brighton, assignor, by mesne, assignments, to Submarine Signal Company, Boston, Mass. Frequency regulator. 2,420,312; May 13.
- Graham, Eric B., North Finchley, London, assignor to Specialloid Limited, London, England. Piston. 2,420,474; May 13.
- Graham, John M.: *See—*
  - Gohr, Edwin J., Campbell, Graham, and Thompson.
- Great American Industries, Inc., assignee: *See—*
  - Hellmann, Reinhard K.
- Greene, Ernest W., Lakeland, and J. R. Sherertz, Bartow, Fla., and A. T. Cole, Cartersville, Ga., assignors to Minerals Separation North American Corporation, New York, N. Y. Froth-flotation concentration of sylvite from sylvinite ores. 2,420,476; May 13.
- Greene, George B., Long Beach, assignor to L. M. Harvey, La Canada, Calif. Radio direction finding circuit. 2,420,395; May 13.
- Greger, Herbert H., and S. W. Briggs, Washington, D. C. Friction composition and preparing the same. 2,420,475; May 13.
- Griffin, Joseph D., Johannesburg, Transvaal, Union of South Africa. Electrical heating apparatus. 2,420,535; May 13.
- Groenendyke, Goethe M.: *See—*
  - Shimek, Edwin J., and Groenendyke.
- Groves, Henry T., Sacramento, Calif. Inner-spring unit assembly machine. 2,420,423; May 13.
- Grumman Aircraft Engineering Corporation, assignee: *See—*
  - Hall, Robert L.
- Guardite Corporation, The, assignee: *See—*
  - Baer, John M., and Heineman.
  - Heineman, Arnold H.

- Guenther, Arthur E., and L. B. Molyneux, Buffalo, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Advancing reel threading device. 2,420,537; May 13.
- Guidosh, John A.: *See—*
  - Leonard, Merrill G., and Guidosh.
- Gulf Research & Development Company, assignee: *See—*
  - Rocchini, Albert G., and Pattinson.
- Hackethal, Paul F., Cockeysville, assignor to Everel Propeller Corporation, Baltimore, Md. Hub construction. 2,420,424; May 13.
- Hale, William J., Midland, Mich., and H. Miller, Columbia, Mo., assignors to National Agrol Company, Inc., Washington, D. C. Production of butadiene by dehydration. 2,420,477; May 13.
- Hall, Mark M., Prescott, assignor of one-third to D. F. Reeves, Phoenix, Ariz. Cable anchor for winches. 2,420,594; May 13.
- Hall, Robert L., Huntington, assignor to Grumman Aircraft Engineering Corporation, Bethpage, N. Y. Fluid pressure control valve. 2,420,313; May 13.
- Hamilton, James K., Plainfield, N. J., assignor to Air Reduction Company, Incorporated. Pressure relief valve. 2,420,370; May 13.
- Hampton, Durward B., assignor of forty-eight per cent to C. G. Holme, Sebastopol, Calif. Trap. 2,420,371; May 13.
- Hansen, William W., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. High-frequency resonator-tube. 2,420,314; May 13.
- Hardwick, Christopher L., Cleveland, Tenn. Spacing bracket for crated stoves. 2,420,425; May 13.
- Harrer, Herbert W., New Washington, Ohio. Compressor. 2,420,426; May 13.
- Harrington & Richardson Arms Company, assignee: *See—*
  - Baldwin, Joseph W.
- Harris, Frank C., Bay Village, assignor to The American MonoRail Company, Cleveland, Ohio. Shuttle crane. 2,420,595; May 13.
- Hartford National Bank and Trust Company, assignee, trustee: *See—*
  - Alma, Gerrit H. P., and Dammers.
  - Bouwers, Albert.
- Harvey, Leo M., assignee: *See—*
  - Greene, George B.
- Haskelite Manufacturing Company, assignee: *See—*
  - Geen, Henry C.
- Hasselhorn, Walter C., and R. M. Schultz, assignors to Cook Electric Company, Chicago, Ill. Underground cable distributing unit. 2,420,478; May 13.
- Hedstrom-Union Company, assignee: *See—*
  - Boudreau, Alban M.
- Heeger, Benjamin D.: *See—*
  - Andrews, Daly P., Heeger, and Smith.
- Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Leak tester for therapeutic masks. 2,420,372; May 13.
- Heineman, Arnold H.: *See—*
  - Baer, John M., and Heineman.
- Heineman, Arnold H., Chicago, Ill., assignor to The Guardite Corporation. Vacuum cooler and cleaning the same. 2,420,396; May 13.
- Hellmann, Reinhard K., assignor to Great American Industries, Inc., Meriden, Conn. Signaling generator mechanism. 2,420,638; May 13.
- Henderson, Albert, Edgewood Borough, assignor to W. P. Witherow, Pittsburgh, Pa. Precast reinforced concrete members. 2,420,427; May 13.
- Heyden Chemical Corporation, assignee: *See—*
  - Poitras, Herman A., and Snow.
  - Poitras, Herman A., Snow, and De Lorenzo.
- Hicks, Nell S., Atlanta, Ga. Curtain. 2,420,479; May 13.
- Hill, Carl H., Norristown, and H. I. Schneider, assignors to The Budd Company, Philadelphia, Pa. Heat-treating basket. 2,420,428; May 13.
- Hine, Sheldon H., U. S. Navy. Perspective projector and enlarger. 2,420,316; May 13.
- Hogberg, Carl G., Glenshaw, Pa., assignor to United States Steel Corporation of Delaware. Hot-blast stove. 2,420,373; May 13.
- Hohmann, Richard K., Jamaica, N. Y., assignor to Sears, Roebuck and Co., Chicago, Ill. Bobbin holder positioning and extracting device. 2,420,536; May 13.
- Hohmann, Richard K., Jamaica, N. Y., assignor to White Sewing Machine Corporation, Cleveland, Ohio. Take-up mechanism. 2,420,538; May 13.
- Holme, Charles G., assignee: *See—*
  - Hampton, Durward B.
- Holt, Ray G., Euclid, and J. Martin, South Euclid, Ohio, assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Booster pump shut-off casing for pump removal. 2,420,315; May 13.
- Holt, Rossiter R.: *See—*
  - Southwick, Laurence F., and Holt.
- Hornfeck, Anthony J., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Measuring and controlling system. 2,420,539; May 13.
- Houghton, William D., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse multiplex transmission system. 2,420,374; May 13.
- Howes, Edgar T., Pasadena, Calif. Vacuum tube voltage indicator or recorder. 2,420,596; May 13.
- Hubbell, Dean S., Sharpsburg, assignor to H. H. Robertson Company, Pittsburgh, Pa. Cupreous powder and making the same. 2,420,540; May 13.
- Huggenberger, Arnold, Zurich, Switzerland. Aircraft oxygen regulator. 2,420,375; May 13.
- Hutchison, Miller R., Jr., and A. L. Wehr, assignors to Eastman Kodak Company, Rochester, N. Y. Inexpensive camera shutter. 2,420,597; May 13.
- Hyman, Benjamin M.: *See—*
  - Johnson, Arnold E. W., and Hyman.
- Imperial Chemical Industries Limited, assignee: *See—*
  - Reynolds, Peter W., Taylor, and Bremner.
- Industriaids, assignee: *See—*
  - Pojman, Joseph L.
- Industrial Patents Corporation, assignee: *See—*
  - McKee, Harry H., Dziedzic, and Straeten.
- International Cellucotton Products Company, assignee: *See—*
  - Deloye, James J.
- International Harvester Company, assignee: *See—*
  - Evans, Arthur G.
  - Johnson, Arnold E. W., and Hyman.
  - Morkoski, James.
  - Mott, Carl W.
  - Scarratt, Albert W.
- Ivandick, Matthew G., assignor to Free Sewing Machine Co., Rockford, Ill. Stitch regulating and reversing mechanism for sewing machines. 2,420,480; May 13.
- Jackson, Frank W., and H. M. Nacey, Chicago, Ill. Fusible fire alarm. 2,420,481; May 13.
- Jackson, James H., Detroit, Mich. Liquid fuel burner. 2,420,598; May 13.
- Jacobs, Grant, Des Moines, Iowa. Pump jack. 2,420,541; May 13.
- Jahnig, Charles E., Roselle, N. J., assignor to Standard Oil Development Company. Carrying out chemical reactions in the presence of finely-divided solids. 2,420,542; May 13.
- Jamestown Metal Equipment Company, Inc., assignee: *See—*
  - Svensson, Leroy.
- Jandasek, Joseph, Highland Park, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Rotary hydraulic torque converter and fluid coupling. 2,420,429; May 13.
- Janik, John J., Niagara Falls, N. Y. Invasion checkers. 2,420,482; May 13.
- Jensen, Anker W., Oak Park, Ill. Hand abrader. 2,420,397; May 13.
- Johansson, Edvin A., Stockholm, Sweden. Destructive distillation process bodying counter flow of solid heating medium. 2,420,376; May 13.
- Johnson, Arnold E. W., Oak Park, and B. M. Hyman, Moline, Ill., assignors to International Harvester Company. Dual corn husking unit for multiple row corn pickers. 2,420,543; May 13.
- Johnson City Mills, assignee: *See—*
  - Coleman, William.
- Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Gas analyzer. 2,420,430; May 13.
- Johnson's Company, assignee: *See—*
  - Pharo, Lee C.
- Jones, Carl G., Youngstown, Ohio. Brightening tinned strip. 2,420,377; May 13.
- Jones, Howard A.: *See—*
  - Travis, Bernard V., and Jones.
- Jones & Lamson Machine Company, assignee: *See—*
  - Lovely, John E.
- Jones, Minor C. K., Mountainside, N. J., assignor to Standard Oil Development Company. Removal of mercaptans from petroleum naphtha. 2,420,544; May 13.
- Jovanovich, Milton: *See—*
  - Wharam, John J., and Jovanovich.
- Jurs, Peter C., Piedmont, Calif., assignor to Shand and Jurs Company. Flame arrester. 2,420,599; May 13.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Injection timing. 2,420,431; May 13.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Electrical injection timing. 2,420,432; May 13.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Indicator for free piston units. 2,420,483; May 13.
- Kallusky, Clarence E., assignor: *See—*
  - Kallusky, Philipp M.
- Kallusky, Philipp M., San Francisco, Calif., assignor of one-half to C. E. Kallusky, Wadena, Minn. Preventing foaming in bottle cleaning apparatus. 2,420,600; May 13.
- Karavia, Sophie S., New York, N. Y. Combination lock. 2,420,484; May 13.
- Kast, Samuel H., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Electrical switch with kinetic energy dissipating means. 2,420,485; May 13.
- Keema, Alexander W.: *See—*
  - Stevenson, Robert, and Keema.
- Keim, John W.: *See—*
  - Frame, Newton B., and Keim.
- Kelco Company, assignee: *See—*
  - Gates, John I.
- Kelley, Zar W., Bedford, assignor to Z & W Machine Products, Inc., Cleveland, Ohio. Seating and facing tool. 2,420,601; May 13.

- Kellogg Switchboard and Supply Company, assignee, et al.: *See*—
  - Arnold, Ralph J.
- Kennedy and Kempe, Limited, assignee: *See*—
  - Dennison, Ernest A.
- Kern, Walter: *See*—
  - Sutter, Paul, and Kern.
- King, John M., Dover, N. J. Anti-tank mine actuator. 2,420,317; May 13.
- Kingerley, Richard W., Jr., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrolytic cleaning process. 2,420,602; May 13.
- Kinney, S. P., Engineers, Inc., assignee: *See*—
  - Kinney, Selwyne P.
- Kinney, Selwyne P., Crafton, assignor to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Operating blast furnaces. 2,420,398; May 13.
- Kirby, James E.: *See*—
  - Biehn, Gordon E., and Kirby.
- Kirk & Blum Manufacturing Company, The, assignee: *See*—
  - Carsey, Eugene A., and Stalker.
- Klumb, George H.: *See*—
  - Culligan, Emmett J., and Klumb.
- Kneitel, Harry: *See*—
  - Breslow, Nathan, Stein, and Kneitel.
- Knowles, Richard C.: *See*—
  - White, Gifford E., and Knowles.
- Koch, George J.: *See*—
  - Wittel, Otto, Koch, and Boon.
- Koehring Company, assignee: *See*—
  - Beckwith, Raymond A.
  - Lichtenberg, Erich H., and Robb.
- Kraaymes, Arnold C., assignor of one-half to O. M. Kraaymes, Orlando, Fla. Airplane wing of variable area construction. 2,420,433; May 13.
- Kraaymes, Olive M., assignee: *See*—
  - Kraaymes, Arnold C.
- Kreitner, Johann: *See*—
  - Nettel, Frederick, and Kreitner.
- Kyrides, Lucas P., and F. B. Zienty, St. Louis, and R. W. Stephenson, Webster Groves, assignors to Monsanto Chemical Company, St. Louis, Mo. 2-amino-5-alkenyl-1,3,4 thiadiazoles and making the same. 2,420,434; May 13.
- Lackow, Emil, Brooklyn, N. Y. Watch strap. 2,420,435; May 13.
- Lauck, John A.: *See*—
  - Roth, Jay M., and Lauck.
- Lawson, Elmer J.: *See*—
  - Marker, Russell E., and Lawson.
- Leader, Sidney A., assignor to Portland Plastics Limited, London, England. Dental flask. 2,420,545; May 13.
- Lee, James C., Birmingham, Ala. Bottle carrier. 2,420,603; May 13.
- Leeds and Northup Company, assignee: *See*—
  - Bristol, Edward S.
- Lehman, Leo E.: *See*—
  - Lehman, Tillie and L. E.
- Lehman, Tillie and L. E., Chicago, Ill. Combination cap and scarf. 2,420,378; May 13.
- Leidy, Orvis H., Grosse Pointe, assignor to Michigan Chrome & Chemical Company, Detroit, Mich. Adhesive wrapping tape. 2,420,604; May 13.
- Leland-Gifford Company, assignee: *See*—
  - Bishop, Benjamin S. T., and Bicknell.
- Leonard, Henry K., Albany, N. Y., assignor to Toledo Scale Company, Toledo, Ohio. Charts for weighing scales. 2,420,639; May 13.
- Leonard, Merrill G., Sharon, Pa., and J. A. Guidosh, Hubbard, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Handhole closure. 2,420,318; May 13.
- Lewis, Joseph W., Jr., New York, N. Y. Garment. 2,420,486; May 13.
- Lewis, Lloyd V., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,420,546; May 13.
- Lichtenberg, Erich H., Milwaukee, Wis., and F. B. Robb, Chagrin Falls, Ohio, assignors to Koehring Company, Milwaukee, Wis. Dirt scraping and hauling vehicle. 2,420,319; May 13.
- Line Material Company, assignee: *See*—
  - Everhardt, James G.
- Long, Herman C., Johnson City, Tenn. Paint brush holder. 2,420,487; May 13.
- Lord Manufacturing Company, assignee: *See*—
  - Strachovsky, Nikita B.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Profile milling machine. 2,420,547; May 13.
- Lyon, George A., Allenhurst, N. J. Ornamental trim ring for vehicle wheels. 2,420,320; May 13.
- Lyon, George A., Allenhurst, N. J. Wheel trim. 2,420,321; May 13.
- Mackay, Kenneth M., and W. J. Sims, Rugby, England, assignors to General Electric Company. Control device. 2,420,548; May 13.
- Magoffin, James E.: *See*—
  - Brimer, Marshall R., Magoffin, and Von Bramer.
- Mallory, Marion, Detroit, Mich. Temperature control for internal-combustion engines. 2,420,436; May 13.
- Man-Sew Corp., assignee: *See*—
  - Sigoda, Victor J.
- Marcleph & Co., Inc., assignee: *See*—
  - Goodman, Leo A.
- Marhoefer, Laurence J., Haddon Heights, and W. A. Taylor, Wildwood, N. J., and E. L. Vidal, Washington, D. C., assignors to Vidal Corporation. Forming laminated hollow structures. 2,420,488; May 13.
- Marker, Russell E., Mexico City, Mexico, assignor to Parke, Davis & Company, Detroit, Mich. Steroidal hormone intermediates and preparation of the same. 2,420,489; May 13.
- Marker, Russell E., Mexico City, Mexico, assignor to Parke, Davis & Company, Detroit, Mich. Δ^{16}-pregnenediols and producing the same. 2,420,490; May 13.
- Marker, Russell E., Mexico City, Mexico, and E. J. Lawson, East Greenbush, N. Y., assignors to Parke, Davis & Company, Detroit, Mich. Preparing progesterone. 2,420,491; May 13.
- Marseilles, William M., Clinton, Mo. Recoil absorber for guns. 2,420,492; May 13.
- Martin, James L.: *See*—
  - Breakefield, Durward E., and Martin.
- Martin, John: *See*—
  - Holt, Ray G., and Martin.
- Maryland Baking Company, Inc., assignee: *See*—
  - Cutler, Jacob.
- Matarazzo, Ralph F., Medford, Mass. Preserving peeled white potatoes. 2,420,322; May 13.
- Mauro, Oswald G.: *See*—
  - Dons, Eddie M., and Mauro.
- McConnel, William G., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Frequency modulated rotating radio beacon. 2,420,605; May 13.
- McKee, Harry H., N. J. Dziedzic, and C. L. Straeten, assignors to Industrial Patents Corporations, Chicago, Ill. Meat treatment. 2,420,549; May 13.
- McLeod, John H., and J. R. Turner, assignors to Eastman Kodak Company, Rochester, N. Y. Workholder for use in grinding and polishing transmission surfaces of roof prisms. 2,420,606; May 13.
- McMahon, William F., Riverside, Calif. Disk harrow. 2,420,437; May 13.
- Medlock, Homer L.: *See*—
  - Bowdoin, Fairbanks C., and Medlock.
- Mendelsohn, Lewis I., Lynn, Mass., assignor to General Electric Company. Magnetic repulsion Geneva movement. 2,420,607; May 13.
- Menge, Herman J., Middle Village, N. Y. Protractor for use in navigation. 2,420,608; May 13.
- Merit Engineering, Inc., assignee: *See*—
  - Stevenson, Robert.
  - Stevenson, Robert, and Keema.
- Meyer, Alphonse J., Mountain Top, Pa. Trouser creaser. 2,420,493; May 13.
- Meyer, Charles A., Drexel Hill, and D. Bradbury, Prospect Park, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Wing-mounted jet-propulsion system with controllable discharge outlet. 2,420,323; May 13.
- Meyer, Walter O.: *See*—
  - Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.
- Michigan Chrome & Chemical Company, assignee: *See*—
  - Leidy, Orvis H.
- Mid-Continent Petroleum Corporation, assignee: *See*—
  - Dons, Eddie M., and Mauro.
- Middlemiss, Joseph E., Philadelphia, Pa., assignor to United States of America, as represented by the Secretary of War. Mechanical time fuse. 2,420,324; May 13.
- Miller, C. Roy: *See*—
  - Ekleberry, James F.
- Miller, Harry: *See*—
  - Hale, William J., and Miller.
- Miller, Ralph, Buffalo, N. Y. Liquid fuel injection apparatus. 2,420,550; May 13.
- Mills, Gerald G., Daly City, Calif. Filter adapter for cameras. 2,420,379; May 13.
- Minerals Separation North American Corporation, assignee: *See*—
  - Greene, Ernest W., Sherertz, and Cole.
- Minneapolis-Honeywell Regulator Company, assignee: *See*—
  - Wilson, John M.
- Mitchell, Donald H., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Translating circuit and apparatus for portable electrical devices. 2,420,609; May 13.
- Moessinger, Albert, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Method and device for weaving on looms with gripper shuttles. 2,420,380; May 13.
- Molyneux, Lee B.: *See*—
  - Guenther, Arthur E., and Molyneux.
- Monsanto Chemical Company, assignee: *See*—
  - Kyrides, Lucas P., Zienty, and Stephenson.
- Montgomery, Paul H.: *See*—
  - Bivans, Elbert L., Beemer, and Montgomery.
- Moorehead Manufacturing Company, assignee: *See*—
  - Palmer, Edwin, and Schwartz.
- Morgan, Marshall M., Tyler, Tex. Flange jack. 2,420,438; May 13.

- Morkoski, James, Canton, Ill., assignor to International Harvester Company. Gauge wheel and coulter assembly. 2,420,551; May 13.
- Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Driving mechanism. 2,420,552; May 13.
- Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Torque limiting driving mechanism. 2,420,553; May 13.
- Morrison, Montford, Upper Montclair, N. J. Aircraft range and direction finder. 2,420,439; May 13.
- Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Fluid pressure regulation and control apparatus. 2,420,554; May 13.
- Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Quadrant lever control. 2,420,555; May 13.
- Mueller, Alexander V., assignor to The Deming Company, Salem, Ohio. Pump. 2,420,556; May 13.
- Mueller, Alexander V., assignor to The Deming Company, Salem, Ohio. Impeller pump. 2,420,557; May 13.
- Mueller, Fritz W. H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Antistatic photographic film. 2,420,610; May 13.
- Mueller, Fritz W. H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Antistatic photographic film. 2,420,611; May 13.
- Munday, John C., Cranford, N. J., assignor to Standard Oil Development Company. Catalytic conversion of hydrocarbons. 2,420,558; May 13.
- Myers, Homer S.: *See*—
  - Selman, Roland W., Jr., and Myers.
- Myers, Latimer D., assignor to Emery Industries, Inc., Cincinnati, Ohio. Plasticized zein composition. 2,420,381; May 13.
- Nacey, Harry M.: *See*—
  - Jackson, Frank W., and Nacey.
- National Agrol Company, Inc., assignee: *See*—
  - Hale, William J., and Miller.
- National Aluminate Corporation, assignee: *See*—
  - Ryznar, John W.
- National-Standard Company, assignee: *See*—
  - Adler, Orville E.
- Nelson, Clifford H., Tujunga, Calif. Garment hanger. 2,420,440; May 13.
- Nelson, John W., assignee: *See*—
  - Rakos, Joseph F.
- Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. Artificial transmission line. 2,420,559; May 13.
- Nettel, Frederick, Manhasset, N. Y. Operating internal combustion engines. 2,420,325; May 13.
- Nettel, Frederick, Manhasset, and J. Kreitner, New York, N. Y. Multiple temperature air supply arrangement for hot air power plant furnaces. 2,420,335; May 13.
- Netzhammer, Harry F.: *See*—
  - Corbin, Fred A., and Netzhammer.
- New, Francis H. M., Taylors, S. C. Thread drier having radiant heater and automatic control means. 2,420,399; May 13.
- Niagara Searchlight Company, Inc., assignee: *See*—
  - Wohler, Charles E., and Sherwood.
- Nichols, Harry J., Binghamton, N. Y. Fuse. 2,420,612; May 13.
- Nord, Eric T., assignor to U. S. Automatic Corporation, Amherst, Ohio. Work-marking assembly for machine tools. 2,420,613; May 13.
- Norman, Emile, El Monte, Calif. Producing decorative effect on plastic. 2,420,614; May 13.
- Northern Trust Company, The, executor: *See*—
  - Durdin, Augustus C., Jr.
- O'Donnell, James, Los Angeles, Calif. Sewage disposal. 2,420,326; May 13.
- Orchard, Herman, St. Louis, Mo., assignor to Orchard Paper Company. Design formation on colored paper. 2,420,336; May 13.
- Orchard Paper Company, assignee: *See*—
  - Orchard, Herman C.
- Orr, Claude L., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Brake beam safety hanger. 2,420,337; May 13.
- Owens, Thomas B., Cleveland, Ohio. Mixing device. 2,420,494; May 13.
- Page, Richard W., Chappequa, N. Y. Dental apparatus. 2,420,338; May 13.
- Palmer, Edwin, and D. S. Schwartz, Brighton, Mass.; said Schwartz now by change of name D. S. Roberts, assignors to H. Sachs and E. Palmer, Baltimore, Md., copartners trading as Moorehead Manufacturing Company. 2,420,615; May 13.
- Palmer, Oral M., South Gate, Calif. Mixing and molding device. 2,420,616; May 13.
- Paquin, Joseph N., Euclid, assignor to The Weatherhead Company, Cleveland, Ohio. Fitting. 2,420,617; May 13.
- Parke, Davis & Company, assignee: *See*—
  - Marker, Russell E.
  - Marker, Russell E., and Lawson.
- Paterson, Ira W., Milton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Switch operating mechanism. 2,420,441; May 13.
- Pattinson, Charles B., Jr.: *See*—
  - Rocchini, Albert G., and Pattinson.
- Pedersen, Charles J.: *See*—
  - Shipp, Joseph H., Bacon, and Pedersen.
  - Shipp, Joseph H., and Pedersen.
- Peerless Tube Company, assignee: *See*—
  - Remington, Frederic, and Tartaglia.
- People in the territory of the United States, Free use of the: *See*—
  - Travis, Bernard V., and Jones.
- Petrokubi, John L.: *See*—
  - Rugeley, Edward W., Feild, and Petrokubi.
- Pfeil, William C., Chicago, Ill. Cutting element for ice cubing machines. 2,420,400; May 13.
- Pharo, Lee C., Thetford Mines, Quebec, assignor to Johnson's Company, Thetford Mines, West Quebec, Canada. Asbestos dusting process and apparatus. 2,420,495; May 13.
- Pierce, John B., Foundation, assignee: *See*—
  - Cataldo, John B., and Stilwell.
- Poitras, Herman A., Teaneck, J. E. Snow, Hasbrouck Heights, and S. A. De Lorenzo, Clifton, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Recovery of products from aldehyde condensations. 2,420,496; May 13.
- Poitras, Herman A., Teaneck, and J. E. Snow, Hasbrouck Heights, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Purification of tripentaerythritol. 2,420,497; May 13.
- Pojman, Joseph L., Palos Heights, assignor to Industriaids, Evanston, Ill. Tying machine. 2,420,498; May 13.
- Portland Plastics Limited, assignee: *See*—
  - Leader, Sidney A.
- Preco Incorporated, assignee: *See*—
  - Bivans, Elbert L., Beemer, and Montgomery.
- Prokofieff, Ivan M., Staten Island, N. Y. Centrifugal pump. 2,420,401; May 13.
- Rabinovitz, David, Brooklyn, N. Y. Footwear protector. 2,420,618; May 13.
- Rabinow, Jacob, Washington, D. C., assignor to United States of America, as represented by the Secretary of War, and his successors in office. Course-recording camera. 2,420,339; May 13.
- Radio Corporation of America, assignee: *See*—
  - Carter, Philip S.
  - Houghton, William D.
  - Whittaker, James L.
  - Woll, Harry J.
  - Young, Charles J.
- Raiche, Louis G.: *See*—
  - Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.
- Railway and Industrial Engineering Company, assignee: *See*—
  - Kast, Samuel H.
- Rakos, Joseph F., assignor of one-half to J. W. Nelson, Cleveland, Ohio. Head shield for welders. 2,420,619; May 13.
- Ramo, Simon, Schenectady, N. Y., assignor to General Electric Company. Electron microscope. 2,420,560; May 13.
- Rataiczak, Francis L., assignor to General Motors Corporation, Dayton, Ohio. Sealed motor compressor unit for refrigeration apparatus. 2,420,442; May 13.
- Rathbun, Edward, assignor to The Rathbun-Jones Engineering Company, Toledo, Ohio. Device for mixing gas and air. 2,420,562; May 13.
- Rathbun-Jones Engineering Company, The, assignee: *See*—
  - Rathbun, Edward.
- Raytheon Manufacturing Company, assignee: *See*—
  - Gowell, Niles P.
- Reeves, Delmar F., assignee: *See*—
  - Hall, Mark M.
- Remington, Frederic, Elizabeth, and R. A. Tartaglia, East Orange, assignors to Peerless Tube Company, Bloomfield, N. J. Coating machine for collapsible tubes. 2,420,620; May 13.
- Rempel, Dietrich G., Akron, Ohio. Method and apparatus for forming hollow objects. 2,420,443; May 13.
- Ress, Thomas L., assignor to De Vry Corporation, Chicago, Ill. Intermittent mechanism. 2,420,444; May 13.
- Reynolds, Peter W., A. W. C. Taylor, and J. G. M. Bremner, Norton-on-tees, England, assignors to Imperial Industries Limited. Catalyst and process for dehydrogenation of hydrocarbons. 2,420,563; May 13.
- Ricks, Bernard E., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Socket assembly. 2,420,621; May 13.
- Rizzuto, Charles, Brooklyn, N. Y. Type bar releasing device for typewriters. 2,420,445; May 13.
- Robb, Frank B.: *See*—
  - Lichtenberg, Erich H., and Robb.
- Roberts, David S.: *See*—
  - Palmer, Edwin, and Schwartz.
- Robertson, H. H., assignee: *See*—
  - Hubbell, Dean S.
- Robertson, James A., Elsmere, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic reduction of organic chloro-nitro compounds. 2,420,382; May 13.

- Rocchini, Albert G., Aspinwall, and C. B. Pattison, Jr., Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Petroleum oil compositions. 2,420,446; May 13.
- Rohlm Manufacturing Company, Incorporated, assignee: *See*—
  - Dunnihoo, John R.
- Ross, John, Manhasset, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Production of sulfonyl chlorides from olefins. 2,420,383; May 13.
- Roth, Jay M., Euclid, and J. A. Lauck, South Euclid, Ohio, assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Pump with pressure loaded bushing. 2,420,622; May 13.
- Royster, Percy H., Montclair, N. J. Producing ferro-silicon. 2,420,564; May 13.
- Rugeley, Edward W., T. A. Feild, Jr., and J. L. Petrokubi, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Synthetic textile articles. 2,420,565; May 13.
- Ruperti, Andreas, Arlesheim, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Esterifying cellulose fibers. 2,420,499; May 13.
- Ryznar, John W., La Grange, assignor to National Aluminate Corporation, Chicago, Ill. Clarification of aqueous liquids. 2,420,340; May 13.
- Sachs, Harry: *See*—
  - Palmer, Edwin, and Schwartz.
- Salzenberg, Walter H., Wilmington, Del., and M. Sveda, Cleveland, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing thionyl chloride. 2,420,623; May 13.
- Samiran, David, Osborn, and R. Fink, Patterson Field, Ohio. Automatic shutoff fuel nozzle with float controlled valve. 2,420,341; May 13.
- Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High frequency continuous amplifier. 2,420,342; May 13.
- Sanders, William M., assignee: *See*—
  - Andrews, Daly P., Heeger, and Smith.
- Scarratt, Albert W., Kenilworth, Ill., assignor to International Harvester Company. Engine driven refrigeration unit. 2,420,566; May 13.
- Schadel, Charles H., Houston, assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Orienting apparatus. 2,420,447; May 13.
- Schatz, Louis W.: *See*—
  - Geer, Norma B., and Schatz.
- Schaub, Fred H., Engineering Co., assignee: *See*—
  - Schaub, Robert F.
- Schaub, Robert F., Oak Park, assignor to Fred H. Schaub Engineering Co., Chicago, Ill. Boiler feed-water system. 2,420,624; May 13.
- Schigut, Emil A., Los Angeles, Calif. Can puncturing and spout forming device. 2,420,402; May 13.
- Schneider, Harold I.: *See*—
  - Hill, Carl H., and Schneider.
- Schug, John B., Paragould, Ark. Rotary cultivator. 2,420,500; May 13.
- Schultz, Roy M.: *See*—
  - Hasselhorn, Walter C., and Schultz.
- Schwartz, David S.: *See*—
  - Palmer, Edwin, and Schwartz.
- Sears, Roebuck and Co., assignee: *See*—
  - Hohmann, Richard K.
- Selman, Roland W., Jr., Kansas City, Kans., and H. S. Myers, assignors to Campbell-Taggart Research Corporation, Kansas City, Mo. Treatment of malt sprouts for use in bakeries. 2,420,567; May 13.
- Sennewald, E. Francis, St. Louis, Mo. Rodent and insect poison. 2,420,568; May 13.
- Sewell, James L., Akron, Ohio. Cap. 2,420,569; May 13.
- Shand and Jurs Company, assignee: *See*—
  - Jurs, Peter C.
- Shanley, William B., assignor to Universal Oil Products Company, Chicago, Ill. Polymerization of hydrocarbons. 2,420,327; May 13.
- Shanman, Jerome D., assignee: *See*—
  - Branson, James E.
- Shapiro, Max S., Brooklyn, N. Y. Dental restoration, including artificial teeth and dentures. 2,420,570; May 13.
- Shaver, Paul P.: *See*—
  - Stalnaker, Frederick M., and Shaver.
- Shep, Leroy R., Los Angeles, Calif. Pontoon. 2,420,384; May 13.
- Sherertz, Joe R.: *See*—
  - Greene, Ernest W., Sherertz, and Cole.
- Sherwood, Lewis G.: *See*—
  - Wohler, Charles E., and Sherwood.
- Shimek, Edwin J., Dallas, Tex., and G. M. Groenendyke, Norman, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gain-controlling system for seismographs. 2,420,571; May 13.
- Shipp, Joseph H., Wilmington, Del., and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant for processing metals. 2,420,328; May 13.
- Shipp, Joseph H., Wilmington, Del., and O. C. Bacon, and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant for processing metals. 2,420,329; May 13.
- Shriver, Leland C., South Charleston, and G. H. Fremon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Vinyl chloride copolymer and making it. 2,420,330; May 13.
- Siebel, Gustav: *See*—
  - Beck, Adolf, Siebel, and Vosskübler.
- Siers, John A. H., Jersey City, N. J. Telescopic bathtub. 2,420,448; May 13.
- Sigoda, Victor J., Great Neck, assignor to Man-Sew Corp., New York, N. Y. Trimming mechanism. 2,420,331; May 13.
- Simmonds Aerocessories Limited, assignee: *See*—
  - Smith, Stanley J.
- Simmons Company, assignee: *See*—
  - Woller, Edward E.
- Simpson, Herbert S., assignee: *See*—
  - Christensen, Alfred C., and Dvorak.
- Sims, Williams J.: *See*—
  - Mackay, Kenneth M., and Sims.
- Slusher, Frank, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Torsional testing apparatus. 2,420,385; May 13.
- Smith, Albert P.: *See*—
  - Andrews, Daly P., Heeger, and Smith.
- Smith, Stanley J., assignor to Simmonds Aerocessories Limited, London, England. Electric follow-up system. 2,420,501; May 13.
- Smith, William R., and W. F. Glassmire, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Reduction of corrosive action of Friedel-Crafts type catalysts. 2,420,386; May 13.
- Snow, John E.: *See*—
  - Poitras, Herman A., and Snow.
  - Poitras, Herman A., Snow, and De Lorenzo.
- Society of Chemical Industry in Basle, assignee: *See*—
  - Ruperti, Andreas.
  - Sutter, Paul, and Kern.
- Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
  - Shimek, Edwin J., and Groenendyke.
- Somes, Howard E., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Switching device. 2,420,449; May 13.
- Sonnen, Fred, Newark, N. J. Harmonica. 2,420,450; May 13.
- Southwick, Laurence F., Meriden, and R. R. Holt, Manchester, Conn. Tap grinding fixture. 2,420,572; May 13.
- Specialloid Limited, assignee: *See*—
  - Graham, Eric B.
- Spenard, Joseph L., Duluth, Minn. Fish lure. 2,420,451; May 13.
- Sperry Gyroscope Company, Inc., assignee: *See*—
  - Hansen, William W.
  - White, Gifford E., and Knowles.
- Spira, Josef H., New York, N. Y. Gem grinding device. 2,420,502; May 13.
- Stalker, W. Grant: *See*—
  - Carsey, Eugene A., and Stalker.
- Stalnaker, Frederick M., Weston, and P. P. Shaver, Spelter, W. Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal handling. 2,420,625; May 13.
- Standard Oil Development Company, assignee: *See*—
  - Antes, Leland L.
  - Gohr, Edwin J., Campbell, Graham, and Thompson.
  - Jahnig, Charles E.
  - Jones, Minor C. K.
  - Munday, John C.
  - Tyson, Charles W.
- Standard Railway Equipment Manufacturing Company, assignee: *See*—
  - Gilpin, Garth G.
- Stechbart, Bruno, Park Ridge, assignor to The Bell & Howell Company, Chicago, Ill. Optical reticle. 2,420,503; May 13.
- Stein, Joseph: *See*—
  - Breslow, Nathan, Stein, and Kneitel.
- Stephenson, Robert W.: *See*—
  - Kyrides, Lucas P., Zienty, and Stephenson.
- Stertzbach, Harry W.: *See*—
  - Orr, Claude L., and Stertzbach.
- Stevenson, Robert, Barrington, R. I., assignor to Merit Engineering, Inc. Hydraulic servomotor with rotating cylinder and fluid transfer means adapted therefor. 2,420,626; May 13.
- Stevenson, Robert, Barrington, and A. W. Keema, Providence, R. I., assignors to Merit Engineering, Inc. Remote control apparatus. 2,420,627; May 13.
- Stewart, Gilbert, assignor to Ex-Cell-O Corporation, Detroit, Mich. Grinding screw threads. 2,420,504; May 13.
- Stewart, Robert G., Sr., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Metal rolling mill universal spindle coupling. 2,420,573; May 13.
- Stilwell, William E., Jr.: *See*—
  - Cataldo, John B., and Stilwell.

- Stith, Andrew H., Chicago, Ill. Dentist's measuring spoon. 2,420,505; May 13.
- Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Electrodeposition of iron. 2,420,403; May 13.
- Stolber, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Detective camera. 2,420,628; May 13.
- Strachovsky, Nikita B., assignor to Lord Manufacturing Company, Erie, Pa. Resilient mounting. 2,420,452; May 13.
- Straeten, Charles L.: *See*—
  - McKee, Harry H., Dziedzic, and Straeten.
- Strang, John M., assignor to Barr & Stroud, Limited, Glasgow, Scotland. Binocular range estimating periscope operating on the coincidence principle. 2,420,506; May 13.
- Stratton, Harry C., assignor to Stratton Specialties, Malden, Mass. Portable apparatus for therapeutic irrigation. 2,420,507; May 13.
- Stratton Specialties, assignee: *See*—
  - Stratton, Harry C.
- Submarine Signal Company, assignee: *See*—
  - Grabau, William C.
- Sulzer Freres, Societe Anonyme, assignee: *See*—
  - Moessinger, Albert.
- Sutter, Paul, Binningen, and W. Kern, Sissach, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Acylamino-anthraquinone vat dyestuffs. 2,420,453; May 13.
- Sveda, Michael: *See*—
  - Salzenberg, Walter H., and Sveda.
- Svensson, Leroy, assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y. Cabinet having interconnected closure and support for an ironer. 2,420,508; May 13.
- Swanton, Charles L., North Chili, assignor to General Railway Signal Company, Rochester, N. Y. Power supply for traffic controlling systems. 2,420,629; May 13.
- Taborski, Alfred F., Buffalo, N. Y. Preformed necktie. 2,420,387; May 13.
- Tartaglia, Richard A.: *See*—
  - Remington, Frederic, and Tartaglia.
- Taylor, Arthur W.: *See*—
  - Reynolds, Peter W., Taylor, and Bremner.
- Taylor, George J., assignor to Eastman Kodak Company, Rochester, N. Y. Disazo dye compounds. 2,420,630; May 13.
- Taylor, George J., assignor to Eastman Kodak Company, Rochester, N. Y. Dis-azo dyes for color photography. 2,420,631; May 13.
- Taylor, William A.: *See*—
  - Marhoefer, Laurence J., Taylor, and Vidal.
- Tegge, Carlton S., Haddon Heights, N. J., assignor to The Brown Instrument Company, Philadelphia, Pa. Electrical measuring apparatus. 2,420,574; May 13.
- Texas Company, The, assignee: *See*—
  - Goldsby, Arthur R.
  - Smith, William R., and Glassmire.
- Thomas, William A., assignor to Blaw-Knox Company, Pittsburgh, Pa. Apparatus for feeding granular material into a fluid stream. 2,420,388; May 13.
- Thompson Products, Inc., assignee: *See*—
  - Ricks, Bernard E.
- Thompson, William I.: *See*—
  - Gohr, Edwin J., Campbell, Graham, and Thompson.
- Toledo Scale Company, assignee: *See*—
  - Leonard, Henry K.
- Travis, Bernard V., Orlando, Fla., and H. A. Jones, Washington, D. C., dedicated to the free use of the People in the territory of the United States. Insect repellent composition. 2,420,389; May 13.
- Treadwell, Jeannette E., San Antonio, Tex. Brassière. 2,420,575; May 13.
- Truxell, Clyde W., Jr.: *See*—
  - Cupler, John A., and Truxell.
- Tupper, Earl S., Farnumsville, Mass. Comb and case therefor. 2,420,576; May 13.
- Turner, John R.: *See*—
  - McLeod, John H., and Turner.
- Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Cracking of hydrocarbon oils. 2,420,632; May 13.
- Union Switch & Signal Company, The, assignee: *See*—
  - Lewis, Lloyd V.
  - Young, Henry S.
- United Aircraft Corporation, assignee: *See*—
  - Kalitinsky, Andrew.
- United Shoe Machinery Corporation, assignee: *See*—
  - Willhauck, Augustus D.
- U. S. Automatic Corporation, assignee: *See*—
  - Nord, Eric T.
- United States Steel Corporation of Delaware, assignee: *See*—
  - Hogberg, Carl G.

- Universal Oil Products Company, assignee: *See*—
  - Shanley, William B.
- Vang, Alfred, New York, N. Y. Constructing air-cooled cylinders. 2,420,332; May 13.
- Van Lew, Frederick D., Bronxville, N. Y. Electric control system. 2,420,577; May 13.
- Vidal Corporation, assignee: *See*—
  - Marhoefer, Laurence J., Taylor, and Vidal.
- Vidal, Eugene L.: *See*—
  - Marhoefer, Laurence J., Taylor, and Vidal.
- Viel, Edmond P. R., Paris, France. Two-cycle engine. 2,420,454; May 13.
- Von Bramer, Harold: *See*—
  - Brimer, Marshall R., Magoffin, and Von Bramer.
- Vosskühler, Hugo: *See*—
  - Beck, Adolf, Siebel, and Vosskühler.
- War, United States of America, as represented by the Secretary of, assignee: *See*—
  - Middlemiss, Joseph E.
  - Rabinow, Jacob.
- Watertown Manufacturing Company, The, assignee: *See*—
  - Alves, Alexander L.
- Watkins, William W., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing polyamide photographic emulsions. 2,420,455; May 13.
- Weatherhead Company, The, assignee: *See*—
  - Paquin, Joseph N.
- Wehr, Alois L.: *See*—
  - Hutchison, Miller R., Jr., and Wehr.
- Westinghouse Electric Corporation, assignee: *See*—
  - Leonard, Merrill G., and Guldesh.
  - Meyer, Charles A., and Bradbury.
- Wharam, John J., Dearborn, and M. Jovanovich, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Concentric steering column gearshift support construction. 2,420,333; May 13.
- White, Curtice C., Johnsville, Pa., assignor to The Electric Storage Battery Company. Fabric envelope for storage battery plates. 2,420,456; May 13.
- White, Gifford E., Hempstead, and R. C. Knowles, New York, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic tracking system. 2,420,334; May 13.
- White Sewing Machine Corporation, assignee: *See*—
  - Hohmann, Richard K.
- Whitner, Thomas C., Elizabeth, N. J., assignor to Chemical Laboratories, Inc. Drying oil coating compositions. 2,420,390; May 13.
- Whittaker, James L., Princeton, N. J., assignor to Radio Corporation of America. Electron computing device. 2,420,509; May 13.
- Willhauck, Augustus D., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting machine. 2,420,290; May 13.
- Wilson, Harlan L., San Diego, Calif. Toy airplane. 2,420,510; May 13.
- Wilson, John M., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Condition controlling apparatus. 2,420,578; May 13.
- Witherow, William P., assignee: *See*—
  - Henderson, Albert.
- Wittel, Otto, G. J. Koch, and J. L. Boon, assignors to Eastman Kodak Company, Rochester, N. Y. Instrument for testing and developing the stereoptic acuity of a person's eyes. 2,420,633; May 13.
- Wohler, Charles E., and L. G. Sherwood, assignors to Niagara Searchlight Company, Inc., Niagara Falls, N. Y. Electric lantern. 2,420,634; May 13.
- Woll, Harry J., Indianapolis, Ind., assignor to Radio Corporation of America. Indicator circuit for signals below audibility. 2,420,404; May 13.
- Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Apparatus for forming and assembling inner spring constructions. 2,420,511; May 13.
- Woller, Edward E., Kenosha, Wis., assignor to Simmons Company. Forming and assembling inner spring constructions. 2,420,512; May 13.
- Workman, Walter J., Chicago, Ill. Window seat. 2,420,635; May 13.
- Young, Charles J., Ardmore, Pa., assignor to Radio Corporation of America. Facsimile recorder. 2,420,457; May 13.
- Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,420,579; May 13.
- Yule, John A. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic masking. 2,420,636; May 13.
- Z & W Machine Products, Inc., assignee: *See*—
  - Kelley, Zar W.
- Zienty, Ferdinand B.: *See*—
  - Kyrides, Lucas P., Zienty, and Stephenson.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Beverage production. H. W. and A. A. Peters. Re. 22,879; May 13.
Gas burner. P. S. Harper and G. F. Turner. Re. 22,877; May 13.
Space in ships and the like, Utilization of cargo. R. B. Gray and J. C. De Weese. Re. 22,876; May 13.
Wool type fabric. W. S. Nutter. Re. 22,878; May 13.

LIST OF PLANT INVENTIONS

Rose plant. A. Naungayan. 736; May 13.

LIST OF DESIGN INVENTIONS

Ash tray. W. Trautner. 146,780; May 13.
Ash tray and cigarette holder, Combination. F. A. Lower. 146,770; May 13.
Blouse. H. Newman. 146,771–3; May 13.
Boot or similar article. P. D. Earl. 146,763; May 13.
Bracelet or similar article. M. Slater. 146,779; May 13.
Bracelet or the like. M. Chernow. 146,761; May 13.
Brooch or similar article. A. Katz. 146,769; May 13.
Clip or similar article. S. Finkelstein. 146,764; May 13.
Earring. G. Verrecchio. 146,781; May 13.
Earring or the like. M. Chernow. 146,762; May 13.
Figurine or the like. G. W. Phillips. 146,777; May 13.
Frame or the like, Mirror. F. H. Fisher. 146,765; May 13.
Holder, Tie. O. V. Anderson. 146,758; May 13.
Jewelry finding. C. Schraysshuen. 146,778; May 13.
Mixer, Drink. H. W. Zimmerman. 146,782; May 13.
Pin, Lapel. F. J. Pearsall. 146,775–6; May 13.
Razor, Disposable. A. D. Brown. 146,759; May 13.
Shoe. J. Henkel. 146,768; May 13.
Shoe or similar article, Man's sport. R. A. Parker. 146,774; May 13.
Suit. M. Frascino. 146,766; May 13.
Suit. J. Freedman. 146,767; May 13.
Tank, Portable developing. J. R. Carpenter. 146,760; May 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid alkylation of isoparafins. A. R. Goldsby. 2,420,369; May 13.
Adapter for cameras, Filter. G. G. Mills. 2,420,379; May 13.
Adhesive tape and use in plywood. H. C. Geen. 2,420,366; May 13.
Aircraft oxygen regulator. A. Huggenberger. 2,420,375; May 13.
Airplane body. J. M. Baer and A. H. Heineman. 2,420,292; May 13.
Airplane wing of variable area construction. A. C. Kraaymes. 2,420,433; May 13.
Air supply arrangement for hot air power plant furnaces, Multiple temperature. F. Nettel and J. Kreitner. 2,420,335; May 13.
Aldehyde condensations, Recovery of products from. H. A. Poitras, J. E. Snow, and S. A. De Crenzo. 2,420,496; May 13.
Alloys, Magnesium base. A. Beck, G. Siebel, and H. Vosskuhler. 2,420,293; May 13.
Amplifier, High-frequency continuous. A. L. Samuel. 2,420,342; May 13.
Anchor for winches, Cable. M. M. Hall. 2,420,594; May 13.
Anhydro hexitols, Etherified. K. R. Brown. 2,420,519; May 13.
Anti-tank mine actuator. J. M. King. 2,420,317; May 13.
Apparatus for coating aggregates. J. Giordano. 2,420,368; May 13.
Apparatus for dewaxing oils. E. M. Dons and O. G. Mauro. 2,420,418; May 13.
Apparatus for feeding granular material into a fluid stream. W. A. Thomas. 2,420,388; May 13.
Apparatus for forming and assembling inner spring constructions. E. E. Woller. 2,420,511; May 13.
Apparatus for heating ingots. F. A. Corbin and H. F. Netzhammer. 2,420,357; May 13.
Apparatus for washing cylinders. A. F. Cassin. 2,420,463; May 13.
Articles from plastic treated materials, Making. Le G. Daly. 2,420,522; May 13.
Artificial staple fibers, Fluffing up. N. B. Geer and L. W. Schatz. 2,420,367; May 13.
Asbestos dusting process and apparatus. L. C. Pharo. 2,420,495; May 13.
Automatic shutoff fuel nozzle with float controlled valve. D. Samiran and R. Fink. 2,420,341; May 13.
Automatic tracking system. G. E. White and R. C. Knowles. 2,420,334; May 13.
Balancing means for centrifugal machines. A. H. Gerhardt. 2,420,592; May 13.
Baling press. J. E. Branson. 2,420,413; May 13.
Basket, Heat-treating. C. H. Hill and H. I. Schneider. 2,420,428; May 13.
Bathtub, Telescopic. J. A. H. Siers. 2,420,448; May 13.
Binocular range estimating periscope operating on the coincidence principle. J. M. Strang. 2,420,506; May 13.
Blasting cap primer composition. W. F. Filbert. 2,420,306; May 13.
Blind, Venetian. R. Cusumano. 2,420,301; May 13.
Boiler feed-water system. R. F. Schaub. 2,420,624; May 13.
Bottle carrier. J. C. Lee. 2,420,603; May 13.
Bracket for crated stoves, Spacing. C. L. Hardwick. 2,420,425; May 13.
Brake: *See*—
  Drive shaft brake.
Brake beam safety hanger. C. L. Orr and H. W. Stertzbach. 2,420,337; May 13.
Brake for baby carriages, strollers and the like. A. M. Boudreau. 2,420,412; May 13.
Brassière. R. Freedman. 2,420,472; May 13.
Brassière. H. Gluckin. 2,420,593; May 13.
Brassière. J. E. Treadwell. 2,420,575; May 13.
Burner: *See*—
  Gas burner.
  Liquid fuel burner.
Butadiene by method of dehydration, Production of. W. J. Hale and H. Miller. 2,420,477; May 13.
Cabinet having interconnected closure and support for an ironer. L. Svensson. 2,420,508; May 13.
Cable distributing unit, Underground. W. C. Hasselhorn and R. M. Schultz. 2,420,478; May 13.
Camera, Course-recording. J. Rabinow. 2,420,339; May 13.
Camera, Detective. J. Stolber. 2,420,628; May 13.
Can puncturing and spout forming device. E. A. Schigut. 2,420,402; May 13.
Can unloading apparatus. J. Albertoli. 2,420,343; May 13.
Cap. J. L. Sewell. 2,420,569; May 13.
Cap and scarf, Combination. T. and L. E. Lehman. 2,420,378; May 13.
Carrier: *See*—
  Bottle carrier.
Carton divider. F. C. Bowdoin and H. L. Medlock. 2,420,460; May 13.
Casting, Centrifugal. D. E. Breakefield and J. L. Martin. 2,420,298; May 13.
Catalyst and dehydrogenation of hydrocarbons. P. W. Reynolds, A. W. C. Taylor and J. G. M. Bremner. 2,420,563; May 13.
Catalytic reduction of organic chloro-nitro compounds. J. A. Robertson. 2,420,382; May 13.
Cellulose fibers, Esterifying. A. Ruperti. 2,420,499; May 13.
Center punch, Combination. T. Fischer. 2,420,365; May 13.
Centrifugal pump. I. M. Prokofieff. 2,420,401; May 13.
Charts for weighing scales. H. K. Leonard. 2,420,639; May 13.
Checkers, Invasion. J. J. Janik. 2,420,482; May 13.
Chemical reactions in the presence of finely-divided solids, Carrying out. C. E. Jahnig. 2,420,542; May 13.
Chromium compounds, Production of. A. R. Fraser. 2,420,532; May 13.
Cigarette making device, Home-style. J. H. Blanchard. 2,420,459; May 13.
Circuit: *See*—
  Coupling circuit.
  Radio direction finding circuit.
Circuit and apparatus for portable electrical devices, Translating. D. H. Mitchell. 2,420,609; May 13.
Circuit for radio receivers, Power reduction. G. M. Brown. 2,420,518; May 13.
Circuit for signals below audibility, Indicator. H. J. Woll. 2,420,404; May 13.
Cleaning process, Electrolytic. R. W. Kingerley, Jr. 2,420,602; May 13.
Closure, Handhole. M. G. Leonard and J. A. Guidosh. 2,420,318; May 13.
Closure, Ventilated. L. Bishop. 2,420,297; May 13.
Clutch mechanism of knitting machines. F. E. Deans. 2,420,524; May 13.
Coating machine for collapsible tubes. F. Remington and R. A. Tartaglia. 2,420,620; May 13.
Coffee extract, Manufacture of concentrated. E. Palmer and D. S. Schwartz. 2,420,615; May 13.
Colon therapy apparatus. R. W. De Welles. 2,420,586; May 13.
Comb and case therefor. E. S. Tupper. 2,420,576; May 13.
Combination lock. S. S. Karavia. 2,420,484; May 13.
Compressor. H. W. Harrer. 2,420,426; May 13.
Computing device, Electron. J. L. Whittaker. 2,420,509; May 13.
Concrete members, Precast reinforced. A. Henderson. 2,420,427; May 13.
Cone jacket forming machine. J. Cutler. 2,420,417; May 13.
Control device. K. M. Mackay and W. J. Sims. 2,420,548; May 13.
Control mechanism for machine tools, Work. B. S. T. Bishop and F. A. Bicknell. 2,420,296; May 13.
Control system. E. S. Bristol. 2,420,415; May 13.
Control system, Electric. F. D. Van Lew. 2,420,577; May 13.
Controlling apparatus, Condition. J. M. Wilson. 2,420,578; May 13.
Cornhusking unit for multiple row corn pickers, Dual. A. E. W. Johnson and B. M. Hyman. 2,420,543; May 13.
Corrosive action of Friedel-Crafts type catalysts, Reduction of. W. R. Smith and W. F. Glassmire. 2,420,386; May 13.
Counting device. J. G. Everhart. 2,420,590; May 13.
Coupling: *See*—
  Metal rolling mill universal spindle coupling.
Coupling circuit. P. S. Carter. 2,420,354; May 13.
Cover for motor vehicle brake casings, Inspection hole. A. Burrows. 2,420,353; May 13.
Crane, Shuttle. F. C. Harris. 2,420,595; May 13.
Creaser, Trouser. A. J. Meyer. 2,420,493; May 13.

Cultivator, Rotary. J. B. Schug. 2,420,500; May 13.
Cupreous powder and making the same. D. S. Hubbell. 2,420,540; May 13.
Curtain. N. S. Hicks. 2,420,479; May 13.
Cutting element for ice cubing machines. W. C. Pfeil. 2,420,400; May 13.
Cylinders, Constructing air-cooled. A. Vang. 2,420,332; May 13.
Damping device for remote control apparatus. A. P. Davis and G. Agins. 2,420,523; May 13.
Decorative effect on plastic, Producing. E. Norman. 2,420,614; May 13.
Degasification. R. E. Compa. 2,420,356; May 13.
Dehydration of foods by means of hydrophilic liquids. J. D. Brandner and R. M. Goepp, Jr. 2,420,517; May 13.
Δ^{16}-pregnenediols and producing the same. R. E. Marker. 2,420,490; May 13.
Dental apparatus. R. W. Page. 2,420,338; May 13.
Dental restoration, including artificial teeth and dentures. M. S. Shapiro. 2,420,570; May 13.
Design formation on colored paper. H. Orchard. 2,420,336; May 13.
Device for mixing gas and air. E. Rathbun. 2,420,562; May 13.
Dies, Making. D. E. Dasher. 2,420,359; May 13.
Dirt scraping and hauling vehicle. E. H. Lichtenberg and F. B. Robb. 2,420,319; May 13.
Disazo compounds. G. J. Taylor. 2,420,630; May 13.
Dis-azo dyes for color photography. G. J. Taylor. 2,420,631; May 13.
Distillation process bodying counter flow of solid heating medium, Destructive. E. A. Johansson. 2,420,376; May 13.
Diver's light. J. F. Ekleberry. 2,420,362; May 13.
Drill press. J. A. Cupier and C. W. Truxell, Jr. 2,420,521; May 13.
Drive gear mechanism. R. A. Beckwith. 2,420,294; May 13.
Drive shaft brake. F. T. Dixon. 2,420,526; May 13.
Driving mechanism. W. J. Morrill. 2,420,552; May 13.
Driving mechanism, Torque limiting. W. J. Morrill. 2,420,553; May 13.
Dyestuffs, Acrylamino-anthraquinone vat. P. Sutter and W. Kern. 2,420,453; May 13.
Ear wire for earrings. A. Francis. 2,420,531; May 13.
Electrodepositing copper upon steel wire. O. E. Adler. 2,420,291; May 13.
Electron discharge device. G. H. P. Alma and B. G. Dammers. 2,420,345; May 13.
Engine: *See—*
  Two-cycle engine.
Engines, Operating internal combustion. F. Nettel. 2,420,325; May 13.
Fabric: *See—*
  Wool type fabric.
Fabric envelope for storage battery plates. C. C. White. 2,420,456; May 13.
Facsimile recorder. C. J. Young. 2,420,457; May 13.
Fastening inserting machine. A. D. Willhauck. 2,420,290; May 13.
Feeler controlled filling replenishing mechanism. S. J. Geddings. 2,420,473; May 13.
Ferrosilicon, Producing. P. H. Royster. 2,420,564; May 13.
Film, Antistatic photographic. F. W. H. Mueller. 2,420,610–11; May 13.
Filter construction. S. W. Briggs. 2,420,414; May 13.
Finder and punch, Center. L. P. Brown. 2,420,350; May 13.
Fire alarm, Fusible. F. W. Jackson and H. M. Nacey. 2,420,481; May 13.
Fish lure. J. L. Spenard. 2,420,451; May 13.
Fitting. J. N. Paquin. 2,420,617; May 13.
Fixture, Tap grinding. L. F. Southwick and R. R. Holt. 2,420,572; May 13.
Flame arrester. P. C. Jurs. 2,420,599; May 13.
Flange jack. M. M. Morgan. 2,420,438; May 13.
Flashlight. W. C. Crimmins. 2,420,585; May 13.
Flask, Dental. S. A. Leader. 2,420,545; May 13.
Fluid pressure control valve. R. L. Hall. 2,420,313; May 13.
Fluids with cation active resins, Purification of. J. R. Dudley. 2,420,419; May 13.
Foaming in bottle-cleaning apparatus, Preventing. P. M. Kallusky. 2,420,600; May 13.
Follow-up system, Electric. S. J. Smith. 2,420,501; May 13.
Food products, Casing or packaging perishable. L. A. Goodman. 2,420,310; May 13.
Footwear protector. D. Rabinovitz. 2,420,618; May 13.
Forming hollow objects, Method and apparatus for. D. G. Rempel. 2,420,443; May 13.
4,4′-dichlorodiphenyl 1,1,1-trichloroethane dispersed in polyvinyl acetate. G. E. Biehn and J. E. Kirby. 2,420,295; May 13.
Frequency regulator. W. C. Grabau. 2,420,312; May 13.
Friction composition and preparing the same. H. H. Greger and S. W. Briggs. 2,420,475; May 13.
Froth-flotation concentration of sylvite from silvinite ores. E. W. Greene, J. R. Sherertz, and A. T. Cole. 2,420,476; May 13.
Fuel injection apparatus, Liquid. R. Miller. 2,420,550; May 13.
Furnaces, Operating blast. S. P. Kinney. 2,420,398; May 13.
Fuse. H. J. Nichols. 2,420,612; May 13.
Fuse, Mechanical time. J. E. Middlemiss. 2,420,324; May 13.
Gage and jointer, Saw-tooth. S. De Walt. 2,420,468; May 13.
Gain-controlling system for seismographs. E. J. Shimek and G. M. Groenendyke. 2,420,571; May 13.
Garment. J. W. Lewis, Jr. 2,420,486; May 13.
Garment hanger. C. H. Nelson. 2,420,440; May 13.
Gas analyzer. C. Johnson. 2,420,430; May 13.
Gauge: *See—*
  Knife gauge.
Gel-forming algin composition and method. J. I. Gates. 2,420,308; May 13.
Gem grinding devices. J. H. Spira. 2,420,502; May 13.
Generator: *See—*
  Impulse generator.
Generator mechanism, Signalling. R. K. Hellman. 2,420,638; May 13.
Geneva movement, Magnetic repulsion. L. I. Mendelsohn. 2,420,607; May 13.
Governor, Motor. G. M. Deming. 2,420,360; May 13.
Hair drying means provided with silica gel. E. J. Culligan and G. H. Klumb. 2,420,358; May 13.
Hand abrader. A. W. Jensen. 2,420,397; May 13.
Handling of fish meal and the like. J. J. Dorsey. 2,420,393; May 13.
Hanger: *See—*
  Brake beam safety hanger.
  Garment hanger.
Harmonica. F. Sonnen. 2,420,450; May 13.
Harrow, Disk. W. F. McMahon. 2,420,437; May 13.
Harvester, Corn. I. E. Dorschner. 2,420,470; May 13.
Heating apparatus, Electrical. J. D. Griffin. 2,420,535; May 13.
Heterocyclic nitrogen base mixtures, Resolution of. K. H. Engel. 2,420,529; May 13.
High-frequency resonator-tube. W. W. Hansen. 2,420,314; May 13.
Holder: *See—*
  Paint brush holder.
Holder positioning and extracting device. R. K. Hohmann. 2,420,536; May 13.
Hollow structures, Forming laminated. L. J. Marhoefer, W. A. Taylor, and E. L. Vidal. 2,420,488; May 13.
Hood, Automatic shake-out. E. A. Carsey and W. G. Stalker. 2,420,520; May 13.
Hormone intermediates and preparation of the same, Steroidal. R. E. Marker. 2,420,489; May 13.
Hub construction. P. F. Hackethal. 2,420,424; May 13.
Hydraulic transmission and clutch. A. L. Donahew and W. H. De La Vergne. 2,420,305; May 13.
Hydrocarbon oils, Catalytic cracking of. E. J. Gohr, D. L. Campbell, J. M. Graham, and W. I. Thompson. 2,420,534; May 13.
Hydrocarbon oils, Cracking of. C. W. Tyson. 2,420,632; May 13.
Hydrocarbons, Catalytic conversion of. J. C. Munday. 2,420,558; May 13.
Hydrocarbons, Polymerization of. W. B. Shanley. 2,420,327; May 13.
Impeller pump. A. V. Mueller. 2,420,557; May 13.
Implement stabilizing and lifting structure, Combined. A. G. Evans. 2,420,530; May 13.
Impulse generator. S. Darlington. 2,420,302; May 13.
Impulse generator. W. M. Goodall. 2,420,309; May 13.
Indicator for free-piston units. A. Kalitinsky. 2,420,483; May 13.
Indicator or recorder, Vacuum tube voltage. E. T. Howes. 2,420,596; May 13.
Induction motor follow-up apparatus, Self-synchronously controlled. A. P. Davis and G. Agins. 2,420,467; May 13.
Injection timing, Electrical. A. Kalitinsky. 2,420,432; May 13.
Inner-spring unit assembly machine. H. T. Groves. 2,420,423; May 13.
Insect repellent composition. B. V. Travis and H. A. Jones. 2,420,389; May 13.
Instrument for testing and developing the stereoptic acuity of a person's eyes. O. Wittel, G. J. Koch, and J. L. Boon. 2,420,633; May 13.
Interfolding machine. J. J. Deloye. 2,420,525; May 13.
Intermittent mechanism. T. I. Ress. 2,420,444; May 13.
Iron, Electrodeposition of. W. B. Stoddard, Jr. 2,420,403; May 13.
Jack: *See—*
  Flange jack.
  Pump jack.
Keyed turnbuckle device. A. K. Espenas. 2,420,363; May 13.
Kit, Line throwing gun. J. W. Baldwin. 2,420,347; May 13.
Knife gauge. S. Doniger. 2,420,469; May 13.
Lamp: *See—*
  Portable lamp.
Lantern, Electric. C. E. Wohler and L. G. Sherwood. 2,420,634; May 13.
Lens structure, Electron. C. H. Bachman. 2,420,514; May 13.

Lever control, Quadrant. C. W. Mott. 2,420,555; May 13.
Light: *See—*
  Diver's light.
Liquid fuel burner. J. H. Jackson. 2,420,598; May 13.
Liquids, Clarification of aqueous. J. W. Ryznar. 2,420,340; May 13.
Lock: *See—*
  Combination lock.
Loud-speaker announcing system. C. H. Capp. 2,420,461; May 13.
Lubricant for processing metals. J. H. Shipp, O. C. Bacon, and C. J. Pedersen. 2,420,329; May 13.
Lubricant for processing metals. J. H. Shipp and C. J. Pedersen. 2,420,328; May 13.
Magneto, High-tension. O. L. Bachman. 2,420,407; May 13.
Magnetometer. L. L. Antes. 2,420,580; May 13.
Malt sprouts for use in bakeries, Treatment of. R. W. Selman, Jr., and H. S. Myers. 2,420,567; May 13.
Masking, Photographic. J. A. C. Yule. 2,420,636; May 13.
Measuring and controlling system. A. J. Hornfeck. 2,420,539; May 13.
Measuring apparatus, Electrical. C. S. Tegge. 2,420,574; May 13.
Meat treatment. H. H. McKee, N. J. Dziedzic, and C. L. Straeten. 2,420,549; May 13.
Mercaptans from petroleum naphtha, Removal of. M. C. K. Jones. 2,420,544; May 13.
Metal handling. F. M. Stalnaker and P. P. Shaver. 2,420,625; May 13.
Metal rolling mill universal spindle coupling. R. G. Stewart, Sr. 2,420,573; May 13.
Microscope, Electron. S. Ramo. 2,420,560; May 13.
Microscope structure, Electron. C. H. Bachman. 2,420,561; May 13.
Milling machine, Profile. J. E. Lovely. 2,420,547; May 13.
Mixing and molding device. O. M. Palmer. 2,420,616; May 13.
Mixing device. T. B. Owens. 2,420,494; May 13.
Moccasin and making it, Welted. J. A. Cordeau. 2,420,466; May 13.
Moistening apparatus for knitting yarns. W. Coleman. 2,420,355; May 13.
Motor compressor unit for refrigeration apparatus, Sealed motor. F. I. Rataiczak. 2,420,442; May 13.
Motor for power-driven saws, Pulsator-type fluid. D. P. Andrews, B. D. Heeger, and A. P. Smith. 2,420,406; May 13.
Mounting: *See—*
  Resilient mounting.
Multiple pressure pump. E. L. Bivans, P. K. Beemer, and P. H. Montgomery. 2,420,409; May 13.
n-Butyraldimine, Preparing. M. R. Brimer, J. E. Magoffin, and H. Von Bramer. 2,420,584; May 13.
Navigation instrument. J. L. Boriff. 2,420,348; May 13.
Necktie, Preformed. A. F. Taborski. 2,420,387; May 13.
Non-skid device. E. A. Dennison. 2,420,361; May 13.
Oil coating compositions, Drying. T. C. Whitner. 2,420,390; May 13.
Optical reticle. B. Stechbart. 2,420,503; May 13.
Optical systems comprising a correction element, Schmidt's. A. Bouwers. 2,420,349; May 13.
Orienting apparatus. C. H. Schadel. 2,420,447; May 13.
Pad: *See—*
  Shoulder pad.
Paint brush holder. H. C. Long. 2,420,487; May 13.
Paste applier having a serrated edge, Dehorning. C. C. and H. F. Bowman. 2,420,582; May 13.
Pavement repairing and the like. W. Blankner. 2,420,410; May 13.
Pedal assembly, Rudder. B. G. Eaton, Jr., W. O. Meyer, C. H. Cannon, Jr., and L. G. Raiche. 2,420,528; May 13.
Pedal operated aquatic vehicle. C. W. Gilliam. 2,420,422; May 13.
Petroleum oil compositions. A. G. Rocchini and C. B. Pattinson, Jr. 2,420,446; May 13.
Photographic emulsions, Preparing polyamide. W. W. Watkins. 2,420,455; May 13.
Piston. E. B. Graham. 2,420,474; May 13.
Plate, Glass surface. W. J. Dykoski. 2,420,637; May 13.
Plow, Snow. N. B. Frame and J. W. Keim. 2,420,591; May 13.
Plural way valve. J. R. Dunnihoo. 2,420,588; May 13.
Poison, Rodent and insect. E. F. Sennewald. 2,420,568; May 13.
Pontoon. L. R. Shep. 2,420,384; May 13.
Portable apparatus for therapeutic irrigation. H. C. Stratton. 2,420,507; May 13.
Portable lamp. F. H. Fristoe. 2,420,307; May 13.
Power supply for traffic controlling system. C. L. Swanton. 2,420,629; May 13.
Preserving peeled white potatoes. R. F. Matarazzo. 2,420,322; May 13.
Press: *See—*
  Baling press.
  Drill press.
  Transfer molding press.
Pressure governor control mechanism. B. D. Barton. 2,420,515; May 13.
Pressure regulation and control apparatus, Fluid. C. W. Mott. 2,420,554; May 13.
Pressure relief valve. J. K. Hamilton. 2,420,370; May 13.
Progesterone, Preparing. R. E. Marker and E. J. Lawson. 2,420,491; May 13.
Projector and enlarger, Perspective. S. H. Hine. 2,420,316; May 13.
Protective device, Electric overload. J. B. Cataldo and W. E. Stilwell, Jr. 2,420,300; May 13.
Protector: *See—*
  Footwear protector.
Protractor for use in navigation. H. J. Menge. 2,420,608; May 13.
Pulse producing system. A. F. Bischoff. 2,420,516; May 13.
Pump: *See—*
  Centrifugal pump.
  Impeller pump.
  Multiple pressure pump.
  Self-priming centrifugal pump.
Pump. A. V. Mueller. 2,420,556; May 13.
Pump jack. G. Jacobs. 2,420,541; May 13.
Pump shut-off casing for pump removal, Booster. R. G. Holt and J. Martin. 2,420,315; May 13.
Pump with pressure loaded bushing. J. M. Roth and J. A. Lauck. 2,420,622; May 13.
Radio beacon, Frequency modulated rotating. W. G. McConnel. 2,420,605; May 13.
Radio direction finding circuit. G. B. Greene. 2,420,395; May 13.
Railway traffic controlling apparatus. H. S. Young. 2,420,579; May 13.
Range and direction finder, Aircraft. M. Morrison. 2,420,439; May 13.
Rangefinder, Nonoptical radioscope. E. R. Behn. 2,420,408; May 13.
Recoil absorber for guns. W. M. Marseilles. 2,420,492; May 13.
Reel threading device, Advancing. A. E. Guenther and L. B. Molyneux. 2,420,537; May 13.
Refrigeration unit, Engine driven. A. W. Scarratt. 2,420,566; May 13.
Regulator: *See—*
  Aircraft oxygen regulator.
  Frequency regulator.
Releasing device for typewriters, Type bar. C. Rizzuto. 2,420,445; May 13.
Remote control apparatus. R. Stevenson and A. W. Keema. 2,420,627; May 13.
Remote control system. L. V. Lewis. 2,420,546; May 13.
Resilient mounting. N. B. Strachovsky. 2,420,452; May 13.
Retort tank or like container. E. A. Blount, Sr. 2,420,411; May 13.
Roofing or surfacing material. S. L. Eason. 2,420,421; May 13.
Sand reclaiming system and method, Foundry. A. C. Christensen and J. J. Dvorak. 2,420,392; May 13.
Screw threads, Grinding. G. Stewart. 2,420,504; May 13.
Seat: *See—*
  Window seat.
Seating and facing tool. Z. W. Kelley. 2,420,601; May 13.
Self-priming centrifugal pump. A. C. Durdin, Jr. 2,420,420; May 13.
Self-threading device for projectors. M. Dietrich. 2,420,587; May 13.
Servomotor with rotating cylinder and fluid transfer means adapted therefor, Hydraulic. R. Stevenson. 2,420,626; May 13.
Sewage disposal. J. O'Donnell. 2,420,326; May 13.
Shield for external press type electron tubes, Conductive. N. P. Gowell. 2,420,311; May 13.
Shield for welders, Head. J. F. Rakos. 2,420,619; May 13.
Shoemaking. A. Cocozella. 2,420,464–5; May 13.
Shoulder pad. N. Breslow, J. Stein, and H. Kneitel. 2,420,583; May 13.
Shutter, Inexpensive camera. M. R. Hutchison, Jr., and A. L. Wehr. 2,420,597; May 13.
Signal: *See—*
  Vehicle deceleration signal.
Smoke, Producing. H. E. Britt. 2,420,416; May 13.
Socket assembly. B. E. Ricks. 2,420,621; May 13.
Spanner wrench. C. H. Barker. 2,420,458; May 13.
Speed control of electric motors, Remote. J. L. Anderson. 2,420,346; May 13.
Spent bullet trap. D. T. Diem. 2,420,304; May 13.
Spoon, Dentist's measuring. A. H. Stith. 2,420,505; May 13.
Spring constructions, Forming and assembling inner. E. E. Woller. 2,420,512; May 13.
Stable frequency conversion system. H. de France. 2,420,303; May 13.
Steering column gearshift support construction, Concentric. J. J. Wharam and M. Jovanovich. 2,420,333; May 13.
Stitch regulating and reversing mechanism for sewing machines. M. G. Ivandick. 2,420,480; May 13.
Stop motion mechanism. C. W. Arrowwood. 2,420,513; May 13.
Stop, Resilient zero. E. F. Dyson. 2,420,527; May 13.
Stove, Hot blast. C. G. Hogberg. 2,420,373; May 13.

Strap, Watch. E. Lackow. 2,420,435; May 13.
Strip, Brightening tinned. C. G. Jones. 2,420,377; May 13.
Sulfonyl chlorides from olefins, Production of. J. Ross. 2,420,383; May 13.
Supporting device. R. J. Arnold. 2,420,391; May 13.
Switch operating mechanism. I. W. Paterson. 2,420,441; May 13.
Switch with kinetic energy dissipating means, Electrical. S. H. Kast. 2,420,485; May 13.
Switching device. H. E. Somes. 2,420,449; May 13.
Swivel harp for lamp shades. D. Engel. 2,420,471; May 13.
Take-up mechanism. R. K. Hohmann. 2,420,538; May 13.
Tape, Adhesive wrapping. O. H. Leidy. 2,420,604; May 13.
Temperature control for internal-combustion engines. M. Mallory. 2,420,436; May 13.
Temperature controlling device. H. S. Burling. 2,420,352; May 13.
Tester for therapeutic masks, Leak. J. A. Heldbrink. 2,420,372; May 13.
Textile articles, Synthetic. E. W. Rugeley, T. A. Feild, Jr., and J. L. Petrokubi. 2,420,565; May 13.
Thionyl chloride, Producing. W. H. Salzenberg and M. Sveda. 2,420,623; May 13.
Thread drier having radiant heater and automatic control means. F. H. M. New. 2,420,399; May 13.
Timer, Injection. A. Kalitinsky. 2,420,431; May 13.
Tool: *See—*
  Seating and facing tool.
Torque converter and fluid coupling, Rotary hydraulic. J. Jandasek. 2,420,429; May 13.
Torsional testing apparatus. F. Slusher. 2,420,385; May 13.
Towel and garment, Beach. V. C. Alexander. 2,420,344; May 13.
Toy airplane. H. L. Wilson. 2,420,510; May 13.
Transfer mechanism. A. A. Campbell. 2,420,299; May 13.
Transfer molding press. A. L. Alves. 2,420,405; May 13.
Transmission for steam or internal-combustion engines. L. G. Bacon. 2,420,581; May 13.
Transmission line, Artificial. R. B. Nelson. 2,420,559; May 13.
Transmission system, Pulse multiplex. W. D. Houghton. 2,420,374; May 13.
Trap: *See—*
  Spent bullet trap.
Trap. D. B. Hampton. 2,420,371; May 13.
Trim ring for vehicle wheels, Ornamental. G. A. Lyon. 2,420,320; May 13.
Trimming mechanism. V. J. Sigoda. 2,420,331; May 13.
Tripentaerythritol, Purification of. H. A. Poitras and J. E. Snow. 2,420,497; May 13.
Tube: *See—*
  High-frequency resonator-tube.
Turnbuckle, Telescoping. A. K. Espenas. 2,420,364; May 13.
2-amino-5-alkenyl-1,3,4 thiadiazoles and making the same. L. P. Kyrides, F. B. Zienty, and R. W. Stephenson. 2,420,434; May 13.
Two-cycle engine. E. P. R. Viel. 2,420,454; May 13.
Tying machine. J. L. Pojman. 2,420,498; May 13.
Vacuum cooler and cleaning the same. A. H. Heineman. 2,420,396; May 13.
Valve: *See—*
  Fluid pressure control valve.
  Plural way valve.
  Pressure relief valve.
Valve. J. R. Dunnihoo. 2,420,589; May 13.
Valve for hydraulic circuits, Unloading. W. M. Gilman. 2,420,394; May 13.
Vehicle: *See—*
  Dirt scraping and hauling vehicle.
  Pedal-operated aquatic vehicle.
Vehicle deceleration signal. N. L. Brown. 2,420,351; May 13.
Vinyl chloride copolymer and making it. L. C. Shriver and G. H. Fremon. 2,420,330; May 13.
Walk for railway house cars. G. G. Gilpin. 2,420,533; May 13.
Weaving on looms with gripper shuttles, Method and device. A. Moessinger. 2,420,380; May 13.
Wheel and coulter assembly, Gauge. J. Morkoski. 2,420,551; May 13.
Wheel suspension, Knee action rear. J. J. Carr. 2,420,462; May 13.
Wheel trim. G. A. Lyon. 2,420,321; May 13.
Window seat. W. J. Workman. 2,420,635; May 13.
Wing-mounted jet-propulsion system with controllable discharge outlet. C. A. Meyer and D. Bradbury. 2,420,323; May 13.
Workholder for use in grinding and polishing transmission surfaces of roof prisms. J. H. McLeod and J. R. Turner. 2,420,606; May 13.
Work-marking assembly for machine tools. E. T. Nord. 2,420,613; May 13.
Wrench: *See—*
  Spanner wrench.
Zein composition, Plasticized. L. D. Myers. 2,420,381; May 13.

CLASSIFICATION OF PATENTS

ISSUED MAY 13, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

Note.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Classification of Designs

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PATENT SUITS

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,551,314, H. K. Krantz, Thermal cutout; 1,675,322, C. E. Anderson, Circuit breaker; 1,749,536, J. J. Hogan, Switch; 2,073,103, 2,083,104, C. H. Hodgkins, Circuit breaker, D. C., E. D. Mo. (St. Louis), Doc. 344, *Westinghouse Electric & Mfg. Co.* v. *Frank Adam Electric Co.* Dismissed Mar. 17, 1947.

1,675,322. (See 1,551,314.) 1,749,536. (See 1,551,314.)

1,879,003, G. A. Alles, Salts of 1-phenyl-2-aminopropane, D. C., E. D. Mich., S. Div., Doc. 6560, *Smith, Kline & French Laboratories* v. *Stern Drug Co. et al.* Consent judgment for plaintiff Mar. 31, 1947.

1,906,260, J. T. Gibbs, Games, D. C., S. D. Calif., C. Div., Doc. 5566–Y, *J. T. Gibbs* v. *T. C. Faulkner.* Claims 3, 6, 7, 8, 9, and 10 held valid and infringed; injunction Mar. 31, 1947.

1,952,498. (See 2,349,620.)

1,991,455, C. Gottwald, Conduit and conduit system; 2,378,214, same, Expansion means; 2,050,968, Gottwald & McLeish, Conduit construction; 2,360,067, W. S. McLeish, Anchor, filed Mar. 21, 1947, D. C., N. D. Calif., S. Div., Doc. 27017–R, *The Ric-Wil Co.* v. *Durant Insulated Pipe Co., Inc., et al.*

2,050,968. (See 1,991,455.) 2,073,103. (See 1,551,314.)

2,083,104. (See 1,551,314.) 2,128,141. (See 2,349,620.)

2,144,600, R. S. Koonce, Method of and apparatus for loading heavy tools, filed Mar. 11, 1947, D. C., W. D. Va. (Danville), Doc. 183, *Transport Apparatus & Service Co.* v. *Fleming's Transfer.*

2,169,952, E. D. Holmes, Proportional mixing scale, D. C., N. D. Ga. (Atlanta), Doc. 2432, *The Sherwin Williams Co.* v. *Zac-Lac Paint & Lacquer Co.* Decree for plaintiff, injunction as to claim 1, Apr. 3, 1947.

2,180,130, Des. 120,232, Z. Swanson, Musical instrument; Des. 112,623, same, Musical instrument similar to an ocarina; 2,209,427, same, Musical instrument for playing bugle calls; Des. 115,512, C. E. Barber, same, D. C., N. D. Ill., E. Div., Doc. 46c1121, *H. S. Grossman et al.* v. *Chicago Musical Instrument Co. et al.* On stipulation cause dismissed with prejudice Mar. 7, 1947.

2,209,427. (See 2,180,130.)

2,215,695, J. Ginsberg, Merchandise shipping container, D. C., S. D. N. Y., Doc. 27/253, *J. Ginsberg* v. *Railway Express Agency, Inc., et al.* Judgment dismissing complaint for non-infringement Apr. 4, 1947.

2,237,961. (See 2,349,620.) 2,237,962. (See 2,349,620.)

2,256,212, A. R. Morrison, Inhalator, filed Apr. 3, 1947, D. C., S. D. Calif. (Los Angeles), Doc. 6698–PH, *T. A. Harrigan et al.* v. *G. T. Davisson et al.*

2,256,711. (See 2,349,620.)

2,265,637, M. Ferris, High frequency measuring apparatus and method, D. C. N. J. (Newark), Doc. 3010, *Measurements Corp.* v. *Ferris Instrument Corp.* Judgment favor plaintiff, dismissing counterclaims, and holding claim 3 invalid Apr. 3, 1947.

2,283,363. (See 2,349,620.) 2,289,495. (See 2,349,620.)

2,298,373. (See 2,349,620.)

2,305,890, J. H. Moore, Composite picture, D. C., S. D. N. Y., Doc. 40/498, *John Hudson Moore, Inc.,* v. *Parfum L'Orle, Inc.* Consent order of discontinuance (notice Apr. 1, 1947).

2,344,215, Soling & Pownall, Refrigeration, filed Apr. 2, 1947, D. C. Del., Doc. 1021, *M. B. Goddard* v. *S. B. Soling et al.*

2,349,620, Hansen & Hurst, Method of fabricating rotors; 2,298,373, same, Slow speed synchronous motor; 2,289,495, same, Self-starting synchronous electrical motor; 2,283,363, same, Slow speed self-starting synchronous motor; 2,256,711, same, Slow speed synchronous motor; 2,237,962, same, Method for making motor rotors; 2,237,961, same, Rotor; 2,128,141, same, Synchronous motor; 1,952,498, W. L. Hansen, Electric motor, D. C., S. D. Ohio, W. Div., Doc. 1471, *Hansen Mfg. Co., Inc.,* v. *The Lackner Co., Inc.* Consent decree holding patents valid and infringed; injunction Mar. 31, 1947.

2,360,067. (See 1,991,455.) 2,370,633. (See 1,991,455.)

2,378,214. (See 1,991,455.)

Des. 112,623. (See 2,180,130.)

Des. 115,512. (See 2,180,130.)

Des. 120,232. (See 2,180,130.)

NOTICES

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,304,256, L. W. Huebel, Treatment of well drilling fluids, decided February 26, 1947, claims 1, 2, 3, 4, 5, 6, 7, 8 and 9.

Pat. 2,350,347, R. S. Gaugler, Refrigerating apparatus, decided February 26, 1947, claim 12.

Pat. 2,369,892, L. L. Grencker, Destructible hollow forms, decided February 28, 1947, claim 1.

Pat. 2,377,693, W. S. Johnston, Fishing and fish processing ship, decided March 28, 1946, claims 1, 6, 7 and 8.

Pat. 2,392,701, L. C. Sanders, Adjustable friction and take-up device for screw stems in threaded bearings, decided April 1, 1947, claims 1, 2, 3, 4, and 5.

Pat. 2,404,971, J. R. Mahoney and H. J. Bichsel, Control circuits, decided April 8, 1947, claims 1 and 6.

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Adjudicated Patents

(D. C. N. Y.) Jungersen patent, No. 2,118,468, for a method of casting articles of intricate design, *Held* invalid. *Jungersen* v. *Baden,* 69 F. Supp. 922; 72 USPQ 426.

(C. C. A. Ohio) Hunt patent, No. 2,300,157, for a feather-picking apparatus, claims 2, 7, 10, 12, 17, and 19 *Held* valid and infringed; claims 3 and 14 *Held* valid but not infringed; claim 16 *Held* invalid. *Campbell* v. *Mueller,* 159 F.(2d) 803; 72 USPQ 295.

Disclaimers

Re. 22,723.—*Edward E. Kleinschmidt,* Highland Park, Ill. Automatic Message Exchange System. Patent dated Feb. 19, 1946. Disclaimer filed Apr. 14, 1947, by the assignee, *Teletype Corporation.*

Hereby enters this disclaimer to claims 21, 24, 63, 64, 65, 66, 191, 194 and 195 of said patent.

2,362,690.—*Ludwig J. Fichter,* Dayton, Ohio, and *Bertram A. Schwarz;* Kokomo, Ind. Tuning Mechanism. Patent dated Nov. 14, 1944. Disclaimer filed Apr. 12, 1947, by the inventors; the assignee, *General Motors Corporation,* joining in.

Hereby enter this disclaimer to claims 9 and 10 in said specification.

Interference Notices

U. S. Patent Office, *Washington, D. C., Apr. 18, 1947.*

Chas. Douglis-Mack Co. Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Rosenbloom, Inc., 12–14 North Paca Street, Baltimore 1, Md., for registration of a trade-mark and trade-marks registered March 22, 1927 and December 17, 1929, No. 225,465 and No. 265,219, respectively, to Chas. Douglis-Mack Co. Inc., 826 Broadway, New York, N. Y., and the notice of such declaration sent by registered mail to said Chas. Douglis-Mack Co. Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Chas. Douglis-Mack Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., Apr. 18, 1947.*

Sultzer-Henderson Co. Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Rosenbloom, Inc., 12–14 North Paca Street, Baltimore 1, Md., for registration of a trade-mark and trade-mark registered March 22, 1927, No. 225,628, to Sultzer-Henderson Co. Inc., 64–70 W. 36th St., New York, N. Y., and the notice of such declaration sent by registered mail to said Sultzer-Henderson Co. Inc. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Sultzer-Henderson Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. Patent Office, *Washington, D. C., Apr. 18, 1947.*

Max Krakow, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Walter H. McKenna & Co., Inc., 700 Prairie Ave., Providence 5, R. I., to effect the cancellation of trade-mark registration of Max Krakow, Room 942, Marshall Field Annex Bldg., 25 E. Washington St., Chicago, Ill., No. 257,671, dated June 18, 1929, and the notice of such proceeding sent by registered mail to the said Krakow at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Krakow, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

The following forty-eight patents are available for nonexclusive license from the International Harvester Company. Information with respect to the license policy and detailed information about the patents may be obtained from the Patent Department, International Harvester Company, 180 North Michigan Ave., Chicago 1, Ill. Copies of the patents have been filed with the Register of Patents, U. S. Patent Office, where they may be inspected by interested parties.

Pat. 2,381,423. Fuel Injector. Patented Aug. 7, 1945. An injection valve of the hydraulically operated type in which an oil resistant substance, such as neoprene, is utilized to provide for spring loading the valve and simultaneously acting as a seal to allow the necessary axial movement of the valve. Groups 30—31; 35—69. Reg. No. 5,543.

Pat. 2,387,093. Wheel Truck Mounting. Patented Oct. 16, 1945. Relates to a farm cart capable of various uses, and in particular to a longitudinal shiftable wheel truck to effect a change in cart weight distribution. Group 35—22. Reg. No. 5,544.

Pat. 2,389,505. Grinding Mill. Patented Nov. 20, 1945. A grinding mill of the plate type having a single control member for effecting a vernier adjustment of the grinding plate separation, and by a further movement of the control member to effect a full separation of the grinding plates. Group 35—41. Reg. No. 5,545.

Pat. 2,389,529. Wire Container. Patented Nov. 20, 1945. Relates to a wire container for wire tying hay baling machines from which a strand of wire may be continuously extracted without tangling or becoming snarled so as to hinder continuous tying of bales. Constructed in such a manner that rain is prevented from entering the chamber containing the wire to be used in tying bales. Group 35—21. Reg. No. 5,546.

Pat. 2,394,053. Grinding Mill. Patented Feb. 5, 1946. Relates to a plate grinding mill having its rotating plate carrying paddles for delivering the ground material to a vertical elevator. Group 35—41. Reg. No. 5,547.

Pat. 2,394,057. Hay Rake. Patented Feb. 5, 1946. A low-wheeled dump hay rake, having a torque tube at a point above the wheel axles. Small wheels are provided to enable use of such a rake in places such as orchards, where previously manufactured high wheel rakes were unable to travel. Group 35—22. Reg. No. 5,548.

Pat. 2,394,058. Ensilage Blower. Patented Feb. 5, 1946. Relates to hopper having a screw conveyor that feeds material to a vertical feed paddle which moves the material into the fan casing. This eliminates the possibility of the blower becoming clogged. Group 35—22. Reg. No. 5,549.

Pat. 2,394,119. Steering and Driving Gear for Vehicles. Patented Feb. 5, 1946. A steering and driving gear for crawler tractors in which there are a plurality of power transmitting trains connectable in various arrangements to determine the relative speeds and directions of drive of complemental propelling or traction units upon opposite sides of the tractor for obtaining selective turning rates and directions. Group 35—21—22. Reg. No. 5,550.

Pat. 2,395,322. Tractor Mounted Implement. Patented Feb. 19, 1946. A two way tractor plow having means for limiting the amount of lateral movement of the working tool which will limit the same in its outward movement as well as in its inward movement while in the working position. Group 35—21—22. Reg. No. 5,551.

Pat. 2,395,342. Tripping Mechanism. Patented Feb. 19, 1946. A novel tripping mechanism for cultivator shovels or the like wherein a shear strip is utilized to prevent yielding of the tool and movement thereof to inoperative position under normal operating conditions, but shearable under predetermined overload to permit the tool to yield. When a portion of the strip has been sheared, the unsheared part of the strip is automatically placed in position for another shearing operation. Group 35—22. Reg. No. 5,552.

Pat. 2,395,349. Wagon Elevator. Patented Feb. 19, 1946. A wagon elevator for ensilage harvesters having means for delivering ensilage to a wagon uniformly over its entire area, including a paddle wheel or fan which is driven at a greater speed than the linear speed of the elevator conveyor. Group 35—22. Reg. No. 5,553.

Pat. 2,395,350. Planter. Patented Feb. 19, 1946. Relates to a potato planter having a cutter for cutting the potatoes and conveyor means that receives the potato seed directly from the cutter and deposits the same in the ground. Group 35—22. Reg. No. 5,554.

Pat. 2,397,905. Thrust Collar Construction. Patented Apr. 9, 1946. Relates to an improved mechanism for securing a thrust collar against angular displacement, consisting of a novel form of key insertable into its operative position and swingable thereafter into a position where it is held against movement. Useful in transmission gear trains. Group 35—22. Reg. No. 5,555.

Pat. 2,397,910. Tractor Frame and Drive Shaft Bearing Structure Therein. Patented Apr. 9, 1946. A fabricated frame structure for crawler tractors which employs portions of separate bearing members for aligning the frame portions so that the bearings themselves will be precisely alined in the completely assembled frame. Group 35—22. Reg. No. 5,556.

Pat. 2,398,028. Tractor Mounted Corn Picker. Patented Apr. 9, 1946. A two row tractor corn picker in which each gathering unit is provided with its own individual set of husking rolls, the rolls being upwardly inclined to obtain additional effective husking length. Group 35—22. Reg. No. 5,557.

Pat. 2,399,733. Power Take-Off Through Tractor Steering Column. Patented May 7, 1946. Relates to a power take-off shaft that is projected coaxially forwardly from the front end of the crank shaft past the vertical steering shaft which pivots about an axis intersecting the forward projecting axis of the crank shaft. With this arrangement a conveniently accessible power take-off pulley or the like is made available on the front end of the tractor. Group 35—21. Reg. No. 5,558.

Pat. 2,399,740. Harvester Construction. Patented May 7, 1946. A fan or fans for corn pickers for separating loose husks and trash from corn ears, these fans are mounted over the lower end of the wagon elevator so as to direct blasts of air along the chutes connecting the wagon elevator and the husking units against the flow of corn to the husking units from the wagon elevator. Group 35—22. Reg. No. 5,559.

Pat. 2,399,774. Harvester. Patented May 7, 1946. A corn cutter comprising a pair of closely adjacent spiral feed elements that lift the corn stalks so that they may be cut at higher points without interference between the pendant ear or crops and the stalk-cutting means. Group 35—22. Reg. No. 5,560.

Pat. 2,403,322. Clutch Structure for Crawler Tractors. Patented July 2, 1946. Relates to a clutch device for the steering mechanism of a tractor which permits removal from the power transmission line without altering the driving and driven members. The clutch assembly has two spaced attaching faces to which the driving and driven members may be secured by bolting whereby the clutch device may be readily removed. Group 35—21. Reg. No. 5,561.

Pat. 2,403,326. Bearing Construction. Patented July 2, 1946. Relates to a dry friction clutch for a crawler tractor employing a lubricated bearing between hubs of its drive and driven parts and a clutch mounting providing for the lubrication of the bearing without discharging lubricant onto the clutch friction elements. Group 35—21. Reg. No. 5,562.

Pat. 2,403,360. Agricultural Implement. Patented July 2, 1946. A novel plow beam structure mounted on a tractor wherein the rear portion of the beam executes an additional upward movement relative to the forward portion thereof when the plow is raised for transport. This is accomplished by the use of parallel links. Group 35—21—22. Reg. No. 5,563.

Pat. 2,403,365. Mower. Patented July 2, 1946. A tractor mower consisting of a combined hand- and power-operated lifting mechanism having means associated with the lifting means to permit swinging of the mower through a second range of movement without disconnecting anything or having to reconnect anything upon the return of the mower to its normal position in order to lift the mower either by hand or power. Group 35—22. Reg. No. 5,564.

Pat. 2,403,376. Planter. Patented July 2, 1946. Relates to potato planters in which the seed-impaling members, such as picks are mounted upon rotatable disks that are set at an angle to one another, that is, closely spaced at the top and widely spaced at the bottom. With this arrangement, seed may be picked up by the picks at the widely spaced portions without a tendency toward bridging and may be discharged at the closely spaced portions. Group 35—22. Reg. No. 5,565.

Pat. 2,403,401. Side Delivery Rake. Patented July 2, 1946. A longitudinally arched frame carried at one end by a draft vehicle and supported by a two-wheel truck at the rear thereof. A raking cylinder is suspended from the high point of the arched frame. A novel form of drive is also provided. Group 35—22. Reg. No. 5,566.

Pat. 2,405,549. Final Drive Structure for Crawler Tractors. Patented Aug. 13, 1946. Relates to a driving assembly wherein one of the shafts is axially movable from the clutch after its disconnection therefrom to provide necessary clearance for removal of the clutch. Group 35—21. Reg. No. 5,567.

Pat. 2,405,692. Grinding Mill. Patented Aug. 13, 1946. A grinding mill having a hinged concave yieldably held in position adjacent a breaker which is automatically releasable and capable of repositioning by mere manual swinging of the concave. Group 35—41. Reg. No. 5,568.

Pat. 2,405,695. Ensilage Blower Having Swinging Feed Hopper. Patented Aug. 13, 1946. Relates to an easily transportable ensilage blower capable of having its feed trough in either one of two positions to enable the user to place the trough so as to best receive the material discharged from a wagon or truck, or the like when filling a silo. Group 35—22. Reg. No. 5,569.

Re. 22,787. Plow. Reissued Sept. 3, 1946. Original Pat. 2,184,438, dated Dec. 26, 1939. A hitch construction for a plow wherein the thrust of turning is applied as near the front furrow wheel as possible. This prevents breaking of the axle of the furrow wheel when turns are being made. Group 35—22. Reg. No. 5,570.

Pat. 2,407,064. Agricultural Implement. Patented Sept. 3, 1946. Relates to a tractor mounted two-way plow which has free floating movement when in operating position, and which is stabilized by gauge wheels which are lifted above the ground when both plow units are in transport position, but which remain on the ground when either plow unit is in operating position. Group 35—22. Reg. No. 5,571.

Pat. 2,407,067. Service Inspection Manual. Patented Sept. 3, 1946. A service inspection manual to be used by an operator of a fleet of trucks which manual is arranged so that the owner may select the service and inspection he desires to have made on a vehicle during intervals in the use and operation of the vehicle. Group 27—34. Reg. No. 5,572.

Pat. 2,407,080. Jack. Patented September 3, 1946. A jack adapted for use with tractors or the like which jack is actuated by power supplied from the tractor. Used for several purposes, such as, varying the wheel spread, to switch the wheels, or to make tire repairs. Group 35—22. Reg. No. 5,573.

Pat. 2,407,092. Vehicle. Patented Sept. 3, 1946. Relates to a mounting for the spring that supports the load-carrying frame on the running gear, the spring mounting including a portion of the guide means for preventing relative shifting between the frame and running gear. Group 35—22. Reg. No. 5,574.

Pat. 2,407,094. Agricultural Implement. Patented Sept. 3, 1946. Relates to a rear furrow wheel for plows that will not caster upon forward or rearward movement of the plow in operating position or upon backing up in transport position but which will caster only upon forward movement of the plow when in transport position. Group 35—22. Reg. No. 5,575.

Pat. 2,407,173. Agricultural Implement. Patented Sept. 3, 1946. A two way trail behind plow comprising hitch means which not only will inhibit the forward pivoting of the plow and the consequent tendency of the working tools or plow bottoms to rise out of the ground, but which resiliently holds the plow bottom or bottoms to their work during operation, and also prevents forward tilting of the implement when backing up, particularly in transport position. Group 35—22. Reg. No. 5,576.

Pat. 2,409,478. Feeder for Balers. Patented Oct. 15, 1946. A feeder for balers having packing fingers which in their packing stroke move slowly and leaving finished such work stroke, then quickly withdraw from the material handled and return before initiating a new stroke in the cycle. Group 35—22. Reg. No. 5,577.

Pat. 2,409,509. Tractor-Mounted Implement. Patented Oct. 15, 1946. Relates to a tractor cultivator in which means is provided for the lifting of liftably mounted cultivator rigs located respectively on the forward and rearward portions of the tractor, wherein the forward rig is raised prior to the raising of the rearward rig, comprising lost motion connections between the front and rear set of cultivator rigs. Group 35—21. Reg. No. 5,578.

Pat. 2,409,511. Overload Release for Rockable Arms. Patented Oct. 15, 1946. Has to do with a rockable arm for transmitting force to or from shafts and the like, and relates more particularly to a yieldable overload release device incorporated into the structure of the arm. Adapted for use in power lifting arms for lifting implements mounted on tractors. Group 35—21. Reg. No. 5,579.

Pat. 2,409,515. Clutch Control. Patented Oct. 15, 1946. Relates to dual speed ranges for vehicles such as tractors or the like, having means for shifting from one range to the other by operation of a single control. This single control will operate to shift the speed range from one to the other regardless of which range may be engaged at the beginning. More particularly has to do with a lever shifting device operable by a pedal and capable of reversing its direction of movement by successive depressions of the single foot pedal. Group 35—66. Reg. No. 5,580.

Pat. 2,409,516. Implement Attaching Device. Patented Oct. 15, 1946. An improved capscrew construction for a tractor or the like to facilitate the attachment of implements thereto. This capscrew is constructed in such a way that it remains on the tractor when the implement is removed. Group 35—21. Reg. No. 5,581.

Pat. 2,410,500. Feeder for Threshers. Patented Nov. 5, 1946. Relates to a feeding device for a threshing machine which can be vertically moved to gain access to the threshing cylinder, and includes a driving mechanism which permits raising of the feeding means without disconnecting the driving mechanism. Group 35—22. Reg. No. 5,582.

Pat. 2,410,501. Ensilage Blower. Patented Nov. 5, 1946. Relates to a leveling auger for ensilage blowers cooperating with a regular auger feed conveyor in order that the amount of ensilage fed to the blower remains constant regardless of the amount of ensilage thrown into the feed hopper. Group 35—22. Reg. No. 5,583.

Pat. 2,410,511. Synchronizing Device. Patented Nov. 5, 1946. A synchronizing device for transmissions of automotive vehicles which utilizes a self-energizing friction clutch by means of which a sufficient pressure may be exerted on the synchronizing clutch by very small effort on the part of the operator. A retracting means is also provided operable even when the clutch connections is only partly established. Group 35—66. Reg. No. 5,584.

Pat. 2,410,516. Bale Loading Machine. Patented Nov. 5, 1946. Relates to a tractor mounted baler with power-operated means actuated by the power-lift mechanism of the tractor to load bales in a trailed vehicle, said means being controlled by the tractor operator. Group 35—22. Reg. No. 5,585.

Pat. 2,410,921. Power Transmission Device. Patented Nov. 12, 1946. Relates to a variable speed transmission in which speeds may be selected by the use of clutch and brake devices. The clutches are of the expanding coil spring type. Group 35—22. Reg. No. 5,586.

Pat. 2,410,927. Bearing and Seal Construction. Patented Nov. 12, 1946. Relates to an improved seal construction for the disk furrow openers of a grain drill, comprising a metal seal having sliding contact with a rotating part and a resilient seal contacting only stationary parts. Group 35—22. Reg. No. 5,587.

Pat. 2,410,943. Double Feed Ensilage Blower. Patented Nov. 12, 1946. A double feed ensilage blower having a pair of opposed augers adapted to carry ensilage from an elongated hopper to a central portion thereof which adjoins a blower for elevating ensilage to a storage receptacle and includes an additional auger for moving the ensilage into the blower. Group 35—22. Reg. No. 5,588.

Pat. 2,410,945. Tractor Jack. Patented Nov. 12, 1946. Relates to a tractor having an implement capable of dual operation: (1) that of earth working; and (2) as a jack in combination with finger-tip control. The jack is actuated by power supplied from the tractor. Groups 33—52; 35—21. Reg. No. 5,589.

Pat. 2,413,279. Husking Rolls. Patented Dec. 31, 1946. A husking roll construction comprising a pair of parallel shafts, a husking roll carried by one of the shafts, a tubular husking roll positioned around the other shaft spaced therefrom, a cylindrical coil spring concentrically positioned around the shaft and between the shaft and the tubular roll whereby the roll can yield relative to the shaft. Group 35—22. Reg. No. 5,590.

Government-Owned Applications

The following applications for Letters Patent (Reg. Nos. 5,591–5,607) have been made available for license only. Licenses will be granted on a non-exclusive, royalty-free, revocable basis.

The applications are the result of research conducted under Government auspices for antimalarials.

Detailed information relative to licenses under these applications must be secured from The Secretary of War, Office of the Judge Advocate General, Patent Section, War Department, Washington 25, D. C., and the inquiry should identify the application by CASE NUMBER.

Case No. 1. Method for the Preparation of Heterocyclic Compounds.

This application relates to the preparation and constitution of certain new chemical compounds adapted to be utilized as intermediates in the manufacture of materials having antimalarial properties. These intermediates are 4-hydroxyquinoline compounds having at least one monovalent substituent in the carbocyclic ring of the quinoline nucleus.

Case No. 2. Method for the Preparation of Nuclear Substituted Heterocyclic Compounds.

This application relates to the preparation and constitution of certain new chemical compounds adapted to be utilized as intermediates in the manufacture of materials having antimalarial properties. These intermediates are compounds of the types

$$\mathrm{Ar{-}N{=}CH{-}CH(CN){-}COOR}$$

and

$$\mathrm{ArNH{-}CH{=}C(CN){-}COOR}$$

where Ar is an aryl group including a nuclear substituted aryl group and R is an alkyl group.

Case No. 3. Method for the Preparation of Nuclear Substituted Heterocyclic Compounds.

This application relates to the preparation of certain new chemical compounds adapted to be utilized as intermediates in the manufacture of materials having antimalarial properties. These intermediates are compounds of the types

$$\mathrm{Ar{-}NH{-}CH{=}C(COOH){-}CONHAr}$$

and

$$\mathrm{Ar{-}N{=}CH{-}CH(COOR){-}CONHAr}$$

where Ar is an aryl group and R is an alkyl group.

Case No. 4. Method for the Preparation of Intermediates for the Synthesis of Heterocyclic Compounds.

This application relates to the preparation of certain chemical compounds adapted to be utilized as intermediates in the manufacture of materials having antimalarial properties. These intermediates are 4-hydroxyquinoline compounds having at least one monovalent substituent in the carbocyclic ring of the quinoline nucleus.

Case No. 5. Method of Manufacturing Certain Basic Compounds.

This application relates to the preparation and constitution of certain new chemical compounds adapted to be utilized as intermediates in the manufacture of materials having antimalarial properties. These compounds are formamidines produced by the conversion of diarylformamidines to certain beta-arylaminoacrylates or their corresponding isomeric anils for use in the synthesis of 4-hydroxyquinoline compounds.

Case No. 6. Synthetic Compounds Having Antimalarial Properties.

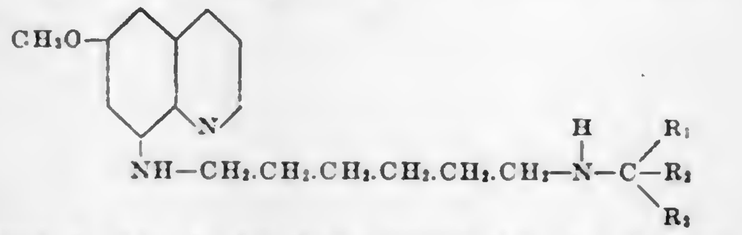
This application relates to the preparation and constitution of certain new chemical compounds having antimalarial properties. These compounds are 2-aryl-substituted-quinolyl carbinols, the antimalarial activity of which may be still further enhanced by the presence of certain supplementary substituents.

Case No. 7. Synthetic Compounds Having Antimalarial Properties.

This application relates to the preparation and constitution of certain new chemical compounds having antimalarial properties, and which are similar generally to quinine in constitution but having at least one halogen atom in the benzenoid ring of the quinoline nucleus and/or in the phenyl radical attached to the 2-position of the quinoline nucleus.

Case No. 8. Chemical Compounds Having Antimalarial Properties and Methods of Preparing the Same.

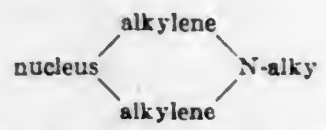
This application relates to the preparation and constitution of certain new chemical compounds having antimalarial properties, the compounds appearing to be similar to plasmoquin in action against human vivax malaria at dosages well tolerated in human subjects. The compounds have the typical formula



where R_1 and R_2 are alkyl groups, and R_3 is either hydrogen or an alkyl group.

Case No. 9. Chemical Compound Having Antimalarial Properties and Methods of Preparing the Same.

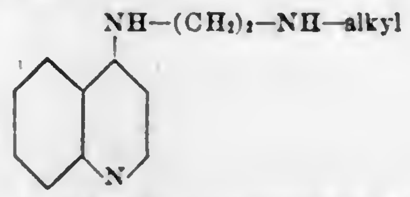
This application relates to the preparation and constitution of certain new chemical compounds having antimalarial properties and characterized by the general structure



the nucleus being either a quinoline, substituted quinoline, acridine, or substituted acridine nucleus.

Case No. 10. Synthetic Compounds Having Antimalarial Properties and Methods of Preparing the Same.

This application relates to the preparation and constitution of certain new chemical compounds possessing superior anti-malarial properties and having the characteristic structure



Case No. 11. Antimalarial Compounds, Intermediates and Process of Producing Them.

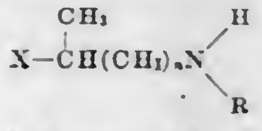
This application relates to the production and constitution of certain new antimalarial compounds, the action of which appears in comparison with plasmoquin to have advantages which are not only quantitative but also qualitative. The antimalarial compounds are 6,8-substituted lepidines, obtained from 6-alkoxy-8-nitrolepidines and 8-alkoxy-8-aminolepidines as intermediates.

Case No. 12. Method for Producing a Basic Compound.

This application relates to the production of 5,6-dimethoxy-8-aminoquinoline, and intermediate in the preparation of antimalarial compounds and comprises preparing a mixture of 4-acetamino-5-nitroveratrole, glycerin, sulphuric acid and arsenic acid at a temperature sufficient to initiate a vigorous exothermic reaction therein, the reaction being continued for about ninety seconds, and then abruptly terminated. 5,6-dimethoxy-8-nitroquinoline is recovered from the reaction mixture and converted into the corresponding 8-amino compound.

Case No. 13. ALKYLAMINO ALKYL HALIDES AND PROCESS OF MAKING THEM.

This application relates to the method of preparation and to the constitution of compounds useful as intermediates in the preparation of antimalarial compounds. These intermediates are monoalkyl-substituted-aminoalkyl halides having the constitution

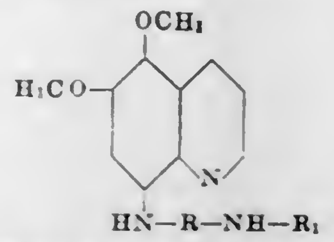


$$\mathrm{X{-}\overset{\displaystyle CH_3}{\overset{|}{C}}H(CH_2)_nN{<}^{H}_{R}}$$

where R represents a lower alkyl hydrocarbon radical having from 1 to 6 carbon atoms, X represents chlorine or bromine, n is 3 or 4; and salts thereof.

Case No. 14. ANTIMALARIALS AND PROCESS OF MAKING THEM.

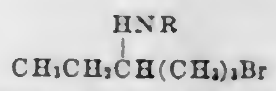
The antimalarial compounds covered by the present application are 5,6-dimethoxy-8-substituted quinolines represented by the formula



in which R represents a methyl- or ethyl-substituted tetra- or penta-methylene radical, and R_1 represents an alkyl radical having from one to six carbon atoms; and their salts. These substituted quinolines have antimalarial action which appears to be favorable in comparison with plasmoquin and, when used in conjunction with quinine, have value in the treatment of human *P. vivax* malaria.

Case No. 15. SUBSTITUTED ALKYL HALIDES AND PROCESS OF MAKING THEM.

This application relates to compounds valuable as intermediates for the preparation of antimalarial compounds. The compounds covered by the application are monoalkyl-substituted-aminoalkyl halides represented by the formula

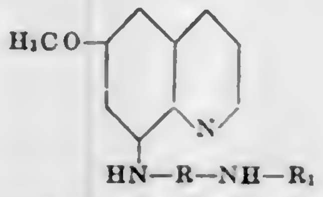


$$\mathrm{CH_3CH_2\overset{\displaystyle HNR}{\overset{|}{C}}H(CH_2)_3Br}$$

wherein R represents a lower alkyl hydrocarbon radical having from one to six carbon atoms; and salts thereof.

Case No. 16. ANTIMALARIAL COMPOUNDS AND PROCESS OF MAKING THEM.

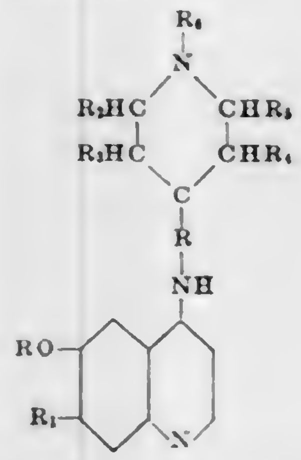
This application relates to new antimalarial compounds affording favorable action in comparison with plasmoquin and, when used in conjunction with quinine, have value in the treatment of human *P. vivax* malaria. The antimalarials forming the subject matter of this application are 6-methoxy-8-substituted quinolines, represented by the formula



in which R represents a methyl or ethyl substituted tetra- or penta-methylene radical, and R_1 represents an alkyl radical having from one to six carbon atoms; and their salts. The compounds are produced by condensing 6-methoxy-8-aminoquinoline and the hydrobromide of an alkylaminalkyl bromide of the formula Br—R—NH—R_1 where R and R_1 are as stated above.

Case No. 17. CHEMICAL COMPOUND HAVING ANTIMALARIAL PROPERTIES AND METHODS OF PREPARING SAME.

This application relates to the preparation and constitution of certain new chemical compounds having antimalarial properties, the compounds being substituted quinolines of the formula:



wherein R represents hydrogen or a lower aliphatic radical having not more than four carbon atoms, R_1 represents chlorine, bromine, fluorine, trifluoromethyl, or cyano, R_2, R_3, R_4 and R_5 represent hydrogen, methyl, ethyl, or propyl, R_6 represents hydrogen or an alkyl radical having not to exceed six carbon atoms; and salts of the above represented compounds. The compounds covered by this application are distinguished by their high activity against malaria parasites and their freedom from toxic and other undesirable characteristics such as photosensitization.

PROPOSED REVISION OF TRADE-MARK RULES

NOTICE

Notice is hereby given that the United States Patent Office proposes to issue rules and regulations relating to the registration of trade-marks, and to practice before the Patent Office in trade-mark matters, under the Trade-Mark Act of July 5, 1946 (Public Law 489, 79th Congress), which will come into effect on July 5, 1947.

The proposed rules and regulations are issued pursuant to the authority contained in sections 1(c) and 41 of said act, and will upon promulgation supersede and replace the rules now in force, 37 C.F.R. part 5.

The proposed rules and regulations, including some representative forms, will be available in printed form for distribution on Wednesday, April 30, 1947, and will be given or sent to all interested parties upon request to the Commissioner of Patents, Washington 25, D. C. They will also be published in the Official Gazette of the United States Patent Office on May 13, 1947.

All persons who desire to submit written data, views, or arguments for consideration in connection with the proposed rules and regulations are invited to forward the same to the Commissioner of Patents, Washington 25, D. C., before Thursday, May 22, 1947.

In addition to submitting briefs or statements, those who so desire may be heard orally. Hearings are scheduled to commence at 10:00 o'clock A. M. on Friday, May 23, 1947, in the auditorium of the Department of Commerce.

LESLIE FRAZER,
First Assistant Commissioner of Patents.

April 25, 1947.

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1. GENERAL INFORMATION

1.1 **Business to be transacted in writing.** All business with the Patent Office shall be transacted in writing. Personal appearance is unnecessary. The action of the Office will be based exclusively on the written record. No recognition will be given to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

1.2 **Business to be conducted with decorum and courtesy.** Applicants and attorneys will be required to conduct their business with the Patent Office with decorum and courtesy. Papers presented in violation of this requirement will be submitted to the Commissioner and will be returned by his direct order. Complaints against Examiners and other employees must be made in communications separate from other papers.

1.3 **All communications to be addressed to Commissioner of Patents.** All letters should be addressed to "The Commissioner of Patents, Washington 25, D. C."

1.4 **Separate letters.** A separate letter should, in every instance, be written in relation to each distinct subject of inquiry.

1.5 **Identification of pending application or registered mark.** A letter relating to a pending application should identify it by the name of the applicant and the serial number and filing date of the application. A letter relating to a registered trade-mark should identify it by the name of the registrant, and by the number and date of the certificate.

1.6 **Inquiries.** The Patent Office cannot undertake to respond to inquiries whether certain trade-marks have been registered, or, if so, to whom, or for what goods; nor can it give legal advice or advice as to the registrability of a specified mark, or the nature and extent of the protection afforded by the law, except as questions may arise in connection with pending applications. Information of a general nature may be furnished either by answering the inquiry or by providing or calling attention to an appropriate publication.

1.7 **Fees and charges.** The fees and charges payable to the Patent Office are stated in section 31 of the act. In addition the following are specified:

For photostat copies of records and papers, per sheet, 20 cents.
For photoprints of drawing, 20 cents.
For making drawings, when they can be made by the Patent Office, the cost of making the same, minimum charge, 5 dollars.
For correcting drawings, 20 cents for photoprint of uncorrected drawing, and the cost of making correction, minimum charge for making the correction, 1 dollar.

1.8 **Method of payment.** All payments of money required for Patent Office fees must be made in United States specie, Treasury notes, national bank notes, post office money orders or postal notes payable in Washington, D. C., or certified checks. Money orders and certified checks must be made payable to the Commissioner of Patents. If sent in any other form the Office may delay the credit until collection is made. Remittances from foreign countries must be payable and immediately negotiable in the United States for the full amount of the fee required. Money sent by mail to the Patent Office will be at the risk of the sender; letters containing money should be registered.

1.9 **Refunds.** Money paid by actual mistake or in excess, such as a payment not required by law, will be refunded, but a mere change of purpose after the payment of money, as when a party desires to withdraw his application for the registration of a mark, or to withdraw an appeal, will not entitle a party to demand such a return. Amounts of ten cents or less will not be returned unless specifically demanded, nor will the payer be notified of such amount; amounts over ten cents but less than one dollar may be returned in postage stamps; and other amounts by check.

2. RECORDS AND PUBLICATIONS OF THE PATENT OFFICE

2.1 **Printed copies of registered marks available.** After a trade-mark has been registered, printed copies of the statement, with a photolithographed copy of the drawing of the trade-mark, will be furnished by the Patent Office upon the payment of the fee therefor.

2.2 **Registration files open to public inspection.** After a mark has been registered the file of the application and all proceedings relating thereto are available for public inspection and copies of the papers may be obtained upon paying the fee therefor.

2.3 **Assignment records open to public inspection.** The assignment records are open to public inspection and copies of any assignment recorded may be obtained upon payment of the fee therefor. An order for a copy of an assignment should give the liber and page of the record. If identified only by the name of the applicant and serial number, or by the name of the registrant and registration number, an extra charge will be made for the time consumed in making a search for such assignment.

2.4 **Official Gazette.** The Official Gazette of the United States Patent Office is published weekly and contains, in addition to the material relating to patents, information relating to trade-marks including the text or digest of opinions in trade-mark cases. It includes:

(*a*) A list of marks published for opposition, with a reproduction of each mark.

(*b*) A list of marks registered on the Principal Register, and under the act of 1905.

(*c*) A list of registrations cancelled.

(*d*) A list of marks registered on the Supplemental Register, and under the act of 1920, with a reproduction of the mark.

(*e*) A list of registrations renewed.

(*f*) A list of marks republished under section 12 (c) of the act, with a reproduction of each mark.

(*g*) A list of registrations amended, disclaimed, or corrected in accordance with section 7 (*d*), (*f*) and (*g*) of the act.

Single copies and subscriptions are sold by the Superintendent of Documents, Government Printing Office, Washington, D. C. Part of the trade-mark material is reprinted separately in a trade-mark leaflet which may be purchased or subscribed to separately.

2.5 **Annual trade-mark index.** An annual index of trade-marks registered is published, and sold by the Superintendent of Documents.

2.6 **Pamphlet of trade-mark laws and rules.** Pamphlet copies of trade-mark laws and rules, and of general information concerning trade-marks, are furnished without charge by the Patent Office.

3. ATTORNEYS AND REPRESENTATION BY ATTORNEYS

3.1 **Applicants may be represented by an attorney.** The owner of a trade-mark may file and prosecute his own application for registration of such trade-mark, or he may be represented by an attorney or other person authorized to practice in trade-mark cases. The Patent Office cannot aid in the selection of an attorney or agent.

3.2 **Persons who may practice before the Patent Office in trade-mark cases.** Attorneys at law in good standing admitted to practice before the Supreme Court of the United States, the United States Court of Customs and Patent Appeals, or the highest court of any State or Territory of the United States or of the District of Columbia, and persons registered to practice in the United States Patent Office (Patent Rule 17) may practice before the Patent Office in trade-mark cases.

Attorneys at law. No register of attorneys who may practice before the Patent Office in trade-mark cases is maintained and no application by an attorney at law for admission to practice is required. A statement in the power of attorney, or in an accompanying paper, of the bar to which the attorney at law is admitted is required, and recognition is limited to each case.

Attorneys and agents registered at the Patent Office. Persons or firms, including attorneys at law, who are registered to practice before the Patent Office need only specify the registration number in the power of attorney.

Special recognition. No persons other than those hereinabove mentioned will be permitted to practice before the Patent Office in trade-mark cases unless specially and formally recognized by the Commissioner of Patents; but any person may appear for himself in a proceeding to which he is a party, or for a firm of which he is a member or for a corporation or association of which he is an officer and which he is authorized to represent, if such firm, corporation, or association is a party to the proceeding.

Refusal of recognition for cause. Persons entitled to be recognized under these rules may nevertheless be refused recognition for cause.

3.3 **Professional conduct.** Attorneys at law and other persons appearing before the Patent Office in trade-mark cases must conform to the standards of ethical and professional conduct generally applicable to attorneys before the courts.

3.4 **Advertising.** The use of display advertising, circulars, letters, cards, and similar material to solicit trade-mark business, directly or indirectly, is forbidden as unprofessional conduct and any person engaging in such solicitation, or associated with or employed by others who so solicit, shall be refused recognition to practice before the Patent Office or suspended or excluded from further practice.

The use of simple professional letterheads, calling cards, or office signs; simple announcements necessitated by opening an office, change of association, or change of address, distributed to clients and friends; and listings in common form (not display) in a classified telephone or city directory or standard professional directory, are not prohibited.

3.5 **Signature and certificate of attorney.** Every paper filed by an attorney at law or other person representing an applicant or party to a trade-mark proceeding in the Patent Office must be signed by such attorney or person, except papers which are required to be signed by the applicant or party (such as the application itself, and affidavits required of applicants or registrants). The signature of such attorney at law or other person to a paper filed by him, or the filing of any paper by him, constitutes a certificate by him that he has read the paper; that he is authorized to file it; that to the best of his knowledge, information, and belief it is well founded in law and fact; and that it is not interposed for delay.

3.6 **Suspension or exclusion from practice.** The Commissioner of Patents may, after notice and opportunity for a hearing, suspend or exclude, either generally or in any particular case, from further practice before the Patent Office any person, attorney, or agent, shown to be incompetent or disreputable, or guilty of unethical or unprofessional conduct or gross misconduct, or who refuses to comply with the rules and regulations, or who shall, with intent to defraud in any manner, deceive, mislead, or threaten any applicant or prospective applicant or other person having immediate or prospective business before the Patent Office, by word, circular, letter, or in any other manner. The reasons for any such suspension or exclusion shall be duly recorded.

3.7 **Power of attorney or authorization.** Before any attorney at law or other recognized person will be allowed to take action in any case or proceeding, a written power of attorney or authorization must be filed in that particular case or proceeding.

3.8 **Substitute and associate attorneys.** A substitute or associate attorney may be appointed by an attorney only upon the written authorization of his principal; but a third attorney appointed by the second will not be recognized.

3.9 **Correspondence held with attorney.** When an attorney or other recognized person shall have filed his power of attorney or authorization, duly executed, the correspondence will be held with him. A double correspondence with an applicant and his attorney, or with two attorneys, will not be undertaken. If more than one attorney be appointed, correspondence will be held with the one last appointed unless otherwise requested.

3.10 **Revocation of power of attorney.** A power of attorney or authorization may be revoked at any stage in the proceedings of a case upon notification to the Commissioner; and, when it is so revoked, the Office will communicate directly with the applicant or with such other attorney as he may appoint. An attorney or agent will be notified of the revocation of his power of attorney or authorization.

4. APPLICATION FOR REGISTRATION

4.1 **Parts of application.** A complete application for registration comprises:

(*a*) A written application (see Rules 5.1 to 5.16);

(*b*) A drawing of the mark (see Rules 6.1 to 6.5);

(*c*) Five specimens or facsimiles (see Rules 7.1 to 7.3);

(*d*) The required filing fee.

4.2 **Application must be complete to receive filing date.** An application will not be accepted and filed for examination unless all the required parts, complying with the rules and regulations relating thereto, are received, but minor informalities may be waived subject to subsequent correction. If the papers and parts are incomplete, or so defective that they cannot be accepted as a complete application, the applicant will be notified and the papers held six months for completion if possible, return to the applicant, or other disposition. If not completed in six months, a new application must thereafter be filed. The drawing, specimens, or fee of an unaccepted application may be applied to a later application.

4.3 **Serial number and filing date.** Complete applications will be numbered as received, and the applicant will be informed of the serial number and filing date of the application. The filing date of the application is the date on which the complete application is received in the Patent Office and accepted and filed for examination.

4.4 **Designation of representative by foreign applicant.** If the applicant is not domiciled in the United States he must designate by a written document filed in the Patent Office the name and address of some person resident in the United States on whom may be served notices or process in proceedings affecting the mark. If this document does not accompany or form part of the application, it will be required and registration refused unless it is supplied.

4.5 **Papers not returnable.** After acceptance of the application the papers will not be returned for any purpose whatever. If the applicant has not preserved copies of the papers the Office will furnish them on the usual terms.

4.6 **Use of old drawing in new application.** When a new application is filed in place of an abandoned or rejected application, a new written application and fee will be required, but the old drawing, if suitable, may be used upon the filing or ordering of suitable permanent photographic copies thereof.

4.7 **Application confidential prior to publication.** No information respecting the filing of an application for the registration of a trade-mark by any person, or the subject matter thereof will be given, prior to publication under Rule 10.1, without authority of the applicant, unless it shall, in the opinion of the Commissioner, be necessary to the proper conduct of business before the Patent Office. Decisions of the Commissioner in applications and proceedings relating thereto are published or available for inspection or publication.

5. THE WRITTEN APPLICATION

5.1 **Application must be in English.** The written application must be in the English language and plainly written on but one side of the paper. Legal size paper typewritten double spaced with at least a one and one-half inch margin on the left-hand side and top of the page is deemed preferable.

5.2 Application to be signed and sworn to by applicant. The written application must be made to the Commissioner of Patents; and must be signed and verified (sworn to) by the applicant, or by a member of the firm, or an officer of the corporation or association applying.

Re-executed papers may be required when the application has not been filed in the Patent Office within a reasonable time after the date of execution.

5.3 Requirements for application—Statement. The written application shall include a request for registration and shall specify:

(*a*) The name of the applicant;

(*b*) The citizenship of the applicant, or if the applicant be a corporation or association, the state or nation under the laws of which organized;

(c) The domicile of the applicant;

(*d*) That the applicant has adopted and is using the mark shown in the accompanying drawing;

(*e*) The particular description of goods in connection with which the mark is used;

(*f*) The class of merchandise, according to the official classification (if the number and title of the class are not known to the applicant, they may be left blank, in which case they will be filled in by the Patent Office);

(*g*) The date of applicant's first use of the mark as a trade-mark;

(*h*) The date of applicant's first use of the mark as a trade-mark in commerce [1], specifying the nature of such commerce.

(*i*) The mode or manner in which the mark is used in connection with the particular goods specified.

This part of the application is called the statement.

5.4 Requirements for application—Declaration. The written application must also include a statement to the effect that the applicant or other person making the verification believes himself or the firm, corporation, or association in whose behalf he makes the verification, to be the owner of the mark sought to be registered, that the mark is in use in commerce, specifying the nature of such commerce, and that no other person, firm, corporation, or association, to the best of his knowledge and belief, has the right to use such mark in commerce either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive, that the drawing and description truly represent the mark sought to be registered, that the specimens or facsimiles show the mark as actually used in connection with the goods, and that the facts set forth in the statement are true.

This part of the application is called the declaration.

5.5 Description of mark. A description of the mark which must be acceptable to the Examiner of Trade-Marks may be included in the statement, and must be included if required by the Examiner.

5.6 Identification of prior registrations. Prior registrations of the same mark owned by the applicant may be identified in the application.

5.7 Power of attorney, domestic representative. The power of attorney, or authorization of agent (Rule 3.7), and the appointment of a domestic representative (Rule 4.4), may be included as a paragraph or paragraphs in the written application.

5.8 Omission of allegation of use by foreign applicants. The allegation that the mark is in use in commerce required by Rule 5.4, and the statements of the dates of the applicant's first use required by Rule 5.3(*g*) and (*h*) may be omitted in the case of an application, filed pursuant to section 44 of the act, for registration of a mark duly registered in the country of origin of a foreign applicant, provided the application when filed is accompanied by a certified copy of the registration in the country of origin.

Such allegation and statement may also be omitted in the case of an application claiming the benefit of a prior foreign application in accordance with section 44(*d*) of the act, provided that the application states the date and country of the first foreign application and a certified copy of the foreign application and a sworn translation of the same, if not in the English language, are filed before the registration is granted, but the registration will not be granted until the mark has been registered in the country of origin of the applicant.

5.9 Proof of distinctiveness under section 2(*f*). When registration is sought under section 2(*f*) of the act any proof that the mark used by applicant has become distinctive of the applicant's goods in commerce must be submitted separate from the written application. The written application shall include in the declaration a verified statement of substantially exclusive and continuous use of the mark by applicant in commerce, specifying the nature of such commerce, for the preceding five years, if distinctiveness is based upon such fact; but proof of such exclusive and continuous use must be separately submitted and further evidence that the mark has become distinctive of applicant's goods may be required.

5.10 Concurrent use. In the case of an application claiming concurrent use, the applicant shall also specify in the statement any concurrent use by others, designating their names, addresses, and registrations or applications, if any, the goods in connection with which and the areas in which such concurrent use exists, the mode of such use, the periods of such use, and the goods, area, or mode of use for which the applicant desires registration; and the claim of exclusive use made in the declaration shall be made with the stated exceptions.

5.11 Service mark. In the case of an application for the registration of a service mark, the written application shall specify and contain all the elements required by the preceding rules for trade-marks but shall be modified to relate to services instead of to goods wherever necessary.

5.12 Collective mark. The statement in the case of an application for registration of a collective mark shall also specify the class of persons entitled to use the mark, indicating their relationship to the owner of the mark and the significance of their use of the mark, and the nature of control over the use of the mark.

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[1] The word "commerce" is used as defined in the act.

5.13 Certification mark. The written application in the case of an application for registration of a certification mark shall specify the manner in which and the conditions under which the mark is used.

5.14 Principal Register. All applications will be treated as seeking registration on the Principal Register unless otherwise stated in the application. Service marks, collective marks, and certification marks registrable in accordance with the applicable provisions of section 2 of the act are registered on the Principal Register.

5.15 Supplemental Register. The written application in the case of an application for registration on the Supplemental Register shall so indicate and shall specify that the mark has been in continuous use in commerce, specifying the nature of such commerce, by the applicant for the preceding year, if the application is based on such use. The showing required for waiver of the requirement for a full year's use must be separate from the written application.

5.16 Applicant's name. The signature to the application must be the correct signature of the applicant since the name will appear in the certificate of registration precisely as it is signed to the application. The name of the applicant wherever it appears in the papers of the application will be made to agree with the name as signed.

6. DRAWINGS

6.1 Drawings required. The drawing of the trade-mark shall be a substantially exact representation thereof as actually used in connection with the goods.

The drawing of a service mark shall be a substantially exact representation of the mark as used in the sale or advertising of the services. The drawing of a service mark may be dispensed with in the case of a mark not capable of representation by a drawing but in any such case the written application must contain an adequate description.

In the case of an application for registration on the Supplemental Register, the drawing, when appropriate and necessary, may be the drawing of an object.

6.2 Requirements for drawings.

(*a*) *Paper and ink.* The drawing must be made upon pure white paper of a thickness corresponding to two-ply Bristol board. The surface of the paper must be calendered and smooth. India ink alone must be used for pen drawings, to secure perfectly black solid lines. The use of white pigment to cover lines is not acceptable.

(*b*) *Size of sheets and margins.* The size of a sheet on which a drawing is made must be exactly 8 by 13 inches. Three-fourths of an inch from its edges a single marginal line is to be drawn, leaving the "sight" precisely 6½ by 11½ inches. Within this margin all work must be included. One of the shorter sides of the sheet should be regarded as its top. When the view is longer than the width of the sheet, the sheet should be turned on its side.

(*c*) *Character of lines.* All drawings must be made with the pen or by a photolithographic process which will give them satisfactory reproduction characteristics. Every line and letter, names included, must be absolutely black. This direction applies to all lines however fine, and to shading. All lines must be clean, sharp, and solid, and they must not be too fine or crowded. Surface shading, when used, should be open.

(*d*) *Applicant's name.* The name of the applicant for registration must be written or printed within the marginal lines in the lower right-hand corner of the sheet but in no instance should it encroach upon the drawing.

(*e*) *Extraneous matter.* An agent's or attorney's name, stamp, or advertisement, or written address should not appear upon the face of a drawing, within or without the marginal line.

(*f*) *Linings for color.* Where color is a material feature of a mark as used, the color or colors employed should be illustrated in the drawing by means of the conventional linings as shown in the following color chart for draftsmen:

(Chart from present Rule 36 will be used.)

6.3 Transmission of drawings. Drawings transmitted to the Patent Office should be sent flat, protected by a sheet of heavy binder's board, or should be rolled for transmission in a suitable mailing tube to prevent mutilation. They should never be folded.

6.4 Informal drawings. A drawing not executed in conformity with the foregoing rules may be accepted for purpose of examination, but the drawing must be corrected or a new one furnished, as required, before the mark can be published or the application allowed. The necessary corrections will be made by the Patent Office upon applicant's request and at his expense. Substitute drawings will not be accepted unless they have been required by the Examiner.

6.5 Patent Office may make drawings. The Patent Office, at the request of applicants and at their expense, will make drawings if facilities permit.

7. SPECIMENS

7.1 Specimens. The five specimens of a trade-mark shall be specimens of the trade-mark as actually used in connection with the goods as sold in commerce, and shall be duplicates of the actually used labels, tags, or containers, or the displays associated therewith or portions thereof, when made of suitable material and capable of being arranged flat and of a size not larger than the size of the drawing.

7.2 Facsimiles. When, from the mode of applying or affixing the trade-mark to the goods, or from the manner of using the mark on the goods, or from the nature of the mark, specimens as above stated cannot be furnished, five copies of a suitable photograph not larger than the size specified for the drawing, clearly and legibly showing the mark and all matter used in connection therewith, shall be furnished.

7.3 Specimens or facsimiles in the case of a service mark. In the case of a service mark a specimen, or facsimile thereof as stated in Rule 6.2, of the mark as used in the sale or advertising of the services shall be furnished unless impossible from the nature of the mark or the manner in which it is used, in which event, some other representation acceptable to the Commissioner must be submitted.

7.4 Federal label approval required in certain cases. Whenever an application is filed for the registration of a trade-mark which is either a part of or associated with a label for a product which under the provisions of an act of Congress cannot be lawfully sold without prior approval of the label by a designated Government agency, a copy of such label and its certification must be made of record in the application before allowance in cases wherein a notice of such requirement has been published in the Official Gazette and in the Federal Register.

Types of labels for which prior approval must be secured and copies of which must be filed as indicated above are set forth in the attached schedule.

[The schedule, which will be placed after the rules, will include:

Labels for meat products (Class 46) which are subject to Federal inspection, must be approved by the Meat Inspection Division, Office of Marketing Services, Department of Agriculture.

Labels for wines (Class 47) and for distilled alcoholic liquors (Class 49) must be approved by the Federal Alcohol Administration.]

8. EXAMINATION OF APPLICATION AND ACTION BY APPLICANTS

8.1 **Action by Examiner.** Applications for registration will be examined by the Examiner of Trade-Marks, and, if the applicant is found not entitled to registration for any reason, he will be so notified and advised of the reasons therefor, and of any formal requirements or objections, and given such information and references as may be helpful in the further prosecution of the application.

8.2 **Period for response.** The applicant has six months from the date of mailing of any action by the Patent Office to respond thereto. Such response may be made with or without amendment and must include such proper action by the applicant as the nature of the action and the condition of the case may require.

8.3 **Re-examinations.** After response by the applicant, the application will be re-examined or reconsidered, and if the registration is again refused or formal requirements insisted upon but not stated to be final, the applicant may respond again.

8.4 **Final action.** On the first, or any subsequent, re-examination or reconsideration, the refusal of the registration or the insistence upon a requirement may be stated to be final, whereupon applicant's response is limited to an appeal, or to a compliance with any requirement made.

8.5 **Abandonment.** If an applicant fails to respond, or to respond completely, within six months after the date an action is mailed, the application shall be deemed to have been abandoned.

8.6 **Revival of abandoned applications.** An application abandoned for failure to respond may be revived as a pending application if it is shown to the satisfaction of the Commissioner that the delay was unavoidable. A petition to revive an abandoned application must be accompanied by a verified showing of the causes of the delay, and by the proposed response, unless the same has been previously filed.

8.7 **Suspension of action by Patent Office.** Action by the Patent Office may be suspended upon request of the applicant for good and sufficient cause and for a reasonable time specified. Only one suspension will be granted by the Examiner and any further suspension must be approved by the Commissioner.

8.8 **Express abandonment.** An application, unless assigned, may be expressly abandoned by filing in the Patent Office a written declaration of abandonment signed by the applicant himself, and, if assigned, by the assignee.

8.9 **Response due on Sunday or holiday.** Where the last day for taking any action falls on Sunday, or on a holiday within the District of Columbia, the action may be taken on the next succeeding secular or business day.

9. AMENDMENT OF APPLICATION

9.1 **Amendments to statement.** The statement may be amended to correct informalities, or to avoid objections made by the Patent Office, or for other reasons arising in the course of examination. No amendments to the dates of use will be permitted unless such changes are supported by affidavit and such showing as may be required by the Examiner.

Additions to the description of goods or services will not be permitted unless the mark was in actual use on all of the goods or services proposed to be added by the amendment at the time the application was filed and unless the amendment is accompanied by additional specimens (or facsimiles) and by a supplemental affidavit in support thereof, giving the dates of use required by Rule 5.3.

Amendment of the declaration will not be permitted. If that filed with the application be faulty or defective, a substitute declaration must be filed.

9.2 **Amendments to description or drawing.** Amendments to the description or drawing of the mark may be permitted only if warranted by the specimens (or facsimiles) as originally filed, but may not be made if the nature of the mark is changed thereby.

9.3 **Amendment to recite concurrent use.** An application may be amended in the Examiner's discretion so as to be treated as an application for a concurrent registration, provided the application as amended satisfies the requirements of Rule 5.10.

9.4 **Form of amendment.** In every amendment the exact word or words to be stricken out or inserted in the statement must be specified and the precise point indicated where the deletion or insertion is to be made. Erasures, additions, insertions, or mutilations of the papers and records must not be made by the applicant or attorney.

When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to registration. If the number or nature of the amendments shall render it otherwise difficult to consider the case, or to arrange the papers for printing or copying, or when otherwise desired to clarify the record, the Examiner may require the entire statement to be rewritten.

9.5 **Amendment to change application to different register.** An application for registration on the Principal Register may be changed to an application for registration on the Supplemental Register and vice versa by amending the application to comply with the rules relating to the requirements for registration on the appropriate register, as the case may be. The date of filing such amendment will be considered the filing date of the application so converted. Only one such conversion will be permitted after an action by the Examiner.

10. PUBLICATION AND ALLOWANCE

10.1 **Publication in Official Gazette.** If on examination or re-examination of an application for registration on the Principal Register it appears that the applicant is entitled to have his mark registered, the mark will be published in the Official Gazette for opposition.

10.2 **Allowance of application.** If no notice of opposition is filed within the time permitted in Rule 14.1 after such publication, the applicant will be duly notified of the allowance of his application and a certificate of registration may be issued as provided in Rule 20.1.

Certificates are normally issued on the fourth Tuesday after the Thursday following the date of the notice of allowance.

10.3 **Marks on Supplemental Register published only upon registration.** The mark will not be published for opposition in the case of an application for registration on the Supplemental Register but the applicant will be notified of the allowance of his application if it appears after examination that he is entitled to have the mark registered and a certificate of registration may be issued as provided in Rule 20.1. The mark will be published in the Official Gazette when registered.

10.4 **Jurisdiction over published or allowed applications.** After publication or allowance the Examiner may exercise jurisdiction over an application by special authority from the Commissioner.

Amendments may be made after the allowance of an application if the certificate has not been printed, on the recommendation of the Examiner, approved by the Commissioner, without withdrawing the allowance.

11. CLASSIFICATION

11.1 **Classification of goods and services.** There is established, for convenience of administration, a classification of goods and services set forth in the attached schedule of classification. Such classification shall not limit or extend the applicant's rights.

[The schedule of classification will follow the Rules. No change in the schedule will be made at the present time except the addition of a temporary class for services, "Class 51, Services (temporary)." This will be subdivided and various classes of services established after the study of such applications as may be filed.]

11.2 **Plurality of goods or services comprised in single class may be covered by single application.** A mark may be registered on a single application for a plurality of goods, or for a plurality of services, comprised in a single class, provided the particular description of each of the goods or services be stated and the mark has actually been used upon all of the goods, or in connection with all of the services specified.

11.3 **Original application must be limited to goods or services comprised in a single class.** When a single application is filed to register a mark for both goods and services or for goods or services in a plurality of different classes, registration will be refused and the applicant required to restrict the application to goods or services comprised in a single class.

11.4 **Applications may be combined.** When several applications have been filed by the same applicant for registration on the same register of the identical mark on goods in different classes, or services in different classes, and each of the applications has been allowed, a single certificate based on such several applications may be issued. For the purpose of issuing such single certificate, a copy of each of the statements consolidated into a single paper must be filed in one of such applications.

The issuance of any original certificate may be suspended upon request of the applicant, for a period not exceeding six months to permit such consolidation.

12. CONTESTED OR INTER PARTES CASES OR PROCEEDINGS

12.1 **Contested or inter partes cases or proceedings.** Contested or inter partes cases or proceedings comprise (*a*) interferences between pending applications or between registrations and pending applications, which are instituted by the Examiner of Trade-Marks, (*b*) opposition proceedings, which are instituted on the filing of a notice of opposition against a mark published for opposition, (*c*) cancellation proceedings, which are instituted on the filing of a petition to cancel a registration, and (*d*) applications to register as concurrent user which are instituted upon giving notice to the concurrent users named in the application.

13. INTERFERENCES

13.1 **Interferences.** Whenever application is made for the registration on the Principal Register of a mark which so resembles a mark previously registered by another, or for the registration of which another has previously made application, as to be likely when applied to the goods or when used in connection with the services of the applicant to cause confusion or mistake or to deceive purchasers, an interference may be declared to exist. No interference shall be declared between an application and the registration of a mark the right to the use of which has become incontestable, nor with respect to registrations or applications to register on the Supplemental Register.

13.2 **Preliminary to interference.** Before the declaration of interference, all preliminary questions must have been settled by the Examiner of Trade-Marks and the interfering marks which are to form the subject matter of the controversy must have been decided to be registrable, and at least one of them must have been published in the Official Gazette.

The Examiner of Trade-Marks may require an applicant to put his application in condition for publication or allowance, within a time specified, in order that an interference may be declared. If any such applicant fails to put his application in condition for publication or allowance within the time specified, the declaration of interference will not necessarily be delayed, but after final judgment the application of such applicant will be held for revision or restriction, subject to interference with other applications or registrations.

Whenever it shall be found that two or more parties whose interests are in conflict are represented by the same attorney, the Examiner of Trade-Marks shall notify each of said principal parties and also the attorney of this fact.

13.3 **Declaration of interference.** An interference is declared and instituted by the mailing of notices of interference to each of the parties by the Examiner of Interferences, which notices shall have been prepared by the Examiner of Trade-Marks. The notices shall be sent to all the parties, in care of their attorneys, if they have an attorney of record, and if one of the parties is a registrant, a notice shall also be sent to him or his assignee of record. The notice to each party shall give the name and address of the adverse party, and of his attorney, if any, together with the serial number and dates of filing and publication of the applications or registrations involved.

13.4 **Motions to dissolve interference.** Motions to dissolve an interference upon the ground that no interference in fact exists, or that there has been such irregularity in declaring the same as will preclude a proper determination of the right of registration, or that an applicant's mark is not registrable, and all motions of a similar character, shall contain a full statement of the grounds relied upon and shall be made not later than the thirtieth day after the notices of interference have been mailed. Such motions, if in proper form, will be transmitted to the Examiner of Trade-Marks for determination and the parties will be so notified. If the motion is not in proper form, or if it is not brought within the time specified and no satisfactory reason is given for the delay, it will not be considered and the parties will be so notified. Transmitting such a motion for determination will act as a stay of proceedings pending the determination of the motion.

13.5 **Decision on motion to dissolve.** The decision of the Examiner of Trade-Marks upon a motion for dissolution will be binding upon the Examiner of Interferences unless reversed or modified on appeal. Appeal may be taken to the Commissioner from a decision granting a motion to dissolve. No appeal may be had from a decision denying a motion to dissolve, but the question may be reviewed by the Commissioner on appeal from the final decision of the Examiner of Interferences.

13.6 **Burden of proof.** The party whose application or registration involved in the interference has the latest filing date is the junior party and will be regarded as having the burden of proof.

Motions to shift the burden of proof shall be made within thirty days from the mailing of the notices of interference, and will be determined by the Examiner of Interferences. No appeal from the decision on such motion will be entertained, but the matter may be reviewed by the Commissioner on appeal from the final decision of the Examiner of Interferences.

13.7 **Motion to add.** An applicant or registrant involved in an interference may, not more than thirty days after the notices of interference have been mailed, bring a motion to add to the interference any other application or registration which he may own. The procedure affecting such motion will be the same as that hereinabove set forth on motions to dissolve.

13.8 **Adding party to interference.** If, during the pendency of an interference, another case appear involving substantially the same registrable subject matter, the Examiner of Trade-Marks may request the suspension of the interference for the purpose of adding said case. Such suspension will be granted as a matter of course by the Examiner of Interferences if no testimony has been taken. If, however, any testimony has been taken, a notice for the proposed new party, disclosing the issue in interference and the names and addresses of the interferants and of their attorneys, and notices for the interferants disclosing the name and address of the said party and his attorney, shall be prepared by the Examiner of Trade-Marks and forwarded to the Examiner of Interferences who shall mail said notices and shall make such inquiries as are deemed necessary to determine the question of admissibility of the new party. If the Examiner of Interferences be of the opinion that the interference should be suspended and a new party added he shall prescribe the terms for such suspension. The decision of the Examiner of Interferences as to the addition of a party shall be final.

14. OPPOSITION

14.1 **Time for filing notice of opposition.** Any person who believes that he would be damaged by the registration of a mark upon the Principal Register may, upon payment of the required fee, oppose the same by filing a verified notice of opposition in the Patent Office within thirty days after the publication (Rule 10.1) of the mark sought to be registered.

14.2 **Extension of time.** No request to extend the time for filing a notice of opposition will be considered if received after the notice of allowance is mailed. Any such request must show good cause for the extension and specify the period of extension desired, and a duplicate copy thereof must be furnished.

14.3 **Notice filed by attorney.** An unverified notice of opposition may be filed by a duly authorized attorney, but such opposition will be null and void unless verified by the opposer within thirty days after such filing, or within such further time after such filing as may be fixed by the Commissioner upon request made before the expiration of said thirty days.

14.4 **Contents of notice of opposition.** The notice of opposition must show that the opposer would be damaged by the registration of the opposed mark and state the specific grounds for opposition. A duplicate copy of the notice of opposition and two specimens (or facsimiles) of the mark as actually used by the opposer, if there be such, shall be filed.

14.5 **Institution of opposition.** When a notice of opposition is filed the Examiner of Trade-Marks shall inform the party filing the same of the receipt thereof and if regularly filed shall transmit it to the Examiner of Interferences.

The Examiner of Interferences shall prepare a notice disclosing the name and address of the opposer, those of his attorney, if he has such, and designate a time, not less than thirty days from the date of this notice, within which answer must be filed. Copies of this notice shall be forwarded to the parties in care of their attorneys, if they have attorneys of record. The duplicate copy of the notice of opposition and one of the specimens (or facsimiles), if there be such, shall be forwarded with the notice to the party against whom the opposition is filed.

15. CANCELLATION

15.1 **Time for filing petition for cancellation.** Any person who believes that he is or will be damaged by a registration, may, upon payment of the required fee, apply to the Commissioner to cancel said registration. Such petition may be made at any time in the case of registrations on the Supplemental Register or under the act of 1920, or registrations under the acts of 1881 or 1905 which have not been republished under section 12(c) of the act (Rule 21), and in cases involving the grounds specified in section 14(c) and (*d*); and in all other cases must be made within five years from the date of registration of the mark under the act of 1946 or from the date of republication under section 12(c).

15.2 **Petition for cancellation.** The petition to cancel must show that the petitioner is or will be damaged by the registration, state the specific grounds for cancellation, and indicate the respondent party to whom notice shall be sent. The petition must be verified by the person filing the same. A duplicate copy of the petition, an abstract of title of the mark sought to be cancelled or an order for a title report for Office use, and two specimens (or facsimiles) of the mark actually used by the petitioner, if there be such, shall be filed with the petition.

A petition to cancel filed by the Federal Trade Commission under section 14(c) or section 14(*d*) need not show or allege that the petitioner is or will be damaged, and a fee is not required for filing such petition.

15.3 **Notice of filing of petition.** When a petition for cancellation is filed it shall be transmitted to the Examiner of Interferences who shall make examination thereof to determine if it is formally correct. If he be of the opinion that the petition is defective as to form he shall so advise the party filing the same.

When the petition is correct as to form, the Examiner of Interferences shall prepare a notice disclosing the name and address of the petitioner, those of his attorney, if he has such, and designate a time not less than thirty days from the date of the notice, within which an answer must be filed. Copies of this notice shall be forwarded to the parties in care of their attorneys, if they have attorneys of record. The duplicate copy of the petition for cancellation and one of the specimens (or facsimiles) if there be such, shall be forwarded with the notice to the registrant whose registration is sought to be cancelled.

16. APPLICATION FOR REGISTRATION AS CONCURRENT USER

16.1 **Application to register as concurrent user.** An application for registration as a lawful concurrent user will be examined in the same manner as other applications for registration. When it is determined that the mark is ready for publication or allowance, except for questions relating to concurrent registration, the applicant may be required to furnish as many copies of his application, including specimens and drawing, as may be necessary. The Examiner of Trade-Marks shall prepare notices for the applicant and for each applicant, registrant, or user specified in the application for registration as a concurrent user. Such notices for the specified parties shall give the name and address of the applicant and of his attorney if any, together with the serial number and filing date of the application.

The notices shall be sent by the Examiner of Interferences to each of the parties, in care of their attorneys, if they have attorneys of record, and if one of the parties is a registrant, a notice shall also be sent to him or his assignee of record. A copy of the application shall be forwarded with the notices to the parties specified in the application.

Subsequent proceedings shall follow the practice in interferences, the applicant for concurrent registration, or the one having the lastest filing date if there be more than one such applicant, having the burden of proof in the first instance.

17. PROCEDURE IN CONTESTED OR INTER PARTES PROCEEDINGS

17.1 **Federal Rules of Civil Procedure.** Except as otherwise provided, procedure and practice in contested or inter partes proceedings shall be governed by the Rules of Civil Procedure for the District Courts of the United States wherever considered applicable and appropriate.

The junior party in an interference, the opposer in an opposition proceeding, the petitioner in a cancellation proceeding, and the applicant to register as a concurrent user, shall be deemed to be in the position of plaintiff, and the other parties to such proceedings in the position of defendants with respect thereto. The notice of opposition and the petition to cancel, and the answers thereto, correspond to complaint and answer; there are no equivalent pleadings in interferences and applications to register as concurrent user, the issues in such cases being determined by the respective applications or registrations involved. The taking of testimony and the final hearing correspond to trial, and the assignment of times for taking testimony and for final hearing to setting a case for trial.

17.2 **Undelivered Office notices.** When the notices sent by the Patent Office to any registrant are returned to the Office undelivered, or when one of the parties resides abroad and his representative in the United States is unknown, additional notice may be given by publication in the official Gazette for such period of time as the Commissioner may direct.

17.3 **Service of papers.** Every paper filed in the Patent Office in contested cases, including appeals, unless otherwise provided, must be served upon the other parties as provided by Patent Rule 154 embodied in Rule 17.6. Proof of such service must be made before the paper will be considered by the Office. A statement of the attorney attached to or appearing on the original papers when filed clearly stating the time and manner in which service was made will be accepted as prima facie proof of service.

17.4 **Amendment of notice of opposition or petition to cancel.** Amendments to a notice of opposition or to a petition to cancel will not be permitted after the times for filing such notice or petition have passed.

17.5 **Assignment of times for taking testimony and of date of final hearing.** Times will be assigned for the completion of testimony in behalf of each of the parties, and for the completion of rebuttal testimony in appropriate circumstances, but no other testimony shall be taken. If there be more than two parties to an interference, the times for taking testimony will be so arranged that each shall have an opportunity to prove his case against prior parties and to rebut their evidence, and also to meet the evidence of junior parties.

The times will be assigned in the notices sent by the Patent Office in interferences and in cases of applications to register as concurrent user, and in a notice sent after the answers have been filed in cases of opposition and cancellation. The time for final hearing will be set in the same notices.

17.6 **Testimony in contested or inter partes cases.** Testimony in contested or inter partes proceedings shall be taken and filed in accordance with the provisions of Rules 154 to 161, inclusive, of the Rules of Practice in the United States Patent Office, relating to testimony in patent interferences, and these rules shall apply to trade-mark cases.

[Note: In the pamphlet edition of the Trade-Mark Rules it is contemplated that the Patent Rules referred to be printed in full, either at this point or in an appendix.]

17.7 **Copies of testimony.** In addition to the original transcripts of the testimony, three or more copies of the record of each party must be filed, two for the use of the Patent Office and one for each of the opposing parties. These records may be submitted either in printed or typewritten form. They must include the testimony presented by the party filing the same, and shall be certified to as being true copies. Each record must contain an index of the names of the witnesses giving the pages where their examination and cross-examination begin, an index of the pages where exhibits are offered in evidence, and of the pages where copies of papers and documents introduced as exhibits are shown in the case of such exhibits as may be copied in the record; the names of the witnesses must appear at the top of the pages over their testimony, and the pages must be consecutively numbered.

The copies of the record for the party in the position of plaintiff must be filed not less than seventy days before the day for final hearing, and in the case of parties in the position of defendants not less than fifty days.

When the copies of the record are submitted in printed form, they shall be printed in 11-point type and adequately leaded, the paper must be opaque and unglazed and the size of the page shall be 7⅝ by 10¼ inches and the type matter shall be 4⅙ by 7⅙ inches. Twenty-five additional copies for the United States Court of Customs and Patent Appeals, should appeal be taken, shall also be filed; if no such appeal be taken, the twenty-five copies will be returned to the party filing them.

When the copies of the record are submitted in typewritten form, they must be clearly legible copies on opaque, unglazed, durable paper 8½ by 11 inches in size. The typing shall be in black, on one side of the paper, in not smaller than pica type and double-spaced, with a margin of 1½ inches on the left-hand side of the page. The sheets shall be bound at their left edges in a volume or volumes of convenient size provided with covers. Multigraphed or otherwise reproduced copies conforming to the same standards specified for typewritten copies will be accepted as typewritten.

The testimony of any party failing to supply copies of his record as specified shall not be considered.

17.8 **Allegations in application not evidence on behalf of applicant.** The allegation of dates of use in the application for registration of the applicant or registrant cannot be used as evidence in behalf of the party making the same.

17.9 **Motions.** Motions shall be made in writing and shall contain a full statement of the grounds therefor. Oral hearings will not be held on motions except on order of the Examiner having jurisdiction. Briefs in support of or in opposition to motions shall be filed on dates set by the Examiner of Interferences and if not so filed consideration thereof may be refused.

Petitions for reconsideration or modification of the decision must be filed within twenty days after the decision or before the time for appeal expires.

Appeal must be taken, in the case of such decisions as are appealable, within the time limit set in the decision, or within twenty days if no time limit is set.

17.10. **Briefs at final hearing.** Briefs at final hearing shall be submitted in printed form, except that where not in excess of thirty typewritten pages, and in any other case where satisfactory reason therefor is shown, they may be submitted in typewritten form. If submitted in printed form, they shall be the same in size and the same as to page and print as is specified for printed copies of testimony. Typewritten briefs shall conform to the requirements for typewritten copies of testimony except that legal size paper may be used and the binding and covers specified are not required. Two copies of the brief shall be filed by each party. The brief of a party in the position of plaintiff shall be filed not less than forty days, and that of a party in the position of a defendant not less than twenty days,

prior to the hearing. Reply briefs, if filed, shall be due not less than ten days before the hearing.

17.11 **Final hearing.** Final hearings will be had by the Examiner of Interferences at the time stated in the notice. If either party in a contested case appear at the proper time, he will be heard. If the Examiner of Interferences is prevented from hearing the case at the time specified for the hearing, a new assignment will be made, or the case will be continued from day to day until heard. Unless otherwise permitted, oral arguments will be limited to one-half hour for each party. After a contested case has been argued, nothing further relating thereto will be heard or received unless upon request of the Examiner of Interferences; and no interviews will be had for this purpose with parties in interest or their attorneys. Petitions for rehearings or modifications of the decision must be filed before the time for appeal expires.

Hearings may be advanced or adjourned, as far as is convenient and proper, to meet the wishes of the parties and their attorneys.

17.12 **Ex parte right determinable.** The Examiner of Interferences in interference, opposition and concurrent use proceedings may refuse registration to any applicant involved in such contested proceeding without reference to the rights as between the parties thereto.

17.13 **New matter suggested by Examiner of Trade-Marks.** If, during the pendency of a contested or inter partes case, facts appear which in the opinion of the Examiner of Trade-Marks render the mark of any applicant involved unregistrable, the attention of the Examiner of Interferences shall be called thereto. The Examiner of Interferences may suspend the proceeding and refer the case to the Examiner of Trade-Marks for his determination of the question of registrability, and the proceeding shall be dissolved or continued in accordance with such determination. The consideration of such facts by the Examiner of Trade-Marks shall be inter partes.

17.14 **Failure to take testimony.** Upon the filing of an affidavit by any party in the position of a defendant, that the time for taking testimony on behalf of any party in the position of plaintiff has expired and that no testimony has been taken by him and no other evidence offered, an order shall be entered that such party show cause within a time set therein, not less than ten days, why judgment should not be rendered against him, and in the absence of a showing of good and sufficient cause judgment shall be rendered as by default.

17.15 **Amendment of application or registration during proceedings.** An application involved in a contested proceeding may not be amended, nor may a registration be amended or disclaimed in part, except upon the written consent of the other party or parties and the approval of the Examiner of Interferences, or except upon motion duly brought and considered.

17.16 **Surrender or cancellation of registration.** If a registrant involved in a contested proceeding applies to surrender or cancel his registration, under section 7(*d*) of the act, and such action is permitted, the proceeding may be terminated or continued on such terms as may be appropriate.

17.17 **Abandonment of application, abandonment or disclaimer in whole of mark, concession of priority.** If an applicant involved in a contested proceeding files a written abandonment of the application, or abandonment of the mark, or if a registrant applies to disclaim the mark in whole under section 7(*d*) of the act and such disclaimer is permitted, or if a party to an interference files a written concession of priority, judgment may be entered against such party; the case will not be dismissed or dissolved at the request of such party unless with the consent of the other parties.

18. APPEALS

18.1 **Ex parte appeals to the Commissioner from the Examiner of Trade-Marks.** Every applicant for the registration of a mark may, upon final refusal by the Examiner of Trade-Marks, appeal to the Commissioner in person upon payment of the prescribed fee. A second refusal on the same grounds may be considered as final by the applicant for purpose of appeal. Appeal may also be taken to the Commissioner from the refusal by the Examiner of Trade-Marks to accept and affidavit filed under section 8 of the act or to renew a registration.

18.2 **Time and manner of ex parte appeals.** Such appeal must be taken within six months from the date of the action appealed from and must be accompanied by a statement of the reasons therefor. The Examiner shall, within thirty days therefrom, furnish the Commissioner with a written statement of the grounds of his decision, supplying a copy to the applicant. The date for hearing will be fixed by the Commissioner in each case and the brief of the appellant shall be due on or before the day of the hearing. Cases which have been heard and decided by the Commissioner will not be reopened except by his order.

18.3 **Appeal to the Commissioner from decision of Examiner of Interferences.** Any party to an interference proceeding, opposition proceeding, cancellation proceeding, or to a contested application to register as a concurrent user, may appeal, stating the reasons therefor, from the final decision of the Examiner of Interferences to the Commissioner in person within the time limit, not less than thirty days, prescribed in the decision, upon payment of the prescribed fee. The date for hearing will be fixed by the Commissioner in each case. Appellants shall file briefs not less than forty days before the hearing and appellees shall file briefs not less than twenty days before the hearing; reply briefs, if filed, shall be due not less than ten days before the hearing. Briefs and hearings on appeal shall be subject to Rules 17.10 and 17.11 insofar as applicable.

18.4 **Appeal to court.** Any applicant for registration, any registrant who has filed an affidavit under section 8 of the act, or party to an inter partes proceeding, who is dissatisfied with the decision of the Commissioner may appeal to the United States Court of Customs and Patent Appeals or may proceed under section 4915, Revised Statutes, as in the case of applicants for patents, under the same conditions, rules and procedure as are applicable in the case of patent appeals or proceedings.

(See patent Rules 148 to 150 and rules of the United States Court of Customs and Patent Appeals.)

19. PETITION TO THE COMMISSIONER

19.1 **Petition to the Commissioner.** Petition may be filed with the Commissioner from any repeated action or requirement of the Examiner of Trade-Marks which is not subject to appeal. Such petition, and any other petition which may be filed, must contain a statement of the facts involved and the point or points to be reviewed. Briefs or memoranda, if any, in support thereof should accompany or be embodied in the petition. The Examiner may be directed by the Commissioner to furnish a written statement setting forth the reasons for his decision upon the matters averred in the petition, supplying a copy thereof to the petitioner. Oral hearing will be granted only in the discretion of the Commissioner. No fee is required for such a petition. The filing of a petition will not stay the period of six months for replying to an Examiner's action as provided in Rule 8.2.

20. CERTIFICATE

20.1 **Certificate.** When the requirements of the law and of the rules have been complied with, and the Patent Office has adjudged a mark registrable, a certificate will be issued to the effect that the applicant has complied with the law and that he is entitled to registration of his mark on the Principal Register or on the Supplemental Register as the case may be. The certificate will state the date on which the application for registration was filed in the Patent Office, the act under which the mark is registered, the date of issue and the number of the certificate. Attached to the certificate and forming a part thereof will be a copy of the drawing of the mark and a printed copy of the written statement and declaration. A notice of the affidavit requirement of section 8(*a*) of the act will be attached to the certificate.

Certificates are numbered in consecutive order, those issued under the acts of 1905 and 1920 continuing the series of numbering heretofore employed; those issued under the act of 1946 begin with number 500,001.

21. REPUBLICATION OF MARKS REGISTERED UNDER 1905 ACT

21.1 **Republication requirements.** A registrant of a mark registered under the provisions of the acts of 1881 or 1905, may, at any time prior to the expiration of the period for which the registration was issued or renewed, upon the payment of the prescribed fee file an affidavit setting forth those goods stated in the registration on which said mark is in use in commerce, specifying the nature of such commerce, and that the registrant claims the benefits of the Trade-Mark Act of 1946. An abstract of title or an order for a title report for Patent Office use shall accompany the affidavit.

Such marks may, in lieu of republication under this rule, be reregistered in accordance with Rule 22.1 at the option of the registrant.

21.2 **Republication in Official Gazette.** A notice of the claim of benefits under the act of 1946 and a reproduction of the mark will then be published in the Official Gazette as soon as practicable. The republished mark will retain its original registration number.

21.3 **Notice of republication.** A notice of such republication of the mark and of the requirement for the affidavit specified in section 8(*b*) of the act will be sent to the registrant.

21.4 **Not subject to opposition; subject to cancellation.** The republished mark is not subject to opposition on such publication in the Official Gazette but is subject to petitions to cancel as specified in Rule 15.1 and to cancellation for failure to file the affidavit specified in Rule 23.1.

22. REREGISTRATION OF MARKS REGISTERED UNDER PRIOR ACTS

22.1 **Reregistration of marks registered under acts of 1881, 1905 and 1920.** Trade-marks registered under the act of 1881, the act of 1905 or the act of 1920 may be reregistered under the act of 1946, either on the Principal Register, if eligible, or on the Supplemental Register, but a new complete application for registration must be filed complying with the rules relating thereto, and such application will be subject to examination and other proceedings in the same manner as other applications filed under the act of 1946.

23. CANCELLATION FOR FAILURE TO FILE AFFIDAVIT DURING SIXTH YEAR

23.1 **Cancellation for failure to file affidavit during sixth year.** The registration of any mark under the provisions of the act of 1946, and any registration republished under the provisions of section 12(*c*), shall be cancelled at the end of six years following the date of registration or the date of such republication, unless within one year next preceding the expiration of such six years the registrant shall file in the Patent Office an affidavit showing that said mark is still in use or showing that its nonuse is due to special circumstances which excuse such nonuse and is not due to any intention to abandon the mark.

23.2 **Requirements for affidavit.** The affidavit required by Rule 23.1 must:

(*a*) Be executed by the registrant after expiration of the five-year period;

(*b*) Identify the certificate of registration by the certificate number and date of registration;

(*c*) Recite sufficient facts to show that the mark described in the registration is still in use in commerce, specifying the nature of such commerce, or recite sufficient facts to show that its nonuse is due to special circumstances which excuse such nonuse and is not due to any intention to abandon the mark; and,

(*d*) Be accompanied by an abstract of title or an order for a title report for Office use.

23.3 **Acknowledgment of receipt of affidavit.** The registrant will be notified by the Examiner of Trade-Marks of the receipt of the affidavit, and, if satisfactory, of its acceptance.

23.4 **Reconsideration of affidavit.** If the affidavit is insufficient the registrant will be notified of the reasons by the Examiner. Reconsideration of such refusal may be requested within six months from the date of the mailing of the notice. The request for reconsideration must state the reasons therefor; a supplemental or substitute affidavit cannot be considered unless it is received before the expiration of six years from the date of the registration, or from the date of republication.

See Rules 18.1, 18.2 and 18.4 for appeal.

23.5 **Time of cancellation.** If no affidavit is filed the registration will be cancelled forthwith by the Commissioner after the end of the sixth year and a notice of the cancellation will be sent to the registrant. If the affidavit is filed but is refused, cancellation of the registration will be withheld pending further proceedings.

24. AFFIDAVIT FOR INCONTESTABILITY

24.1 **Affidavit for incontestability.** The affidavit required by section 15 of the act to acquire incontestability for a mark registered on the Principal Register or a mark registered under the act of 1881 or 1905 and republished under section 12(c) must

(*a*) Be signed by the registrant;

(*b*) Identify the certificate of registration by the certificate number and date of registration;

(*c*) Recite the goods or services stated in the registration on or in connection with which the mark has been in continuous use in commerce for a period of five years subsequent to the date of registration or date of republication under section 12(*c*) of the act, and is still in use in commerce, specifying the nature of such commerce;

(*d*) Specify that there has been no final decision adverse to registrant's claim of ownership of such mark for such goods or services, or to registrant's right to register the same or to keep the same on the register;

(*e*) Specify that there is no proceeding involving said rights pending in the Patent Office or in a court and not finally disposed of;

(*f*) Be filed within one year after the expiration of any such five year period.

The registrant will be notified of the receipt of the affidavit.

24.2. **Combined with other affidavits.** The affidavit filed under section 15 of the act for the purpose of acquiring incontestability may also be used as the affidavit required by section 8 provided it also complies with the requirements and is filed within the time limit specified in Rules 23.1 and 23.2.

In appropriate circumstances the affidavit filed under section 15 of the act may be combined with the affidavit required for renewal of a registration, see Rule 26.3.

25. CORRECTION, DISCLAIMER, SURRENDER, ETC.

25.1 **New certificate on change of ownership.** In case of change of ownership of a registered mark a new certificate of registration may be issued in the name of the assignee for the unexpired part of the original period, at the request of the assignee. The assignment must be recorded in the Patent Office and the request must be accompanied by the required fee and by an abstract of title or an order for a title report for Office use.

25.2 **Surrender, cancellation, disclaimer in whole.** The Commissioner may permit any registration to be surrendered or cancelled, or any registered mark to be disclaimed in whole, upon application by the registrant. Application for such action must be signed by the registrant and must be accompanied by the required fee, and by an abstract of title or an order for a title report for Office use.

25.3 **Amendment and disclaimer in part.** The Commissioner may permit any registration to be amended or any registered mark to be disclaimed in part, upon application by the registrant. Application for such actions must specify the amendment or disclaimer and be signed by the registrant, and must be accompanied by the required fee, and by an abstract of title or an order for a title report for Office use. The certificate of registration or, if said certificate is lost or destroyed, a certified copy thereof, must also be submitted in order that the Commissioner may make appropriate entry thereon and in the records of the Office. The registration when so amended must still contain registrable matter and the mark as amended must be registrable as a whole, and such amendment or disclaimer must not involve such changes in the registration as to alter materially the character of the mark.

Changes in the description of goods other than in the nature of deletions will not be permitted except under the provisions of Rule 25.5.

A printed copy of the amendment or disclaimer shall be attached to each printed copy of the registration.

25.4 **Correction of Office mistake.** Whenever a material mistake in a registration, incurred through the fault of the Patent Office, is clearly disclosed by the records of the Office, a certificate stating the fact and nature of such mistake, signed by the Commissioner and sealed with the seal of the Patent Office, shall be issued without charge and recorded and a printed copy thereof shall be attached to each printed copy of the registration certificate and such corrected certificate shall thereafter have the same effect as if the same had been originally issued in such corrected form, or in the discretion of the Commissioner a new certificate of registration may be issued without charge.

25.5 **Correction of mistake by registrant.** Whenever a mistake has been made in a registration and a showing has been made that such mistake occurred in good faith through the fault of the applicant, the Commissioner may issue a certificate of correction, or in his discretion, a new certificate upon the payment of the required fee, provided that the correction does not involve such changes in the registration as to require republication of the mark.

Application for such action must specify the mistake for which correction is sought; the manner in which it arose; show that it occurred in good faith, must be signed by the applicant, and accompanied by the required fee.

A printed copy of the certificate of correction shall be attached to each printed copy of the registration.

26. TERM AND RENEWAL

26.1 **Term of original registrations and renewals.** Registrations under the act of 1946 remain in force for twenty years, and may be renewed for periods of twenty years from the expiring period, unless previously cancelled, disclaimed in whole or surrendered.

Registrations under the acts of 1905 and 1881 remain in force for their unexpired terms and may be renewed in the same manner as registrations under the act of 1946.

Registrations under the act of 1920 which were issued on or before January 5, 1928, expire on January 5, 1948, and such registrations issued after January 5, 1928, expire twenty years from their date of issue. Such registrations cannot be renewed unless renewal is required to support foreign registrations and in such case may be renewed on the Supplemental Register in the same manner as registrations under the act of 1946.

26.2 **Period within which application for renewal must be filed.** An application for renewal may be made by the registrant at any time within six months before the expiration of the period for which the certificate of registration was issued or renewed, or it may be made within three months after such expiration on payment of the additional fee required.

26.3 **Requirements of application for renewal.** The application for renewal must be accompanied by:

(*a*) An affidavit by the registrant stating that the mark is still in use in commerce, specifying the nature of such commerce. This affidavit must be executed not more than six months before the expiration of the registration.

(*b*) The required fee, including the additional fee in case of a delayed application for renewal.

The affidavit and the fee must accompany the application for renewal and therefore must be filed within the period provided for applying for renewal. If defective or insufficient, they cannot be completed after the period for applying for renewal has passed; if completed after the initial six months period has expired but before the expiration of the three months delay period, the application can be considered only as a delayed application for renewal.

The application for renewal must also include:

(*c*) An abstract of title or an order for a title report for Office use.

(*d*) If the applicant is not domiciled in the United States the designation of some person resident in the United States on whom may be served notices of process in proceedings affecting the mark.

(*e*) If the mark is registered under the act of 1920, a verified showing that renewal is required to support foreign registrations.

26.4 **Refusal of renewal.** If the application for renewal is incomplete or defective, the renewal will be refused by the Examiner of Trade-Marks. The application may be completed or amended in response to a refusal, subject to the provisions of Rules 8.2 and 26.3.

See Rules 18.1 and 18.2 for appeal.

27. ASSIGNMENT OF MARKS

27.1 **Requirements for assignments.** A mark which has been registered or a mark for which an application for registration has been filed shall be assignable with the good will of the business in which the mark is used, or with that part of the good will of the business connected with the use of and symbolized by the mark.

Such assignments shall be by instruments in writing duly executed. No assignment will be recorded unless it has been executed and acknowledged as provided in section 11 of the act and unless:

(*a*) The certificate of registration is identified in the assignment by the certificate number and date of registration, or, an application for registration shall have been first filed in the Patent Office and the application is identified in the assignment by serial number and date of filing; and

(*b*) It is in the English language;

(*c*) The fee for recording is received;

(*d*) An appointment of a resident agent is made in case the assignee is not domiciled in the United States. The appointment must be separate from the assignment and there must be a separate appointment for each registration or application assigned in one instrument.

The date of record of the assignment is the date of the receipt of the assignment at the Patent Office in proper form and accompanied by the full fee for recording.

27.2. **Action may be taken by assignee of record.** Any action which may or must be taken by a registrant or applicant may be taken by the assignee provided the assignment has been recorded, and unless such assignment has been recorded no assignee will be recognized.

27.3 **Certificate of registration may issue to assignee.** The certificate of registration may be issued to the assignee of the applicant, but the assignment must first be entered of record in the Patent Office as of a date not later than the fourth Thursday before the date the certificate of registration is to bear. See Rule 10.2.

28. UNPROVIDED FOR AND EXTRAORDINARY CASES

28.1 **Cases not specifically defined.** All cases not specifically defined and provided for in these rules will be decided in accordance with the merits of each case under the authority of the Commissioner, and such decision will be communicated to the interested parties in writing.

28.2 **Comissioner may suspend certain rules.** In an extraordinary situation, when justice requires and no other party is injured thereby, any requirement of these rules not being a requirement of the statute may be suspended or waived by the Commissioner.

29. AMENDMENT OF RULES

29.1 **Amendments to rules will be published.** All amendments to these rules will be published in the Official Gazette and in the Federal Register.

29.2 **Publication of notice of proposed amendments.** Whenever required by law, and in other cases whenever practicable, notice of proposed amendments to these rules will be published in the Federal Register and in the Official Gazette. If not published with the notice, copies of the text will be furnished to any person requesting the same. All comments, suggestions, and briefs received within a time specified in the notice will be considered before adoption of the proposed amendments which may be modified in the light thereof.

Oral hearings may be held at the discretion of the Commissioner.

30. TIME OF TAKING EFFECT

30.1 **Effective date of rules.** These rules shall take effect on July 5, 1947, and shall apply to all applications for registration, registrations, and proceedings under and subject to the act of 1946. Applications filed prior to July 5, 1947, and still subject to the acts under which said applications were filed shall be prosecuted and certificates granted in accordance with the act under which filed and the rules thereunder in effect immediately prior to July 5, 1947.

Contested or inter partes proceedings pending on July 5. 1947, shall be governed by the rules in effect immediately prior to that date except that Rules 17.7 and 17.10 may be applied in any case in which copies of testimony or briefs have not been filed; such proceedings instituted on or after July 5, 1947, shall be governed by the present rules.

31. APPLICATIONS PENDING ON JULY 5, 1947

31.1 **Conversion of pending applications to act of 1946.** Applications for registration filed before July 5, 1947, and pending in the Patent Office on and after that date may be amended, if practicable, to bring them under the provisions of the act of 1946.

31.2 **Requirements of amendment.** Such amendment must supply the facts required by these rules to be included in the statement of an original application which may not be contained in the statement on file, supported by a supplemental affidavit including any required averments which may not be contained in the original declaration. The amendment is subject to all rules relating to or affecting amendments and must not be inconsistent with the original statement and declaration. The amendment may take the form of a substitute written application and in any case the Examiner may require the amended application to be rewritten.

The entire filing fee required for an original application under the act of 1946 must be paid, but the filing fee previously paid will be considered as part payment of such filing fee.

For the purpose of proceedings in the Patent Office, the date of filing the amendment will be considered as the filing date of the application; for the purpose of contested proceedings, the applicant may be permitted to rely on the filing date of his original application, provided the mark was registrable under the act on which the original application was based.

31.3 **Applications which cannot be amended.** An amendment to bring an application under the act of 1946 will not be considered:

(*a*) If the application is abandoned at the time the amendment is filed;

(*b*) If the application is under rejection or other action by the Examiner and the appropriate response thereto is not received within the time for response, in which case the mere filing of the proposed amendment will not avoid abandonment of the application;

(*c*) If filed after the notice of allowance has been sent; and

(*d*) In any other case if, from the nature of the particular amendment or the condition of the application, it is not practicable.

FORMS

(Only a selection of representative forms is included here; a more complete collection of forms will appear in the final rules.)

A. APPLICATION BY INDIVIDUAL FOR TRADE-MARK, PRINCIPAL REGISTER

To the Commissioner of Patents:

(Statement)

____________________, a citizen of ___________
(name) (citizenship)
residing at (1)____________ and doing business at
________________ has adopted and is using the trade-mark shown in the accompanying drawing
for ____________________________ in Class ______
(particular description of goods) (number
____________ and presents herewith five specimens
and title of Class)
(or facsimiles) showing the trade-mark as actually used in connection with such goods, the trade-mark being applied to (2)________________ and requests that the same be registered in the United States Patent Office on the Principal Register in accordance with the Act of July 5, 1946.

The trade-mark was first used on ____________
(date)
and first used in commerce (3) ________________
which may lawfully be regulated by Congress on
________________.(4)
(date)

(Declaration)

Applicant being duly sworn, deposes and says that he believes himself to be the owner of the trade-mark, which is in use in commerce (3)__________________ and that no other person, firm, corporation or association, to the best of his knowledge and belief, has the right to use such trade-mark in commerce which may lawfully be regulated by Congress, either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive, that the drawing and description truly represent the trade-mark sought to be registered, that the specimens (or facsimiles) show the trade-mark as actually used in connection with the goods, and that the facts set forth in the statement are true.

(Power of Attorney)

The undersigned hereby appoints ____________
of __________________ State of ________________
Registration No. ______________ (5)____________
his attorney (or agent) to prosecute this application for registration with full power of substitution and revocation, to transact all business

in the Patent Office connected therewith, and to receive the certificate.

(signature)

State of --------------
ss ------------
(date)
County of ------------

Before me personally appeared -------------- to me known to be the person described in the above application for registration, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.

(Notary Public)

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(1) If applicant is not domiciled in the United States, the following paragraph appointing a domestic representative must be added to the statement:
"---------------------- whose postal address is ------------, ------------, ------ is designated as applicant's representative on whom notices or processes in proceedings affecting the mark may be served."
(Street) (City) (State)

(2) Insert: "the goods"; "the containers for the goods"; "displays associated with the goods", and/or, "tags or labels affixed to the goods", as the case may be.

(3) Specify kind of commerce, such as: "among the several states"; "in commerce between foreign nations and the United States"; (or specify other commerce which may lawfully be regulated by Congress), as the case may be.

(4) If applicant is not domiciled in the United States, this paragraph may be omitted in appropriate cases, see Rule 5.8, and the following paragraph substituted therefor:
"Said mark has been registered in ------------ (country) Registration No. ----------, dated ---------- on an application for registration Serial No. ------------ filed ---------------------------."
In such cases, in the declaration,
"in commerce (3) ----------"
may also be omitted.

(5) If the attorney is not registered on the Patent Office Register the power of attorney must recite that he has been admitted to practice before one of the courts specified by Rule 3.2.

(Note: Appropriate forms for firms, and corporations or associations will appear in the printed copy of the rules as finally approved.)

B. APPLICATION BY INDIVIDUAL FOR CONCURRENT REGISTRATION OF TRADE-MARK, PRINCIPAL REGISTER

To the Commissioner of Patents:

(Statement)

--------------------, a citizen of ------------ (citizenship) residing at ------------ and doing business at ----------------- has adopted and is using the trade-mark shown in the accompanying drawing for ----------------------------- (particular description of goods) in Class ------ (number) ---------- (title of Class) and presents herewith five specimens (or facsimiles) showing the trade-mark as actually used in connection with such goods, the trade-mark being applied to (2)--------------- and requests that the same be registered in the United States Patent Office on the Principal Register in accordance with the Act of July 5, 1946, for the goods stated above for the area comprising (7)---------------.

(Exceptions to claim of exclusive use)

The following exceptions to applicant's claim of exclusive use are specified:

By --------------- located and doing business at ---------------------- and using the mark -------------------- (description of the mark) in connection with the following --------------------------------------- (particular description of goods or services) the mark being used as follows --------------- (mode of application or use) -------- in the territory embracing the states of ----------- from ----------- (date) to ------------ (date);

and,

By ---------------------- located and doing business, etc.

The trade-mark was first used by applicant on ---------------- (date) and first used by applicant in commerce (3)--------------- which may lawfully be regulated by Congress on ----------------. (date)

(Declaration)

Applicant being duly sworn, deposes and says that he believes himself to be the owner of the trade-mark which is in use in commerce (3)------------------ and that no other person, firm, corporation or association, to the best of his knowledge and belief, has the right to use such trade-mark in commerce which may lawfully be regulated by Congress, either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive, except for the specified exceptions, that the drawing and description truly represent the trade-mark sought to be registered, that the specimens (or facsimiles) show the trade-mark as actually used in connection with the goods, and that the facts set forth in the statement are true.

(Power of Attorney)

Use Power of Attorney and Acknowledgment of Form A.

---

(2) See Note (2), Form A.

(3) See Note (3), Form A.

(7) Describe the area for which registration is desired.

C. APPLICATION BY INDIVIDUAL FOR SERVICE MARK, PRINCIPAL REGISTER

To the Commissioner of Patents:

(Statement)

------------------ (name of applicant) a citizen of -------------- (citizenship) residing at -------------- and doing business at ------------------ has adopted and is using the service mark shown in the accompanying drawing (8) for ------------------------------------- (particular description of services) in Class --------------------- (number and title of class) and presents herewith (9)------------------ showing the service mark as actually used in connection with the sale or advertising of such services; the service mark being used as follows: -------------------------- (mode of application or use) and requests that the same be registered in the United States Patent Office on the Principal Register in accordance with the Act of July 5, 1946.

The service mark was first used on ---------- (date)

and first used in commerce (3)---------------- which may lawfully be regulated by Congress on ------------. (date)

(Declaration)

Applicant being duly sworn, deposes and says that he believes himself to be the owner of the service mark, which is in use in commerce (3) -------------------------- and that no other person, firm, corporation or association, to the best of his knowledge and belief, has the right to use such service mark in commerce which may lawfully be regulated by Congress either in the identical form thereof, or in such near resemblance thereto as might be calculated to deceive; that the drawing (if any) and description truly represent the service mark sought to be registered; that (10)---------------- show the service mark as actually used in connection with the sale or advertising of services, and that the facts set forth in the Statement are true.

(Power of Attorney)

Use Power of Attorney and Acknowledgement of Form A.

---

(3) See Note (3), Form A.

(8) If drawing is not possible, see Rule 6.1, insert description of the mark instead of reference to the drawing.

(9) If specimens (or facsimiles) are not possible, see Rule 7.3, state nature of other representation furnished.

(10) "the specimens (or facsimiles)" or, state nature of other representation furnished.

E. APPLICATION BY AN ASSOCIATION FOR COLLECTIVE MARK, PRINCIPAL REGISTER

To the Commissioner of Patents:

(Statement)

---------------- (name of applicant) an association (11)--------- duly organized under the laws of ------------- (state or country under which organized) -------------- located at ------------------ (location of association (12)) and doing business at -------------------- (business address) has adopted and is exercising legitimate control over the use of the collective mark shown in the accompanying drawing for -------------------- (particular description of goods) in Class ------------------- (number and title of Class) and presents herewith five specimens (or facsimiles) showing the collective mark as actually used in connection with such goods by members of such organization, the collective mark being applied to (2)--------- and requests that the same be registered in the United States Patent Office on the Principal Register in accordance with the Act of July 5, 1946. The collective mark is used upon the goods to indicate (12)------------------------------.

The collective mark was first used on --------- (date) and first used in commerce (3)----------------- which may lawfully be regulated by Congress on -----------. (date)

(Declaration)

-------------------- (name of affiant), ------------------- (official title) of -------------------- (association (11) name), the applicant named in the foregoing statement, being duly sworn, deposes and says that he believes said association (11) is the owner of the collective mark which is in use in commerce (3)----------------- and that, to the best of his knowledge and belief, no other person, firm, corporation or association has the right to authorize the use of, and no person, firm, corporation or association other than members has the right to use, such collective mark in commerce which may lawfully be regulated by Congress either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive, that the drawing and description truly represent the collective mark sought to be registered, that the specimens (or facsimiles) show the mark as actually used in connection with the goods, and that the facts set forth in the statement are true.

(Power of Attorney)

The undersigned hereby appoints ----------- of -------------------- State of ------------ Registration No. ------------ (5)----------- its attorney (or agent) to prosecute this application for registration with full power of substitution and revocation, to make alterations and amendments therein, to receive the certificate and to transact all business in the Patent Office connected therewith.

(Name of Applicant)

By --------------------------
(Full signature of officer)

(Official title)

State of--------------
ss -----------
(Date)
County of -----------

Before me personally appeared ------------------------- to me known to be the person described in the above application for registration, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.

(Notary Public)

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(2) See Note (2), Form A.

(3) See Note (3), Form A.

(5) See Note (5), Form A.

(11) Or cooperative or other collective group or organization.

(12) Membership in the organization or other appropriate statement.

F. APPLICATION BY INDIVIDUAL FOR CERTIFICATION MARK, PRINCIPAL REGISTER

To the Commissioner of Patents:

(Statement)

--------------------- (name), a citizen of ---------- (citizenship) residing at -------------- and doing business at ------------------- has adopted and is exercising legitimate control over the use of the certification mark shown in the accompanying drawing for ------------------ (particular description of goods) in Class------ (number and title of Class) ----------------- and presents herewith five specimens (or facsimiles) showing the certification mark as actually used in connection with such goods by persons duly authorized by applicant, the certification mark being applied to (2)______________________ and requests that the same be registered in the United States Patent Office on the Principal Register in accordance with the Act of July 5, 1946. The certification mark is used upon the goods to indicate that (13)________________________________.

The certification mark was first used on ________________ (date) and first used in commerce (3)______________________ which may lawfully be regulated by Congress on ____________ (date)

(Declaration)

Applicant being duly sworn, deposes and says that he believes himself to be the owner of the certification mark, which is in use in commerce (13)______________________ and that, to the best of his knowledge and belief, no other person, firm, corporation or association has the right to authorize the use of, and no person, firm, corporation or association other than persons duly authorized by applicant has the right to use, such certification mark in commerce which may lawfully be regulated by Congress either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive, that the drawing and description truly represent the certification mark sought to be registered, that the specimens (or facsimiles) show the certification mark as actually used in connection with the goods, and that the facts set forth in the statement are true.

(Power of Attorney)

Use Power of Attorney and Acknowledgment of Form 1.

---

(2) See Note (2), Form A.
(3) See Note (3), Form A.
(13) Insert a statement that the mark certifies regional or other origin, material, mode of manufacture, quality, accuracy or other characteristic of such goods, or that the work or labor on the goods was performed by a member of a union or other organization, or other appropriate statement.

J. APPLICATION BY INDIVIDUAL FOR TRADE-MARK, SUPPLEMENTAL REGISTER

To the Commissioner of Patents:

(Statement)

____________________, a citizen of__________ (citizenship) residing at (1)____________ and doing business at ______________________ has adopted and is using the mark shown (8) for________________ (particular description of goods) _______in Class______________ (number and title of Class) and presents herewith (9)____________________ showing the mark as actually used in connection with such goods, the mark being applied to (2)__________ and requests that the same be registered in the United States Patent Office on the Supplemental Register in accordance with the Act of July 5, 1946.

The mark was first used on______________ (date) and first used in commerce (3)________________ which may lawfully be regulated by Congress on ________________ (date), (15)____________________.

(Declaration)

Applicant being duly sworn, deposes and says that he believes himself to be the owner of the mark, which is in use in commerce (3)__________ and that no other person, firm, corporation or association to the best of his knowledge and belief, has the right to use such mark in commerce which may lawfully be regulated by Congress, either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive, that the drawing (if any) and description truly represent the mark sought to be registered, that the (10)____________________ show the mark as actually used in connection with the goods, and that the facts set forth in the statement are true.

(Power of Attorney)

Use Power of Attorney and Acknowledgment of Form 1.

---

(1) If applicant is not domiciled in the United States, see Note (1), Form A.
(2) See Note (2), Form A.
(3) See Note (3), Form A.
(8) See Note (8), Form C.
(9) See Note (9), Form C.
(10) See Note (10), Form C.
(15) Add one of the following applicable clauses:
"and has been in lawful use in such commerce upon or in connection with the goods for the year preceding the filing of this application."
or
"and applicant has begun the use of such mark in commerce between the United States and ______________________." (specify foreign country)
In the latter instance a separate showing should be submitted to the effect that domestic registration is required as a basis for foreign protection of said mark.

K. APPLICATION BY INDIVIDUAL FOR RENEWAL OF REGISTRATION

To the Commissioner of Patents:

(Application)

______________ ______________, a citizen of (1) ___________ (citizenship) residing at ______________ (address) and doing business at ______________ (business address) requests that Certificate of Registration No. ________ granted to ______________ on ______________ which he now owns as evidenced by the accompanying (16)____________ be renewed (17) in accordance with the provisions of section 9 of the Trade-Mark Act of July 5, 1946.

The renewal fee of $25.00 (18) is presented herewith.

(Affidavit)

Applicant, being duly sworn, deposes and says that he is the owner of Registration No. ________ and that the mark described therein is now in use in commerce (3)____________ and that the facts recited in the application are true.

(Power of Attorney)

The undersigned hereby appoints __________ of ______________ State of ______________ Registration No. __________(5) ____________, his

attorney (or agent) to prosecute this application for renewal with full power of substitution and revocation, to transact all business in the Patent Office connected therewith, and to receive the certificate.

______________________ (Signature)

State of ______________ }
} ss ____________ (Date)
County of ___________ }

Before me personally appeared __________ __________ to me known to be the person described in the above application for renewal, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.

______________________ (Notary Public)

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(1) If applicant is not domiciled in the United States, see Note (1), Form A.
(3) See Note (3), Form A.
(5) See Note (5), Form A.
(16) Abstract of title, or, title report, as the case may be.
(17) If the registration sought to be renewed is registered under the Act of March 19, 1920, here insert "on the Supplemental Register" and add the following paragraph:
"Renewal of Registration No. ______________ is necessary to support Registration No. ____________ registered in ________________ (Foreign Country) on __________ (Date)."
(18) If the application is a delayed application for renewal, the fee is $30.00.

L. AFFIDAVIT UNDER SECTION 8(*b*)

To the Commissioner of Patents:

____________ ______________, being duly sworn, deposes and says that he is the owner of Registration No. ________, dated ______________(19), as evidenced by the accompanying (16)__________; that the mark described therein is still in use in commerce (20)______________________________ ______________________________________

(Power of Attorney)

The undersigned hereby appoints __________ __________ of __________ State of __________ Registration No. __________(5) __________ his attorney (or agent) to file this affidavit, with full power of substitution and revocation, and to transact all business in the Patent Office in connection therewith.

______________________ (Signature)

State of ______________ }
} ss ____________ (date)
County of ___________ }

Before me personally appeared __________ __________ to me known to be the person described in the foregoing affidavit, who signed the said affidavit in my presence, and made oath before me to the allegations set forth therein as being under oath on the day and year as aforesaid.

______________________ (Notary Public)

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(5) See Note (5), Form A.
(16) See Note (16), Form K.
(19) If the mark has been republished under the provisions of subsection (c) of section 12 of the Trade-Mark Act of 1946, add the following:
"and republished ______________________" (Date of republication)
(20) Recite sufficient facts to show that the mark is in use in commerce among the several states; in commerce between foreign nations and the United States; (or specify other commerce which may lawfully be regulated by Congress), as the case may be, or, if the mark is not being used in such commerce, recite sufficient facts to excuse such non-use and state that non-use is not due to any intention of the owner to abandon the mark.

M. AFFIDAVIT UNDER SECTION 12(c)

To the Commissioner of Patents:
Registration No.______________
Dated______________
Act of______________
To__________________
(Registrant)

______________________________, being duly sworn, deposes and says that he is the owner of Registration No.______________, above identified, as evidenced by the accompanying (16) ______________________; that said registration is now in force; that the trade-mark described therein is in use in commerce (3)_______ on each of the following goods named in said registration, ______________________________ ______________________________ and claims the benefits of the Trade-Mark Act of 1946 for said trade-mark.

(Power of Attorney)

Use Power of Attorney and Acknowledgment of Form L.

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(3) See Note (3), Form A.
(16) See Note (16), Form K.

N. AFFIDAVIT UNDER SECTION 15

To the Commissioner of Patents:

______________________________________, being duly sworn, deposes and says that he is the owner of Registration No.______________ dated ______________(19), that the mark described in said registration has been in continuous use in commerce (3)______________ for five consecutive years, from ______________ to ________________, subsequent to the date of registration (or republication), on or in connection with the following______________ (Particular description of goods or services) ______________________________ stated in the registration and that said mark is still in use in commerce (3)______________________________ ______________________________________; that there has been no final decision adverse to affiant's claim of ownership of such mark (21)______________________ or his right to register the same, or keep the same on the register, and, that there is no proceeding involving said rights pending in the Patent Office or in a court and not finally disposed of.

(Power of Attorney)

Use Power of Attorney and Acknowledgment of Form L.

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(3) See Note (3), Form A.
(19) See Note (19), Form L.
(21) Insert:
"for such goods", or "for such services" as the case may be.

O. COMBINED AFFIDAVITS UNDER SECTIONS 8(*b*) AND 15

To the Commissioner of Patents:

--, being duly sworn, deposes and says that he is the owner of Registration No. ----------------, dated --------------------(19), as evidenced by the accompanying (16)------------------------; that the mark described therein has been in continuous use in commerce (3)---------------- for five consecutive years, from ---------------- to --------------------, subsequent to the date of registration, on or in connection with the following ------------------------------------ (Particular description of goods or services) ------------------------, stated in the registration; that the mark is still in use in commerce (20)-- -- --; that there has been no final decision adverse to affiant's claim of ownership of such mark (21)----------------------------, or his right to register the same, or keep the same on the register, and, that there is no proceeding involving said rights pending in the Patent Office or in a court and not finally disposed of.

(Power of Attorney)

Use Power of Attorney and Acknowledgment of Form L.

---

(3) See Note (3), Form A.
(16) See Note (16), Form K.
(19) See Note (19), Form L.
(20) See Note (20), Form L.
(21) See Note (21), Form N.

S. ASSIGNMENT OF REGISTERED MARK

Whereas ------------------------, of the City of------------------, county of--------------, and State of ----------------------, has adopted and used in his business a trade-mark, which is registered under No.-----------, dated-----------, 19----, in the United States Patent Office; and

Whereas ------------------------, of the City of------------------, county of--------------, and State of-----------------------, is desirous of acquiring said mark:

Now, Therefore, To All Whom it May Concern:

Be it known that for and in consideration of the sum of ------------------dollars and other good and valuable consideration to him in hand paid, the receipt of which is hereby acknowledged, said--------------------------- by these presents does sell, assign, and transfer, unto the said ------------------------ the entire right, title, and interest in and to the said trade-mark and the registration thereof, No.--------------, together with (22)---------------------------- --.

---------------------------------- (Signature)

State of--------------------
County of------------------ ss

Personally appeared before me the said-------- ------------------------ and acknowledged the above instrument as his free act and deed this ---------------- day of--------------, 19----.

---------------------------------- (Notary Public)

---

(22) Insert one of the following applicable clauses:

"the good will of the business in connection with which the said mark is used."

or

"that part of the good will of the business connected with the use and symbolized by the mark."

TRADE-MARKS

OFFICIAL GAZETTE, MAY 13, 1947

[Vol. 598. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 476,392. Jensen Manufacturing Company, Seattle, Wash. Filed Nov. 13, 1944.

Jen-Cel-Lite

"Lite" is disclaimed apart from the mark as shown.

FOR AGGREGATE IN BAT FORM FOR STUFFING, QUILTING, FILLING OR PADDING USE AND FORMED OF NON-CONTINUOUS FILAMENTS, COMPOSED WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES.

Claims use since June 19, 1944.

Ser. No. 499,669. John R. Stewart, Philadelphia, Pa. Filed Apr. 4, 1946.

STEWARTOTOP

FOR RAYON, IN THE FORM OF SYNTHETIC FIBERS PROCESSED INTO SLIVERS TO BE MADE INTO YARN FOR KNITTING AND WEAVING AND SOLD IN BALL FORM, EACH BALL WEIGHING ABOUT TWENTY POUNDS AND WHICH ARE BALED, TEN BALLS TO A BALE.

Claims use since Mar. 28, 1946.

Ser. No. 500,739. Celanese Corporation of America, New York, N. Y. Filed Apr. 23, 1946.

INTERCEL

FOR SHEETS, WEBS OR BATTS MADE WHOLLY AND PARTIALLY OF CELLULOSE DERIVATIVES.

Claims use since Apr. 18, 1946.

Ser. No. 506,718. Hercules Powder Company, Wilmington, Del. Filed May 18, 1946.

STAYBELITE ESTER

No claim is made to the exclusive use of the word "Ester" separate and apart from the mark.

FOR RESIN FOR USE IN ADHESIVES, AS ADDITIVE TO CHICLE FOR CHEWING GUM, IN CERTAIN SYNTHETIC RESINS, IN VARNISHES AND CELLULOSE DERIVATIVE LACQUERS.

Claims use since Mar. 22, 1946.

CLASS 2

RECEPTACLES

Ser. No. 506,296. The Duriron Company, Inc., Dayton, Ohio. Filed July 26, 1946.

DURCO

FOR FACTORY EQUIPMENT FOR HANDLING CORROSIVE LIQUIDS—NAMELY, MIXING TANKS, STORAGE VESSELS AND TANKS, REACTION TANKS, CRYSTALLIZING TANKS, KETTLES FOR STORING CORROSIVE LIQUIDS, KETTLES FOR TREATING CORROSIVE LIQUIDS, AND PARTS THEREOF.

Claims use since January 1945.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

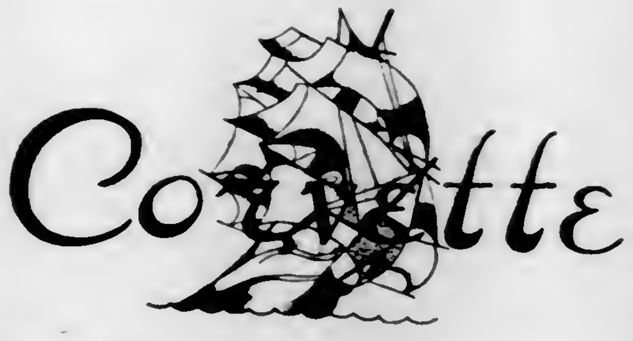
Ser. No. 507,540. Morris Roskin, doing business as Corvette Leather Goods Company, Gloversville, N. Y. Filed Aug. 16, 1946.

Corvette

FOR HANDBAGS.

Claims use since Feb. 1, 1946.

Ser. No. 507,541. Morris Roskin, doing business as Corvette Leather Goods Company, Gloversville, N. Y. Filed Aug. 16, 1946.



FOR HANDBAGS.
Claims use since Feb. 1, 1946.

Ser. No. 513,589. Skinner & Kennedy Stationery Co., St. Louis, Mo. Filed Dec. 2, 1946.

FIREFLY

FOR KEY CONTAINERS.
Claims use since Sept. 30, 1946.

Ser. No. 513,945. Nash, Inc., Jersey City, N. J. Filed Dec. 9, 1946.

PLASTONE

FOR WALLETS AND BILLFOLDS.
Claims use since Oct. 31, 1946.

Ser. No. 514,355. King Innovations, Inc., New York, N. Y. Filed Dec. 16, 1946.

THE
ROUNDUP

FOR LADIES' HANDBAGS, AND COMBINED HANDBAGS AND COSMETIC CASES.
Claims use since Oct. 15, 1946.

Ser. No. 514,944. S. Dresner & Son, Inc., Chicago, Ill. Filed Dec. 28, 1946.

Miss 1947

FOR LADIES' AND MISSES' FITTED (OVERNIGHT) CASES.
Claims use since July 1946.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 482,451. Carl H. Van Sinden, doing business as Kem-Stone Products Co., (not incorporated), Chicago, Ill., assignor to Kem-Stone Products Company, Chicago, Ill., a corporation of Illinois. Filed Apr. 21, 1945.

TAP-SUDS

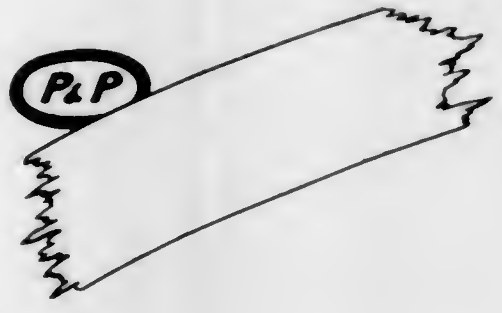
Applicant disclaims the word "Suds" apart from the mark as shown.
FOR DETERGENTS FOR GENERAL HOUSEHOLD AND ANALOGOUS USES.
Claims use since Aug. 1, 1944.

Ser. No. 496,178. Alice L. Fernandez, doing business as Victory Enterprises, New York, N. Y. Filed Feb. 7, 1946.

SPIFFY
IN
A JIFFY

No claim is made to the words "In a Jiffy" aside from their use with the other part of the mark.
FOR CLEANSER FOR POTS AND PANS, WOODWORK AND PAINTED SURFACES.
Claims use since Nov. 10, 1945.

Ser. No. 499,430. Pappas and Pavlakos, Albuquerque, N. Mex. Filed Apr. 1, 1946.



FOR HAND CLEANER.
Claims use since Feb. 13, 1946.

Ser. No. 503,859. Associated Merchandising Corporation, New York, N. Y. Filed June 14, 1946.

P and S

FOR LAVENDER SHAVING BOWL CONTAINING SOAP.
Claims use since Apr. 5, 1939.

Ser. No. 504,143. Affiliated Retailers, Inc., New York, N. Y. Filed June 19, 1946.

ARISTON

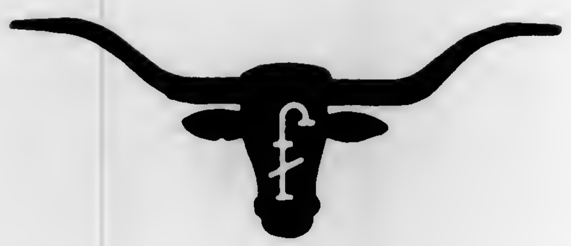
FOR SOAPS—NAMELY, KITCHEN, BATH AND ALL PURPOSE HOUSEHOLD SOAPS.
Claims use since May 10, 1946.

Ser. No. 505,047. John W. B. Foringer, doing usiness as Bar F Products, Chicago, Ill. Filed July 3, 1946.

BAR-F

FOR CREAM FOR POLISHING AND PRESERVING LEATHER.
Claims use since May 28, 1946.

Ser. No. 505,048. John W. B. Foringer, doing usiness as Bar F Products, Chicago, Ill. Filed July 3, 1946.



FOR CREAM FOR POLISHING AND PRESERVING LEATHER.
Claims use since May 28, 1946.

Ser. No. 505,049. John W. B. Foringer, doing usiness as Bar F Products, Chicago, Ill. Filed July 3, 1946.

FOR CREAM FOR POLISHING AND PRESERVING LEATHER.
Claims use since May 28, 1946.

CLASS 5

ADHESIVES

Ser. No. 501,312. Gene J. Crispino, doing business as Chemo-Plastics Company, Village of Westbury, N. Y., assignor to Chemo-Plastics Company, Inc., Nassau County, N. Y. Filed May 2, 1946.

RUG
SEEZ

No claim is made to the word "Rug" alone, apart from the complete mark shown.
FOR ADHESIVE LIQUID COMPOUND ADAPTED TO PROVIDE A NON-SKID SURFACE ON THE BACK OF RUGS.
Claims use since Mar. 9, 1946.

Ser. No. 506,832. National Starch Products Inc., New York, N. Y. Filed Aug. 3, 1946.

WOOD-LOK

No claim is made to the word "Wood" apart from the mark.
FOR RESIN AND STARCH ADHESIVES.
Claims use since July 22, 1946.

Ser. No. 507,851. The Resinous Products & Chemical Company, Philadelphia, Pa. Filed Aug. 22, 1946.

UFORMITE

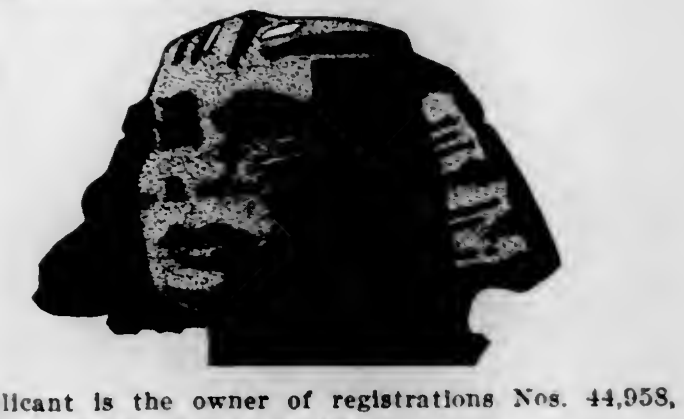
Applicant is the owner of Reg. No. 336,391.
FOR SYNTHETIC RESINOUS MATERIALS IN SOLID, LIQUID, OR POWDER FORM FOR USE AS BONDING AGENTS.
Claims use since November 1937.

Ser. No. 510,957. International Shoe Machine Corporation, Cambridge, Mass. Filed Oct. 16, 1946.

PERMASTAY

FOR SHOE CEMENTS.
Claims use since Sept. 25, 1946.

Ser. No. 512,480. The Arabol Mfg. Co., New York, N. Y. Filed Nov. 13, 1946.



Applicant is the owner of registrations Nos. 44,958, 181,634, and 194,011, all renewed.

FOR MUCILAGE, GLUE, SHOE CEMENT; ADHESIVE SIZINGS, WALL SIZINGS; TAPIOCA FLOUR, WHEAT STARCH, POTATO FLOUR, CORNSTARCH, GUM ARABIC, GUM TRAGACANTH—ALL PROCESSED FOR USE AS ADHESIVES; ADHESIVE CASEIN; ADHESIVE LATEXES; ADHESIVE PASTES AND GUMS, POWDERED DEXTRINE ADHESIVE; ADHESIVE CEMENTS; NATURAL AND SYNTHETIC RESINS—ALL PROCESSED FOR USE AS ADHESIVES; AND PROCESSED RUBBER ADHESIVES.
Claims use since about the middle of March 1942.

Ser. No. 518,721. General Gummed Products, Inc., Richmond Hill, Long Island, N. Y. Filed Mar. 8, 1947.

WOLCO

FOR GUMMED PAPER TAPE AND GUMMED CLOTH TAPE FOR GENERAL USE.
Claims use since Feb. 17, 1947.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 488,138. Wisconsin Alumni Research Foundation, Madison, Wis. Filed Sept. 7, 1945.

Dyne

FOR VITAMIN D CONCENTRATE IN MILK CONSTITUENTS FOR USE IN MILK, MILK PRODUCTS AND FOODS WHERE MILK IS USED AS AN INGREDIENT AND SOLD TO MILK, MILK PRODUCTS AND OTHER FOOD PRODUCERS, PROCESSORS AND DISTRIBUTORS.
Claims use since Apr. 7, 1945.

Ser. No. 493,623. Rees and Chapman, Vancouver, British Columbia, Canada. Filed Dec. 20, 1945.

Fluorol

FOR TOOTH POWDER AND TOOTH PASTE.
Claims use since Feb. 21, 1945.

Ser. No. 493,697. Harold R. Sibner, doing business as H. R. Sibner Co., New York, N. Y. Filed Dec. 21, 1945.

"His Nibs"

FOR AFTER SHAVE LOTION, HAND LOTION, HAIR LOTION, MASSAGE CREAM, SHAMPOO, HAIR DRESSING, TALCUM POWDER, TOILET WATER, DEODORANT, PERFUME, AND BUBBLE BATH.
Claims use since Dec. 1, 1945.

Ser. No. 494,391. Joseph Claivaz, doing business as Anglo-French Drug Co., Montreal, Quebec, Canada. Filed Jan. 7, 1946.

CORTUNON

FOR PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF CARDIO-VASCULAR DISEASES.
Claims use since Nov. 18, 1942.

Ser. No. 498,119. Nancy Dale, Limited, New York, N Y. Filed Mar. 13, 1946.

date night

FOR SHAMPOO FOR HAIR.
Claims use since on or about Jan. 25, 1946.

Ser. No. 498,767. Haugron Cientifical, S. A., Barcelona, Spain. Filed Mar. 22, 1946.

Floïd
Haugrolizado

FOR PERFUMERY PRODUCTS—NAMELY, PERFUMES, COLOGNES, AND TOILET WATERS, FACE POWDERS AND ROUGE, LIP STICKS, HAIR TONICS AND PREPARATIONS, TOOTH POWDERS AND PASTE AND TALCUM POWDERS.
Claims use since Feb. 11, 1943.

Ser. No. 498,768. Haugron Cientifical, S. A., Barcelona, Spain. Filed Mar. 22, 1946.

HAUGROQUINA
Floïd

FOR PERFUMES, TOILET WATERS, ROUGE, FACE POWDERS AND LOTIONS, LIP STICKS, HAIR TONICS AND PREPARATIONS, TOOTH POWDERS AND PASTE AND TALCUM POWDERS.
Claims use since Mar. 12, 1936.

Ser. No. 498,825. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Mar. 23, 1946.

Beau-Cake

No claim is made for the term "Cake" apart from the mark shown.

FOR COSMETIC IN THE NATURE OF A SOLIDIFIED CREAM USED FOR A MAKE-UP BASE.
Claims use since Mar. 14, 1946.

Ser. No. 499,184. Winthrop Chemical Company, Inc., New York, N. Y. Filed Mar. 28, 1946.

SULFAMYLON

FOR CHEMOTHERAPEUTIC AGENT FOR THE PREVENTION AND TREATMENT OF BACTERIAL INFECTIONS, PARTICULARLY TETANUS, GAS GANGRENE, AND OTHER ANAEROBIC INFECTIONS.
Claims use since Sept. 25, 1944.

Ser. No. 502,383. Eli Lilly and Company, Indianapolis, Ind. Filed May 18, 1946.

TUAMINE

FOR MEDICINAL PREPARATION CONTAINING 2-AMINOHEPTANE USEFUL IN THE RELIEF OF NASAL CONGESTION.
Claims use since July 24, 1944.

Ser. No. 502,876. Beavermou Company, Jersey City, N. J. Filed May 28, 1946.

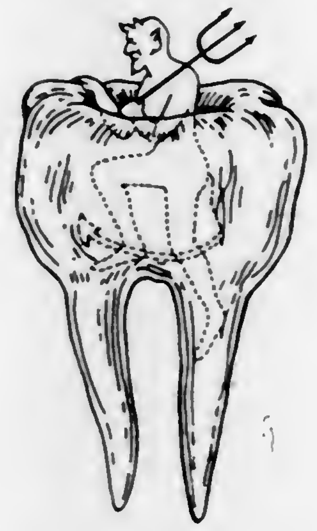
BEAVERMOU

Applicant disclaims the descriptive word "Beaver" separately from the mark.

FOR PREPARATION FOR THE BLEACHING OF FURS.
Claims use since May 22, 1946.

Ser. No. 503,177. Willard Z. Wells, doing business as Essential Chemical and Drug Co., Burlington, N. J. Filed June 1, 1946.

SCHEM'S



ANTI-JUMP

No claim is made to the words "Anti-Jump" apart from the mark as shown.

FOR TOOTHACHE DROPS.
Claims use since 1902.

Ser. No. 503,230. M. T. Strommen, Arcadia, Calif. Filed June 3, 1946.

trulip

Applicant disclaims exclusive use of the word "Lip" apart from the mark.
FOR LIPSTICK AND ROUGE.
Claims use since Oct. 1, 1939.

Ser. No. 503,398. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed June 6, 1946.

PARCILINA

FOR ANTI-BIOTIC MIXTURE FOR TOPICAL USE.
Claims use since May 10, 1946.

Ser. No. 503,556. Cuprose Company, Dallas, Tex. Filed June 10, 1946.

CUPROSE

FOR ALGAECIDE, PARTICULARLY ADAPTED FOR USE IN THE TREATMENT OF WATER AND FOR KILLING MOSQUITOS, LARVA, FLUKES AND SNAILS.
Claims use since January 1946.

Ser. No. 504,234. William R. Warner & Co., Inc., New York, N. Y. Filed June 19, 1946.

Streptoraga

FOR COMPOSITION OF PENICILLIN AND ALUMINUM HYDROXIDE GEL WITH CALCIUM CARBONATE FOR USE IN THE ORAL ADMINISTRATION OF PENICILLIN.
Claims use since May 24, 1946.

Ser. No. 504,235. William R. Warner & Co., Inc., New York, N. Y. Filed June 19, 1946.

Streptoral

FOR COMPOSITION OF PENICILLIN AND ALUMINUM HYDROXIDE GEL WITH CALCIUM CARBONATE FOR USE IN THE ORAL ADMINISTRATION OF PENICILLIN.
Claims use since May 24, 1946.

Ser. No. 504,338. Kay Daumit, Inc., Chicago, Ill. Filed June 21, 1946.

ka

FOR COLOGNE, PERFUME, DEODORANT FOR PERSONAL USE, SHAMPOO, LEG MAKE-UP, AND HAND CREAM.
Claims use since Jan. 10, 1942.

Ser. No. 505,282. Enrique Fernandez Cavada, Habana, Cuba. Filed July 9, 1946.

HENEOL
IRIS

The word "Iris" shown on the drawing is disclaimed apart from the mark.
FOR PERFUMES, COLOGNE, ROUGE, AND VEGETABLE LOTION FOR GRAY HAIR.
Claims use since Jan. 1, 1945.

Ser. No. 506,263. Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Filed July 25, 1946.

PENTROMAL

FOR HYPNOTIC AND SEDATIVE.
Claims use since July 1, 1946.

Ser. No. 506,305. Gloria Vanderbilt Corp., New York, N. Y. Filed July 26, 1946.

MON
BEGUIN

FOR PERFUMES AND TOILET WATER.
Claims use since July 23, 1946.

Ser. No. 506,307. Gloria Vanderbilt Corp., New York, N. Y. Filed July 26, 1946.

REVIVOR

FOR MEN'S COLOGNE.
Claims use since July 23, 1946.

Ser. No. 506,310. Gloria Vanderbilt Corp., New York, N. Y. Filed July 26, 1946.

DA

FOR PERFUMES AND TOILET WATER.
Claims use since July 23, 1946.

Ser. No. 506,358. Michael Agazim, doing business as The Floralatoms Company, Chicago, Ill. Filed July 27, 1946.

EXHALTATION

FOR PERFUME.
Claims use since May 9, 1946.

Ser. No. 506,556. Tennessee Eastman Corporation, Kingsport, Tenn. Filed July 30, 1946.

TENAMENE

FOR SECONDARY AROMATIC AMINE FOR USE AS AN ANTIOXIDANT IN LUBRICATING OILS, MOTOR FUELS, MINERAL OILS, SYNTHETIC RESINS, AND NATURAL AND SYNTHETIC RUBBER.
Claims use since Feb. 12, 1946.

Ser. No. 506,961. Ronson Art Metal Works, Inc., Newark, N. J. Filed Aug. 6, 1946.

RONSONOL

FOR LIGHTER FLUID FOR USE IN CIGAR LIGHTERS AND THE LIKE.
Claims use since the year 1928.

Ser. No. 507,362. Belcano Company, Jersey City, N. J. Filed Aug. 14, 1946.

LIMBO

FOR COSMETIC LEG LOTION.
Claims use since May 20, 1946.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 506,255. Olin Industries, Inc., New Haven, Conn. Filed July 25, 1946.

BRUSH

FOR LOADED PAPER SHOT SHELLS.
Claims use since Feb. 7, 1905.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 509,235. National Screen Company, Inc., Suffolk, Va. Filed Sept. 17, 1946.

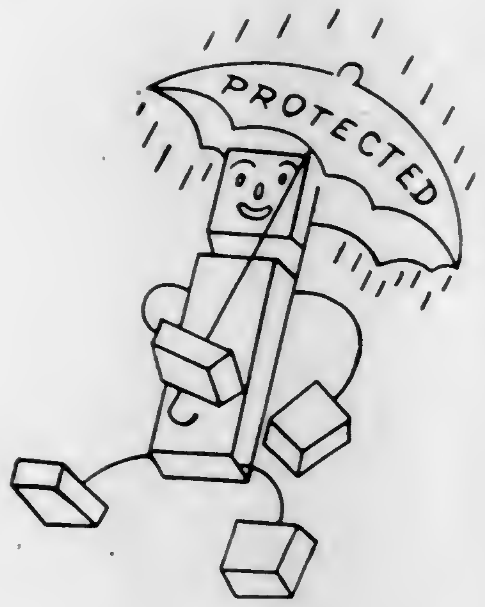
FOR WINDOW SCREENS, OF THE BUILT-IN TYPE, AND SCREEN DOORS.
Claims use since 1937

Ser. No. 513,568. Major Industries Co., Inc., Redondo Beach, Calif. Filed Dec. 2, 1946.

AirBlanket

The word "Air" is disclaimed apart from the mark.
FOR CONCRETE BUILDING BLOCKS.
Claims use since Aug. 6, 1946.

Ser. No. 513,596. Isador S. Turover, Bethesda, Md. Filed Dec. 2, 1946.



FOR CONSTRUCTION MATERIALS—NAMELY, ROUGH LUMBER, DRESSED LUMBER; MILLWORK—NAMELY, MOULDINGS AND ORNAMENTAL WOODWORK FOR INTERIOR AND EXTERIOR USE: WOOD AND METAL SASH; WOOD AND METAL DOORS; WOOD FLOORING IN STRIP AND PARQUET FORMS; COMPOSITION FLOORING IN BLOCKS AND TILES; WOOD AND METAL SIDING; WOOD PARTITION; GYPSUM AND COMPOSITION TYPE PARTITION; WOOD PANELING; WOOD AND METAL CEILING; PLYWOOD; WALLBOARD OF THE CELLULAR AND NON-CELLULAR TYPES FROM WOOD FIBERS, GYPSUM AND COMPOSITION MATERIALS; ACOUSTICAL AND THERMAL INSULATION OF VEGETABLE AND MINERAL ORIGIN IN SHEET, PLANK, BLANKET, ROLL, TILE OR COMMINUTED FORM, AND INCLUDING METAL FOIL, METAL PELLETS AND GLASS COMPOSITIONS; ASPHALT, ASBESTOS AND METAL ROOFING IN LENGTHS, ROLL, SHEET AND SHINGLE FORM; AND WOODEN SHINGLES.

Claims use since Nov. 26, 1946, in its present form.

Ser. No. 513,661. H. A. Kammerer, Inc., Mount Vernon, N. Y. Filed Dec. 4, 1946.

KAMCO
4IN1

No claim is made to the exclusive use of "4 in 1" apart from the mark.

FOR METAL WINDOW SASH AND SCREENS.

Claims use since Nov. 15, 1946.

Ser. No. 516,525. The Babcock & Wilcox Company, New York, N. Y. Filed Jan. 29, 1947.

KROMECAST

FOR REFRACTORY CONCRETE.

Claims use since Dec. 6, 1946.

Ser. No. 516,612. Johns-Manville Corporation, New York, N. Y. Filed Jan. 30, 1947.

Vynaflex

FOR PLASTIC FLOOR TILE CONTAINING ASBESTOS AND A BINDER.

Claims use since Jan. 17, 1947.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 503,552. Combined Metals Reduction Company, Salt Lake City, Utah. Filed June 10, 1946.

PANACA

FOR SLABS, BARS, BRICKS OR PIGS OF NONFERROUS METALS.

Claims use since Jan. 25, 1946.

Ser. No. 503,553. Combined Metals Reduction Company, Salt Lake City, Utah. Filed June 10, 1946.

PIOCHE

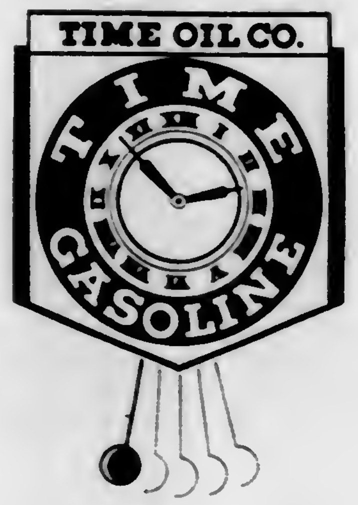
FOR SLABS, BARS, BRICKS OR PIGS OF NONFERROUS METALS.

Claims use since Jan. 25, 1946.

CLASS 15

OILS AND GREASES

Ser. No. 477,381. Time Oil Co., Seattle, Wash. Filed Dec. 9, 1944.



No claim is made to the words "Gasoline" and "Oil Co." apart from the mark.

FOR GASOLINE.

Claims use since Sept. 1, 1944.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 486,907. Louisiana Supply Company, Sulphur and Sulphur Mines, Sulphur, La. Filed Aug. 8, 1945.

Lasco

FOR BOILER PAINTS, ROOFING PAINTS, MARINE PAINTS, ENAMEL FOR RIGS AND STEEL STRUCTURES EMPLOYED ON THE DRILLING OF OIL WELLS, PIPE COATINGS, EXTERIOR PAINTS FOR BUILDINGS, INTERIOR PAINTS FOR BUILDINGS, STAINS AND VARNISHES.

Claims use since July 3, 1945.

Ser. No. 495,744. International Paint Company, Inc., New York, N. Y. Filed Jan. 31, 1946.

Interlux

FOR PAINTS IN READY MIXED FORM, PAINT ENAMELS, VARNISHES, PUTTIES AND SEAM COMPOUND WITH OIL-VARNISH BASES, PAINT AND VARNISH REMOVER, AND PAINT SOLVENTS.

Claims use since Mar. 15, 1939.

Ser. No. 501,623. The Arco Company, Cleveland, Ohio. Filed May 8, 1946.

COLOR BAR

No claim is made to the word "Color" per se apart from the mark.

FOR ENAMEL PAINTS, LACQUER PAINTS, AND PRIMER PAINTS.

Claims use since Apr. 8, 1946.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 506,041. Larus & Brother Company, Inc., also doing business as Reed Tobacco Company Branch, Larus & Brother Company, Inc., Richmond, Va., assignor to Riggio Tobacco Corporation, Brooklyn, N. Y., a corporation of New York. Filed July 22, 1946.

MALLARD

FOR CIGARETTES AND SMOKING TOBACCO.

Claims use since Apr. 25, 1944.

CLASS 19

VEHICLES

Ser. No. 483,528. Hayes Industries, Inc., Jackson, Mich. Filed May 18, 1945.

DYNAFLO

FOR REGULATING VALVES FOR HYDRAULIC BRAKE SYSTEMS FOR VEHICLES.

Claims use since Dec. 23, 1944.

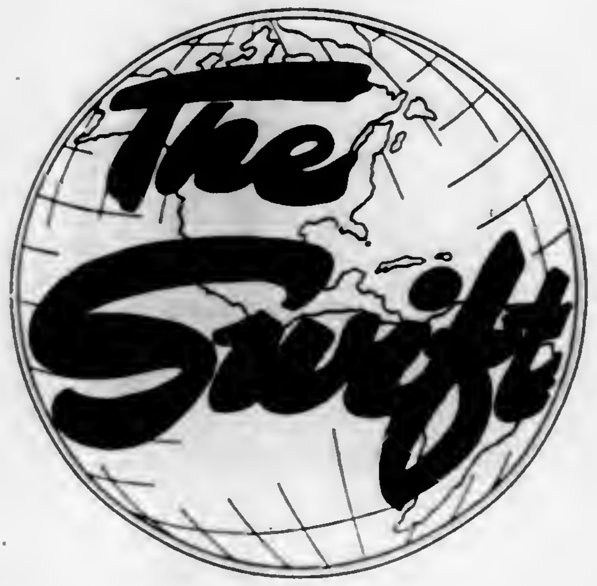
Ser. No. 500,286. Craft Specialty Manufacturing Company, Akron, Ohio, assignor to Craft Specialty Manufacturing Company, Inc., Akron, Ohio. Filed Apr. 16, 1946.

CLIPPER

FOR HANDCARTS FOR GENERAL GARDEN, HOUSEHOLD OR SIMILAR USE.

Claims use since Oct. 1, 1945.

Ser. No. 505,296. Globe Aircraft Corporation, Fort Worth, Tex. Filed July 9, 1946.



FOR AEROPLANES.

Claims use since Dec. 31, 1945.

Ser. No. 507,363. Bell Aircraft Corporation, Town of Wheatfield, N. Y. Filed Aug. 14, 1946.

HUMMING BIRD

FOR HELICOPTERS AND STRUCTURAL PARTS THEREOF.

Claims use since June 10, 1946.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 492,311. C. G. Conn Ltd., Elkhart, Ind. Filed Nov. 28, 1945.

Vocastrand

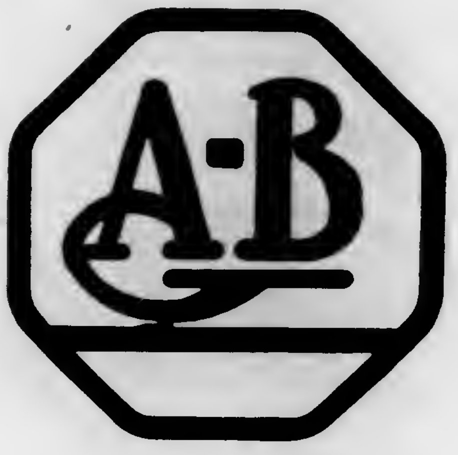
FOR MAGNETIC WIRE RECORDING AND REPRODUCING APPARATUS AND WIRE SPOOLS AND MAGNETIC RECORDING, REPRODUCING AND ERASING HEADS THEREFOR.
Claims use since Aug. 28, 1945.

Ser. No. 492,592. The Teleoptic Company, Racine, Wis. Filed Dec. 3, 1945.

RearKingDeLuxe

No claim is made to the words "Rear" or "De Luxe" apart from the mark.
FOR BACK-UP LIGHTS FOR AUTOMOBILES.
Claims use since Nov. 24, 1945.

Ser. No. 494,644. Allen-Bradley Company, Milwaukee, Wis. Filed Jan. 12, 1946.



FOR APPARATUS FOR THE CONTROL OF ELECTRIC ENERGY AS USED IN INDUSTRY COMPRISING SWITCHES, MANUAL AND AUTOMATIC; RESISTORS, FIXED AND VARIABLE; TRANSFORMERS; MECHANICAL TIMING DEVICES OF THE SYNCHRONOUS MOTOR DRIVEN TYPE FOR CONTROLLING ELECTRIC MOTORS; AND PILOT CONTROL DEVICES OF THE MECHANICALLY OPERATED SWITCH TYPE FOR USE IN ELECTRIC MOTOR CONTROLLING EQUIPMENT.
Claims use on automatic switches since on or about Aug. 29, 1931; on hand or manual switches since on or about Nov. 30, 1930; on resistors, fixed and variable since on or about Aug. 22, 1931; on transformers since Dec. 14, 1938; on mechanical timing devices for controlling electric motors since on or about July 30, 1932; and on mechanical pilot control devices since on or about June 28, 1925.

Ser. No. 498,955. Universal Camera Corporation, New York, N. Y. Filed Mar. 25, 1946.

ULTRAVOX

FOR RADIO RECEIVING SETS, ELECTRIC PHONOGRAPHS AND COMBINATIONS THEREOF.
Claims use since Feb. 4, 1946.

Ser. No. 509,143. Electric Machinery Mfg. Company, Minneapolis, Minn. Filed Sept. 16, 1946.

Regutron

FOR ADJUSTABLE ELECTRONIC SPEED CONTROLS USABLE WITH VARIABLE SPEED ROTARY ELECTRIC MACHINES.
Claims use since May 9, 1946.

Ser. No. 510,625. Transvision Inc., New Rochelle, N. Y. Filed Oct. 10, 1946.

FOR TELEVISION TRANSMITTING SETS AND/OR TELEVISION RECEIVING SETS.
Claims use since February 1946.

Ser. No. 516,754. Automatic Control Engineers, Inc., Bedford, Ind. Filed Feb. 1, 1947.

A C E

FOR ELECTRICAL MOTORS, GENERATORS, AND SPEED CONTROLLING AND FREQUENCY CONTROLLING DEVICES FOR USE IN CONJUNCTION THEREWITH.
Claims use since February 1945.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 496,808. Domenick Ippolito, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946.

Little Girl Where Have You Been?

The word "Little" is disclaimed apart from the mark.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Sept. 25, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 484,246. The Cofax Corporation, New York, N. Y. Filed June 7, 1945.

PAXOPRINT

FOR TAPE PRINTING DISPENSERS I. E., APPARATUS SIMULTANEOUSLY PRINTING AND DISPENSING TAPE.
Claims use since May 16, 1945.

Ser. No. 486,904. Lathan Company, Inc., South San Francisco, Calif. Filed Aug. 8, 1945.

UNI-VAC

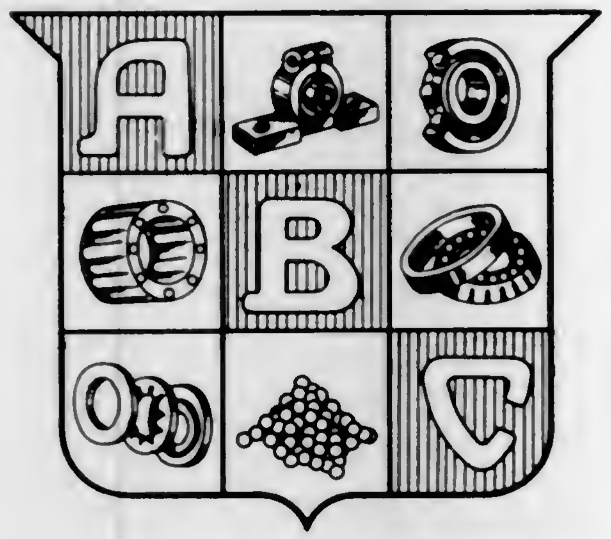
FOR BOOSTER UNITS FOR HYDRAULIC OR PNEUMATIC BRAKE SYSTEMS FOR GENERAL USE ON MACHINERY AND ON VEHICLES.
Claims use since September 1940.

Ser. No. 495,816. Park Metalware Company, Inc., Orchard Park, N. Y. Filed Feb. 1, 1946.

XCELITE

FOR SCREW DRIVERS, SOCKET AND OTHER OPEN ENDED WRENCHES AND PLIERS.
Claims use since on or about July 1, 1927.

Ser. No. 502,786. Anti-Friction Bearings Co., Los Angeles, Calif. Filed May 27, 1946.



The drawing is lined to indicate the color red. Applicant disclaims, apart from the mark, the representations of the mechanical devices appearing in the unlettered divisions of the mark.
FOR BALL BEARINGS: ROLLER BEARINGS: PILLOW BLOCKS: THRUST BEARINGS: STAINLESS STEEL, BRONZE, AND STEEL BALLS.
Claims use since Jan. 1, 1945.

Ser. No. 503,686. Vulcan Safety Razor Corp., Maplewood, N. J. Filed June 11, 1946.

"Sleek"

FOR SAFETY RAZOR BLADES.
Claims use since May 9, 1946.

Ser. No. 504,091. Chatsworth Manufacturing Co., Chatsworth, Ga. Filed June 18, 1946.

FOR AUTOMOBILE JACKS, TIRE PUMPS, RADIATOR CAPS, AND HAND OPERATED BARREL PUMPS.
Claims use since Jan. 1, 1946.

Ser. No. 505,828. Wilbur Force Harwell, Charlotte, N. C. Filed July 18, 1946.

"Blitzknife"

FOR POCKET KNIVES.
Claims use since June 15, 1946.

Ser. No. 506,072. U. S. Lite-Ray Company, Dayton, Ohio. Filed July 22, 1946.

The letters "U S" are disclaimed apart from the remainder of the mark.
FOR WATER PUMPS AND WATER DISTRIBUTION SYSTEMS COMPRISING A PUMP, A PRESSURE TANK, AND AUTOMATIC CONTROLS, VALVES, AND PIPING THEREFOR.
Claims use since July 11, 1945.

Ser. No. 508,534. Lavallee & Ide, Inc., Chicopee, Mass. Filed Sept. 5, 1946.

L&I

FOR METAL CUTTING TOOLS—NAMELY, REAMERS, END MILLS, COUNTERBORES, COUNTERSINKS, MILLING CUTTERS AND DRILLS.
Claims use since February 1943.

Ser. No. 508,613. The Pfaudler Co., Rochester, N. Y. Filed Sept. 6, 1946.

Pfaudler

FOR LIQUID PASTEURIZING EQUIPMENT COMPRISING CONTAINERS HAVING AGITATORS, VALVES, INTERCONNECTING PIPING AND PARTS THEREFOR; LIQUID EVAPORATING EQUIPMENT COMPRISING CONTAINERS HAVING HEAT EXCHANGE ELEMENTS, PUMPS, VALVES, INTERCONNECTING PIPING AND PARTS THEREFOR; LIQUID PROCESSING HEAT EXCHANGERS AND CONDENSERS OF THE SHELL AND TUBE TYPE, SHELL AND THIMBLE TYPE, COIL TYPE AND TROMBONE TYPE AND PARTS THEREFOR; LIQUID COOLERS COMPRISING CONTAINERS HAVING BUILT-IN COOLING WALL SECTIONS AND SUBMERGED COOLING COILS AND EQUIPPED WITH PUMPING AND AGITATING MEANS; REACTION DISTILLATION AND STORAGE KETTLES COMPRISING LIQUID CONTAINERS HAVING AGITATORS, BAFFLES, VALVES, INTERCONNECTING PIPING AND PARTS THEREFOR; LIQUID STORAGE AND PROCESSING TANKS COMPRISING AGITATORS, VALVES, INTERCONNECTING PIPING AND PARTS THEREFOR; MOBILE ROAD AND RAIL TRANSPORTATION TANKS OF STEEL HAVING GLASS LININGS AND CORROSION-RESISTING METAL ALLOY LININGS AND EQUIPPED WITH BAFFLES AND VALVES; PUMPS, VALVES, PIPES AND FITTINGS THEREFOR FURNISHED AS ACCESSORIES FOR INDUSTRIAL PROCESSING TANKS AND CONTAINERS; AUTOCLAVES; FRACTIONATION TOWERS AND COLUMNS COMPRISING BAFFLES, LIQUID CIRCULATING PUMPS, VALVES AND PIPING AND PARTS THEREFOR; BOTTLE AND CAN FILLING MACHINES; AND STEAM CONTOUR VEGETABLE PEELING MACHINES.

Claims use since August 1921.

Ser. No. 510,499. Frederick Iron & Steel, Inc., Frederick, Md. Filed Oct. 19, 1946.

FREFORM

FOR SHEET METAL FORMING MACHINES.

Claims use since July 1, 1946.

Ser. No. 510,606. Miller Manufacturing Co., Inc., Portland, Oreg. Filed Oct. 10, 1946.

Slick

FOR FRUIT AND VEGETABLE CUTTERS.

Claims use since May 1941.

Ser. No. 510,616. Recordak Corporation, New York, N. Y. Filed Oct. 10, 1946.

RECORDAK

FOR CHECK OR DOCUMENT ENDORSING MACHINES.

Claims use since Sept. 10, 1946.

Ser. No. 510,674. Gerotor May Corporation, Baltimore, Md. Filed Oct. 11, 1946.

GEROTOR

FOR HEDGE CUTTERS AND TRIMMERS.

Claims use since April 1944.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 507,913. F. L. Jacobs Co., Detroit, Mich. Filed Aug. 23, 1946.

RE-VERSO-ROL

The word "Rol" is disclaimed apart from the association shown.

FOR CLOTHES WASHING MACHINES AND CLOTHES WASHING MACHINE CYLINDERS.

Claims use since Mar. 28, 1946.

Ser. No. 511,576. Pressing Supply Company, Philadelphia, Pa. Filed Oct. 26, 1946.

Mercu Ray

FOR IRONING BOARD PADS AND IRONING BOARD PAD COVERS.

Claims use since May 1, 1946.

CLASS 25

LOCKS AND SAFES

Ser. No. 509,013. Clark R. Lake, Kansas City, Mo. Filed Sept. 13, 1946.

PV

PROTECTION AND VENTILATION BY LAKE

The words "Protection and Ventilation by Lake" are disclaimed apart from the mark.

FOR WINDOW LOCKS.

Claims use since Sept. 10, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. 495,757. Nu-Dell Manufacturing Company, Chicago, Ill., assignor to Nu-Dell Plastics Corporation, Chicago, Ill., a corporation of Illinois. Filed Jan. 31, 1946.

Weather Wizard

No claim is made to the word "Weather" apart from the mark.

FOR WEATHER INDICATORS IN THE FORM OF A MINIATURE HOUSE CONSTRUCTION HAVING OPENINGS IN THE FRONT WALL THEREOF FOR FIGURETTES ON A PLATFORM TO EMERGE THERETHROUGH.

Claims use since Aug. 1, 1944.

Ser. No. 497,658. Domestic Thermostat Company, Los Angeles, Calif., assignor to Domestic Thermostat Company, a corporation of California. Filed Mar. 5, 1946.

WATER
TENDER

The use of the term "Water" is disclaimed apart from the mark.

FOR THERMOSTATS FOR WATER HEATERS AND THE LIKE.

Claims use since November 1945.

Ser. No. 498,952. Universal Camera Corporation, New York, N. Y. Filed Mar. 25, 1946.

MINIVEX

FOR CAMERAS, CAMERA LENSES, OPTICAL VIEW FINDERS, AND RANGE FINDERS.

Claims use since Feb. 21, 1946.

Ser. No. 498,958. Universal Camera Corporation, New York, N. Y. Filed Mar. 25, 1946.

Unitron

FOR CAMERAS, CAMERA LENSES, OPTICAL VIEW FINDERS, AND RANGE FINDERS.

Claims use since Feb. 27, 1946.

Ser. No. 509,234. National Research Corporation, Boston, Mass. Filed Sept. 17, 1946.

PROTECTOVAC

FOR VACUUM OR PRESSURE GAUGE.

Claims use since Aug. 13, 1946.

Ser. No. 509,244. Photo Research Corporation, San Fernando, Calif. Filed Sept. 17, 1946.

PHOTOSPHERE

FOR HEMISPHERICAL LIGHT COLLECTOR, USED IN CONNECTION WITH A METER FOR CONTROL OF PHOTOGRAPHIC EXPOSURE.

Claims use since Aug. 21, 1946.

Ser. No. 518,502. Vulcan Motor Products, Inc., Newark, N. J. Filed Mar. 4, 1947.

Vulcan

SPEEDOMETER CABLES AND CASINGS.

Claims use since Jan. 6, 1947.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 511,280. O. Marchand, Inc., New York, N. Y. Filed Oct. 22, 1946.

FONDANA

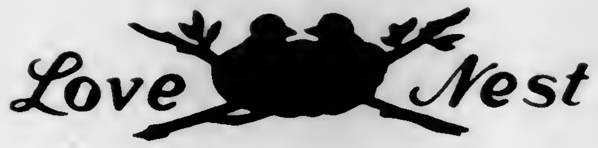
FOR WATCHES AND PARTS THEREOF.

Claims use since Oct. 21, 1946.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 503,166. Love Nest Ring, Inc., New York, N. Y. Filed June 1, 1946.



FOR GOLD FINGER RINGS AND JEWELRY FOR PERSONAL WEAR (NOT INCLUDING WATCHES).
Claims use since May 8, 1946.

Ser. No. 508,435. H. S. Means Co., Culver City, Calif. Filed Sept. 3, 1946.

SUNSET TRAILS

BUCKLE SETS FOR BELTS AND WRISTWATCH STRAPS, SADDLE AND HARNESS BUCKLES AND SADDLE AND HARNESS ORNAMENTS, ALL MADE OF GOLD AND SILVER.
Claims use since Aug. 23, 1946.

Ser. No. 509,053. The United States Time Corporation, Waterbury, Conn. Filed Sept. 13, 1946.

Saga

FOR JEWELRY FOR PERSONAL WEAR OR ADORNMENT USED IN CONNECTION WITH SECURING OR SUPPORTING A WATCH ON A PERSON, NOT INCLUDING WATCHES.
Claims use since Aug. 7, 1946.

Ser. No. 511,560. The International Silver Company, Meriden, Conn. Filed Oct. 26, 1946.

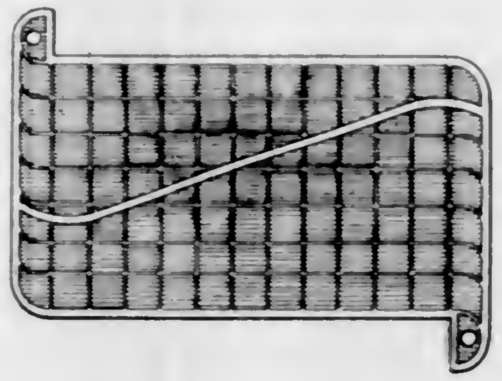
CENTENNIAL

FOR SILVERPLATED FLAT-WARE AND HOLLOWWARE FOR TABLE USE AND THE LIKE.
Claims use since Sept. 26, 1946.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 509,872. Paley Manufacturing Corporation, Brooklyn, N. Y. Filed Sept. 27, 1946.

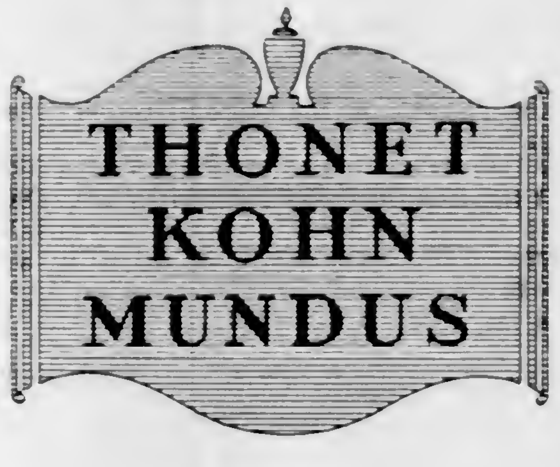


The squares which comprise a feature of the mark are lined to indicate the color blue.
FOR FROZEN FOOD CABINETS.
Claims use since July 16, 1946.

CLASS 32

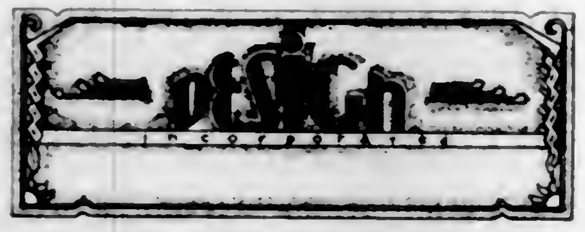
FURNITURE AND UPHOLSTERY

Ser. No. 477,827. Thonet Brothers, Inc., New York, N. Y. Filed Dec. 21, 1944. Under 10-year proviso as to "Thonet" and "Kohn."



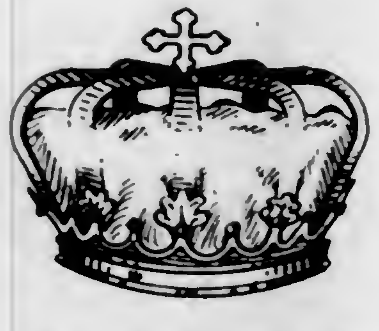
The drawing is lined for shading purposes only.
FOR BARBERS' ARMCHAIRS, BEDROOM SUITES, BEDSTEADS, CAMP STOOLS, CARD TABLES, CHAIRS AND TABLES FOR GENERAL USE, CLOTHES STANDS, EASELS, ETAGERES, FLOWER TABLES AND STANDS, FOLDING ARMCHAIRS, FOLDING CHAIRS, FOLDING SCREENS, FOOTSTOOLS, FRAMES FOR LOOKING GLASSES, HAIRDRESSERS' ARMCHAIRS, HAIRDRESSERS' REVOLVING CHAIRS, HANGING CLOTHES RACKS, HAT PEGS, HATRAILS, NEWSPAPER RACKS, LADIES' TOILET STANDS, NIGHT ARMCHAIRS, NIGHT TABLES, OCCASIONAL TABLES, OFFICE CHAIRS, PEDESTALS FOR FURNITURE PURPOSES, PRIE-DIEUS, RECLINING COUCHES, ROCKING CHAIRS, NURSING CHAIRS, SETTEES, SOFAS, SEWING TABLES, SHOP CHAIRS, STANDS FOR MARBLE TABLES, STOOLS, TOWEL RAILS, TOWEL HORSES, TRUNK STANDS, TRYING-ON STOOLS FOR SHOEMAKERS, UMBRELLA STANDS OF REED OR WOOD, VENEER SEATS, WARDROBES, WASHING STANDS AND WRITING DESKS.
Claims use since September 1942; since 1881 as to "Thonet"; since 1880 as to "Kohn"; and since May 1, 1907, as to "Mundus."

Ser. No. 497,467. Design Inc., St. Louis, Mo. Filed Mar. 1, 1946.



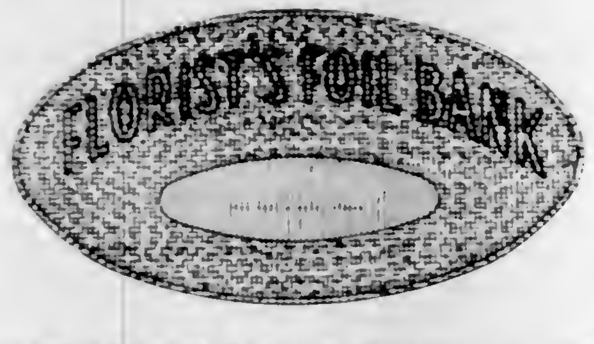
No claim is made to the word "Incorporated" per se.
FOR REFRESHMENT BARS, REFRESHMENT BACK BARS, AND DISPLAY, STORAGE AND UTILITY CABINETS.
Claims use since Sept. 30, 1938.

Ser. No. 502,812. Ellsworth Industries, Inc., Milwaukee, Wis. Filed May 27, 1946.



FOR FURNITURE, AND MORE PARTICULARLY FOR DOMESTIC AND OFFICE CHAIRS.
Claims use since Nov. 10, 1945.

Ser. No. 505,693. Florist's Foil Bank Manufacturing Company, Detroit, Mich. Filed July 16, 1946.



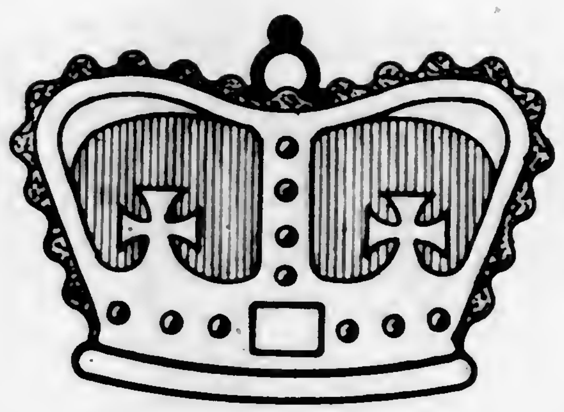
The words "Florist's Foil" are disclaimed apart from the mark. The drawing is hatched for gold, and ruled for red.
FOR DISPLAY STANDS IN THE NATURE OF UPRIGHT OPEN CABINETS, HAVING THEREIN A PLURALITY OF ROLLERS FOR FOIL, CELLOPHANE AND OTHER SHEET MATERIAL FOR WRAPPING FLOWERS.
Claims use since Dec. 15, 1945.

Ser. No. 506,567. Acme Visible Records, Inc., Chicago, Ill. Filed July 31, 1946.

ACME
Visi-Filer

The word "Filer" is disclaimed apart from the mark.
FOR VISIBLE RECORD CABINETS.
Claims use since Oct. 10, 1939.

Ser. No. 512,771. Ero Manufacturing Company, Chicago, Ill. Filed Nov. 18, 1946.



The inner portions of the crown on the drawing are lined for red.
FOR METAL BRIDGE SETS INCLUDING BRIDGE CHAIRS AND BRIDGE TABLES, ESPECIALLY FOLDING METAL BRIDGE CHAIRS AND FOLDING METAL BRIDGE TABLES, FOLDING TRAY STANDS, FOLDING LUGGAGE RACKS FOR GENERAL USE, AND CHILDREN'S JUVENILE FOLDING TABLE AND JUVENILE FOLDING CHAIR PLAY SETS.
Claims use since on or about the month of June 1938.

CLASS 34

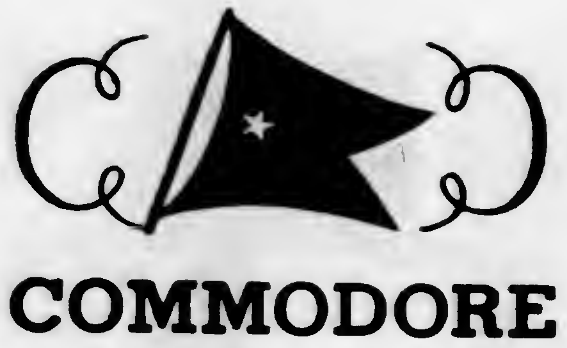
HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 497,693. Automatic Metal Products Corporation, Brooklyn, N. Y. Filed Mar. 6, 1946.

AUTOMET
Lighter

The word "Lighter" is disclaimed except when used as a part of the mark.
FOR FRICTIONALLY OPERATED PYROPHORIC CIGAR LIGHTERS.
Claims use since Oct. 15, 1945.

Ser. No. 512,230. R. W. Beckett Engineering Company, Elyria, Ohio. Filed Nov. 8, 1946.



FOR DOMESTIC AND INDUSTRIAL OIL BURNERS FOR HEATING AND PARTS THEREOF.
Claims use since April 1938.

Ser. No. 513,886. Hazelite, Inc., New York, N. Y. Filed Dec. 7, 1946.

HAZELITE

No claim is made to the term "Lite" apart from the mark.

FOR LENSES FOR AUTOMOBILE HEADLIGHTS.

Claims use since Nov. 8, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 502,144. A. Kolber, Inc., New York, N. Y. Filed May 15, 1946.

"Four Hundred"

The representation of the disc is disclaimed apart from the mark.

FOR FOUNTAIN PENS.

Claims use since July 20, 1945.

Ser. No. 503,181. Associated Merchandising Corporation, New York, N. Y. Filed June 3, 1946.

PS

FOR TOILET AND CLEANSING TISSUES.

Claims use since Apr. 5, 1939.

CLASS 38

PRINTS AND PUBLICATIONS

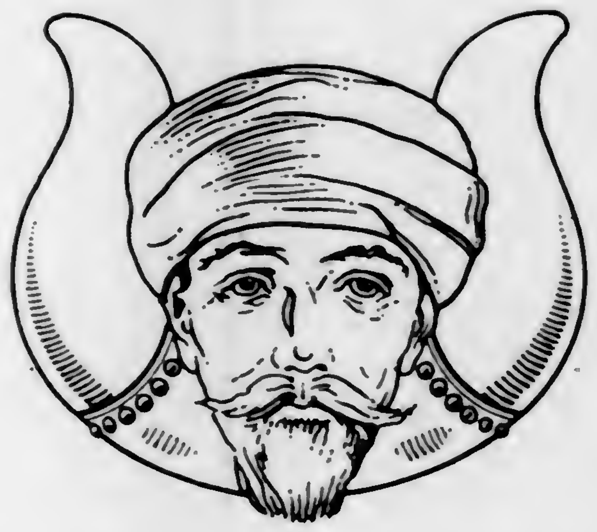
Ser. No. 491,669. Norcross, New York, N. Y. Filed Nov. 15, 1945.

LITTLE BALLERINA

FOR GREETING CARDS, CALENDARS, PRINTED TAGS AND PRINTED SEALS AND BOOKLETS OF CHILDREN'S STORIES.

Claims use since on or before Feb. 16, 1945.

Ser. No. 496,873. Supreme Council, Mystic Order of Veiled Prophets of the Enchanted Realm, Chicago, Ill. Filed Feb. 18, 1946.

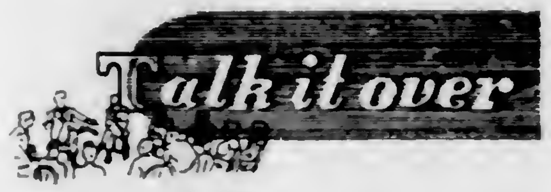


The portrait is merely fanciful.

FOR CIRCULARS, PAMPHLETS, BOOKLETS, PRINTED BOOK AND MONTHLY, YEARLY AND INTERMITTENT PUBLICATIONS USED BETWEEN THE UNITS OF THE CORPORATION IN THE FURTHERANCE OF ITS BUSINESS.

Claims use since June 13, 1890.

Ser. No. 497,809. The National Institute of Social Relations, Inc., Washington, D. C. Filed Mar. 7, 1946.



The lining on the drawing is for the purpose of shading only.

FOR PERIODICAL PUBLICATION PUBLISHED SEMI-MONTHLY.

Claims use since Mar. 1, 1946.

Ser. No. 497,887. Jack Strausberg, Chicago, Ill. Filed Mar. 8, 1946.

NOW I'LL TELL ONE–

FOR CARTOONS.

Claims use since on or about Oct. 1, 1941.

Ser. No. 504,347. Fantasy Comics, Inc., New York, N. Y. Filed June 21, 1946.

KID Komics

Applicant disclaims the descriptive word "Komics" separately from the mark.

FOR MAGAZINE OR PUBLICATION PUBLISHED PERIODICALLY.

Claims use since Dec. 12, 1942.

Ser. No. 505,686. The Christian Science Publishing Society, Boston, Mass. Filed July 16, 1946. Under 10-year proviso as to "Christian Science."

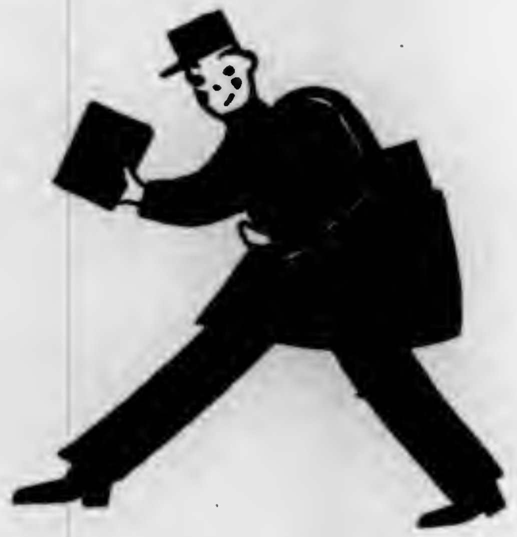
EL HERALDO
DE LA
CHRISTIAN SCIENCE

The mark is the Spanish equivalent of "The Herald of Christian Science."

FOR PERIODICAL PUBLISHED IN THE SPANISH AND ENGLISH LANGUAGES.

Claims use since June 19, 1946; and since 1885 as to the words "Christian Science."

Ser. No. 507,430. Charles Scribner's Sons, New York, N. Y. Filed Aug. 14, 1946.



FOR PRINTED BOOKS.

Claims use since Aug. 2, 1946.

CLASS 39

CLOTHING

Ser. No. 486,854. The Cumberland Cloth Company Limited, Huddersfield and Workington, England. Filed Aug. 7, 1945.

CUMBERTEX

FOR MEN'S AND BOYS' SUITS, JACKETS, VESTS, TROUSERS, BREECHES, COATS, HATS, AND CAPS; AND WOMEN'S COATS, FROCKS, OUTER SKIRTS, AND SUITS.

Claims use since Jan. 9, 1945.

Ser. No. 500,416. Regent Limited, Boston, Mass. Filed Apr. 17, 1946.

Pacallure

FOR WOMEN'S AND GIRLS' SHIRTS, SKIRTS, JACKETS, SLACKS, PLAY SUITS, AND SHORTS.

Claims use since Apr. 11, 1946.

Ser. No. 501,944. Victor H. Levy, Los Angeles, Calif. Filed May 11, 1946.

Paramount

The lining in the drawing is for shading purposes only.

FOR NOVELTIES FOR THE HAIR—NAMELY, HAIR-NETS, WAVE-NETS, HEAD SQUARES, AND SCARFS.

Claims use since Dec. 20, 1916.

Ser. No. 503,347. Campbell & Helmich, Boyertown, Pa. Filed June 6, 1946.

Esprit

FOR PANTIES, VESTS, CHEMISE, COMBINATIONS, SLIPS AND GOWNS.

Claims use since Apr. 10, 1946.

Ser. No. 504,112. Lehigh Handkerchief Co., New York, N. Y. Filed June 18, 1946.

STERI-KERCHIEF

No claim is made to the exclusive use of the word "Kerchief" except in the setting and relation in which it appears.

FOR HANDKERCHIEFS.

Claims use since Nov. 15, 1945.

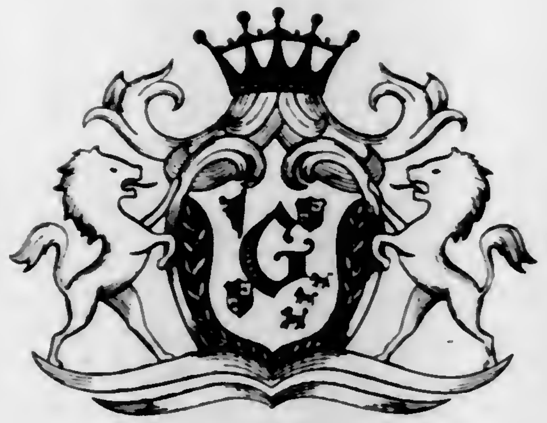
Ser. No. 504,125. Monomac Shoe Co., Inc., Haverhill, Mass. Filed June 18, 1946.

Monomac

FOR MOCCASINS, MADE OF LEATHER, FABRIC OR RUBBER AND COMBINATIONS OF THESE MATERIALS FOR MEN AND WOMEN.

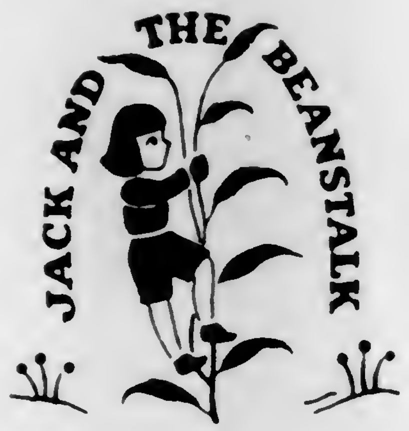
Claims use since Sept. 11, 1944.

Ser. No. 505,196. Garment's Incorporated, Charlotte, N. C. Filed July 8, 1946.



FOR MEN'S, WOMEN'S AND CHILDREN'S UNDERWEAR AND SLEEPING GARMENTS—NAMELY, PAJAMAS, NIGHT SHIRTS AND NIGHT GOWNS.
Claims use since June 3, 1946.

Ser. No. 505,474. Jack N. Beenstock, doing business as Standard Kiddies Sportswear, Brooklyn, N. Y. Filed July 12, 1946.



The representation of the boy is fanciful.
FOR CHILDREN'S SNOW SUITS, BOYS' AND GIRLS' COAT AND LEGGING SUITS, CHILDREN'S MACKINAWS, PEA COATS, GIRLS' SUITS, CHILDREN'S SLACKS, HATS, AND RIDING SUITS.
Claims use since June 1, 1946.

Ser. No. 505,521. Jeanne Rochon, Lyon, France. Filed July 12, 1946.

SILLAGE

FOR ARTICLES OF CLOTHING FOR WOMEN AND CHILDREN—NAMELY, SUITS AND SKIRTS FOR OUTER WEAR, UNDERSKIRTS, DRESSES, UNDERWEAR, HOSIERY, CORSETS, CORSELETS, GIRDLES, AND BRASSIÈRES.
Claims use since Dec. 11, 1942.

Ser. No. 505,923. Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Filed July 19, 1946. Under section 5b of the act of 1905 as amended in 1920.

IT'S A
DAN RIVER
FABRIC

Applicant is the owner of the trade-mark "Dan River," registration No. 73905, dated June 1, 1909, renewed, effected under the 10-year proviso. The word "Fabric" is disclaimed apart from the mark.
FOR MEN'S SHIRTS, SHORTS, AND PAJAMAS, AND WOMEN'S AND CHILDREN'S DRESSES, BLOUSES, SHIRTS, SKIRTS, SLACKS, AND SHORTS, FOR STREET, PLAY OR BEACH WEAR.
Claims use since June 1, 1945.

Ser. No. 506,371. Solomon Epstein, Los Angeles, Calif. Filed July 27, 1946.

Cameraland

FOR MEN'S SPORTSWEAR—NAMELY, SHIRTS AND JACKETS.
Claims use since May 1, 1941.

Ser. No. 506,706. Ultrafit Co., Inc., New York, N. Y. Filed Aug. 1, 1946.

Rivertrail

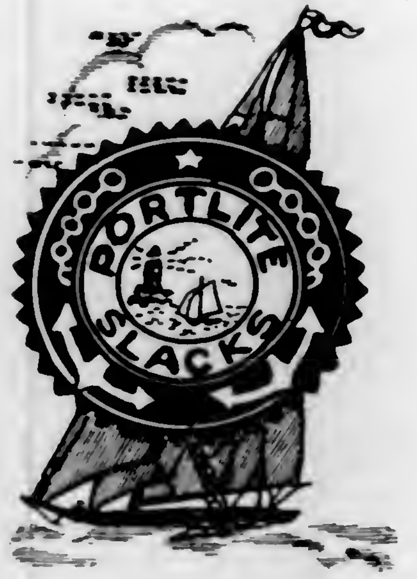
FOR SPORT SHIRTS, JACKETS, SLACKS AND SWEATERS.
Claims use since June 6, 1946.

Ser. No. 507,013. Harry Myers & Company, Inc., Baltimore, Md. Filed Aug. 7, 1946.

"Dunberry"

FOR MEN'S AND BOYS' SUITS AND OVERCOATS.
Claims use since Mar. 28, 1924.

Ser. No. 508,315. Charles Salvato & Co., Brooklyn, N. Y. Filed Aug. 30, 1946.



The drawing is lined for shading purposes only. No claim is made to the exclusive use of the word "Slacks" apart from the mark.
FOR MEN'S AND WOMEN'S SPORTS, BEACH AND WORK SLACKS.
Claims use since Aug. 15, 1946.

Ser. No. 508,556. John B. Stetson Company, Philadelphia, Pa. Filed Sept. 5, 1946.

Mistral

FOR BERETS FOR MEN, WOMEN AND CHILDREN.
Claims use since Aug. 26, 1946.

Ser. No. 509,337. John Frederics, Inc., New York, N. Y. Filed Sept. 19, 1946.

Natch

FOR SASHES SO DESIGNED AS TO BE WORN AS TURBANS, SCARVES, GIRDLES, BELTS, GILETS OR OTHER DRESS ACCESSORIES.
Claims use since Aug. 14, 1946.

Ser. No. 509,895. Edward D. Van Tassel, Jr., Cohasset, Mass. Filed Sept. 27, 1946.

Van Tassel

The mark is the facsimile signature of the applicant.
FOR SOLES AND INSOLES OF LEATHER.
Claims use since Sept. 14, 1946.

CLASS 40

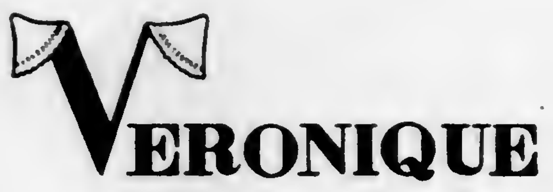
FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 503,315. New York Merchandise Co., Inc., New York, N. Y. Filed June 5, 1946.

PRIZE BABY

FOR SAFETY PINS.
Claims use since 1921.

Ser. No. 510,870. Veronique of California, Los Angeles, Calif. Filed Oct. 14, 1946.



No claim is made to the representation of the shoulder pads shown on the drawing.
FOR SHOULDER PADS FOR WOMEN'S WEAR.
Claims use since Aug. 1, 1946.

Ser. No. 511,872. Gaylord Products, Incorporated, Chicago, Ill. Filed Nov. 1, 1946.

Gayla

FOR NON-ELECTRIC HAIR CURLING DEVICES.
Claims use since Oct. 11, 1946.

Ser. No. 512,357. Frank Wein, New York, N. Y. Filed Nov. 9, 1946.

Sculpture Pad

The word "Pad" is disclaimed apart from the mark.
FOR SHOULDER PADS DESIGNED FOR USE IN WEARING APPAREL.
Claims use since Oct. 31, 1946.

Ser. No. 514,683. C. J. BATES & SON, Chester, Conn. Filed Dec. 23, 1946.

Smoothie

FOR CROCHET HOOKS AND KNITTING NEEDLES FOR HAND USE.
Claims use since Nov. 4, 1946.

CLASS 42

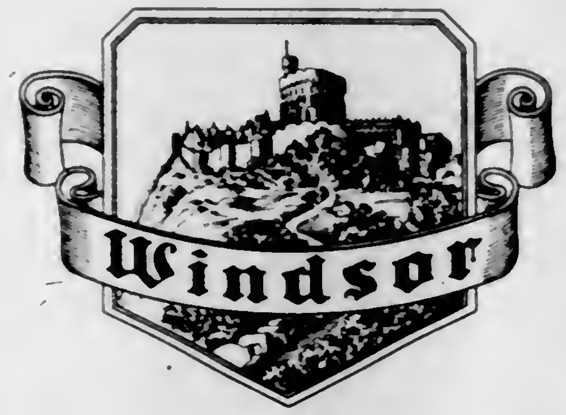
KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 491,594. STARTEX MILLS, Tucapau, S. C. Filed Nov. 14, 1945.

★STARTEX
KITCHEN PRIDE

The word "Kitchen" is disclaimed apart from the mark for purposes of registration.
FOR CRASH GOODS IN THE PIECE, TOWELS, AND TOWELING.
Claims use since Feb. 8, 1938.

Ser. No. 498,605. CONSOLIDATED TEXTILE CO., INC., New York, N. Y. Filed Mar. 20, 1946. Under section 5b of the act of 1905 as amended in 1920 as to "Windsor."



Applicant is the owner of the trade-mark "Windsor," registration No. 80,334, dated Dec. 6, 1910, renewed, effected under the 10-year proviso.
FOR PIECE GOODS OF COTTON AND PIECE GOODS OF A MIXTURE OF COTTON AND RAYON.
Claims use since Feb. 28, 1946.

Ser. No. 500,367. CHICAGO PRINTED STRING COMPANY, Chicago, Ill. Filed Apr. 17, 1946.

Cotton Queen

Applicant disclaims exclusive right to "Cotton" apart from the mark.
FOR COTTON RIBBON SOLD BY THE SPOOL AND ADAPTED FOR MISCELLANEOUS USES.
Claims use since Apr. 2, 1946.

Ser. No. 502,038. TYNAN & EVANS, INC., New York, N. Y. Filed May 13, 1946.

TROPIC KING

Applicant disclaims the exclusive use of the word "Tropic" apart from the mark.
FOR APPAREL FABRICS WOVEN OF RAYON AND RAYON AND WOOL BLENDS.
Claims use since Apr. 1, 1946.

Ser. No. 504,420. ASSOCIATED PRODUCTS, INC., Chicago, Ill. Filed June 22, 1946.

LUCKY DEVIL

FOR RAYON, SILK, LINEN, AND COTTON PIECE GOODS.
Claims use since Mar. 14, 1946.

Ser. No. 506,974. WELLINGTON SEARS COMPANY, New York, N. Y. Filed Aug. 6, 1946.

Mildupelle

FOR COTTON PIECE GOODS HAVING MILDEW RESISTING FINISH.
Claims use since June 24, 1946.

CLASS 43

THREAD AND YARN

Ser. No. 509,515. WILLIAM J. HEARN, INC., Boston, Mass. Filed Sept. 21, 1946.

"GOLDEN FLEECE"

Applicant disclaims the exclusive right to the use of the word "Fleece" except in connection with the word "Golden."
FOR WOOLEN YARNS IN VARIOUS COLORS AND PHASES.
Claims use since Aug. 6, 1946.

CLASS 46

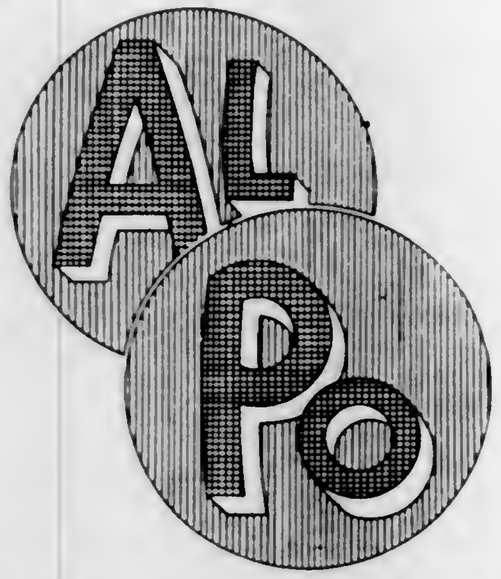
FOODS AND INGREDIENTS OF FOODS

Ser. No. 500,223. B. H. KARMEN, doing business as French-Kitchen Foods Company, Chatsworth, Calif. Filed Apr. 15, 1946.

French Peasant

The word "French" is disclaimed apart from the combination "French Peasant."
FOR SOUP MIXTURES IN DEHYDRATED FORM.
Claims use since Dec. 5, 1945.

Ser. No. 504,182. ROBERT F. HUNSICKER, doing business as Allen Products Company, Allentown, Pa. Filed June 19, 1946.



The drawing is lined for shading purposes only.
FOR CANNED AND FROZEN DOG FOOD.
Claims use since Aug. 22, 1944.

Ser. No. 504,409. WALLACE, BURTON & DAVIS CO., INC., New York, N. Y. Filed June 21, 1946.

101

FOR WORCESTERSHIRE SAUCE.
Claims use since June 3, 1946.

Ser. No. 506,288. AMERICAN HOME FOODS, INC., New York, N. Y. Filed July 26, 1946.

G Washington's

The mark is a reproduction of the generally accepted signature of George Washington, deceased, the first President of the United States.
FOR BROTHS, COFFEES, COFFEE EXTRACTS WITH THE ADMIXTURE OF CARBOHYDRATES.
Claims use since September 1910 on coffee and coffee extracts; and since Mar. 4, 1939, on broths.

Ser. No. 506,350. SEASLIC, INCORPORATED, also doing business as Seaslic, Inc., Chicago, Ill. Filed July 26, 1946.

MA
LING

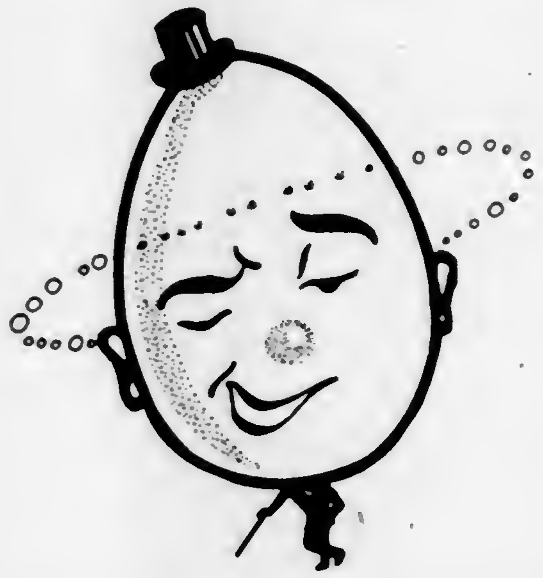
FOR POWDERED FOOD-FLAVORING PRODUCT CONTAINING ESSENTIALLY MONO SODIUM GLUTAMATE.
Claims use since May 17, 1945.

Ser. No. 507,556. THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed Aug. 16, 1946.

Orangelade

FOR JAM OR CONSERVE.
Claims use since Apr. 23, 1945.

Ser. No. 507,726. SADIE LEOTA HUGHES, doing business as J. W. Hughes, Graham, Wash. Filed Aug. 21, 1946.



No claim is made to the representation of the goods apart from the mark.
FOR PICKLED EGGS.
Claims use since Mar. 20, 1946.

Ser. No. 509,473. SCHULZE AND BURCH BISCUIT COMPANY, Chicago, Ill. Filed Sept. 20, 1946.

Piccadilly

FOR COOKIES.
Claims use since June 11, 1946.

CLASS 47

WINES

Ser. No. 505,654. ITALIAN SWISS COLONY, San Francisco, Calif. Filed July 15, 1946. Under 10-year proviso.

FOR WINES.
Claims use since 1889.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF FEBRUARY 20, 1905

MAY 13, 1947

429,651. COAL. Carter Coal Company, New York, N. Y.
Filed September 1, 1942. Serial No. 455,221. PUBLISHED DECEMBER 29, 1942. Class 1.

429,652. COAL. Carter Coal Company, New York, N. Y.
Filed September 1, 1942. Serial No. 455,223 PUBLISHED DECEMBER 29, 1942. Class 1.

429,653. COAL. Carter Coal Company, New York, N. Y.
Filed September 1, 1942. Serial No. 455,224. PUBLISHED DECEMBER 29, 1942. Class 1.

429,654. COAL. Carter Coal Company, New York, N. Y.
Filed September 1, 1942. Serial No. 455,225. PUBLISHED DECEMBER 29, 1942. Class 1.

429,655. RUM. Salvador Sicars Salbado, Santiago de Cuba, Cuba.
Filed November 5, 1943. Serial No. 464,765. PUBLISHED JANUARY 7, 1947. Class 49.

429,656. BUTTON HOOKS, MONEY CLIPS, SHOE HORNS, BOBBY COMBS WITH CASES THEREFOR, COMBS, DRESSER SETS CONSISTING OF COMBS, BRUSHES AND MIRRORS, ETC. Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill.
Filed April 7, 1945. Serial No. 481,847. PUBLISHED FEBRUARY 25, 1947. Class 40.

429,657. ATTACHMENT FOR TOILET BOWLS, COMPRISED OF A HOLLOW ATTACHING BRACKET AND A LEAD-OFF PIPE, ETC. Andrew P. Riedele, Los Angeles, Calif.
Filed June 2, 1945. Serial No. 484,107. PUBLISHED JANUARY 28, 1947. Class 13.

429,658. PHOTOGRAPHIC APPARATUS, NAMELY, PROJECTION LAMPS, ENLARGING PHOTOGRAPHIC APPARATUS, SPARE OBJECT-GLASSES, ETC. Optique et Précision de Levallois, Levallois-Perret (Seine), France.
Filed August 17, 1945. Serial No. 487,200. PUBLISHED FEBRUARY 11, 1947. Class 26.

429,659. LACE DINNER CLOTHS. The Scranton Lace Company, Scranton, Pa.
Filed August 24, 1945. Serial No. 487,528. PUBLISHED FEBRUARY 25, 1947. Class 42.

429,660. WHISKEY. Berke Brothers Distilleries Inc., Boston, Mass.
Filed September 18, 1945. Serial No. 488,636. PUBLISHED FEBRUARY 18, 1947. Class 49.

429,661. TEXTILE CLOTH IN THE PIECE MADE OF COTTON, RAYON, AND WOOL. Jacobson Textile Corp., New York, N. Y.
Filed October 8, 1945. Serial No. 489,584. PUBLISHED FEBRUARY 25, 1947. Class 42.

429,662. ALL PIECE GOODS MADE FROM YARNS COMPOSED OF RAYON. Edwin E. Berliner & Co., New York, N. Y.
Filed October 9, 1945. Serial No. 489,640. PUBLISHED FEBRUARY 18, 1947. Class 42.

429,663. RIBBONS. General Ribbon Mills, Inc., New York, N. Y.
Filed October 15, 1945. Serial No. 489,954. PUBLISHED FEBRUARY 25, 1947. Class 42.

429,664. LADIES', MISSES', AND GIRLS' RAINCOATS, AND RAINCOAT AND HOOD ENSEMBLES. Lecap Rainwear Co., New York, N. Y.
Filed Octoer 31, 1945. Serial No. 490,836. PUBLISHED MAY 14, 1946. Class 39.

429,665. TEXTILE FABRICS SOLD BY THE YARD, MADE OF PLASTIC "SARAN" MONOFILAMENTS AND RAYON. Alfred Vamos Inc., New York, N. Y.
Filed November 10, 1945. Serial No. 491,438. PUBLISHED FEBRUARY 18, 1947. Class 42.

429,666. MEN'S SHOES AND SANDALS MADE FROM LEATHER, FABRIC, OR RUBBER COMPOSITION, OR COMBINATIONS OF SUCH MATERIALS. Adler Sons Shoe Corp., New York, N. Y.
Filed November 15, 1945. Serial No. 491,604. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,667. POLISH FOR METALS. The Plastic-Ply Corporation, Cleveland, Ohio.
Filed December 7, 1945. Serial No. 492,854. PUBLISHED JANUARY 7, 1947. Class 4.

429,668. BILLFOLDS, POCKETBOOKS, AND WALLETS. Bernard Chavin, Brooklyn, N. Y.
Filed January 3, 1946. Serial No. 494,213. PUBLISHED FEBRUARY 25, 1947. Class 3.

429,669. SUNGLASSES, EYEGLASSES, SPECTACLES, AND PARTS THEREOF, INCLUDING LENSES. Comptone Company, New York, N. Y., assignor to American Spectacle Co., Inc., New York, N. Y., a corporation of New York.
Filed January 15, 1946. Serial No. 494,784. PUBLISHED JULY 23, 1946. Class 26.

429,670. SUNGLASSES, EYEGLASSES, SPECTACLES, AND PARTS THEREOF, INCLUDING LENSES. Comptone Company, New York, N. Y., assignor to American Spectacle Co., Inc., New York, N. Y., a corporation of New York.
Filed January 15, 1946. Serial No. 494,785. PUBLISHED JULY 23, 1946. Class 26.

429,671. LEATHER UTILITY AND DRESSING CASES; AND OVERNIGHT BAGS. Saul Diskin, New York, N. Y.
Filed January 16, 1946. Serial No. 494,823. PUBLISHED FEBRUARY 25, 1947. Class 3.

429,672. POTABLE, DISTILLED SPIRITUOUS BEVERAGES, PARTICULARLY WHISKEY. W. A. Haller Company, Inc., Pittsburgh and Philadelphia, Pa.
Filed February 9, 1946. Serial No. 496,309. PUBLISHED JANUARY 7, 1947. Class 49.

429,673. COLD WAVE HAIR CURLERS. Samuel Bonat & Bro., New York, N. Y.
Filed February 20, 1946. Serial No. 496,946. PUBLISHED FEBRUARY 25, 1947. Class 40.

429,674. BRAIDED ASBESTOS LUBRICATED YARN VALVE STEM PACKING. Stewart R. Browne Mfg. Co., Inc., New York, N. Y.
Filed February 21, 1946. Serial No. 497,011. PUBLISHED FEBRUARY 11, 1947. Class 35.

429,675. CHARCOAL HEATED BARBECUE GRILL AND BROILER. Alva B. Davis, doing business as A. B. Davis & Company, Dallas, Tex.
Filed March 5, 1946. Serial No. 497,655. PUBLISHED FEBRUARY 25, 1947. Class 34.

429,676. WOMEN'S APPAREL—NAMELY, SLIPS, BLOOMERS, PETTICOATS, NIGHTGOWNS, PAJAMAS, CHEMISES, UNDERDRAWERS, AND PANTIES. Seamprufe Incorporated, New York, N. Y.
Filed April 13, 1946. Serial No. 500,188. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,677. WHISKEY. A. Alexander & Company, Limited, Edinburgh, Scotland.
Filed April 18, 1946. Serial No. 500,454. PUBLISHED FEBRUARY 18, 1947. Class 49.

429,678. GATE VALVES AND PARTS THEREOF ESPECIALLY ADAPTED FOR USE IN BLAST FURNACES. American Brake Shoe Company, New York, N. Y., and St. Louis, Mo.
Filed April 20, 1946. Serial No. 500,595. PUBLISHED FEBRUARY 4, 1947. Class 13.

429,679. FESTOON RINGS AND FESTOON HOLDERS FOR HOUSEHOLD DRAPERIES. William Remstein, doing business as Remcraft Products, Syracuse, N. Y.
Filed April 22, 1946. Serial No. 500,698. PUBLISHED FEBRUARY 4, 1947. Class 13.

429,680. PILLOW PROTECTORS. Colorbrite Textiles, Inc., New York, N. Y.
Filed April 23, 1946. Serial No. 500,741. PUBLISHED FEBRUARY 25, 1947. Class 42.

429,681. BUST PADS. The Warner Brothers Company, Bridgeport, Conn.
Filed April 25, 1946. Serial No. 500,918. PUBLISHED FEBRUARY 25, 1947. Class 40.

429,682. MEN'S AND WOMEN'S COLLARS. Stein Uniform Company, also doing business as Corliss, Coon & Co., Baltimore, Md.
Filed April 27, 1946. Serial No. 501,096. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,683. POTABLE, DISTILLED SPIRITUOUS BEVERAGES, PARTICULARLY WHISKEY. The Elverson Distilling Company, Inc., Philadelphia and Elverson, Pa.
Filed May 2, 1946. Serial No. 501,315. PUBLISHED DECEMBER 31, 1946. Class 49.

429,684. BOBBY PINS. Edwin H. Quinn, doing business as Zephyr Products Co., Brooklyn, N. Y.
Filed May 7, 1946. Serial No. 501,595. PUBLISHED FEBRUARY 25, 1947. Class 40.

429,685. TEXTILE RUGS AND CARPETS. Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa.
Filed May 9, 1946. Serial No. 501,759. PUBLISHED FEBRUARY 25, 1947. Class 42.

429,686. SHEETING, SHEETS, AND PILLOW CASES. Hesslein & Co., Inc., New York, N. Y.
Filed May 31, 1946. Serial No. 503,093. PUBLISHED FEBRUARY 25, 1947. Class 42.

429,687. NECKWEAR—NAMELY, NECKTIES AND MUFFLERS. The Manhattan Shirt Company, New York, N. Y.
Filed June 5, 1946. Serial No. 503,301. PUBLISHED FEBRUARY 11, 1947. Class 39.

429,688. GIRLS' AND WOMEN'S JACKETS, COATS, BLOUSES, DRESSES, AND SWEATERS. Koret of California, Inc., San Francisco, Calif.
Filed June 7, 1946. Serial No. 503,455. PUBLISHED FEBRUARY 11, 1947. Class 39.

429,689. MEN'S AND WOMEN'S BOOTS, SHOES, SANDALS AND SLIPPERS. Marber Shoe Company Inc., Boston, Mass.
Filed June 21, 1946. Serial No. 504,372. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,690. SHOES. Cannon Shoe Company, Baltimore, Md.
Filed June 26, 1946. Serial No. 504,604. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,691. MEN'S UNDERWEAR—NAMELY, UNDERSHIRTS, SHORTS, AND COMBINATIONS; PAJAMAS; AND NECKTIES. Piedmont Shirt Company, Greenville, S. C.
Filed June 26, 1946. Serial No. 504,632. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,692. STEEL PIPE. Bethlehem Steel Company, Bethlehem, Pa.
Filed June 26, 1946. Serial No. 504,652. PUBLISHED FEBRUARY 11, 1947. Class 13.

429,693. MEN'S AND BOYS' TIES AND CRAVATS. Charles H. Levy Company, New Orleans, La.
Filed June 27, 1946. Serial No. 504,678. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,694. LAWN HOSE AND RUBBER WASHERS. Plymouth Wholesale Dry Goods Corporation, New York, N. Y.
Filed June 27, 1946. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 504,696. PUBLISHED FEBRUARY 4, 1947. Class 35.

429,695. METAL FASTENERS, FAUCETS, VALVES, AND DRAIN VALVES. Arthur R. Adams, Glendale, Calif., assignor to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California.
Filed July 1, 1946. Serial No. 504,872. PUBLISHED FEBRUARY 11, 1947. Class 13.

429,696. FAUCETS, VALVES, COCKS, BATH TUB FITTINGS, SHOWER FITTINGS, AND SINK FITTINGS. California Brass Mfg. Co., Los Angeles, Calif.
Filed July 2, 1946. Serial No. 504,962. PUBLISHED FEBRUARY 18, 1947. Class 13.

429,697. EXTENSIBLE SPRINKLER HEADS FOR LAWN SPRINKLING SYSTEMS. Burklyn Company, Los Angeles, Calif.
Filed July 9, 1946. Serial No. 505,281. PUBLISHED FEBRUARY 11, 1947. Class 13.

429,698. WOMEN'S SLIPPERS. Palm Beach Casual Corp., Boston, Mass., now by change of name Embo Casual Footwear Corp.
Filed July 9, 1946. Serial No. 505,313. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,699. MEN'S AND BOYS' PAJAMAS AND NIGHTSHIRTS. Universal Mfg. Co. Inc., New York, N. Y.
Filed July 11, 1946. Serial No. 505,462. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,700. SHOWER CURTAINS. House Beautiful Curtains, Inc., New York, N. Y.
Filed July 18, 1946. Serial No. 505.831. PUBLISHED FEBRUARY 18, 1947. Class 13.

429,701. CLAMPS FOR WIRES. W. N. Matthews Corporation, St. Louis, Mo.
Filed July 18, 1946. Serial No. 505,847. PUBLISHED FEBRUARY 18, 1947. Class 13.

429,702. NECKTIES AND SCARFS, DRESS SHIRTS, SPORT SHIRTS, NEGLIGEE SHIRTS, PAJAMAS, AND LOUNGING JACKETS. PHILLIPS-JONES CORPORATION, New York, N. Y.
Filed July 18, 1946. Serial No. 505,856. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,703. WASHABLE SERVICE APPAREL—NAMELY, SMOCKS, GOWNS, APRONS, COATS, BLOUSES, JUMPERS, COVERALLS, UNIONALLS, OVERALLS, DRESSES, PANTS, SLACKS, AND SHIRTS—FOR WAITRESSES, WAITERS, CHEFS, HOTEL ATTENDANTS, KITCHEN WORKERS, HOSPITAL ATTENDANTS, NURSES, DOCTORS, DENTISTS, BEAUTICIANS, BARBERS, BUTCHERS, OFFICE WORKERS, AND FACTORY WORKERS. BEST COAT & APRON MFG. CO., INC., New York, N. Y.
Filed July 23, 1946. Serial No. 506,087. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,704. FARM AND HOME FREEZERS. BEN-HUR MFG. CO., Milwaukee, Wis.
Filed August 19, 1946. Serial No. 507,614. PUBLISHED FEBRUARY 25, 1947. Class 31.

429,705. FARM AND HOME FREEZERS. BEN-HUR MFG. CO., Milwaukee, Wis.
Filed August 22, 1946. Serial No. 507,796. PUBLISHED FEBRUARY 25, 1947. Class 31.

429,706. REPROCESSED THEATER SCREENS. HOLLYWOOD THEATER SCREEN SERVICE, INC., Milwaukee, Wis.
Filed August 30, 1946. Serial No. 508,288. PUBLISHED FEBRUARY 11, 1947. Class 26.

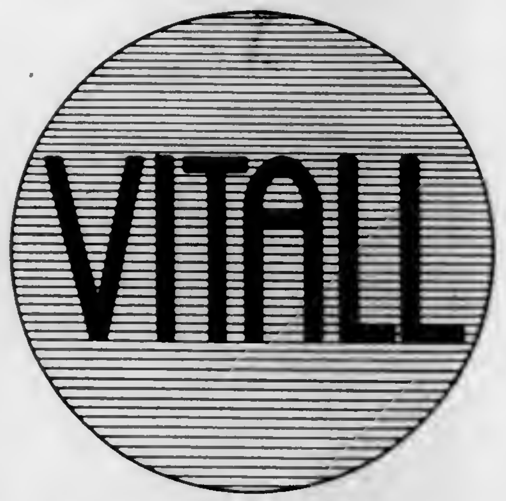
429,707. INSULATING BLANKETS MADE OF GLASS FIBERS EMPLOYED FOR THERMAL AND ACOUSTICAL INSULATION. HARRY I. THOMPSON, doing business as The H. I. Thompson Co., Los Angeles, Calif.
Filed September 14, 1946. Serial No. 509,111. PUBLISHED FEBRUARY 25, 1947. Class 12.

429,708. PNEUMATIC TIRES. THE ARMSTRONG RUBBER COMPANY, West Haven, Conn.
Filed September 19, 1946. Serial No. 509,320. PUBLISHED FEBRUARY 18, 1947. Class 35.

ACT OF MARCH 19, 1920, SEC. 1 (b)

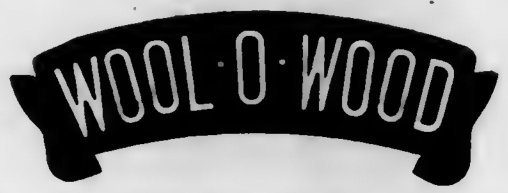
These registrations are not subject to opposition

429,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VITA-FOOD CORPORATION, Los Angeles, Calif. Filed Mar. 17, 1941. Serial No. 441,653.



The circular background is colored blue.
FOR CONCENTRATE—NAMELY, CONCENTRATE OF PLANT EXTRACTIVES WITH VITAMIN B-1 (THIAMIN CHLORIDE), NICOTINIC ACID, AND PURIFIED VITAMIN A FROM FISH LIVER ADDED.
Claims use since July 8, 1940.

429,710. (CLASS 12. CONSTRUCTION MATERIALS.) FRANK G. WOODSIDE, doing business as Woodside Industries, Wauwatosa, Wis. Filed Sept. 14, 1944. Serial No. 474,219.



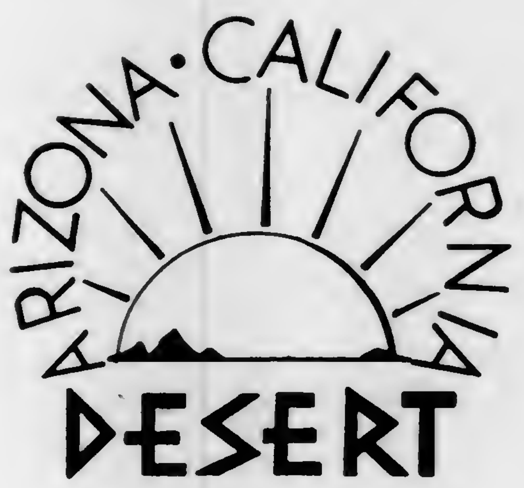
FOR FINELY DIVIDED HEAT INSULATING MATERIAL FORMED FROM WOOD FIBER, IN BULK, BATTS AND BLANKETS.
Claims use since July 26, 1944.

429,711. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) RAMON DEL COLLADO, Habana, Cuba. Filed Dec. 18, 1944. Serial No. 477,684.

COLLADO

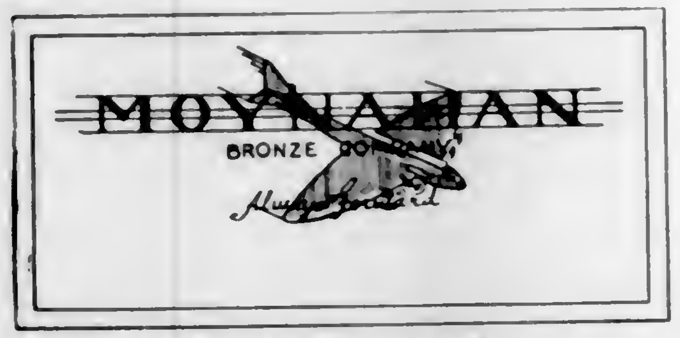
FOR RUM.
Claims use since Oct. 15, 1931.

429,712. (CLASS 45. SOFT DRINKS AND CARBONATED WATERS.) DESERT GRAPEFRUIT INDUSTRY COMMITTEE, INC., Phoenix, Ariz. Filed Dec. 26, 1944. Serial No. 477,918.



FOR CANNED CITRUS JUICES FOR BEVERAGE PURPOSES.
Claims use since Dec. 7, 1944.

429,713. (CLASS 13. HARDWARE AND PLUMBING AND STEAM FITTING SUPPLIES.) MOYNAHAN BRONZE COMPANY, Detroit, Mich. Filed Jan. 22, 1945. Serial No. 478,890.



The drawing is lined for the color red.
FOR HINGES AND SEPARABLE CONNECTORS FOR JOINING THE ADJACENT EDGES OF ADJOINING MEMBERS.
Claims use since Oct. 5, 1944.

429,714. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FOG NOZZLE COMPANY, Los Angeles, Calif. Filed July 20, 1945. Serial No. 486,033.

FOGHED

FOR NOZZLES FOR CONTROLLING FIRES.
Claims use since Sept. 29, 1944.

429,715. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STRONG, CARLISLE & HAMMOND COMPANY, Cleveland, Ohio. Filed Sept. 27, 1945. Serial No. 489,091.

STRONG

FOR STEAM TRAPS, AIR TRAPS, GASOLINE AND OIL TRAPS, VACUUM TRAPS, LIFTING TRAPS, PRESSURE REDUCING VALVES, PRESSURE REGULATING VALVES, STRAINERS FOR STEAM, GAS, AIR AND WATER LINES TO REMOVE GRIT, DIRT, SEDIMENT AND THE LIKE; GLOBE VALVES, NON-RETURN VALVES, STEAM SEPARATORS IN THE NATURE OF TRAPS FOR USE IN REMOVING FREE OR ENTRAINED MOISTURE FROM STEAM IN STEAM CONDUITS; OIL SEPARATORS IN THE NATURE OF TRAPS FOR USE IN REMOVING OIL FROM EXHAUST STEAM IN EXHAUST STEAM CONDUITS; AND OIL SEPARATORS IN THE NATURE OF TRAPS FOR USE IN REMOVING MOISTURE, OIL AND OTHER LIQUIDS FROM AIR IN AIR CONDUITS.
Claims use since 1907.

429,716. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AARON ROTH, New York, N. Y. Filed Sept. 29, 1945. Serial No. 489,185.

NEUROMETER

FOR TUNING FORK FOR QUANTITIVE DETERMINATION OF VIBRATION SENSE, FOR USE IN MEASUREMENT OF HEARING IMPAIRMENT, AND VARIOUS NERVE CONDITIONS.
Claims use since February 1941.

429,717. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) RALPH S. HARTE, San Francisco, Calif. Filed Oct. 31, 1945. Serial No. 490,830.

Pebbletone

FOR THIN TRANSPARENT OR TRANSLUCENT SHEETS OR FILMS OF POLYVINYL RESIN, SOLD AS PIECE GOODS FOR USE IN MAKING SHOWER CURTAINS, BATHROOM CURTAINS, ETC.
Claims use since Aug. 1, 1945.

429,718. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FORMAN, FORD AND COMPANY, Minneapolis, Minn. Filed Dec. 10, 1945. Serial No. 493,002.

ROOF·DRES

FOR DECORATIVE ROOF COATINGS.
Claims use since Aug. 20, 1945.

429,719. (CLASS 39. CLOTHING.) VIGDER BROS., INCORPORATED, New York, N. Y. Filed Dec. 13, 1945. Serial No. 493,231.

SLENDER-FIT

FOR LADIES' AND MISSES' FUR COATS.
Claims use since August 1945.

429,720. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) AFFILIATED RETAILERS, INC., New York, N. Y. Filed Dec. 17, 1945. Serial No. 493,420.

RUTLEDGE

FOR GAS STOVES, AND COMBINATION GAS AND COAL STOVES FOR COOKING AND HEATING PURPOSES.
Claims use since Oct. 22, 1945.

429,721. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) A. W. CHESTERTON COMPANY, Boston, Mass. Filed Dec. 22, 1945. Serial No. 493,741.

The lining shown on the drawing is for shading to indicate the rounded fragment of a shaft.

FOR MECHANICAL PACKINGS FOR PISTON AND SLIDE VALVE RODS, AND FOR USE IN STUFFING BOXES, SHEETS PACKINGS, ROD PACKINGS, PACKING RINGS, AND GASKETS MADE WHOLLY OR IN PART OF ASBESTOS, FIBRE, RUBBER, PLASTIC OR COMPOUNDS THEREOF.

Claims use since Jan. 1, 1935.

429,722. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JONES & RANDOLPH, LTD., Chicago, Ill. Filed Jan. 5, 1946. Serial No. 494,335.

JULI

FOR FLAVORED GIN, KUMMEL, SLOE GIN, PEPPERMINT SCHNAPPS LIQUEUR, CREME DE MENTHE, CREME DE CACAO, ANISETTE, STREGASI LIQUEUR, ROCK AND RYE, APRICOT, BLACKBERRY, PEACH AND CHERRY LIQUEURS.

Claims use since Sept. 21, 1945.

429,723. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) E. BRAUN & CO., INC., New York, N. Y. Filed Jan. 17, 1946. Serial No. 494,887.

E. Braun & Co.

FOR TABLE CLOTHS, NAPKINS, BED SHEETS, PILLOW CASES, BOLSTER CASES, TOWELS, DISH TOWELS, AND WINDOW CURTAINS.

Claims use since Apr. 17, 1939.

429,724. (CLASS 47. WINES.) H. STONE & CO., LTD., Newark, N. J. Filed Jan. 22, 1946. Serial No. 495,197.

GRO'VENOR

FOR WINES.

Claims use since Jan. 8, 1946.

429,725. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) GOLDMAN-ROSSMAN CORPORATION, New York, N. Y. Filed Feb. 8, 1946. Serial No. 496,284.

COLORSURE

FOR KNITTED AND WOVEN FABRICS, MADE OF WOOL, SILK, COTTON AND RAYON SOLD BY THE PIECE OR BY THE YARD.

Claims use since Jan. 4, 1946.

429,726. (CLASS 47. WINES.) BEVERLY HILLS WINE COMPANY, Syracuse, N. Y. Filed Feb. 23, 1946. Serial No. 497,068.

**LAGUNA
VALLEY**

FOR WINES.

Claims use since Jan. 3, 1946.

429,727. (CLASS 45. SOFT DRINKS AND CARBONATED WATERS.) ROTELLA BEVERAGES, INC., Newark, N. J. Filed Mar. 2, 1946. Serial No. 497,569.

FOR NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.

Claims use since Nov. 14, 1945.

429,728. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. NASH & SON, INC., Norfolk, Va. Filed Mar. 5, 1946. Serial No. 497,675.

BILLIARD BALL FINISH

FOR WAX FOR USE ON FLOORS, FURNITURE, AND LINOLEUM.

Claims use since December 1945.

429,729. (CLASS 38. PRINTS AND PUBLICATIONS.) MONA PALMER, Los Angeles, Calif., executrix and sole trustee of the estate of Russell Palmer, deceased. Filed Mar. 11, 1946. Serial No. 498,023.

SUGAR

FOR MAGAZINE.

Claims use since 1928.

429,730. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AFFILIATED RETAILERS, INC., New York, N. Y. Filed Mar. 13, 1946. Serial No. 498,103.

ULTRABASE

FOR CONTROL OF VOLUME AND TONE WITH FULL SCALE RANGE FOR MANTEL, PORTABLE, COMBINATION PHONOGRAPH AND RADIO SETS AND CONSOLES.

Claims use since Nov. 15, 1945.

429,731. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) ARTMART LINEN CO., INC., New York, N. Y. Filed Mar. 13, 1946. Serial No. 498,106.

Lacypak

FOR TOWELS, BUREAU SCARVES, DRESSER SCARVES, DOILIES, NAPKINS, TABLE CLOTHS, BRIDGE SETS, LUNCHEON SETS, AND PILLOW CASES.

Claims use since Feb. 27, 1946.

429,732. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. CLAIR FOODS CO., LTD., McAllen, Tex. Filed Mar. 13, 1946. Serial No. 498,179.

HALF & HALF

FOR CANNED CITRUS JUICES—NAMELY, A BLEND OF ORANGE AND GRAPEFRUIT JUICE FOR FOOD PURPOSES.

Claims use since Feb. 23, 1946.

429,733. (CLASS 38. PRINTS AND PUBLICATIONS.) MONA PALMER, Los Angeles, Calif., executrix and sole trustee of the estate of Russell Palmer, deceased. Filed Mar. 14, 1946. Serial No. 498,251.

EL MUNDO
Azucarero

FOR MAGAZINE.

Claims use since 1928.

429,734. (CLASS 45. SOFT DRINKS AND CARBONATED WATERS.) CHURCH GRAPE JUICE CO., Kennewick, Wash. Filed Mar. 18, 1946. Serial No. 498,396.

CHURCH'S
Naturally Sweet

FOR GRAPE JUICE.

Claims use since February 1940.

429,735. (CLASS 39. CLOTHING.) JULIUS REITER, Cincinnati, Ohio. Filed Mar. 20, 1946. Serial No. 498,651.

"Vari-Weather"

FOR TOP COATS AND OVERCOATS.

Claims use since Oct. 7, 1945.

429,736. (CLASS 43. THREAD AND YARN.) EDWARD L. CECCO, doing business as Cecco Yarns, Niles, Mich. Filed Apr. 8, 1946. Serial No. 499,821.

Fleecy-Down

FOR YARN.

Claims use since Dec. 1, 1945.

429,737. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) FRANK VEALE MFG. CO., Bradenton, Fla. Filed Apr. 18, 1946. Serial No. 500,499.

VEALE-WAY

FOR FIBRE PRODUCT MADE OF WOOD AND PAPER IN THE NATURE OF WEAVING MATERIAL USED IN MAKING CHAIR SEATS, BASKETS, PORCH FURNITURE AND OTHER ITEMS.

Claims use since Nov. 27, 1945.

429,738. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LAZARE KAPLAN & SONS, INC., New York, N. Y. Filed Apr. 29, 1946. Serial No. 501,133.

KAPLAN

Triple-Mark

FOR DIAMOND IMPREGNATED WHEELS AND DIAMOND IMPREGNATED HONES.

Claims use since Jan. 1, 1944.

429,739. (CLASS 39. CLOTHING.) Revel Dresses, Inc., New York, N. Y. Filed May 4, 1946. Serial No. 501,473.

JANE WILLIAM

FOR LADIES', MISSES' AND JUNIOR MISSES' DRESSES.
Claims use since Jan. 2, 1946.

429,740. (CLASS 39. CLOTHING.) Morton Minchenberg, New York, N. Y. Filed May 11, 1946. Serial No. 501,917.

MAID TO ORDER

FOR MISSES' AND JUNIOR MISSES' BLOUSES AND DRESSES.
Claims use since Jan. 2, 1946.

429,741. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Foster Grant Co., Inc., Leominster, Mass. Filed May 13, 1946. Serial No. 501,976.

Fashion Frame

FOR SUNGLASSES.
Claims use since on or about Mar. 22, 1946.

429,742. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Foster Grant Co., Inc., Leominster, Mass. Filed May 13, 1946. Serial No. 501,977.

EyeStyle

FOR SUNGLASSES.
Claims use since Mar. 22, 1946.

429,743. (CLASS 39. CLOTHING.) Dora Liebert, doing business as Dorine Liebert, New York, New York, N. Y. Filed May 29, 1946. Serial No. 502,988.

DORINE LIEBERT

FOR BLOUSES, NEGLIGEES AND VESTEES.
Claims use since July 1944.

429,744. (CLASS 47. WINES.) California Growers Wineries, Cutler, Calif. Filed June 7, 1946. Serial No. 503,423.

Growers
OLD RESERVE

FOR WINES.
Claims use since May 18, 1943, and since Nov. 20, 1935 as to the word "Growers."

429,745. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Solar Electric Corporation, Warren, Pa. Filed June 7, 1946. Serial No. 503,474.

Solar

FOR ELECTRICAL INCANDESCENT LAMPS, ELECTRIC DRY BATTERIES, ELECTRIC WIRE CONNECTORS, ELECTRIC ATTACHMENT PLUGS, AND ELECTRIC FLUORESCENT STARTERS.
Claims use since Sept. 1, 1944.

429,746. (CLASS 39. CLOTHING.) Irving K. Rolling, doing business as Ortho Products Co., New York, N. Y. Filed June 12, 1946. Serial No. 503,756.

DR. BARRON'S

FOR FOOT CUSHIONING INNER SOLES.
Claims use since January 1945.

429,747. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) David Bogen Co., Inc., New York, N. Y. Filed July 15, 1946. Serial No. 505,634.

Bogen

FOR SOUND EQUIPMENT—NAMELY, AMPLIFIERS, INTERCOMMUNICATION SYSTEMS, SPEAKERS AND MICROPHONES.
Claims use since Sept. 1, 1933.

429,748. (CLASS 39. CLOTHING.) Samuel Chapman Inc., New York, N. Y. Filed July 16, 1946. Serial No. 505,685.

Ceil Chapman

FOR LADIES' AND MISSES' DRESSES, COATS, AND SUITS.
Claims use since January 1938.

429,749. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) Laher Spring and Tire Corporation, Oakland, Calif. Filed Aug. 13, 1946. Serial No. 507,321.

LAHER

FOR PNEUMATIC TIRES.
Claims use since June 1, 1923.

429,750. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) The Hartman Corporation of America, St. Louis, Mo. Filed Sept. 9, 1946. Serial No. 508,726.

HARTMAN

FOR BATTERY CHARGERS AND ANALYZERS.
Claims use since Aug. 5, 1944.

429,751. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Halgreen, Inc., New York, N. Y. Filed Sept. 20, 1946. Serial No. 509,420.

HALGREEN

FOR RADIO RECEIVING SETS AND PARTS THEREOF IN RADIO KITS.
Claims use since May 31, 1945.

429,752. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) John Corrao, doing business as Original Trapunto Novelties Co., New York, N. Y. Filed Sept. 28, 1946. Serial No. 509,916.

E-Z FEEDER

By ORIGINAL TRAPUNTO

FOR HOLDING PAD FOR BABY BOTTLES.
Claims use since June 1945.

TRADE-MARK REGISTRATIONS RENEWED

29,409. **"LOG CABIN" AND REPRESENTATION OF LOG CABIN.** PREPARATION OF CEREALS, PRESERVES, AND JELLIES. Registered Jan. 5, 1897. The Towle Syrup Co., St. Paul, Minn. Re-renewed Jan. 5, 1947, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Class 46.

56,773. **REPRESENTATION OF A GLOVED HUMAN HAND ETC.** SEAMLESS RUBBER GLOVES. Registered Oct. 16, 1906. The Miller Rubber Manufacturing Co., Akron, Ohio. Re-renewed Oct. 16, 1946, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York. Classes 39 and 44.

56,844. **REPRESENTATION OF RUBBER COVERED ELECTRICAL WIRE.** RUBBER-COVERED ELECTRICAL WIRE. Registered Oct. 23, 1906. John A. Roebling's Sons Company, Trenton, N. J., a corporation of New Jersey. Re-renewed Oct. 23, 1946. Class 21.

57,412. **REPRESENTATION OF WINGED SERPENT.** HAND SEWING-NEEDLES, CROCHET HOOKS, HAND KNITTING PINS OR NEEDLES, AND BODKINS. Registered Nov. 13, 1906. John James & Sons, Limited, Redditch, England. Re-renewed Nov. 13, 1946, to The English Needle & Fishing Tackle Company, Limited, Birmingham, England, a body politic and corporate duly organized and existing under the laws of England. Class 40.

57,707. **REPRESENTATION OF MAN WITH BOW AND ARROW.** FISH-HOOKS, ARTIFICIAL FLIES, ARTIFICIAL BAITS (INCLUDING SPOONS AND SPINNERS), FISHING-LINES, FISHING-GUT, GUT LINES, FISHING RODS, REELS, FLOATS, AND SWIVELS. Registered Nov. 27, 1906. H. Milward & Sons, L'd, Redditch, England. Re-renewed Nov. 27, 1946, to The English Needle & Fishing Tackle Company, Limited, Birmingham, England, a body politic and corporate duly organized and existing under the laws of England. Class 22.

58,135. **"CAFE DES INVALIDES" AND DESIGN.** A BLEND OF COFFEE WITH OTHER INGREDIENTS. Registered Dec. 4, 1906. S. S. Pierce Co., Boston, Mass., a corporation of Massachusetts. Re-renewed Dec. 4, 1946. Class 46.

58,233. **THE OVERLAND.** CIGARS. Registered Dec. 11, 1906. S. S. Pierce Co., Boston, Mass., a corporation of Massachusetts. Re-renewed Dec. 11, 1946. Class 17.

58,397. **HOUSEHOLD AMMONIA.** AQUA AMMONIA. Registered Dec. 11, 1906. Columbia Chemical Works, Brooklyn, N. Y. Re-renewed Dec. 11, 1946, to Parsons Ammonia Company, Inc., New York, N. Y., a corporation of New York. Class 6.

58,713. **SWAN'S DOWN.** BAKING-POWDER. Registered Dec. 25, 1906. S. S. Pierce Co., Boston, Mass., a corporation of Massachusetts. Re-renewed Dec. 25, 1946. Class 46.

59,029. **TICONDEROGA.** GRAPHITE. Registered Jan. 1, 1907. Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey. Re-renewed Jan. 1, 1947. Classes 1 and 15.

59,158. **REPRESENTATION OF ANCHOR AND ROPE.** SEWING COTTON, CROCHET, EMBROIDERY, AND KNITTING COTTON. Registered Jan. 1, 1907. Clark & Co., Ltd., Paisley, Scotland. Re-renewed Jan. 1, 1947, to The Clark Thread Company, Newark, N. J., a corporation of New Jersey. Class 43.

59,204. **"POST SUGAR" ETC.** SUGAR. Registered Jan. 1, 1907. Postum Cereal Co., Ltd., Battle Creek, Mich. Re-renewed Jan. 1, 1947, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Class 46.

59,354. **"ADELINA PATTI" AND HER PORTRAIT ETC.** CIGARS. Registered Jan. 8, 1907. Jose Lovera Co. Re-renewed Jan. 8, 1947, to Consolidated Cigar Corporation, New York, N. Y., a corporation of Delaware. Class 17.

60,307. **"J. & P. COATS" ETC., AND REPRESENTATION OF SPOOL OF COTTON.** SEWING-COTTON ON SPOOLS OR REELS. Registered Feb. 5, 1907. J. & P. Coats, Limited, Paisley, Scotland. Re-renewed Feb. 5, 1947, to J. & P. Coats (R. I.) Inc., Pawtucket, R. I., a corporation of Rhode Island. Class 43.

60,308. **REPRESENTATION OF CHAIN OF LINKS WITHIN CIRCLE.** SEWING-COTTON WOUND ON SPOOLS OR REELS. Registered Feb. 5, 1907. J. & P. Coats, Limited, Paisley, Scotland. Re-renewed Feb. 5, 1947, to J. & P. Coats (R. I.) Inc., Pawtucket, R. I., a corporation of Rhode Island. Class 43.

60,338. **QUILLBONE.** STIFFENING CORDS, BLADES, TAPES, AND FABRICS. Registered Feb. 5, 1907. The Warren Featherbone Co. Re-renewed Feb. 5, 1947, to The Warren Featherbone Co., Three Oaks, Mich., a corporation of Michigan. Class 40.

60,517. **ENTERPRISE.** SAD IRONS. Registered Feb. 12, 1907. The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Feb. 12, 1947. Class 24.

60,716. **"NETTLEFOLDS" ETC.** SCREWS OF ALL DESCRIPTIONS, NAILS, RIVETS, NUTS, WASHERS, HOOKS AND EYES, USED EITHER SEPARATELY OR TOGETHER, HITCH-PINS, ROLLER-ARMS, DESK-RIVETS, PIANO-HINGES, IRON PINS, AND WIRE STAPLES. Registered Feb. 19, 1907. Guest, Keen & Nettlefolds, Limited, Birmingham, England. Re-renewed Feb. 19, 1947. Guest, Keen & Nettlefolds Limited, Smethwick, England, a British Company. Classes 13 and 40.

60,788. **LITHYOL.** MEDICINAL COMPOUND FOR EXTERNAL USE IN PLASTERS, UNGUENTS, ETC., IN THE TREATMENT OF RHEUMATISM, ISCHIAS, MIGRAINE, BURNS AND SCALDS. Registered Feb. 19, 1907. Chemische Fabrik Vormals Sandoz, Basel, Switzerland. Re-renewed Feb. 19, 1947, to Sandoz Chemical Works, Inc., New York, N. Y., a corporation of New York. Class 6.

60,918. **REPRESENTATION OF A RED CROSS.** HIGH EXPLOSIVES. Registered Feb. 26, 1907. The Eastern Dynamite Company, Kenvil, N. J. Re-renewed Feb. 26, 1947, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 9.

61,247. **KAMNA SALVE.** MASSAGE-CREAM AND ECZEMA CURE. Registered Mar. 12, 1907. Blanke-Baer Chemical Company. Re-renewed Mar. 12, 1947, to Blanke Baer Extract & Preserving Company, St. Louis, Mo., a corporation of Missouri. Class 6.

61,393. **REPRESENTATION OF A DEER ETC.** GUNSIGHTS. Registered Mar. 19, 1907. The Lyman Gun Sight Corporation, Middlefield, Conn., a corporation of Connecticut. Re-renewed Mar. 19, 1947. Class 9.

61,577. **"SCHIEREN'S COWBOY" AND ILLUSTRATION.** LEATHER OF ALL KINDS. Registered Mar. 26, 1907. Chas. A. Schieren & Co. Re-renewed Mar. 26, 1947, to Chas. A. Schieren Company, New York, N. Y., a corporation of New York. Class 1.

216,733. **BUDDIES.** COFFEE. Registered Aug. 17, 1926. The Ouerbacker Coffee Co., Inc., Louisville, Ky., a corporation of Kentucky. Renewed Aug. 17, 1946. Class 46.

216,943. **ROMANY.** GIRDLES, COMBINETTES, BANDEAUX, AND CAMISOLES, CORSET WAISTS, STEP-INS, VESTS, AND COMBINATIONS OF GIRDLES AND BLOOMERS, GIRDLES AND STEP-INS, AND GIRDLES AND DRAWERS, OF TEXTILE FABRIC MATERIAL. Registered Aug. 24, 1926. American Lady Corset Co., Detroit, Mich., a corporation of Michigan. Renewed Aug. 24, 1946. Class 39.

218,512. **COLONIA ELENA.** CONCENTRATED TOMATO, TOMATO SAUCE, PEELED TOMATOES, CONCENTRATED GRAPES, PRESERVED FRENCH BEANS, AND OTHER FOOD ITEMS. Registered Sept. 28, 1926. Societa Anonima Bonifiche Pontine. Renewed Sept. 28, 1946, to I. C. A. Industrie Conserve Alimentari, Rome, Italy, an Italian corporation. Class 46.

218,832. **NORTHWIND.** REFRIGERATORS. Registered Oct. 5, 1926. The S. Kann Sons Company, Washington, D. C., a corporation of Maryland. Renewed Oct. 5, 1946. Class 31.

218,837. **"TROUBLE SAVERS".** CARPENTERS', PLASTERERS', STRUCTURAL-METAL-WORKERS', AND OTHER ARTISANS' METAL SCAFFOLDS, TRESTLES, AND BRACKETS, ADAPTABLE FOR SCAFFOLDING PURPOSES. Registered Oct. 5, 1926. Steel Scaffolding Co., Evansville, Ind. Renewed Oct. 5, 1946, to The Patent Scaffolding Co. Inc., Long Island City, N. Y., a corporation of New York. Class 50.

218,916. **BOSTON ADVERTISER.** DAILY NEWSPAPER. Registered Oct. 5, 1926. Northeastern Publishing Company. Renewed Oct. 5, 1946, to The Hearst Corporation, Boston, Mass., a corporation of Delaware. Class 38.

218,928. **"R" AND DESIGN.** RUBBER TIRES AND TUBES. Registered Oct. 5, 1926. The Miller Rubber Company, Akron, Ohio. Renewed Oct. 5, 1946, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York. Class 35.

218,934. **KANSAS VETERAN.** WHEAT FLOUR. Registered Oct. 5, 1926. The Red Star Milling Company, Wichita, Kans. Renewed Oct. 5, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

219,925. **METALACE.** OPEN-MESH FABRIC OF METAL STRANDS, SUCH AS GRILLES, RADIATOR CLOSURES, AND SIMILAR DEVICES. Registered Oct. 26, 1926. The Metalace Corporation, Boston and South Boston, Mass. Renewed Oct. 26, 1946, to The Colorado Fuel and Iron Corporation, New York, N. Y., a corporation of Colorado. Class 13.

220,455. **LADY KATHRYN.** APRONS. Registered Nov. 9, 1926. T. Buettner & Co., Inc., Chicago, Ill., a corporation of Illinois. Renewed Nov. 9, 1946. Class 39.

220,666. **ARISTOCRAT.** ELECTRIC BATTERIES. Registered Nov. 16, 1926. General Dry Batteries, Inc., Cleveland, Ohio. Renewed Nov. 16, 1946, to General Dry Batteries, Inc., Lakewood, Ohio, a corporation of Ohio. Class 21.

221,057. **SEA GEM.** CANNED VEGETABLES. Registered Nov. 23, 1926. Lakeside Packing Company, Manitowoc, Wis., a corporation of Wisconsin. Renewed Nov. 23, 1946. Class 46.

221,058. **LAKESIDE.** CANNED VEGETABLES, PORK AND BEANS, AND RELISHES—NAMELY, OLIVES AND PICKLES. Registered Nov. 23, 1926. Lakeside Packing Company, Manitowoc, Wis., a corporation of Wisconsin. Renewed Nov. 23, 1946. Class 46.

221,074. **"CHIEF" AND ILLUSTRATION OF INDIAN CHIEF.** ROLLED OATS. Registered Nov. 23, 1926. Purity Oats Company, Keokuk, Iowa. Renewed Nov. 23, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

221,639. **"GENERALIFE" ETC. AND DRAWING.** OLIVE OIL. Registered Dec. 7, 1926. Pallares Hermanos. Renewed Dec. 7, 1946, to Pallarés Hermanos, S. A., Cabra, Spain, a Spanish corporation. Class 46.

221,869. **"MANHAN" AND REPRESENTATION OF INDIAN GIRL.** POTATO CHIPS. Registered Dec. 14, 1926. Edward W. Drondoski, doing business as Manhan Potato Chip Co., Easthampton, Mass. Renewed Dec. 14, 1946, to Manhan Potato Chip Co., Inc., Northampton, Mass., a corporation of Massachusetts. Class 46.

222,007. **OUR BOND.** MAGAZINE PUBLISHED PERIODICALLY KNOWN AS A HOUSE ORGAN. Registered Dec. 21, 1926. General Baking Company, New York, N. Y., a corporation of New York. Renewed Dec. 21, 1946. Class 38.

222,025. **BLUE DIAMOND.** CANNED VEGETABLES. Registered Dec. 21, 1926. Lakeside Packing Company, Manitowoc, Wis., a corporation of Wisconsin. Renewed Dec. 21, 1946. Class 46.

222,534. **NORMACOL.** PHARMACEUTICAL PREPARATIONS FOR HUMAN USE AND VETERINARY PURPOSES TO BE EMPLOYED MAINLY AS PURGATIVE. Registered Jan. 4, 1927. Chemische Fabrik "Norgine" Dr. Victor Stein, Prague, Czechoslovakia. Renewed Jan. 4, 1947, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey. Class 6.

222,759. **HERSHEY'S.** SUGAR. Registered Jan. 11, 1927. Hershey Chocolate Company. Renewed Jan. 11, 1947, to Hershey Corporation, Hershey, Pa., a corporation of Delaware. Class 46.

223,418. **STEELEX.** PISTON RINGS. Registered Feb. 1, 1927. Pressure Proof Piston Ring Company, Boston, Mass. Renewed Feb. 1, 1947, to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio. Class 35.

223,614. **"BROOKS PATENT GLACE THREAD" AND ILLUSTRATION.** COTTON THREAD. Registered Feb. 8, 1927. Jonas Brook & Bros., Limited, Meltham, England. Renewed Feb. 8, 1947, to Jonas Brook & Bros. (U. S. A.) Inc., Newark, N. J., a corporation of New Jersey. Class 43.

223,684. **"CLARK'S O. N. T." ETC. AND DESIGN.** SEWING COTTON OR COTTON THREAD. Registered Feb. 8, 1927. The Clark Thread Company, Newark, N. J., a corporation of New Jersey. Renewed Feb. 8, 1947. Class 43.

223,697. **CAPTAX.** ACCELERATORS FOR THE VULCANIZATION OF CAOUTCHOUC. Registered Feb. 8, 1927. The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 8, 1947. Class 6.

223,788. **"RED LABEL" ETC. AND DESIGN.** CANNED AND PRESERVED FRUITS, CANNED VEGETABLES, CANNED FISH, CANNED SHRIMP, CANNED SHELL FISH, CANNED MEATS, SUCH AS CANNED TONGUE AND CANNED BEEF, SMOKED MEATS, FRUIT PRESERVES AND MARMALADES, TEAS, COFFEES, CANNED SOUPS, AND SPICES. Registered Feb. 8, 1927. S. S. Pierce Co., Boston, Mass., a corporation of Massachusetts. Renewed Feb. 8, 1947. Class 46.

223,864. **"SO-LO JACK" AND REPRESENTATION OF LIFTING JACK.** LIFTING JACKS AND PARTS THEREOF. Registered Feb. 15, 1927. So-Lo Jack Company, Inc., Attleboro, Mass., a corporation of Massachusetts. Renewed Feb. 15, 1947. Class 28.

224,210. **"GOTHIC BRAND" AND DESIGN.** HAND SEWING NEEDLES. Registered Feb. 22, 1927. Thomas Harper & Sons Limited, Redditch, England. Renewed Feb. 22, 1947, to The English Needle & Fishing Tackle Company, Limited, Birmingham, England, a body politic and corporate of England. Class 40.

224,317. **DEFENDER.** PAPER BAGS. Registered Feb. 22, 1927. Columbia Bag & Paper Corporation, Long Island City, N. Y. Renewed Feb. 22, 1947, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

224,342. **RED RABBIT.** CANNED VEGETABLES AND RELISHES—NAMELY, OLIVES AND PICKLES. Registered Feb. 22, 1927. Lakeside Packing Company, Manitowoc, Wis., a corporation of Wisconsin. Renewed Feb. 22, 1947. Class 46.

224,449. **"DUNN WORSTED MILLS" ETC. AND DESIGN.** WOOLEN AND WORSTED PIECE GOODS. Registered Mar. 1, 1927. Dunn Worsted Mills, Woonsocket, R. I., a corporation of Rhode Island. Renewed Mar. 1, 1947. Class 42.

224,456. **FAVORITE.** VERTICAL-CABINET FOLDERS, ALPHABETICAL-INDEX INSERTS, AND HAND-OPERATED PERFORATORS FOR PAPER. Registered Mar. 1, 1927. The Cooke & Cobb Company, Brooklyn, N. Y. Renewed Mar. 1, 1947, to The Cooke & Cobb Company, New York, N. Y., a corporation of New York. Class 37.

224,466. **"PECO" AND DESIGN.** EXPERIMENTAL AND SPECIAL MACHINERY. Registered Mar. 1, 1927. William F. Errig. Renewed Mar. 1, 1947, to Peco Manufacturing Corporation, Philadelphia, Pa., a corporation of Pennsylvania. Class 23.

224,485. **JANINE.** WOMEN'S CORSETS, UNDERWEAR OF KNITTED AND TEXTILE FABRICS, NEGLIGEES, PYJAMAS, AND BATH ROBES. Registered Mar. 1, 1927. Hochschild, Kohn & Co., Inc., Baltimore, Md., a corporation of Maryland. Renewed Mar. 1, 1947. Class 39.

224,596. **"KRAFTALL".** FILES FOR CORRESPONDENCE AND PAPERS. Registered Mar. 1, 1927. The Cooke & Cobb Company, Brooklyn, N. Y. Renewed Mar. 1, 1947, to The Cooke & Cobb Company, New York, N. Y., a corporation of New York. Class 37.

224,827. **"GDC" AND DESIGN.** DYES, DYESTUFFS, AND DYESTUFF INTERMEDIATES, AND CHEMICALS—NAMELY, ASSISTANT PRODUCTS USED IN DYEING AND BLEACHING—VIZ, ALKALI-METAL HYDRO-SULFITE AND ALKALI-METAL BI-SULFITE, MORDANTS, FIXING AGENTS, AND BLEACHING AGENTS, INSECTICIDES AND REDUCING AGENTS. Registered Mar. 8, 1927. General Dyestuff Corporation, New York, N. Y., a corporation of New York. Renewed Mar. 8, 1947. Class 6.

224,910. **SECURITY.** WHEAT FLOUR. Registered Mar. 8, 1927. J. Allen Smith & Company, Knoxville, Tenn., a corporation of Maine. Renewed Mar. 8, 1947. Class 46.

224,922. **"ABBEYLEIX STABLE" AND DESIGN.** HORSES. Registered Mar. 8, 1927. A. L. Fitz Patrick, Philadelphia, Pa. Renewed Mar. 8, 1947. Class 1.

224,968. **"GLOVINGLY YOURS" ETC.** GLOVES OF LEATHER, SILK, AND FABRIC (MADE OF COTTON OR LISLE) AND COMBINATIONS OF THESE MATERIALS. Registered Mar. 8, 1927. Charles F. Berg. Renewed Mar. 8, 1947, to Charles F. Berg, Inc., Portland, Oreg., a corporation of Oregon. Class 39.

224,987. **CREPE GANYMEDE.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered Mar. 8, 1927. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Mar. 8, 1947. Class 42.

224,988. **CYLENE.** WOVEN, KNITTED, NETTED, TEXTILE AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered Mar. 8. 1927. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Mar. 8, 1947. Class 42.

225,003. **LE TOUQUET.** PERFUMES AND TOILET CREAMS. Registered Mar. 8, 1927. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 8, 1947. Class 6.

225,004. **LE TOUQUET.** SOAPS. Registered Mar. 8, 1927. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 8, 1947. Class 4.

225,010. **WAVERLY.** CANNED VEGETABLES AND PICKLES. Registered Mar. 8, 1927. LAKESIDE PACKING COMPANY, Manitowoc, Wis., a corporation of Wisconsin. Renewed Mar. 8, 1947. Class 46.

225,123. **WESTERN.** SALT. Registered Mar. 15, 1927. WESTERN SALT CO., San Diego, Calif., a corporation of California. Renewed Mar. 15, 1947. Class 46.

225,126. **INTERNATIONAL MEDICAL DIGEST.** MONTHLY MEDICAL JOURNAL. Registered Mar. 15, 1927. W. F. PRIOR COMPANY, INC., Hagerstown, Md., a corporation of Maryland. Renewed Mar. 15, 1947. Class 38.

225,181. **HOUSEX.** SHEET GLASS, OPTICAL GLASS IN BULK, AND PRESSED GLASSWARE. Registered Mar. 15, 1927. L. J. HOUZE CONVEX GLASS COMPANY, Point Marion, Pa., a corporation of Pennsylvania. Renewed Mar. 15, 1947. Class 33.

225,248. **TROTTEUR.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered Mar. 15, 1927. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Mar. 15, 1947. Class 42.

225,249. **RILLORA.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered Mar. 15, 1927. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Mar. 15, 1947. Class 42.

225,302. **COSMIC.** ANTISEPTIC POWDER. Registered Mar. 15, 1927. EARNEST E. RHOADS, doing business as Cosmic Laboratories. Renewed Mar. 15, 1947, to A. H. Finley, doing business as Cosmic Products Co., Washington Court House, Ohio. Class 6.

225,307. **REPRESENTATION OF A PROPELLER WITHIN AN OVAL DESIGN.** BLADES AND HUBS FOR AEROPLANE PROPELLERS. Registered Mar. 15, 1927. STANDARD STEEL PROPELLER COMPANY, Pittsburgh, Pa. Renewed Mar. 15, 1947, to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware. Class 19.

225,364. **"MASTER BREW" AND DESIGN.** NON-ALCOHOLIC MALT BEVERAGE. Registered Mar. 15, 1927. THEO. HAMM BREWING COMPANY, St. Paul, Minn., a corporation of Minnesota. Renewed Mar. 15, 1947. Class 48.

225,500. **ODELL'S.** TOILET REQUISITES—NAMELY, HAIR TONIC, HAIR DRESSING, SHAMPOO, TOILET WATER, MASSAGE CREAM, TALCUM POWDER, FACE POWDER, NAIL POLISH, PREPARATION FOR REMOVING THE CUTICAL, AND PERFUME. Registered Mar. 22, 1927. THE ODELL COMPANY, INC., Newark, N. J., a corporation of New Jersey. Renewed Mar. 22, 1947. Class 6.

225,655. **FOUR SEASONS.** TWINE, ROPE, AND BRAIDED CORD. Registered Mar. 22, 1927. A. W. ARCHER CO., INC., New York, N. Y., a corporation of New York. Renewed Mar. 22, 1947. Class 7.

225,670. **PEANUT-MAID.** ROASTED AND SALTED PEANUTS. Registered Mar. 22, 1927. PEANUT SPECIALTY CO., Chicago, Ill., a corporation of Illinois. Renewed Mar. 22, 1947. Class 46.

225,694. **"20TH CENTURY" ETC.** ICE SKATES. Registered Mar. 22, 1927. DAVEGA, INC. Renewed Mar. 22, 1947, to Davega Stores Corporation, New York, N. Y., a corporation of New York. Class 22.

226,621. **CREAM OF WHEAT.** WHEAT BREAKFAST FOOD. Registered Apr. 12, 1927. CREAM OF WHEAT COMPANY. Renewed Apr. 12, 1947, to The Cream of Wheat Corporation, Minneapolis, Minn., a corporation of Delaware. Class 46.

REISSUES

MAY 13, 1947

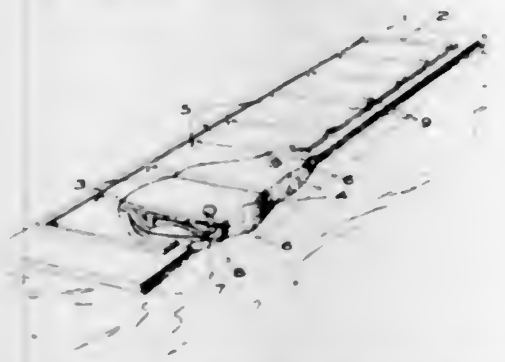
22,876

UTILIZATION OF CARGO SPACE IN SHIPS AND THE LIKE

Reid B. Gray, Dundalk, and Joseph C. De Weese, Essex, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Original No. 2,394,607, dated February 12, 1946, Serial No. 469,150, December 15, 1942. Application for reissue November 29, 1946, Serial No. 712,844

6 Claims. (Cl. 114—74)



6. In combination, a transportation device having a cargo carrying space, removable partitions dividing said space into a plurality of compartments, a flexible-walled, liquid impervious cell placed in each of said compartments, the walls of said compartments acting as retaining structure for said cells, securing means on said cells and compartment walls cooperating to support said cells from the walls of said compartments to prevent the collapse of said cells, the outer dimensions of said cell being substantially equal to the inner dimensions of said retaining structure whereby the fluid pressure load is borne by the compartment walls.

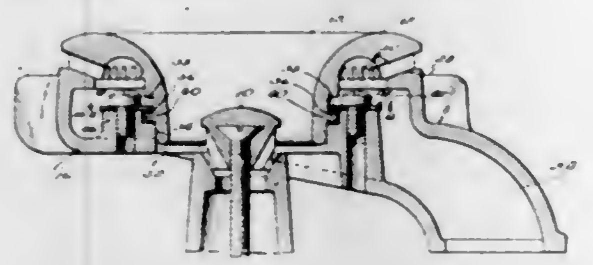
22,877

GAS BURNER

Philip S. Harper and George F. Turner, Chicago, Ill., assignors to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois

Original No. 2,386,113, dated October 2, 1945, Serial No. 379,618, February 19, 1941. Application for reissue March 21, 1946, Serial No. 655,936

24 Claims. (Cl. 158—116)



21. A detachable gas burner head having an annular generally vertical wall defining a central opening, structure extending generally outward from said wall, said wall and structure constituting part of a burner chamber wall, said head being made of material having a coefficient of expansion comparable to that of aluminum and said vertical wall having a continuous outwardly facing sealing surface, and a pair of opposed substantially horizontal burner head attaching members extending generally radially outward from said wall and located entirely above the seal defining portion of said wall.

22,878

WOOL TYPE FABRIC

William S. Nutter, Sanford, Maine, assignor to Goodall-Sanford, Inc., Sanford, Maine, a corporation of Maine

No Drawing. Original No. 2,416,116, dated February 18, 1947, Serial No. 620,401, October 4, 1945. Application for reissue March 15, 1947, Serial No. 735,017

1 Claim. (Cl. 139—426)

A novel fabric, to replace a standard wool fabric formed in the usual way with two-ply wool fiber warp and filling and having the same weight per square yard as said standard, consisting of yarns of wool fiber having at least twenty-five per cent less filling picks and at least twenty-five per cent less warp ends than in said standard, with the filling a single yarn having not more than seventy-five per cent of the twist of the yarn plies of the standard, with the warp a two-ply yarn the plies of which have a similar twist to, and half the size of, the single yarn, and in which the yarns are impregnated with a soft plastic in amount sufficient to equalize the weight of the fabric to that of the standard and acting to increase the tensile strength of the yarns above those of the standard, to smoothen the fibers and prevent felting and, by reason of the adhesive characteristic, to minimize fiber and yarn slippage.

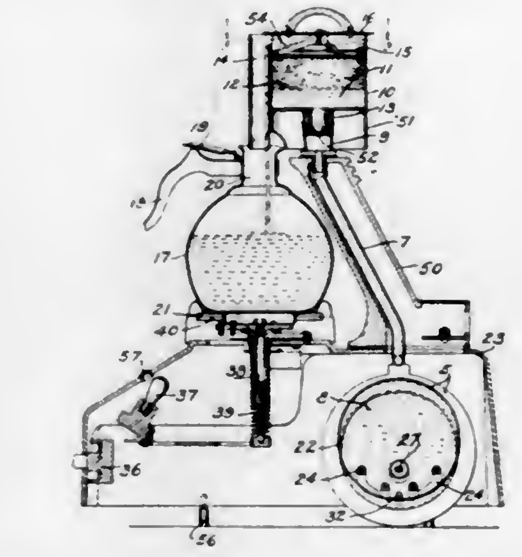
22,879

BEVERAGE PRODUCTION

Herbert W. Peters, Milwaukee, Wis., and Ambrose A. Peters, deceased, late of Milwaukee, Wis., by Herbert W. Peters, assignee

Original No. 2,346,389, dated April 11, 1944, Serial No. 425,662, January 5, 1942. Application for reissue February 12, 1945, Serial No. 577,399½

16 Claims. (Cl. 99—282)



1. In a beverage producer, a stationary water heater having an inclined hot liquid discharge pipe rising from its uppermost portion and pro-

vided with a tapered socket at its upper extremity, a container for beverage producing granular material having a tapered lower central plug adapted to fit said pipe socket and being provided with a vertical down spout communicating with the space above said material and disposed closely adjacent to the container wall, and a portable receptacle for finished beverage formed symmetrical with respect to a central vertical axis and being disposable in vertical alinement with said spout and within the space produced by the inclination of said pipe.

PLANT PATENTS

GRANTED MAY 13, 1947

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

736
ROSE PLANT

Antonio Naungayan, Pleasanton, Calif., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application January 25, 1946, Serial No. 643,256
1 Claim. (Cl. 47—61)

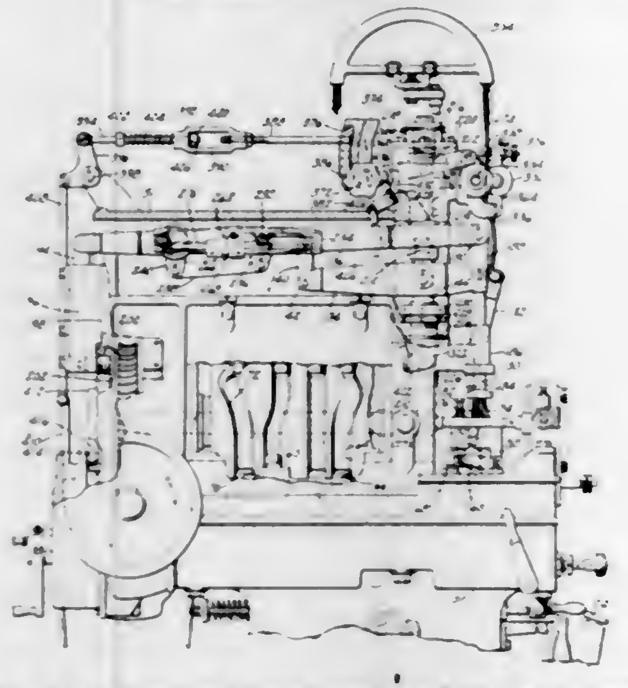
A new and distinct variety of rose plant characterized as to novelty by its climbing habit, and its habit of sending out short auxiliary flowering branches, substantially as shown and described.

PATENTS

GRANTED MAY 13, 1947

2,420,290
FASTENING INSERTING MACHINE

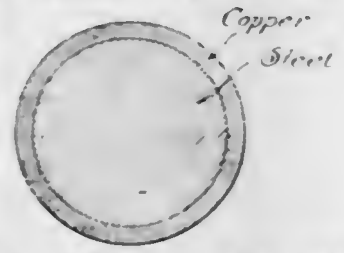
Augustus D. Willhauck, Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 7, 1943, Serial No. 493,742
17 Claims. (Cl. 1—30)



1. In a fastening inserting machine, a movable tool operative alternately as an awl and as a driver, means for operating the tool, means for shearing a strip of fastening material to form a fastening and for moving said fastening to a position to be operated upon, and mechanism movable in timed relation with said shearing means for causing the tool when operating as a driver to start at a constant predetermined position and for causing the tool when operating as an awl to start at a position different from said predetermined position.

2,420,291
ELECTRODEPOSITING COPPER UPON STEEL WIRE

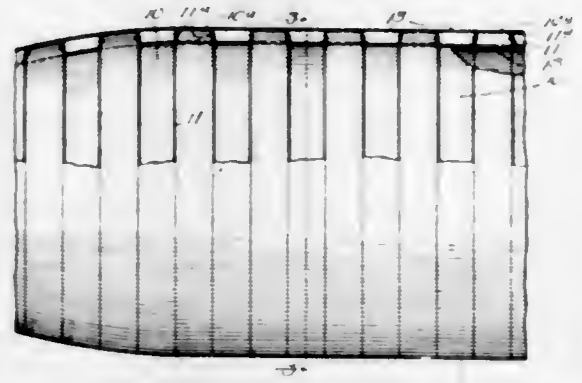
Orville E. Adler, Niles, Mich., assignor to National-Standard Company, a corporation of Michigan
Application July 22, 1940, Serial No. 346,867
6 Claims. (Cl. 204—34)



1. The method of forming a copper clad wire which comprises cleaning a ferrous wire in a hot clean bath of hydrochloric acid having a concentration not substantially less than 20% to produce a silvery white crystalline appearing surface, electro-depositing upon such surface from the cyanide bath a firmly adherent layer of copper, and electro-depositing upon the cyanide copper a firmly adherent layer of copper from an acid bath.

2,420,292
AIRPLANE BODY

John M. Baer and Arnold H. Heineman, Chicago, Ill., assignors to The Guardite Corporation, Chicago, Ill., a corporation of Illinois
Application October 23, 1942, Serial No. 463,032
2 Claims. (Cl. 244—119)



1. A sealed airplane fuselage comprising: a plurality of annular channel members, each of said members being constructed of a single piece of metal and comprising flanges and a connecting web, said members being secured together at their flanges in abutting relationship, alternate members having their flanges turned inwardly and the intermediate members having their flanges turned outwardly; and a separate cover plate secured to each of the members at the base of the flanges, said cover plates covering each of the openings between said flanges to form a smooth inner and a smooth outer wall whereby said fuselage is capable of withstanding large internal pressures.

2,420,293
MAGNESIUM BASE ALLOYS

Adolf Beck, Gustav Siebel, and Hugo Vosskühler, Bitterfeld, Germany; vested in the Attorney General of the United States
No Drawing. Application March 2, 1940, Serial No. 322,034. In Germany March 4, 1939
7 Claims. (Cl. 75—168)

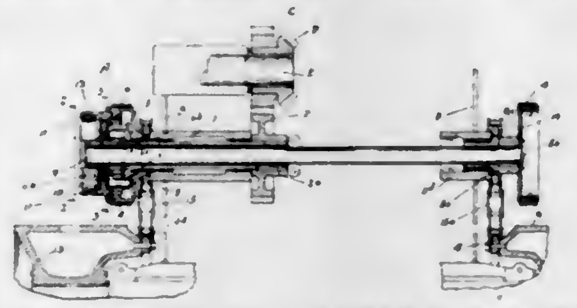
1. A magnesium base casting alloy containing between about 0.5 and about 1.5% of cerium and between about 4 and about 8% of zinc, said alloy being characterized by greater freedom from micro-shrinkage than a magnesium base alloy of the same composition but devoid of said amount of cerium.

2,420,294
DRIVE GEAR MECHANISM

Raymond A. Beckwith, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation
Application April 28, 1944, Serial No. 533,217
5 Claims. (Cl. 74—315)

1. In drive mechanism, in combination, a drive member, a driven shaft, first and second traction members, operating mechanism for said shaft comprising a differential shaft connected to and driven by the drive member, a planetary gear unit comprising an internal gear drivingly connected to one of said traction members, a sun gear connected to the driven shaft and planet gears, means connecting said driven shaft to the

other tractor member, and a friction unit including normally engaged but relatively movable



parts one of which is connected to the said internal gear and the other of which is connected to said driven shaft.

2,420,295
4,4'-DICHLORODIPHENYL 1,1,1-TRICHLOROETHANE DISPERSED IN POLYVINYL ACETATE

Gordon F. Biehn, Hockessin, and James E. Kirby, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

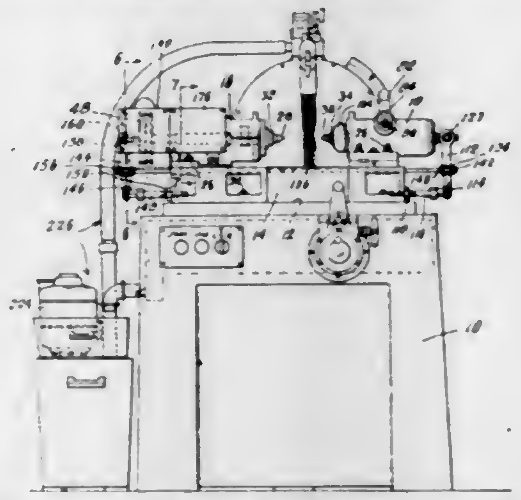
No Drawing. Application August 9, 1944, Serial No. 548,806
10 Claims. (Cl. 167—30)

1. A composition of matter comprising a toxicant containing 4,4'-dichlorodiphenyl-1,1,1-trichloroethane as an essential active ingredient dispersed in an aqueous solution of a water-soluble hydrolyzed polyvinyl acetate.

2,420,296
WORK CONTROL MECHANISM FOR MACHINE TOOLS

Benjamin S. T. Bishop, Shrewsbury, and Frank A. Bicknell, Worcester, Mass., assignors to Leland-Gifford Company, Worcester, Mass., a corporation of Massachusetts

Application June 8, 1944, Serial No. 539,356
2 Claims. (Cl. 51—95)

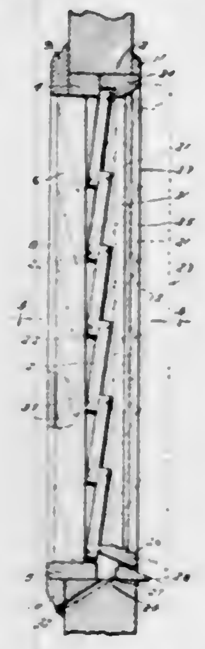


1. In a machine tool, a headstock spindle and a tailstock spindle, said spindles having centers between which the work is held, means mounting said spindles for movement in axial directions, means associated with the headstock spindle constraining it against axial movement, resilient means urging the tailstock spindle axially toward the headstock spindle, said resilient means including a pair of pivoted levers respectively at the outer end of the headstock spindle and at the outer end of the tailstock spindle, the headstock lever engaging the outer end of the headstock spindle and there being a spring intervening between the tailstock lever and the tailstock spindle, said levers having a connecting rod preventing relative spreading apart of the levers and permitting relative movement of said levers toward each other, and means on the connecting rod for adjusting its effective length between the levers.

2,420,297
VENTILATED CLOSURE

Lyle Bishop, Los Angeles, Calif.

Application December 28, 1943, Serial No. 515,947
3 Claims. (Cl. 20—53)



1. A closure for use in the opening formed by a doorway or the like comprising a rectangular frame structure adapted to fit in said opening and including side stiles, a plurality of glass slats of planar form, respectively, extending across said structure in upstanding position with lower edges overlapping the upper edges of subjacent slats, pivotal studs mounted on the ends of said slats at the lower corners thereof and journaled in said stiles in vertical alignment and whereby the slats are mounted to swing downwardly into open position, a slat-operating frame movable upwardly and downwardly of the frame structure to close and open the slats and having side members, respectively, studs mounted on the ends of the slats adjacent their upper edges and journaled in the side members of said operating frame in vertical alignment, the first and second mentioned studs being offset upon opposite sides of the median planes of the slats to overbalance said slats for downward swinging under the influence of gravity and the weight of said operating frame, said slat-operating frame embodying a bottom member abutting the lowermost slat above the pivotal studs thereof when said slats are closed to form together with said bottom slat a seal at the bottom of said opening and tending to maintain said bottom slat closed.

2,420,298
METHOD OF CENTRIFUGAL CASTING

Durward E. Breakefield, Watertown Arsenal, and James L. Martin, Newton, Mass.

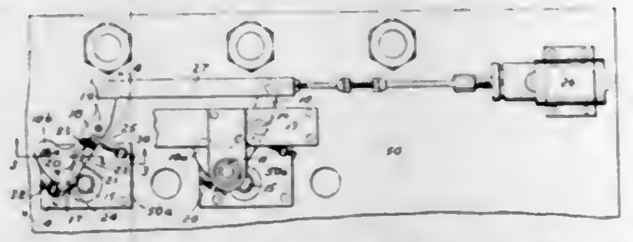
No Drawing. Application December 1, 1942, Serial No. 467,536
2 Claims. (Cl. 22—200.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of centrifugally casting ferrous articles having a radial thickness at least equal to the internal diameter of the casting which comprises introducing molten metal at a substantially constant temperature at a rate of 5 to 15 pounds per second into a mold rotating at a speed of 900 to 1500 R. P. M. and whose chill ratio is 2.5/1 to 6/1, the pouring rate varying directly with the chill ratio.

2,420,299
TRANSFER MECHANISM

Alvin A. Campbell, Hackettstown, N. J.

Original application July 7, 1941, Serial No. 401,335. Divided and this application January 27, 1945, Serial No. 574,944
4 Claims. (Cl. 214—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



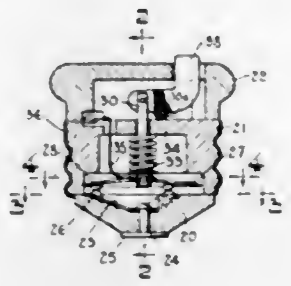
1. In a machine for loading pellets of explosive material into shells at a loading station, a pellet feeding mechanism comprising a lower feed tube for delivering pellets to the shells, an upper pellet feeding tube offset from and spaced above the lower tube, a platform below and axially aligned with the upper tube for temporarily supporting the pellets as they come from the upper tube, and stopping short of a vertical projection of the lower tube, an arm oscillatable horizontally close below the upper feed tube and over said platform from an initial position in alignment with the upper tube to a delivery position in alignment with the lower tube, a portion of said arm provided with an arcuate recess concentric with the upper tube at said position for engagement with the pellet while on said platform, a gripping finger pivoted intermediately of its length on that side of said arm which is in the direction of the movement of the arm from initial position towards said delivery position and having a recess therein adjacent its outer end opposite and complementary to the recess in said arm, said outer end exposed beyond the path of said movement of the arm, the space between said recesses being such as to allow a pellet to pass from said upper tube through said recesses to reach said platform at open position of the finger when the arm is in initial position, spring means urging the recessed end of the gripping finger toward said arm, a member fixed adjacent the upper tube in the path of said exposed end of said finger arranged to engage the gripping finger when the arm is in initial position to stop the gripping portion of the finger on approach of the arm to said initial position and hold the gripping portion away from the arm to permit the passage of pellets through said recesses and to grip a received pellet on departure from initial position, and a member fixed adjacent the lower tube in the path of said arm and the inner end of said finger to engage the latter on approach of the arm to said delivery position to release the pellet over the lower tube under oscillation of said arm.

2,420,300
ELECTRIC OVERLOAD PROTECTIVE DEVICE

John B. Cataldo, Summit, N. J., and William E. Stilwell, Jr., Cincinnati, Ohio, assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application December 5, 1942, Serial No. 467,956
6 Claims. (Cl. 200—113)

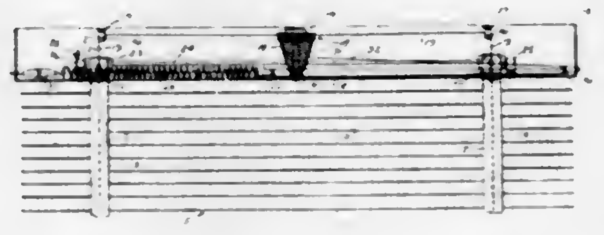
1. An electric circuit breaker comprising a housing, a thermostatic metal structure secured within said housing, snap disc spring means possessing two positions of stability movably positioned within said housing and disposed in operative relationship to said thermostatic metal structure, resilient means for urging said snap spring into electricity conductive contact with said thermostatic metal structure when said spring means is in one of its positions of stability, means for connecting said snap spring and said thermostatic metal structure in series in an electric circuit, said thermostatic structure having a portion displaceable under increase in temperature and arranged to exert pressure against said snap disc spring means, whereby under the heating effect of predetermined values of electric current said thermostatic structure causes said snap spring means to be thrown out of engagement with said structure to its second position of stability to break said series circuit, said housing being provided with inwardly extending abutment means positioned proximate the rim of said snap disc spring means when said snap disc spring means is in its said second position of stability, and means accessible externally of said housing for moving said snap disc spring means to abut said abutment means to thereby invert said snap disc spring means to its said initial position.



2,420,301
VENETIAN BLIND

Rudolph Cusumano, Los Angeles, Calif.

Application November 20, 1944, Serial No. 564,231
4 Claims. (Cl. 160—34)

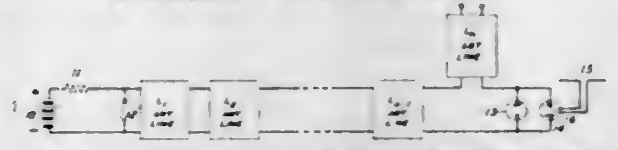


1. In a Venetian blind including a plurality of slats; ladder tapes upon which said slats are supported and a bottom rail; the combination of a casing; a shaft journaled in said casing, spaced cylindrical members fixed on said shaft to support said tapes; a cone-shaped member rotatably mounted in said casing and having a cylindrical groove and a continuous spiral groove; flexible means connected with said rail to opposite sides of said cylindrical groove; a spring fastened at one end to said casing; and a cable connected to and tensioned by said spring, said cable connected to and operable in the spiral groove of said member to regulate the tension of said spring in accordance with the weight of the blind and means to oscillate said shaft to cause the cylindrical members thereon to vary the angle of said slats.

2,420,302

IMPULSE GENERATOR

Sidney Darlington, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 19, 1943, Serial No. 499,193
6 Claims. (Cl. 178—44)

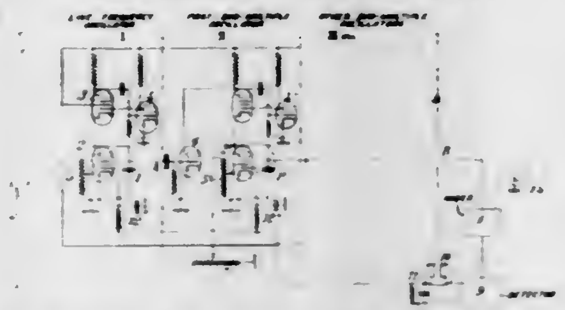


3. In an impulse generating system for impulses of substantially rectangular wave form and preassigned duration comprising a pulse shaping network capable of storing energy in the form of an electric charge, a load device and means for discharging energy stored in said network through said load device, means for multiplying the voltage of the generated impulse comprising a plurality of wave transmission networks interposed in tandem between said discharging means and said shaping network, said wave transmission networks having characteristic impedances the values of which increase progressively from one to the next in the direction from said discharging means, the impedances and the delay characteristics of the transmission networks being proportioned with respect to the impedance of the load device and preassigned impulse duration to substantially suppress transients following the discharge of said shaping network.

2,420,303

STABLE FREQUENCY CONVERSION SYSTEM

Henri de France, Lyon, Rhone, France; vested in the Attorney General of the United States
Continuation of application Serial No. 440,860, April 28, 1942. This application November 6, 1942, Serial No. 464,750. In France March 12, 1941
12 Claims. (Cl. 250—27)



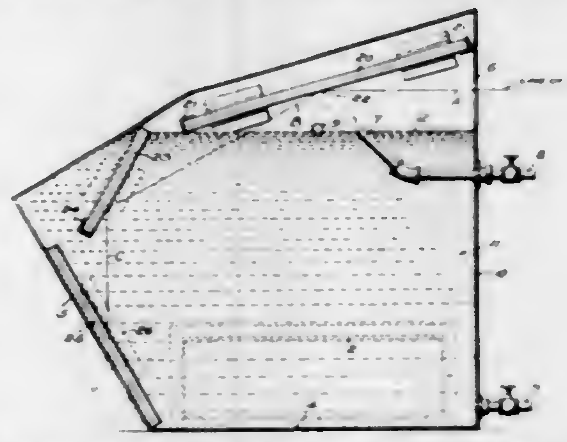
1. A system for generating oscillations, especially intended for television, which comprises, in combination, at least two oscillator devices, each oscillator device including a potentiometer determining the frequency of the oscillations produced by such device, coupling means interconnecting said oscillator devices so that the frequency of one depends upon the frequency of the other, and a common potentiometer for applying a potential simultaneously to the potentiometers of the oscillator devices to simultaneously regulate the frequencies of said oscillator devices, and thereby positively maintain the desired ratio of said frequencies.

2,420,304

SPENT BULLET TRAP

Donald T. Diem, Saginaw, Mich.
Application May 5, 1944, Serial No. 534,362
5 Claims. (Cl. 273—102.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

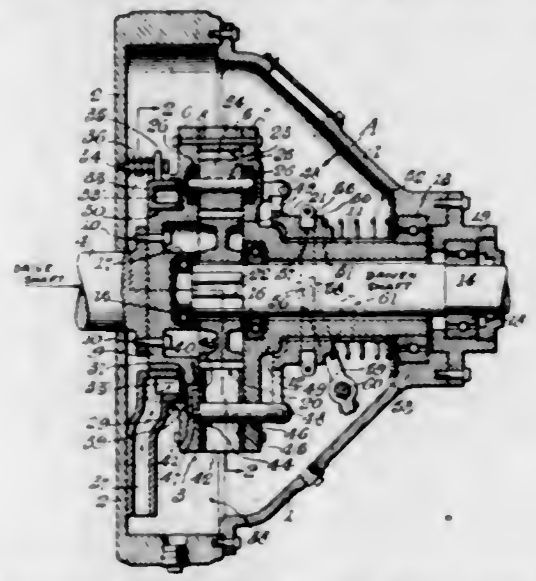
1. In a trap for salvaging spent bullets, the combination of a tank, an inlet pipe for conducting water under pressure into the tank, the said tank having an outlet hole to establish a water level line high up in the tank with a clear tank space above the water line, the front wall of the said tank having an opening into the said top clear space and opening therefrom to the atmosphere, an armor plate in the said clear tank space inclined at a small angle to the said water line and presenting a central impact area in the line of fire of bullets entering the tank through the said front opening, the said inlet pipe having a pipe nipple within the tank directed towards the said armor plate, and at an angle to the line of fire of the bullets, to spray the water against its said impact area, a second armor plate in the tank below the said water line and inclined toward the first said plate to intersect the path of bullets deflected from the first said plate and to deflect the bullets therefrom in a downward direction, a third armor plate in the tank below the water line and inclined to the said downward bullet direction to deflect the bullets therefrom towards the floor of the tank, a drain outlet near the tank bottom, and a door providing access into the tank for removing the bullets deposited on the said tank floor.



2,420.305

HYDRAULIC TRANSMISSION AND CLUTCH

Arthur L. Donahew, United States Army, and William H. De La Vergne, Washington, D. C.
Application September 21, 1943, Serial No. 503,310
4 Claims. (Cl. 192—61)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

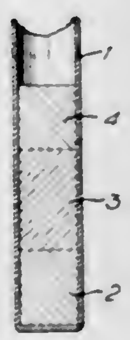


1. A hydraulic transmission and clutch comprising a casing adapted to contain a fluid, a driving member and a driven member in axial alinement mounted on said casing, a gear housing fixedly mounted on said driving member and having intake ports and outlet passages formed therein, said intake ports adapted to admit fluid from the casing into said housing, by-passes formed in said housing and communicating with said outlet passages, an epicyclic gear pump rotatably connecting said housing to said driven member, said pump comprising a sun gear fixedly mounted on said driven member and planet gears rotatably mounted in spaced relation on said housing, said planet gears meshing with said sun gear and adapted to pump fluid under pressure from said housing through said outlet passages, a manually operated valve control means including a spring and having valves including plug ends connected thereto, said valves extending into said housing and intercepting said outlet passages for controlling the opening and closing thereof and said by-passes upon the actuation of said control means, said control means adapted to actuate said valves to a complete opening, closing or intermediate position for controlling the amount of pressure generated on the fluid, whereby the planet gears may rotate freely on said sun gear for permitting the driven member to be idle or to effect rotation of the sun gear for driving the driven member at a speed in accordance with load conditions, said plug ends of said valves adapted to engage said by-passes upon the valves being actuated to a completely closed position and to be acted upon by the fluid pressure through said by-passes to actuate said valves against the action of said spring for releasing the fluid pressure upon the planet gears generating a pressure above a predetermined amount.

2,420,306

BLASTING CAP PRIMER COMPOSITION

William F. Filbert, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 10, 1942, Serial No. 426,319
6 Claims. (Cl. 52—4)



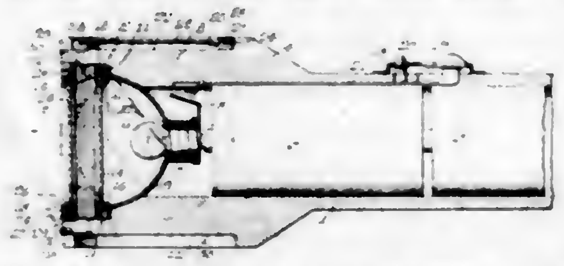
1. A blasting cap containing a base charge of pentaerythritol tetranitrate, a primer charge comprising N-methyl gluconamide pentanitrate, and an ignition composition comprising diazodinitrophenol grained with N-methyl gluconamide pentanitrate.

2,420,307

PORTABLE LAMP

Frank H. Fristoe, United States Army
Application February 8, 1944, Serial No. 521,525
6 Claims. (Cl. 177—329)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

6. A lamp structure adapted to transmit either white or different colored light comprising a casing having an opening therein, said casing being provided with a plurality of recesses in the surface thereof, means positioned in said casing for projecting normally white light through said opening and means associated with said casing and normally positioned in said recesses for transmitting different colored lights, said last named means being selectively and individually positioned in either one of said recesses or in said opening.



2,420,308

GEL-FORMING ALGIN COMPOSITION AND METHOD

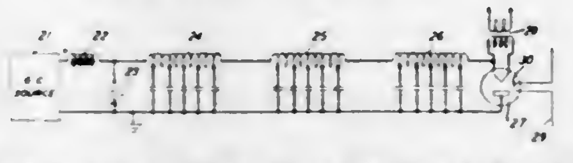
John I. Gates, Pasadena, Calif., assignor to Kelco Company, San Diego, Calif., a corporation of Delaware
No Drawing. Application July 27, 1942, Serial No. 452,561
30 Claims. (Cl. 252—316)

1. An algin composition adapted to form a gel when added to water, comprising finely ground calcium alginate, and a finely ground water soluble alginate sufficient to produce a gel of desired strength.

2,420,309

IMPULSE GENERATOR

William M. Goodall, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 10, 1944, Serial No. 517,681
6 Claims. (Cl. 178—44)



3. A generator of impulses having substantially rectangular wave form comprising a plurality of wave transmission lines of different charactistic impedances and of equal electrical lengths connected in sequence to form a composite line in which the impedances of the successive portions increase progressively from one end to the other, a load device having unidirectional conductivity connected to the high impedance end of the composite line, a source of direct current included in a circuit bridged across said composite line, said load device being poled to oppose the voltage of said source, and circuit closing means connected to the low impedance end of said composite line for periodically discharging said line through the load device in its conductive direction.

2,420,310

CASING OR PACKAGING PERISHABLE FOOD PRODUCTS

Leo A. Goodman, Brooklyn, N. Y., assignor of one-half to Marcleph & Co. Inc., Brooklyn, N. Y.; a corporation of New York
No Drawing. Application April 9, 1941, Serial No. 387,713
3 Claims. (Cl. 99—171)

1. A method of packaging a food product, which comprises forming a tubular casing of stabilized rubber hydrochloride, heating the casing at a temperature of about 50° to 70° C. for several seconds, stretching the casing circumferentially while so heated to an extent of not more than about 150% of its original size, cooling the casing to set it in stretched condition enclosing the food

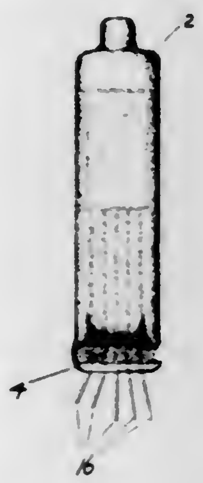
within the casing, and then heating the set-stretched casing and its content at a temperature not less than that at which the casing material was originally stretched and not more than about 100° C. to contract the casing tightly against its content.

2,420,311

CONDUCTIVE SHIELD FOR EXTERNAL PRESS TYPE ELECTRON DISCHARGE TUBES

Niles P. Gowell, Watertown, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application February 10, 1945, Serial No. 577,169
6 Claims. (Cl. 250—27.5)



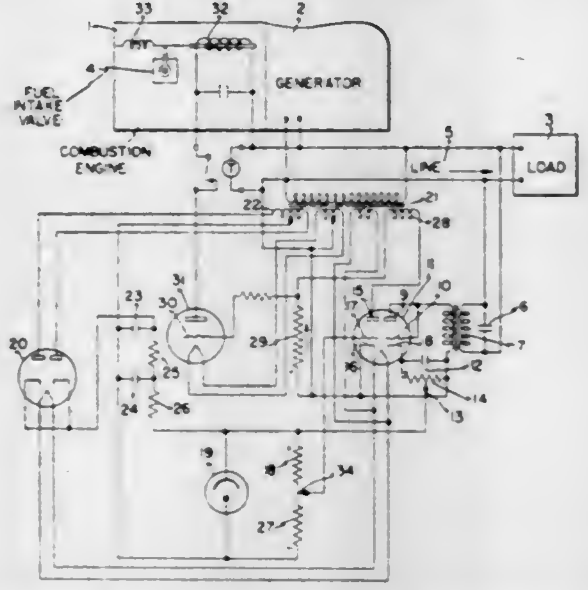
1. An electron discharge tube comprising a bulb and an exterior flat press, and an electrically conductive shield applied to the exterior lateral surface of said flat press.

2,420,312

FREQUENCY REGULATOR

William C. Grabau, Brighton, Mass., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass., a corporation of Delaware

Application February 16, 1945, Serial No. 578,181
6 Claims. (Cl. 290—40)



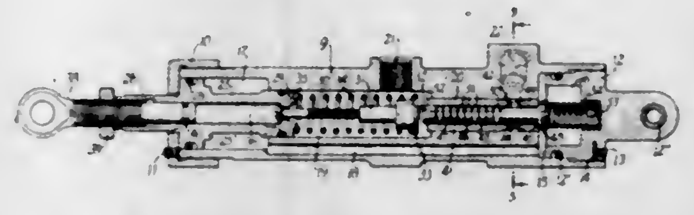
5. Means for regulating the frequency in an electric power system having a prime mover and an electric generator comprising a current transformer connected in the output of the electric generator, a frequency resonant circuit operatively connected across said current transformer, a voltage regulator circuit operatively controlled by the output voltage of said resonant circuit and electromechanical means operatively connected to said voltage regulator circuit for controlling the speed of the prime mover whereby the frequency of the generator is maintained at the desired value.

2,420,313

FLUID PRESSURE CONTROL VALVE

Robert L. Hall, Huntington, N. Y., assignor to Grumman Aircraft Engineering Corporation, Bethpage, N. Y., a corporation of New York

Application August 18, 1944, Serial No. 550,116
7 Claims. (Cl. 303—54)



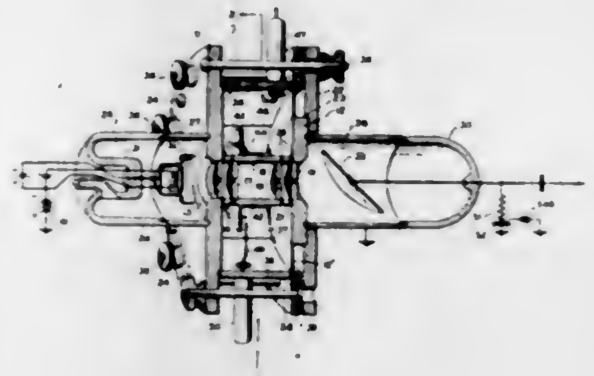
1. A pressure fluid valve assembly including a pressure fluid inlet, a pressure fluid outlet, a balanced control valve interposed between said inlet and said outlet, a piston chamber having an operator actuated piston, resilient means interposed between said balanced valve and said piston to transmit pressure from the operator to said valve to adjustably open the latter, and additional means for conveying fluid pressure at said outlet to said piston to resist the movement of said piston to open said valve whereby the variation of the pressure at said outlet will be indicated by the sense of "feel" of the operator.

2,420,314

HIGH-FREQUENCY RESONATOR-TUBE

William W. Hansen, Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc., a corporation of New York

Application April 26, 1943, Serial No. 484,648
30 Claims. (Cl. 250—27.5)



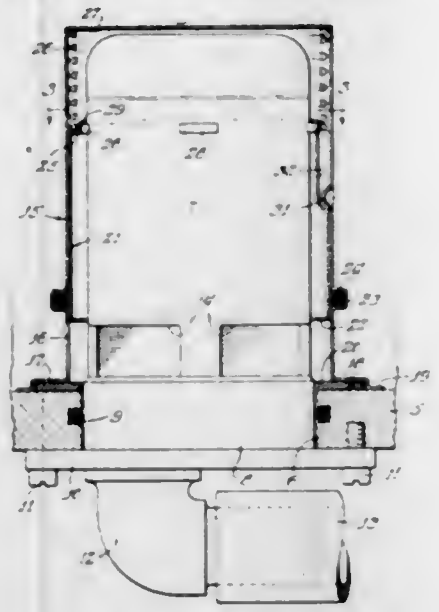
28. Electron discharge apparatus, comprising means defining an enclosing vessel, means at one end of said vessel for producing an electron beam, a target electrode at the other end of said vessel, a pair of electrodes between said beam-producing means and said target electrode defining a gap to be traversed by said beam, a second pair of electrodes between said beam-producing means and said target electrode defining a second gap to be traversed by said beam, and a cavity resonator outside of said vessel including means electrically connecting one of said first pair of electrodes and one of said second pair of electrodes and further including conductive means electrically connecting the other electrodes of said pairs.

2,420,315

BOOSTER PUMP SHUT-OFF CASING FOR PUMP REMOVAL

Ray G. Holt, Euclid, and John Martin, South Euclid, Ohio, assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application May 11, 1944, Serial No. 535,106
8 Claims. (Cl. 222—385)



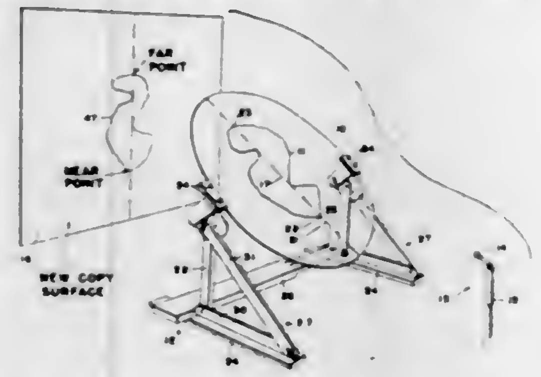
1. A structure of the kind described comprising a liquid reservoir having an access opening therein; a pump unit removably mounted in said access opening and being adapted for rotative movement therein; a pump enclosing valve housing in said reservoir, said valve housing having a port for the transfer of liquid from said reservoir to said pump unit; a sleeve valve surrounding said pump unit and slidable in said housing to open and close said port; yieldable means urging said valve in a direction to close said port; a slotted flange on said valve; and projections on said pump unit normally engaged with said flange between the slots therein to maintain said valve in a position against the urge of the yieldable means thereby to open said port, the aforesaid rotative movement of said pump unit being effective to register said projections with the slotted portion of said flange for releasing the valve whereupon said yieldable means is rendered effective for moving the valve to close said port and permit ready removal of the pump unit through said access opening.

2,420,316

PERSPECTIVE PROJECTOR AND ENLARGER

Sheldon Hine, United States Navy

Application April 4, 1945, Serial No. 586,616
3 Claims. (Cl. 35—26)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



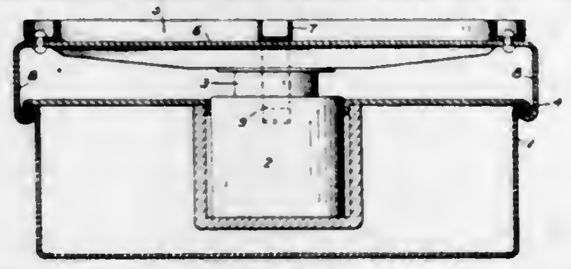
1. In an apparatus of the character described, a transparent member adapted to have a design traced thereon, means for adjustably mounting said transparent member for supporting it at a selected angle, means for indicating the selected angle at which said transparent member is mounted, said adjustable mounting means including means for moving said transparent member a measured distance normal to its plane, means for indicating the amount of movement in said normal direction, a light source, means for supporting said light source on one side of said transparent member and a shadow receiving surface supported on the opposite side of said transparent member.

2,420,317

ANTITANK MINE ACTUATOR

John M. King, Dover, N. J.

Application July 9, 1941, Serial No. 401,585
5 Claims. (Cl. 102—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



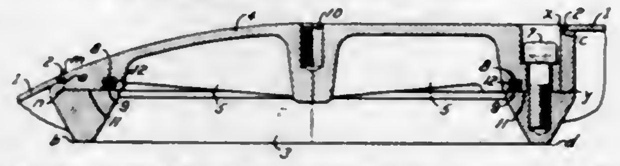
2. In combination with a mine body having an upwardly opening fuse well, and a fuse mounted in the fuse well and having a striker head projecting therefrom; a system of radially arranged bars, said system medially engaging said striker head, hangers depending from spaced portions of each of the bars on opposite sides of the striker head and having hook-shaped ends, and a flange formed on the mine body and engaging the said hook-shaped ends to form fulcrum points exceeding two in number for the bars whereby when any portion of a bar is moved toward the mine body, the bar will pivot on one of the fulcrum points to force the striker head toward the fuse.

2,420,318

HANDHOLE CLOSURE

Merrill G. Leonard, Sharon, Pa., and John A. Guidosh, Hubbard, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 19, 1944, Serial No. 550,250
3 Claims. (Cl. 220—24)

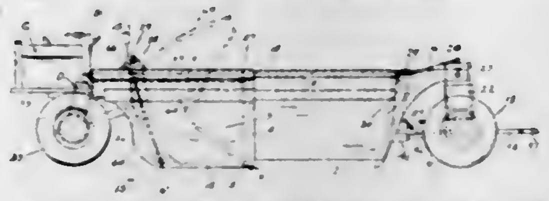


2. A closure for the generally circular handhole in the cylindrical side wall of a torpedo which handhole is at the top of the torpedo when the torpedo is in its normal operating position, in combination, an annular member in the torpedo and having an outer peripheral contour to fit against the inner surface of the side wall of the torpedo at the edge of the hole and being hermetically connected to the side wall, said annular member having an outwardly facing countersunk plane surface for receiving a handhole cover, a centrally hollowed out handhole cover having an inwardly facing plane surface at its periphery to fit said counter-sunk plane surface and an outer contour conforming to the outer contour of the side wall of the torpedo when the cover is in proper position, a plurality of radially disposed strengthening ribs on the inner hollowed out surface of the handhole cover, said handhole

cover having an annular groove in its plane surface thereof, an annular gasket rigidly mounted in said groove, an annular ridge on the said counter-sunk plane surface of the annular member disposed to be embedded in the gasket when the handhole cover is in place, and a pair of countersunk bolts disposed at the regions of the greatest thickness of the cover and annular member for rigidly connecting the handhole cover to the annular member.

2,420,319
DIRT SCRAPING AND HAULING VEHICLE

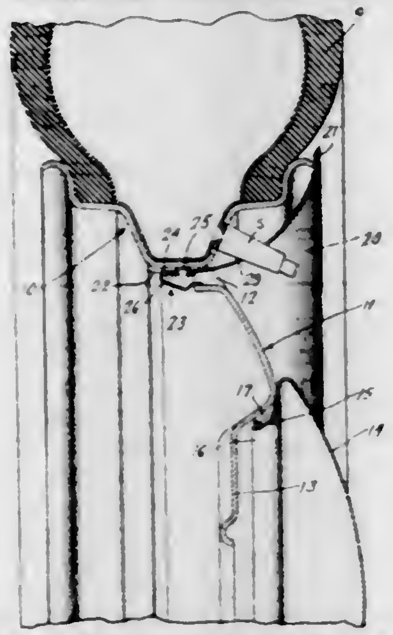
Erich H. Lichtenberg, Milwaukee, Wis., and Frank B. Robb, Chagrin Falls, Ohio, assignors to Koehring Company, Milwaukee, Wis., a corporation
Application May 15, 1942, Serial No. 443,144
9 Claims. (Cl. 37—126)



1. In a dirt hauling vehicle of the class described, in combination, a body comprising front and rear bodily movable sections, wheeled trucks supporting the body at its front and rear ends, and respectively connected with the front and rear body sections, a raising and lowering unit for the front of the vehicle intermediate same and the front truck, raising and lowering units intermediate the rear of the vehicle and the rear truck for raising the rear end of the vehicle, means for causing relative movement of the body sections to open the same, and cable means for causing bodily movement of the body sections to close the same together and connected with the front raising and lowering unit for effecting operation of the latter.

2,420,320
ORNAMENTAL TRIM RING FOR VEHICLE WHEELS

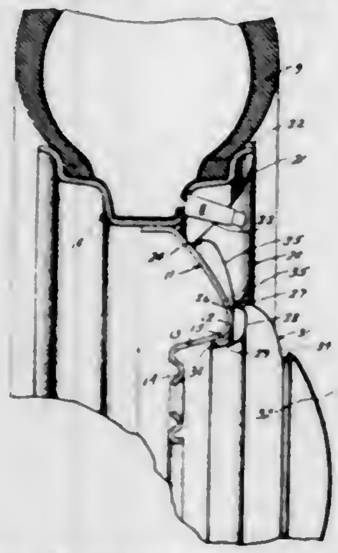
George Albert Lyon, Allenhurst, N. J.
Application April 10, 1944, Serial No. 530,356
3 Claims. (Cl. 301—37)



1. In a wheel structure including a wheel having multiflanged tire rim and body parts with spaced wheel openings therebetween, an annular wheel trim of curved cross-sectional contour such that the trim extends from the outer edge of the flanged rim radially inwardly to the wheel openings and covers the exposed surfaces of the rim flanges, said trim being made of plastic material which is self-sustaining as to shape and having an inner marginal portion thereof provided with resilient fingers formed to be resiliently pressed into said wheel openings to cooperate with the wheel parts in retaining the trim on the wheel, each of said fingers comprising a metal clip with one leg fastened to said inner margin of the trim and with another leg turned back over said first leg and free for resilient wedging engagement with one of the wheel parts, each free leg having a hump adjacent its extremity arranged to be cammed over and behind an edge of one of said wheel parts.

2,420,321
WHEEL TRIM

George Albert Lyon, Allenhurst, N. J.
Application May 12, 1945, Serial No. 593,476
3 Claims. (Cl. 301—37)



1. In a cover structure for a wheel including tire rim and body parts, the latter of which is provided with centrally arranged cover retaining means, a wheel cover comprising two concentric annular rings joined together, the radially inner of which being provided with a substantially flat yieldable diaphragm-like section and with an edge movable upon yielding of said section into retaining cooperation with the means on the body part, said inner ring also being provided with hub cap retaining means radially outwardly of said section.

2,420,322
PRESERVING PEELED WHITE POTATOES

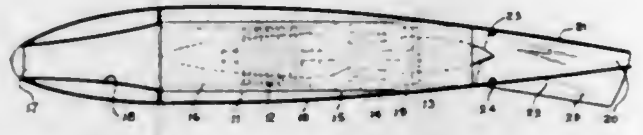
Ralph F. Matarazzo, Medford, Mass.
No Drawing. Application December 1, 1943, Serial No. 512,483
3 Claims. (Cl. 99—193)

1. The process of preserving peeled white potatoes and preventing discoloration thereof comprising coating the peeled potatoes throughout their exposed peeled portions with an aqueous cooled solution having SO_2 in concentration of about .5 to 6.0%, the temperature of the solution being maintained above freezing, enclosing the coated potatoes in a closed container, and maintaining the enclosed contents under refrigeration above freezing.

2,420,323
WING-MOUNTED JET-PROPULSION SYSTEM WITH CONTROLLABLE DISCHARGE OUTLET

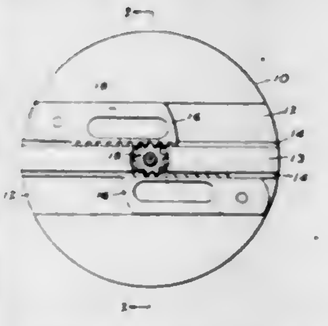
Charles A. Meyer, Drexel Hill, and Donald Bradbury, Prospect Park, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 21, 1943, Serial No. 495,550
1 Claim. (Cl. 244—52)

In an aircraft, a wing having spaced upper and lower surfaces, a jet propulsion motor mounted within said wing between said upper and lower surfaces, portions of said upper and lower wing surfaces at the trailing edge thereof being hinged with respect to the main body of the wing and constituting the upper and lower walls of a jet passage in the trailing edge of said wing rearwardly of said motor, and a pair of supplementing wall members carried by one of said hinged wing portions at opposite ends thereof and constituting side walls of said jet passage, said portions being movable with respect to their respective wing surfaces for effecting maneuvering of the aircraft in flight, and being movable with respect to each other for varying the size of said jet passage to vary the back pressure on the propulsion motor.



2,420,324
MECHANICAL TIME FUSE

Joseph E. Middlemiss, Philadelphia, Pa., assignor to United States of America, as represented by the Secretary of War
Application December 15, 1939, Serial No. 309,415
1 Claim. (Cl. 102—83)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

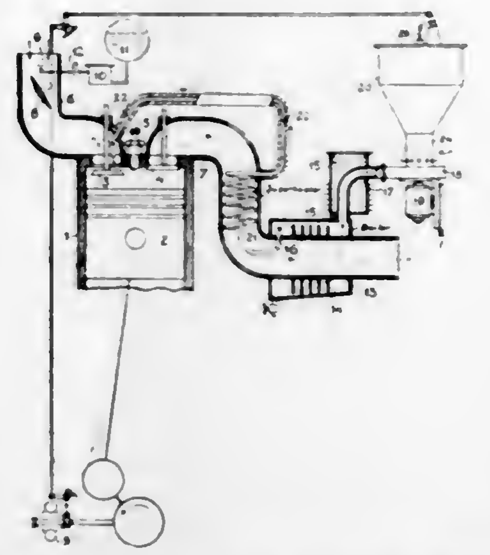


In a fuse in combination, a cylindrical supporting member formed with two parallel chordal grooves having rectangular side and bottom defining walls, said grooves being disposed one on either side of the axis of the member equi-distantly and being formed to provide guideways in the upper portions of their adjacent defining walls, a spindle mounted axially of the supporting member adapted to drive a clockwork train, a pinion secured to the spindle, a rack of generally rectangular cross-section having teeth adapted to engage the pinion in driving relation mounted in each of said grooves with its teeth disposed in the guideway thereof, said racks being slidable throughout the length of the grooves and provided at their outer end portions with depending weights engaging the grooves in guiding relation.

2,420,325
METHOD AND MEANS FOR OPERATING INTERNAL-COMBUSTION ENGINES

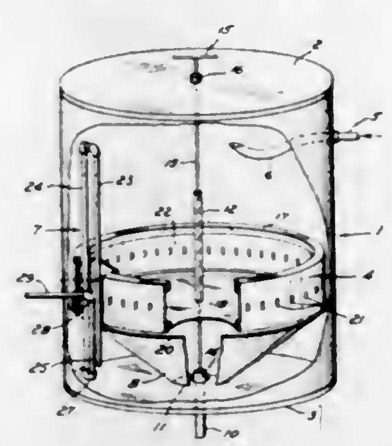
Frederick Nettel, Manhasset, N. Y.
Application October 7, 1942, Serial No. 461,206
15 Claims. (Cl. 123—3)

15. In a reciprocating internal combustion engine including a cylinder, means for fueling with solid hydrocarbons substantially completely vaporizable, and having melting points between ambient temperatures and +200 deg. C., including means for supplying fuel in solid state, means for supplying a stream of air, conduit means for said air, conduit means for said solid fuel joining into said first conduit means for the air, heating means for liquefying and evaporating the solid fuel interposed in said joint conduit means, heating means interposed in said joint conduit means between said first heating means and the engine cylinder for superheating the mixture of fuel vapors and air issuing from said first heating means, the engine cylinder having an inlet adapted to receive said mixture and additional air from the ambient atmosphere, means for admitting charges of said mixture of superheated fuel vapors and hot air from said joint conduit means and of said additional air to the engine cylinder, means for at least partly cooling said conduit means for the solid fuel in front of said first heating means, means for keeping said conduit means for the solid fuel at least partly in vibratory motion, and heat insulating means on said conduit means for the mixture of fuel vapors and air from the outlet of the said second heater to the engine intake valve.



2,420,326
SEWAGE DISPOSAL

James O'Donnell, Los Angeles, Calif.
Application March 20, 1942, Serial No. 435,582
11 Claims. (Cl. 210—6)



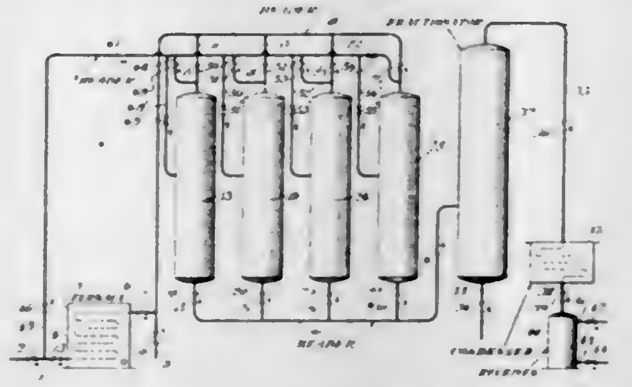
1. A sewage disposal apparatus comprising: a septic tank having an inlet and a siphonic outlet lower than said inlet, a vertically movable buoyant receptacle having an imperforate bottom and sides having perforations therein above the bottom for receiving the admitted sewage, a buoyant rim on said receptacle at the top thereof precalculated to keep said receptacle afloat notwithstanding the accumulated waste thereon and the force of the incoming sewage.

2,420,327
POLYMERIZATION OF HYDROCARBONS

William B. Shanley, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 26, 1942, Serial No. 436,310

6 Claims. (Cl. 260—683.15)



1. A process for producing polymers from a normally gaseous olefinic charging stock which comprises passing an olefinic gas stream through a bed of relatively active polymerizing catalyst, simultaneously passing a second stream of olefinic gas through a bed of less active polymerizing catalyst, heating a portion of said charging stock to a temperature suitable for effecting polymerization in the second-mentioned bed and supplying separate portions of the heated gas to said beds, and commingling an unheated portion of said charging stock with the heated gas being supplied the first-mentioned catalyst fed in sufficient amount to maintain in the more active catalyst bed an average polymerizing temperature substantially uniform with the average polymerizing temperature prevailing in the less active catalyst bed.

2,420,328
LUBRICANT FOR PROCESSING METALS

Joseph Harrel Shipp, Wilmington, Del., and Charles J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 26, 1945, Serial No. 596,078

20 Claims. (Cl. 252—49.5)

1. An aqueous emulsion of a distillation residue derived from a hydrogenated natural fatty oil by distilling off fractions up through octadecyl alcohol, in which the emulsifying agent is a surface-active water-soluble non-acidic salt of a long-chain alkyl acid-ester of phosphoric acid, the distillation residue being present in a concentration of from about 1% to about 70% and the emulsifying agent being present in a minor proportion sufficient to form a substantially stable emulsion.

2,420,329
LUBRICANT FOR PROCESSING METALS

Joseph Harrel Shipp, Wilmington, Del., and Osborne Coster Bacon and Charles J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 1, 1945, Serial No. 597,154

2 Claims. (Cl. 252—49.5)

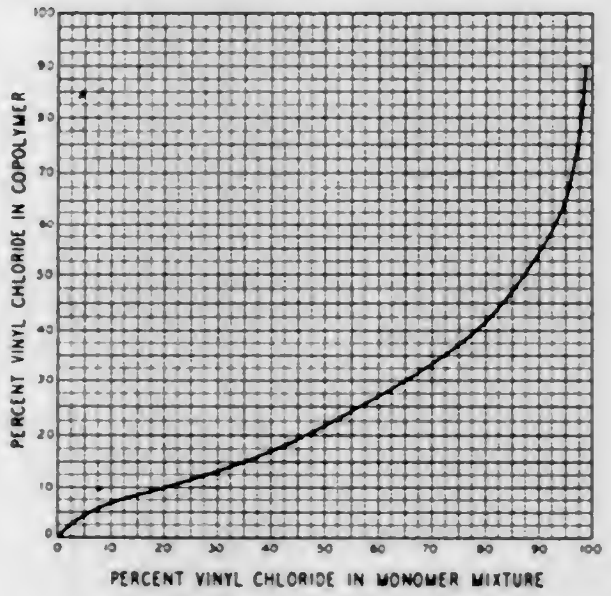
1. An aqueous emulsion of a distillation residue derived from a hydrogenated natural fatty oil by distilling off fractions up through octadecyl alcohol, in which the emulsifying agent is a surface-active water-soluble non-acidic salt of a long-chain alkyl acid-ester of phosphoric acid, the distillation residue being present in a concentration of from about 1% to about 70% and the emulsifying agent being present in a minor proportion sufficient to form a substantially stable emulsion, said emulsion having "Tetralin" incorporated therein in an amount sufficient to substantially inhibit foaming during use.

2,420,330
VINYL CHLORIDE COPOLYMER AND PROCESS FOR MAKING IT

Leland C. Shriver, South Charleston, and George H. Fremon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application May 26, 1943, Serial No. 488,508

19 Claims. (Cl. 260—84)



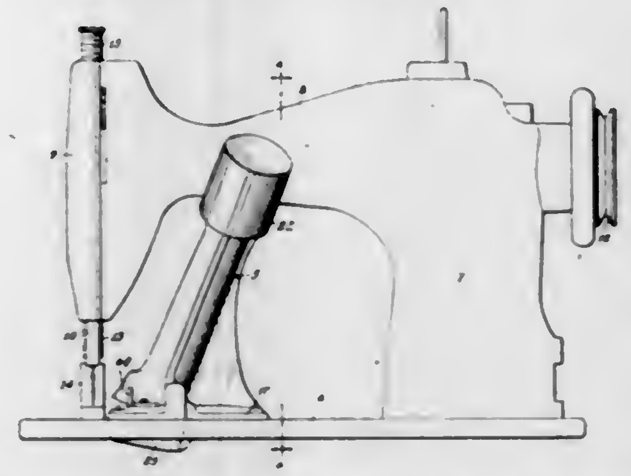
1. A completely acetone-soluble copolymer of vinyl chloride and acrylonitrile, 0.1 gram of which copolymer in 50 cc. of acetonyl acetone has a specific viscosity at 20° C. of between 0.1 and 0.6 and formed by the conjoint polymerization of vinyl chloride and acrylonitrile while maintaining the monomers within the range from 5.06 to 49.0 parts of monomeric vinyl chloride to one part of monomeric acrylonitrile by weight.

2,420,331
TRIMMING MECHANISM

Victor J. Sigoda, Great Neck, N. Y., assignor to Man-Sew Corp., New York, N. Y., a corporation of New York

Application April 2, 1942, Serial No. 437,339

30 Claims. (Cl. 164—17.5)



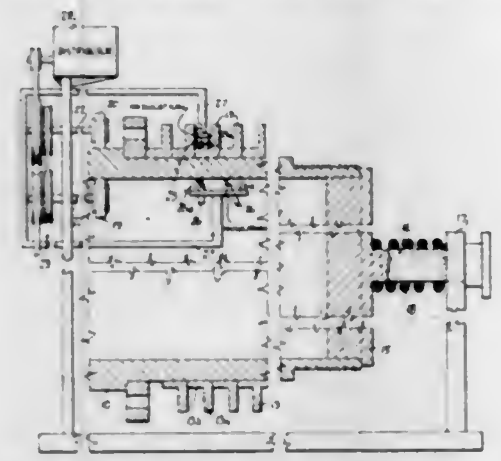
1. In mechanism for edge pinking fabrics, a ledger blade having divergent cutting edges, a cutting member, means for mounting said member for movement in an obliquely inclined path relative to the plane of the ledger blade, said member having at least two cutting edges disposed in angular relation to each other and to the path of movement of said member to respectively coact with complementary cutting edges of the ledger blade throughout the length of said edges in successive order in the continuous movement of said cutting member in one direction, to first shear cut the fabric inwardly from its edge along a diagonal line, and thereafter shear cut the fabric along a divergent diagonal line from the inner end of said first cut to the fabric edge to form a V-shaped pinking cut therein.

2,420,332
MEANS FOR CONSTRUCTING AIR-COOLED CYLINDERS

Alfred Vang, New York, N. Y.

Application December 11, 1943, Serial No. 513,885

4 Claims. (Cl. 219—4)



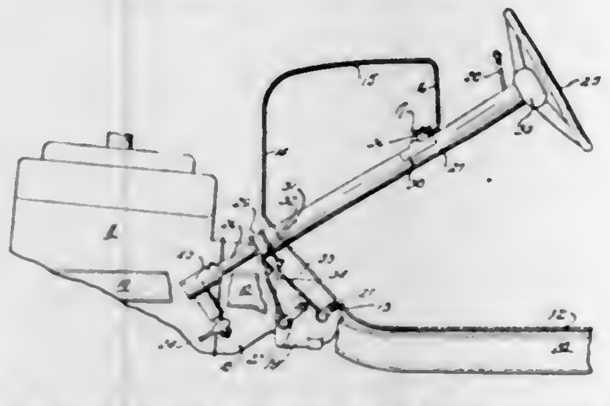
1. A device for welding fins from strip material of L cross section helically wound on a cylinder to the latter; said device comprising means for supporting and rotating the cylinder and substantially preventing longitudinal movement of the cylinder, and an electrode mounted to move substantially longitudinal of the cylinder and to engage against the sides of the fin and the base thereof, whereby on rotation of the cylinder and fin the electrode is longitudinally fed along the cylinder by the fin in a screw-like manner.

2,420,333
CONCENTRIC STEERING COLUMN GEARSHIFT SUPPORT CONSTRUCTION

John J. Wharam, Dearborn, and Milton Jovanovich, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application October 19, 1945, Serial No. 623,222

6 Claims. (Cl. 74—484)



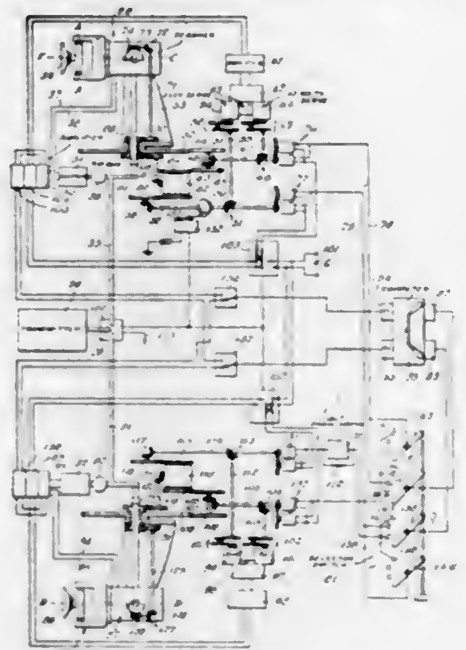
1. In a steering column gearshift control construction, comprising, a steering column rigidly secured at its lower end, a steering shaft rotatably supported within said column, an actuating tube arranged concentrically exteriorly of said column for longitudinal reciprocation and rotation, a fixed intermediate support for said column, a bushing interposed between said column and said tube adjacent the upper end thereof, a second bushing interposed between said column and said tube adjacent the lower end thereof, and a third bushing interposed between said column and said tube intermediate the ends of said tube.

2,420,334
AUTOMATIC TRACKING SYSTEM

Gifford E. White, Hempstead, and Richard C. Knowles, New York, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application January 25, 1943, Serial No. 473,560

21 Claims. (Cl. 250—1.54)



21. An automatic tracking system, comprising a pair of directional electromagnetic transducers positionable to move their respective directivity axes over separate predetermined portions of space, means for receiving energy radiated from an object, means responsive to the reception of said energy for causing one of said transducers to track said object, and means responsive to the position of said tracking transducer for positioning the other of said devices to begin tracking said object when it moves between said portions of space.

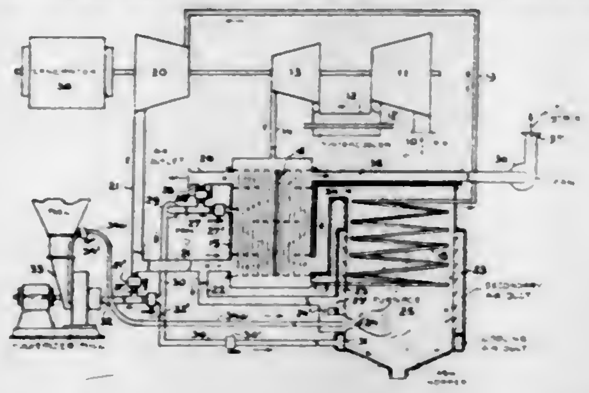
2,420,335
MULTIPLE TEMPERATURE AIR SUPPLY ARRANGEMENT FOR HOT AIR POWER PLANT FURNACES

Frederick Nettel, Manhasset, and Johann Kreitner, New York, N. Y.

Application September 6, 1944, Serial No. 553,132

1 Claim. (Cl. 60—59)

In an air expansion power system of the continuous combustion type including conduit means to take in a continuous stream of air from the atmosphere, means to compress it, means to expand it for developing power, conduit means including heat exchange surfaces connecting the outlet of said compressing means to the inlet of said expansion means, conduit means including heat exchange surfaces connecting the outlet of said expansion means to the atmosphere, said third conduit means being arranged in heat exchange relation to said second conduit means, a fuel burning furnace adapted for simultaneously using a plurality of combustion air streams of different temperatures, conduit means including heat exchange surface leading the combustion gases from said furnace to the atmosphere, said fourth conduit means being also arranged in heat exchange re-



lation to said second conduit means, means for branching part streams off said third conduit means in a plurality of points along its heat transfer path, and conduit means connecting said branch points to said furnace for simultaneously supplying a plurality of combustion air streams of different temperatures.

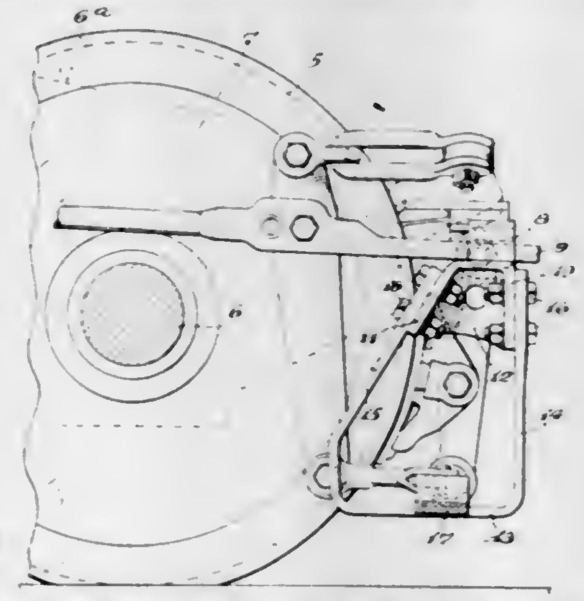
2,420,336
METHOD OF DESIGN FORMATION ON COLORED PAPER

Herman C. Orchard, St. Louis, Mo., assignor to Orchard Paper Company, a corporation of Missouri
No Drawing. Application April 28, 1945, Serial No. 590,976
3 Claims. (Cl. 8—7)

1. The method of imprinting designs on one face only of a sheet of colored cellulose-containing stock, consisting of permanently depositing on said face while the latter is dry, a thickened printing composition containing a chlorite-containing bleaching agent, in a predetermined pattern, and limiting the penetration of said composition to less than the full thickness of said sheet, and drying said sheet.

2,420,337
BRAKE BEAM SAFETY HANGER

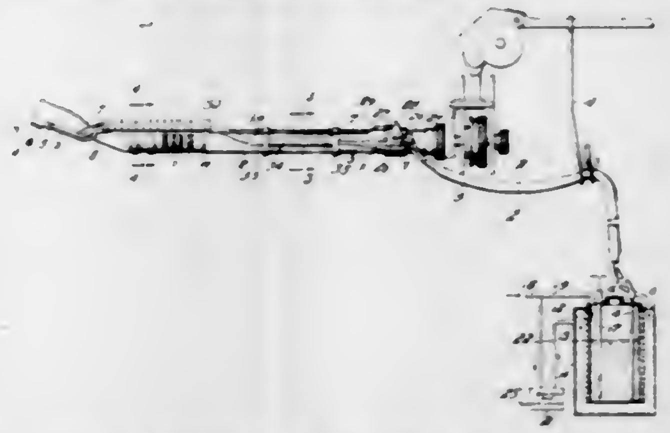
Claude L. Orr and Harry W. Stertzbach, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio
Application July 21, 1943, Serial No. 495,650
11 Claims. (Cl. 188—210)



1. In a railway car truck, a side frame provided with a bracket positioned at about the same height as one of the axles of the truck and having divergent depending legs, a substantially U-shaped safety hanger having upwardly extending arms overlapping and secured to the legs, and a brake beam extending through the hanger.

2,420,338
DENTAL APPARATUS

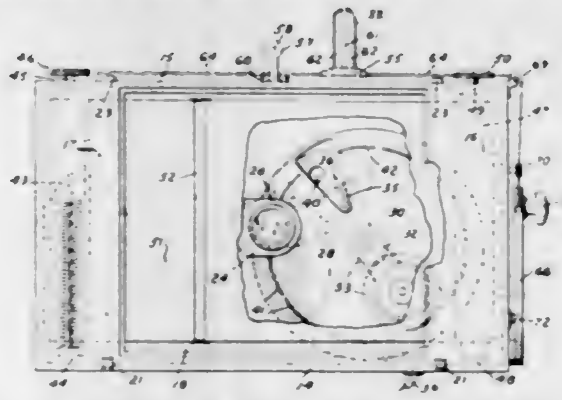
Richard W. Page, Chappaqua, N. Y.
Application November 20, 1943, Serial No. 511,073
4 Claims. (Cl. 32—28)



2. Dental apparatus comprising, in combination, a contra-angle attachment, air and water syringe nozzles mounted upon the head of said contra-angle attachment in position to direct air and water jets past a drill held thereon, a collar attached to said contra-angle attachment in position to slide over a hand piece when the attachment is placed thereon, air and water lines extending from said nozzles to said collar, so as to be positioned along the side of a hand piece when the attachment is placed thereon, the said lines comprising passages connecting the nozzles to lines running along the side of the hand piece, and a finger operated water valve control member mounted on the top and to one side of the shank of the contra-angle attachment for controlling flow through the water line.

2,420,339
COURSE-RECORDING CAMERA

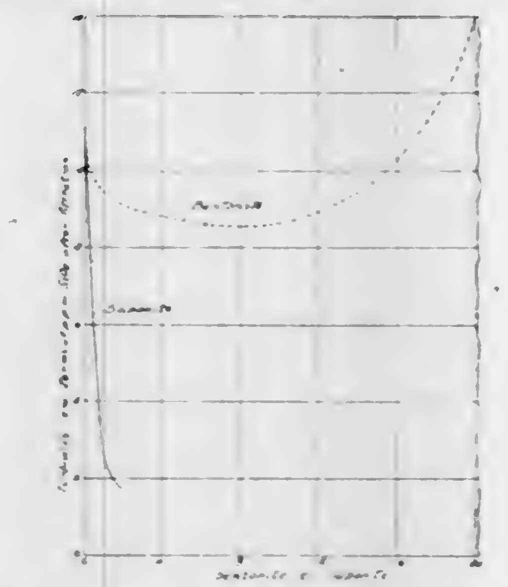
Jacob Rabinow, Washington, D. C., assignor to United States of America, as represented by the Secretary of War and his successors in office
Application August 22, 1944, Serial No. 550,654
7 Claims. (Cl. 95—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a camera of the character described, a lens, a shutter disc mounted on a plane transverse to the axis of the lens and revoluble on an axis eccentric to the lens and having a substantially continuous concentric slotted portion arranged within but transmitting only a small proportion of the light passing through the lens, said shutter having also an opening of a size to pass a predetermined full proportion of the light passing through the lens, means to operate the shutter at a predetermined speed and frequency, a stationary photosensitive image recording material at the focal plane, a focal plane shutter before the recording material movable horizontally and having a vertical slot therein, said shutter being spring biased to an initial position at one side of the camera and means to move the shutter and to synchronize its movement with the image of the object moving across the field of view.

2,420,340
CLARIFICATION OF AQUEOUS LIQUIDS

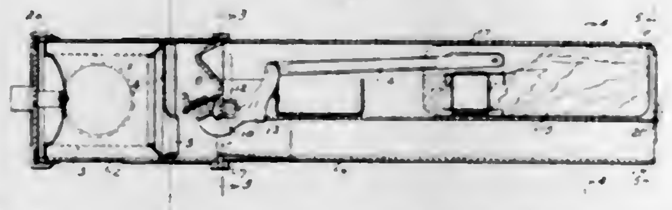
John W. Ryznar, La Grange, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
Application October 26, 1944, Serial No. 560,446
10 Claims. (Cl. 210—23)



1. In a process of clarifying aqueous liquids containing suspended solids, the step which comprises adding thereto a small amount of saponite effective to clarify said liquids.

2,420,341
AUTOMATIC SHUTOFF FUEL NOZZLE WITH FLOAT CONTROLLED VALVE

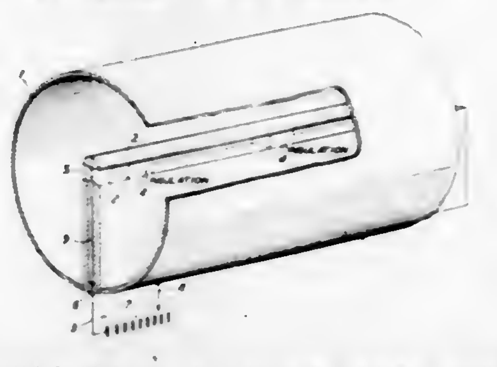
David Samiran, Osborn, and Rudolph Fink, Patterson Field, Ohio
Application March 23, 1943, Serial No. 480,162
12 Claims. (Cl. 226—127)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



6. In an automatic shut-off fuel dispensing nozzle, a valve for controlling flow through said nozzle, releasable spring-loaded means for moving said valve in the closing direction, normally vented suction responsive means for closing said valve, means for rendering said suction responsive means operative upon the level of fuel being dispensed reaching the outlet of the nozzle, and means responsive to dislodgment of said nozzle from the container being filled for actuating said releasable spring-loaded means to close said valve.

2,420,342
HIGH FREQUENCY CONTINUOUS AMPLIFIER

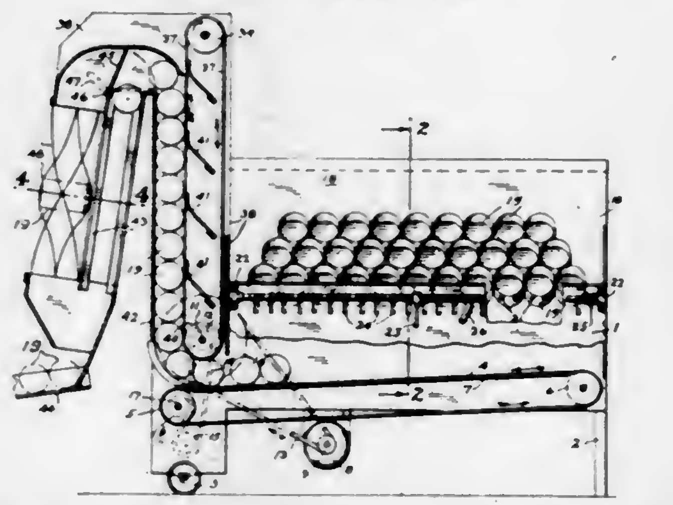
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 18, 1943, Serial No. 479,577
9 Claims. (Cl. 178—44)



3. In combination, a hollow wave guide extending between two remote points capable of supporting a high frequency field therein for the transmission of energy therethrough in either direction, an electron emitting cathode extending along the length of the guide for a substantial distance, means for projecting electrons from the cathode in a direction transverse to the length of the guide and along a substantial length of the guide through at least a portion of the high frequency electric field therein and such that the transit time of the electrons through the high frequency field substantially equals the period of any whole number of cycles plus ¼ cycle of the high frequency field.

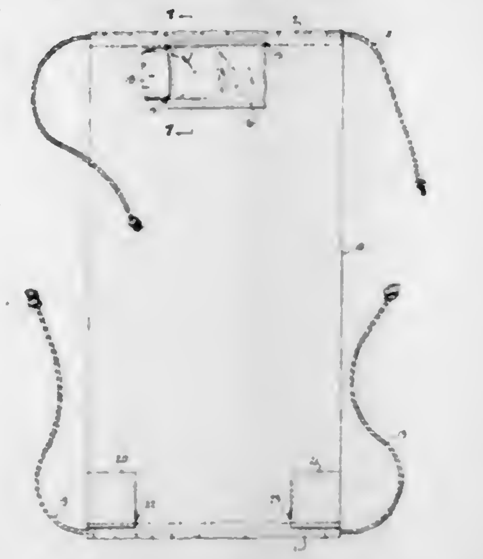
2,420,343
CAN UNLOADING APPARATUS

John Albertoli, San Francisco, Calif.
Application March 29, 1945, Serial No. 585,483
8 Claims. (Cl. 198—33)



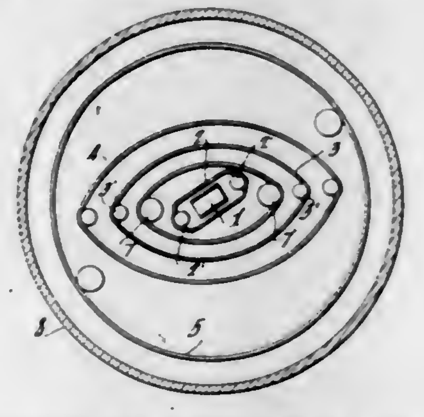
1. A can unloading apparatus comprising an elongated bin with side walls spaced to freely receive a stack of cans one can in depth, said bin being freely open on top and provided with a bottom plate slanting downwardly toward one end of the bin, an elevator arranged to receive the cans adjacent the lower end of the bin and elevate them to a point higher than the bin, and a chute extending downward from the top of the elevator into which the elevator discharges the cans, said chute formed with two downward extending passages for the gravity descent of the cans, one passage provided with guides to hold the descending cans in alignment, and the other passage provided with twisted guides to turn the descending cans end for end in going through, and means for switching the cans from the elevator to either of the two passages.

2,420,344
BEACH TOWEL AND GARMENT
Verna Cook Alexander, Spartanburg, S. C.
Application July 22, 1946, Serial No. 685,463
6 Claims. (Cl. 2—69)



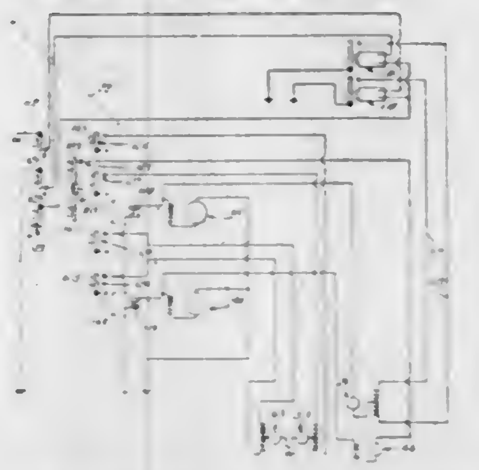
6. A beach towel comprising an elongated rectangular sheet of textile material having a hem at each end thereof and having a draw string slidably mounted in each hem, a bag having suitable closure means in one end thereof and having one of its side edges attached to the sheet at the hem line at one end of the sheet and being adapted to receive a pillow and the like, the other end of the sheet having a pocket at each corner thereof and stitched thereto, each pocket having an opening in one side thereof with closure means for closing the opening.

2,420,345
ELECTRON DISCHARGE DEVICE
Gerrit Hendrik Petrus Alma and Bernhardus Gerhardus Dammers, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 22, 1943, Serial No. 480,101
In the Netherlands December 30, 1940
3 Claims. (Cl. 250—27.5)



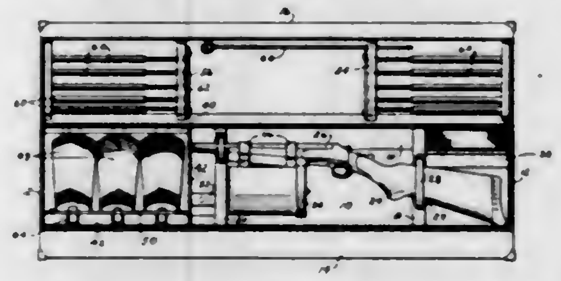
1. An electron discharge device having a cathode surrounded by a control grid having a pair of oppositely disposed side rods lying in a common plane, a screen grid and second control grid surrounding said cathode, each of said grids having oppositely disposed side rods, the side rods of said screen grid and second control grid lying in a common plane passing at an angle through the first plane, and an anode surrounding said cathode, screen grid and control grids, the electrons from said cathode being formed into oppositely directed beams, each beam passing close to one of the screen grid side rods, the side rods of said screen grid having a larger diameter than the other side rods, and a second screen grid positioned between the anode and second control grid, said screen grid side rods absorbing electrons returned by said second control grid during operation of said electron discharge device.

2,420,346
REMOTE SPEED CONTROL OF ELECTRIC MOTORS
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Original application February 15, 1943, Serial No. 476,020. Divided and this application March 24, 1943, Serial No. 480,306
4 Claims. (Cl. 171—312)



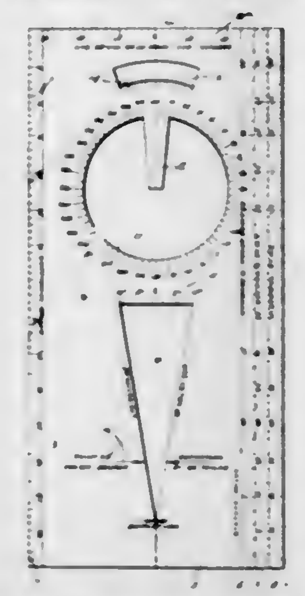
1. The combination of a self-propelled carriage having an electric motor carried thereby for propelling the same, a pilot motor located at a stationary control station, an adjustable centrifugal governor operated by and responsive to the speed of the pilot motor and having electric switch contacts adapted to be actuated by the governor and electrically connected in a circuit of the pilot motor and also electrically connected in a circuit of the motor on the carriage whereby the speed of both motors is maintained substantially constant when the load on the carriage motor is substantially constant, and manually operable means at the control station for adjusting the governor on the pilot motor whereby the speed at which each motor is maintained by the governor may be varied.

2,420,347
LINE THROWING GUN KIT
Joseph W. Baldwin, Worcester, Mass., assignor to Harrington & Richardson Arms Company, a corporation of Massachusetts
Application December 19, 1944, Serial No. 568,854
1 Claim. (Cl. 206—47)



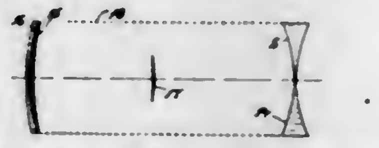
A line throwing gun kit comprising a box, a cross brace in the box adjacent an end thereof, a brace extending from the cross brace to the said end forming two compartments, a pair of spaced cross braces adjacent the other end of the box, and a rack extending from one of the last named braces to the said other end of the box, a gun secured to the first named cross brace by the gun stock and to one of said pair of spaced cross braces by the barrel the stock of the gun lying at least in part in one of the compartments, and a canister secured in depending relation to the gun barrel and lying between the cross braces to which the gun is secured.

2,420,348
NAVIGATION INSTRUMENT
Jewell Lane Boriff, New Braunfels, Tex.
Application March 27, 1944, Serial No. 528,277
2 Claims. (Cl. 33—104)



1. A navigation instrument of the character described comprising a stiff oblong sheet of material provided near one end with a fixed compass rose and formed with a relatively large opening of circular form concentric with the graduations of said compass rose, said sheet having an integral arm projecting inwardly from the inner edge of the compass rose and terminating at the center of said opening, said arm being parallel with the longitudinal axis of the sheet and having its longitudinal axis in radial alignment with the zero line of said compass rose.

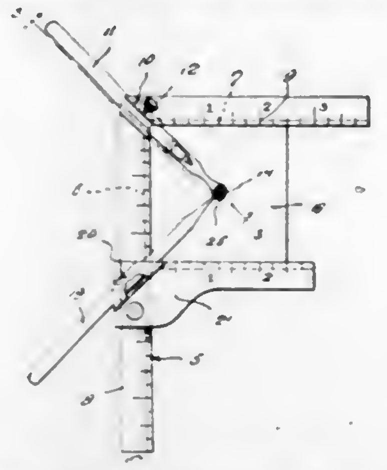
2,420,349
SCHMIDT'S OPTICAL SYSTEM COMPRISING A CORRECTION ELEMENT
Albert Bouwers, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 19, 1943, Serial No. 472,918
In the Netherlands October 14, 1940
7 Claims. (Cl. 88—57)



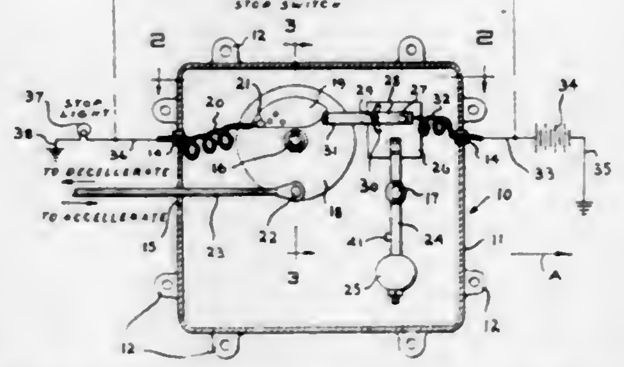
1. In combination with an optical system according to Schmidt, comprising a spherical mirror and a correction element therefor arranged substantially in the center of curvature of said mirror and consisting of two lenses having spherical surfaces and at most small powers, a table having a spherical surface concentric with the surface of the mirror arranged in the focus of said mirror.

2,420,350
CENTER FINDER AND PUNCH
Lloyd P. Brown, Los Angeles, Calif.
Application August 9, 1944, Serial No. 548,704
3 Claims. (Cl. 33—191)

2. A center finder comprising a frame including right angularly disposed portions adapted for receiving work at the inner angle thereof, and a pair of elongated members carried by the frame at right angles to each other, one of said members being positioned at an angle of 45° with respect to both of said right angularly disposed portions and each of said members having an end adapted to overlie each other to indicate the center of the work, and a punch swingably carried by one of the members intermediate its ends and adapted for movement into and out of position over the overlying ends of the members to mark said center.



2,420,351
VEHICLE DECELERATION SIGNAL
Norman L. Brown, Velasco, Tex.
Application October 6, 1945, Serial No. 620,691
2 Claims. (Cl. 177—311)

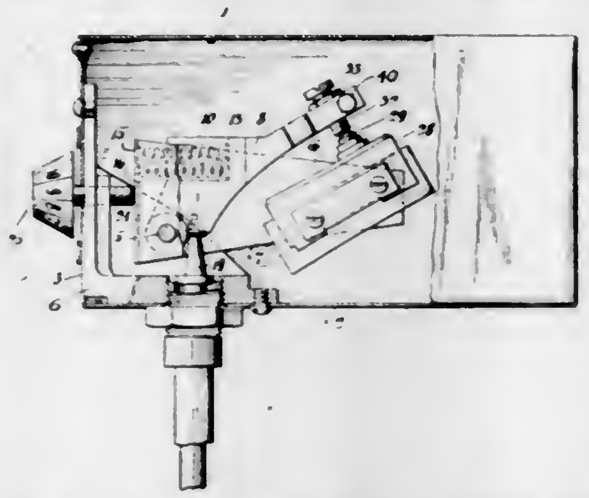


1. A warning signal adapted to indicate to the driver of a trailing vehicle the deceleration of a leading vehicle which includes a pair of normally spaced contacts, means operable in unison with the accelerator of the leading vehicle to increase the distance between the contacts as the speed of the said leading vehicle increases, pendulum means to decrease the distance between the contacts when the speed of the leading vehicle slackens, and a signal in circuit with the contacts to indicate to the driver of a trailing vehicle the fact of the deceleration of the leading vehicle.

2,420,352
TEMPERATURE CONTROLLING DEVICE
Herbert S. Burling, South Orange, N. J.
Application November 9, 1945, Serial No. 627,566
3 Claims. (Cl. 200—137)

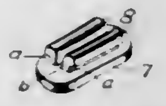
1. A mechanism for controlling temperatures in controlled temperature chambers comprising in combination a casing located externally of the chamber, a temperature actuated device mounted in said casing and extending into said chamber, an adjusting screw mounted on said casing, a switch lever and a switch-controlling lever pivotally mounted in said casing on a common pivot,

said switch-controlling lever being in engagement with said temperature actuated device, a spring mounted against said switch lever and said switch-controlling lever and tending to move said levers about their pivot in opposite directions to hold said switch lever against said adjusting screw and to hold said switch-controlling lever against said temperature operated device, said spring being inserted in a recess in said switch-controlling lever.



2,420,353
INSPECTION HOLE COVER FOR MOTOR VEHICLE BRAKE CASINGS

Allen Burrows, Providence, R. I.
Application February 15, 1944, Serial No. 522,454
1 Claim. (Cl. 220—24)

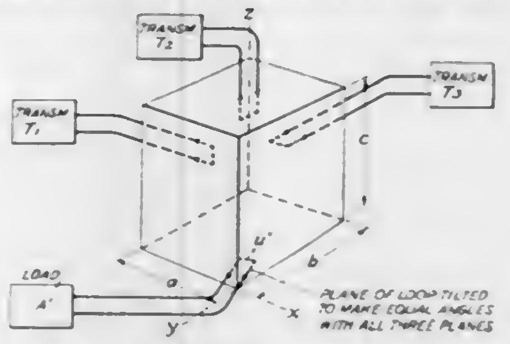


A plug for closing the inspection aperture of a motor vehicle brake casing, comprising a non-metallic resilient structure having a plate-like cover section of generally rectangular form with marginal portions adapted to overlie the margin of the casing defining said aperture, and a pair of elongated parallel lugs integral with said section and projecting from the back thereof at right angles to the cover section, each of said lugs being grooved throughout its length at its outer wall adjacent said plate section to define a laterally extending elongated marginal projection, said lugs being uniformly spaced throughout their entire length by a slot having parallel sides extending lengthwise between them, said slot being of such a width that the outer marginal portion of one parallel lug with its projection can be shifted within the area defined by the slot when the reduced portion of the lugs are angularly distorted transversely of said plate by pressure applied during insertion and removal from said opening.

2,420,354
COUPLING CIRCUIT

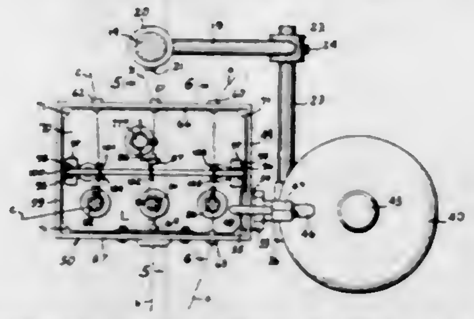
Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application January 10, 1941, Serial No. 373,955. Divided and this application May 24, 1943, Serial No. 488,195
5 Claims. (Cl. 178—44)

5. In combination, a plurality of sources of oscillations of different frequencies, a load, a cavity resonator interposed between said sources and said load, loops of wire within said resonator coupled to said sources and so arranged as to excite in said resonator different types of waves for the different frequencies of said source, and another loop of wire within said resonator coupled to said load and so arranged as to pick up energy from the different types of waves produced within said resonator by said loops or wire.


TRANSM
T₂
z
TRANSM
T₃
TRANSM
T₁
c
LOAD
A'
a
u'
b
y
x
PLANE OF LOOP TILTED TO MAKE EQUAL ANGLES WITH ALL THREE PLANES

2,420,355
MOISTENING APPARATUS FOR KNITTING YARNS

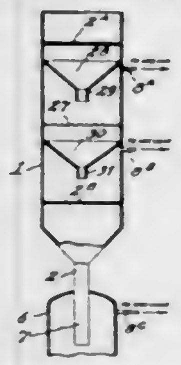
William Coleman, Johnson City, Tenn., assignor to Johnson City Mills, Johnson City, Tenn., a corporation of Tennessee
Application September 18, 1946, Serial No. 697,614
17 Claims. (Cl. 66—125)



1. Apparatus for applying a liquid to yarns in a knitting machine while the yarns are travelling from yarn packages to the yarn feed fingers of the knitting machine comprising a container into which a liquid is adapted to be placed, a plurality of guide eyelets in opposed side walls of the container, through which the yarns are led, a rod disposed longitudinally of the container and above the liquid level therein, a plurality of rings mounted on said rod and through which the yarns are adapted to pass, the lower portions of said rings being submerged in the liquid in the container, passage of the yarn through the rings serving to rotate the rings and to thus elevate liquid into contact with yarns as they pass through said rings.

2,420,356
DEGASIFICATION

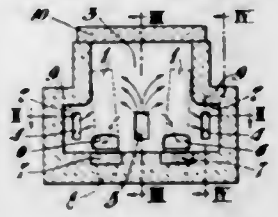
Russell Edward Compa, Bogota, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application August 29, 1942, Serial No. 456,719
3 Claims. (Cl. 183—2.5)



2. A device for deaerating dental creams which comprises a degasifying vessel, a plurality of substantially horizontally disposed foraminous members closely fitting within said vessel and separating the vessel into a plurality of superposed zones, said members having foramina of increasing size from the uppermost member to the lowermost member and each of said members being adapted to hold a quantity of a dental cream containing air bubbles upon its upper surface during operation, and means for establishing during operation successively lower pressures in said zones from the uppermost to the lowermost thereof.

2,420,357
APPARATUS FOR HEATING INGOTS

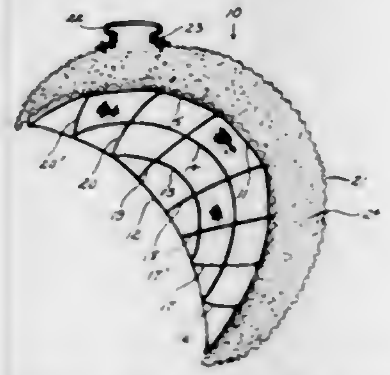
Fred A. Corbin, Gary, and Harry F. Netzhammer, Hobart, Ind.
Application November 20, 1942, Serial No. 466,342
7 Claims. (Cl. 263—40)



1. An ingot heating furnace comprising a hearth for supporting rows of ingots with an open space on each side of each row, a plurality of burner ports located on each end wall of the furnace below the top of the space to be occupied by the ingots, each opposite one of the open spaces with at least one of said burner ports opening into each end of each space whereby flames are projected between and on each side of the rows of ingots, and at least one waste gas port at each end of the furnace.

2,420,358
HAIR DRYING MEANS PROVIDED WITH SILICA GEL

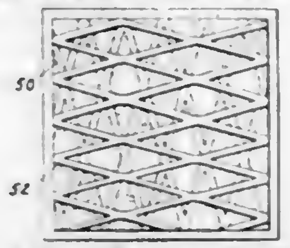
Emmett J. Culligan, San Bernardino, Calif., and George H. Klumb, Northbrook, Ill., assignors to Culligan Zeolite Company, Northbrook, Ill.
Application August 4, 1945, Serial No. 608,880
2 Claims. (Cl. 34—95)



1. A hair dryer comprising a hood-like member formed with walls spaced to form a closed chamber between them, the outer wall being of sheet metal, the inner wall being of wire gauze, of a form, size and position to fit over the head of a subject and enclose wet hair therein, the said chamber being filled with silica gel, whereby the entire hair dryer may be subjected to a requisite amount of heat as is a domestic oven to reactivate the dehydrating material, and flexible means to be positioned over the hood-like member to enclose the chamber and the silica gel therein to retain the head adsorption so the cooling effect of evaporation may be neutralized on the head.

2,420,359
METHOD OF MAKING DIES

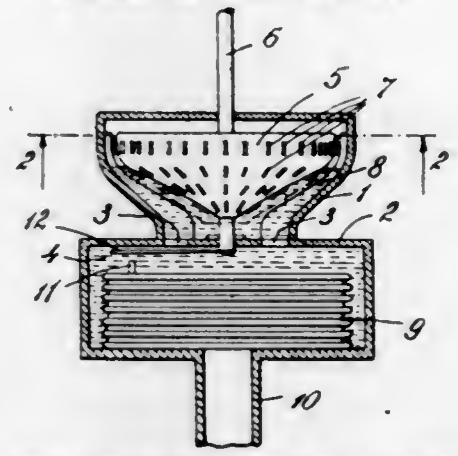
Don E. Dasher, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware
Application May 22, 1944, Serial No. 536,853
6 Claims. (Cl. 76—107)



1. A method for the production of dies comprising shaping a sheet of expanded and rolled metal to the surface contour of a template, treating the expanded metal with a bonding agent, embedding the expanded metal in a metallic plate, and grinding the plate until the expanded metal is exposed.

2,420,360
MOTOR GOVERNOR

George M. Deming, Orange, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application April 25, 1944, Serial No. 532,693
6 Claims. (Cl. 48—38)



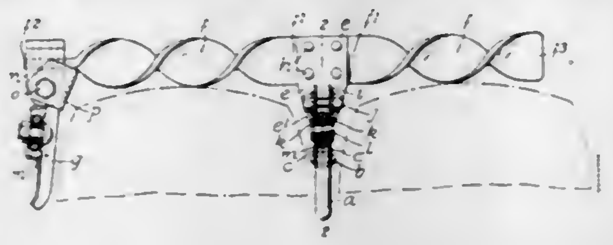
1. In a gas producing system having a motor and means actuated by the motor whereby gas at a substantially predetermined pressure is produced when the motor is operated at a given speed, the improvement which comprises a governor for the motor having a casing, a rotor in the casing operatively connected to the motor, a liquid in the casing in contact with which the rotor is adapted to rotate to produce a braking effect on the motor, pressure responsive means adapted to cause more or less submergence of the rotor in the liquid to thereby increase or decrease the braking effect of the rotor on the motor, and means whereby the gas pressure created by operation of the motor operates said pressure responsive means, said rotor being adapted to produce a progressively greater braking effect on the motor as its submergence in the liquid increases to thereby reduce the pressure of the gas acting on said pressure responsive means.

2,420,361
NONSKID DEVICE

Ernest Arthur Dennison, Goodworth Clatford, Andover, England, assignor to Kennedy and Kempe, Limited, Longparish, Andover, England, a British joint-stock company
Application March 27, 1945, Serial No. 585,056
In Great Britain March 21, 1944
5 Claims. (Cl. 152—220)

5. In a non-skid device for vehicles having wheels fitted with twin tires, including a plu-

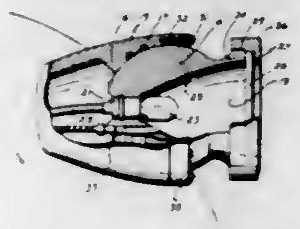
rality of shoes consisting of twisted metal bars, with pivoted lateral flaps and rigidly secured central tongues, a central tongue comprising a pair of parallel hanger plates riveted to a central untwisted portion of the bar, a pair of parallel tongue plates secured crosswise to said hanger plates, a point-section fixed between said tongue plates at their edges remote from said bar, said point-section being of substantially D-shape with its rounded portion extending beyond said tongue plate edges in a direction to penetrate between the tires, a pair of dowel pins engaged in said tongue plates, said dowel pins forming attachments for elements of a connecting chain, at least one cover plate arranged outside said tongue plates, and a pair of bolts passing through said tongue and cover plates to clamp them together and to cause said cover plate to hold said dowel pins in place.



2,420,362

DIVER'S LIGHT

James F. Ekleberry, Miami, Fla., assignor of one-half to C. Roy Miller, Miami, Fla.
Application October 6, 1944, Serial No. 557,465
3 Claims. (Cl. 240—2)

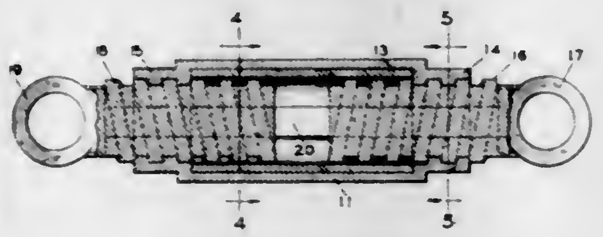


1. In a device of the character described, in combination, a diver's helmet, a casing thereon forming a socket, a ball member having an open recess therein movably seated in said socket, a light secured in said recess, sealing rings positioned about said socket, transparent means closing the open end of said recess, and means equalizing the air pressure in said recess with that of the surrounding fluid, said last-mentioned means including means forming a passage communicating with the interior of said diver's helmet.

2,420,363

KEYED TURNBUCKLE DEVICE

Arthur K. Espenas, Denton, Tex.
Application February 19, 1946, Serial No. 648,629
5 Claims. (Cl. 287—60)

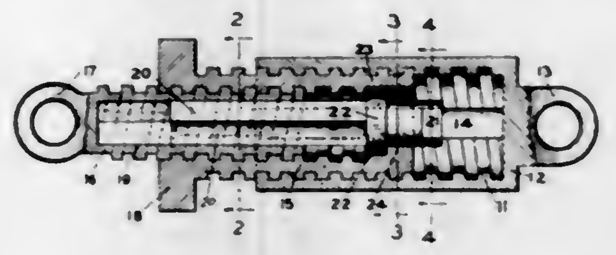


1. A turnbuckle comprising a housing, a pair of axially aligned link members threadedly engaged in said housing, one link member having a right-hand thread and the other link member having a left-hand thread, and means in said housing slidably engaging said link members and keying said link members against relative rotation.

2,420,364

TELESCOPING TURNBUCKLE

Arthur K. Espenas, Denton, Tex.
Application February 19, 1946, Serial No. 648,630
5 Claims. (Cl. 287—60)

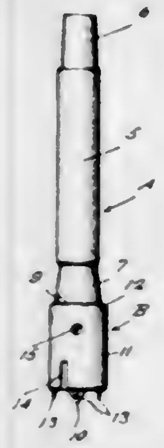


1. A turnbuckle comprising a first link element in the form of an internally threaded housing, a longitudinal groove in the interior wall of said housing, a sleeve member having external threads engaged with the internal threads of said housing, said sleeve member having internal threads opposite in sense to said external threads, a second link element threadedly engaged with the internal threads of said sleeve member, said second link element having a non-circular longitudinal bore, and a key member having a first portion slidably and non-rotatively fitting said bore and a second portion slidably and non-rotatively engaged with the longitudinal groove in the interior wall of the housing.

2,420,365

COMBINATION CENTER PUNCH

Theodore Fischer, Midvale, N. J.
Application October 2, 1944, Serial No. 556,808
3 Claims. (Cl. 33—191)



1. In a combination center punch of the class described, a punch comprising a body having an impact head at its upper end and a shouldered shank at its lower end, said shank terminating in a main centrally and axially disposed punch-point, and a sleeve on said shank abutting the shoulder and provided with circumferentially spaced auxiliary punch-points disposed radially and in circumferentially spaced relation with respect to the main punch-point, said sleeve being provided with a set screw for removably holding same in place on said shank, and further provided with diametrically opposite notches, said notches constituting sight openings to permit inspection of the main center point.

2,420,366

ADHESIVE TAPE AND METHOD OF USE IN PLYWOOD

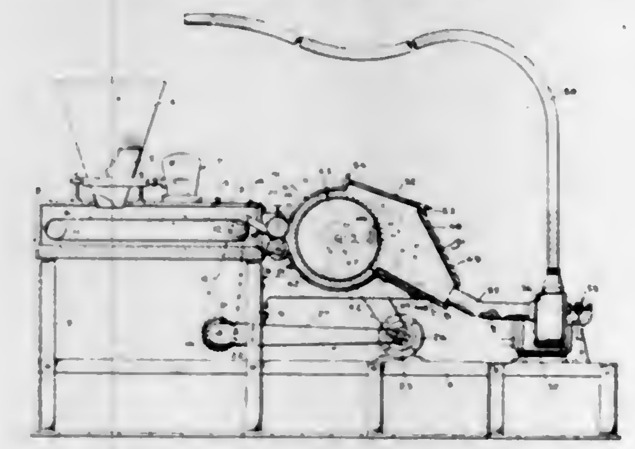
Henry C. Geen, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich., a corporation of New York
No Drawing. Application February 19, 1943, Serial No. 476,493
7 Claims. (Cl. 117—122)

2. Tape adapted to secure together the margins of a sheet of wood veneer or a split therein comprising a thin paper film substantially .002" to .003" in thickness impregnated with alkali-condensed phenol formaldehyde synthetic resin, one face of which has a coating consisting of a solid solution of alkali-condensed phenol formaldehyde synthetic resin in polyvinyl alcohol, the coating being actuatable by moisture for adhesion of the tape to the veneer, with the resin in the coating adapted to be thermo-set and rendered water insoluble with alkali-condensed phenol formaldehyde synthetic resin between plies of veneer to which the tape has been secured.

2,420,367

FLUFFING UP ARTIFICIAL STAPLE FIBERS

Norma Blanche Geer, Los Angeles, Calif., and Louis William Schatz, South Tacoma, Wash., assignors to Celanese Corporation of America, a corporation of Delaware
Application November 9, 1943, Serial No. 509,636
2 Claims. (Cl. 19—96)



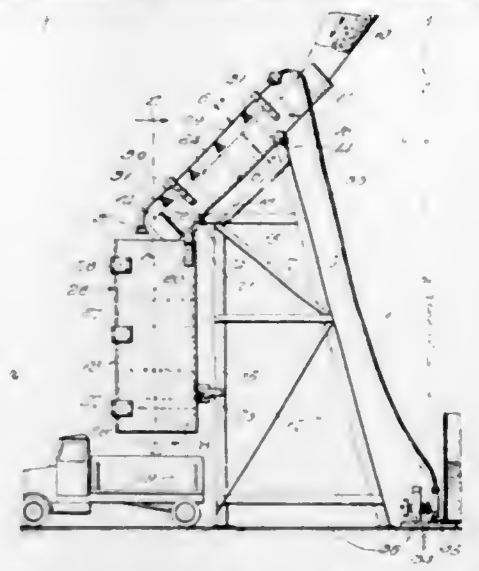
2. Apparatus for opening and fluffing up staple fibers, comprising a rotatable drum having a plurality of spaced metal points offset with respect to each other on the surface thereof, a housing for said drum, metal sheeting lining the interior of said drum housing, a wire for grounding said metal sheeting, means, including an endless belt, a hopper and an automatic weighing device, for feeding a predetermined quantity of staple fibers to said points, and a blower for removing the opened and fluffed up fibers from said housing.

2,420,368

APPARATUS FOR COATING AGGREGATES

Joseph Giordano, Nanuet, N. Y.
Application June 20, 1944, Serial No. 541,157
1 Claim. (Cl. 91—44)

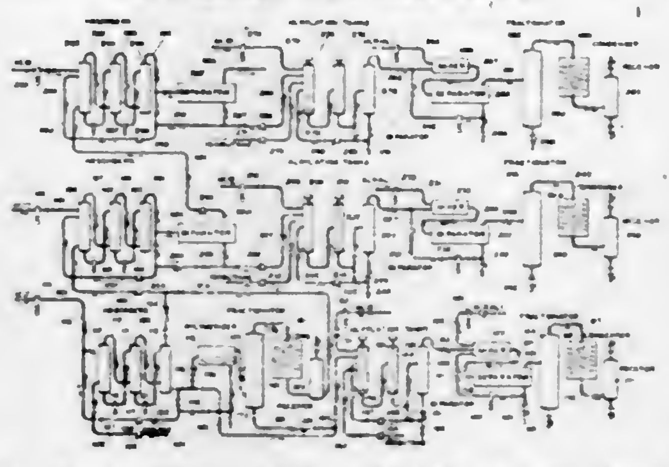
In road building apparatus for coating mineral aggregates, a tower, a vertically inclined chute having substantially parallel sides, means to detachably mount the inclined chute upon the upper portion of the tower, inclined baffles arranged within the inclined chute and disposed transversely with relation to the sides and extending from the sides, the free ends of the baffles being arranged in staggered relation for forming a tortuous passage which receives the mass of mineral aggregates traveling by gravity through the inclined chute for mixing such mass, a pipe arranged above and extending longitudinally of the inclined chute, means to mount the pipe upon the inclined chute, spray nozzles carried by the pipe for spraying a liquid bituminous binder upon the mineral aggregates within the inclined chute, means to supply the liquid bituminous binder to the pipe under pressure, a substantially vertical chute arranged beneath the lower end of the inclined chute, means detachably connecting the upper end of the vertical chute with the lower end of the inclined chute, means for detachably connecting the substantially vertical chute with the tower near the lower end of the substantially vertical chute, said substantially vertical chute having sides which are substantially parallel with the sides of the inclined chute and a back and front door, the front door being adapted to be open for affording access to the interior of the substantially vertical chute, inclined baffles within the substantially vertical chute and extending downwardly from the sides of the substantially vertical chute, the last named inclined baffles having their inner free ends arranged in staggered relation for forming a tortuous passage for receiving the mass of mineral aggregates traveling by gravity through the substantially vertical chute to mix such mass, and a spray device connected with the pipe and arranged over the upper end of the substantially vertical chute for spraying the liquid bituminous binder upon the mineral aggregates passing through the substantially vertical chute.



2,420,369

ACID ALKYLATION OF ISOPARAFFINS

Arthur R. Goldsby, Beacon, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 25, 1938, Serial No. 215,736
15 Claims. (Cl. 260—683.4)

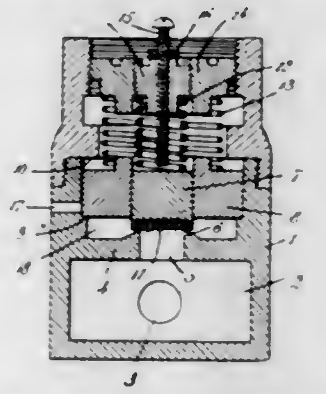


12. A process for the alkylation of an isoparaffin with an olefin which comprises reacting

the olefin with an acid to form a corresponding alkyl ester, and then alkylating an isoparaffin with said alkyl ester in the presence of a corresponding acid alkylation catalyst under alkylating conditions.

2,420,370
PRESSURE RELIEF VALVE

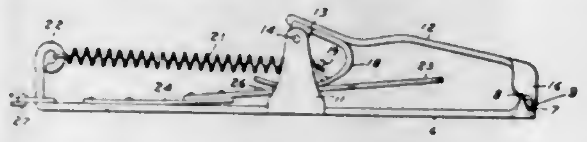
James K. Hamilton, Plainfield, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application January 26, 1944, Serial No. 519,784
3 Claims. (Cl. 137—53)



3. A relief valve for a gas container or the like comprising a casing enclosing a chamber having an end wall and a side wall, the end wall having a valve port therein and the side wall having an exhaust port spaced from the end wall, a primary valve element, a secondary valve element, said secondary valve element being a valve piston slidably mounted in said casing, the primary valve element being mounted in the valve piston for sliding movement toward and from said valve port independently of said valve piston, means acting on said primary valve element and urging it toward said end wall and normally holding it in position to close said valve port against the escape of gas, means independent of the means acting on the primary valve for urging the secondary valve piston element toward said end wall to a position to prevent exhaust of gas from said chamber through said exhaust port, whereby exhaust of gas from said chamber through said exhaust port can take place only after the secondary valve piston has moved away from the end wall a predetermined distance.

2,420,371
TRAP

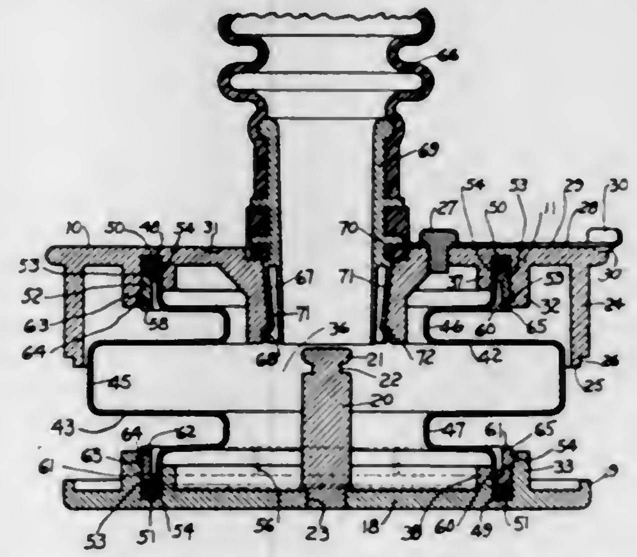
Durward B. Hampton, Sebastopol, Calif., assignor of forty-eight per cent to Charles G. Holme, Sebastopol, Calif.
Application November 6, 1943, Serial No. 509,330
1 Claim. (Cl. 43—83)



A trap of the character described comprising, a base, a transverse jaw at an end of the base, a hook member at the other end of the base, brackets extended above the base between said ends, a lever pivoted in said brackets around an axis transverse to said base, a jaw on the lever opposite said first jaw, an extension extended from said lever and curved downwardly and toward said hook member, a spring connected to said hook member and to said extension to urge the lever toward the base and toward said first jaw, a treadle extended longitudinally on the base and past said brackets, a spring end on the treadle extended toward said hook member and secured to the base so as to urge the treadle away from said base, a projection on said treadle engaging said lever extension to prevent the turning of the lever toward the first jaw, said projection being cleared from said extension when said treadle is depressed to trip said trap and close said jaws.

2,420,372
LEAK TESTER FOR THERAPEUTIC MASKS

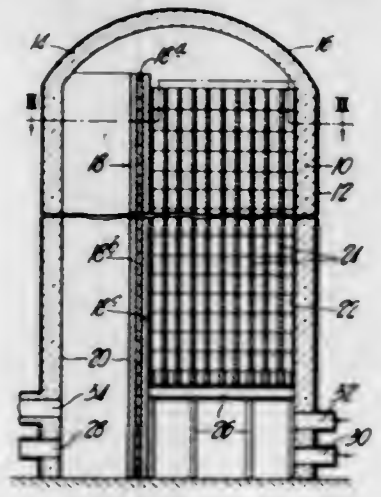
Jay A. Heidbrink, Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application June 29, 1944, Serial No. 542,763
9 Claims. (Cl. 73—40)



9. A leak detector for a demand type mask having a hose connected thereto, and a hose coupling on said hose, said detector comprising a casing having an opening through the top thereof, a bottom cover on said casing, a bellows attached to said casing at one end thereof and to said bottom cover at the opposite end thereof, the opening in said casing opening into the said bellows, and means to secure the hose coupling in said opening so that the hose connects with the interior of the bellows.

2,420,373
HOT-BLAST STOVE

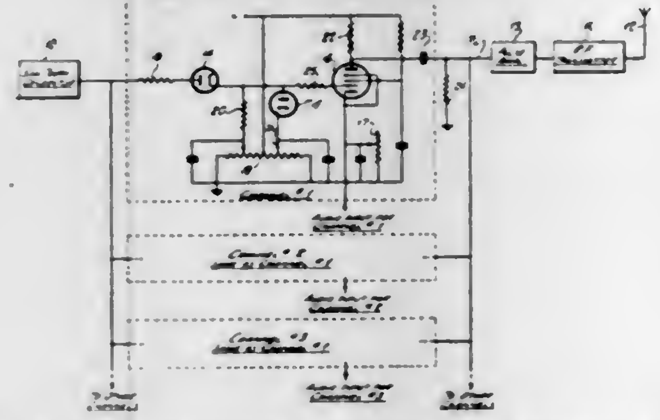
Carl G. Hogberg, Glenshaw, Pa., assignor to United States Steel Corporation of Delaware, a corporation of Delaware
Application September 15, 1944, Serial No. 554,242
5 Claims. (Cl. 263—19)



1. A hot blast stove for heating blast furnace combustion air, comprising an upright, substantially hollow structure having an upright division wall dividing the interior of the stove into a combustion chamber and a checker chamber, said division wall including outer strata of fire-brick separated by a dissimilar stratum of heat-insulating material effective to retard the transfer of heat through said fire-brick strata.

2,420,374
PULSE MULTIPLEX TRANSMISSION SYSTEM

William D. Houghton, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 1, 1944, Serial No. 543,144
8 Claims. (Cl. 179—15)

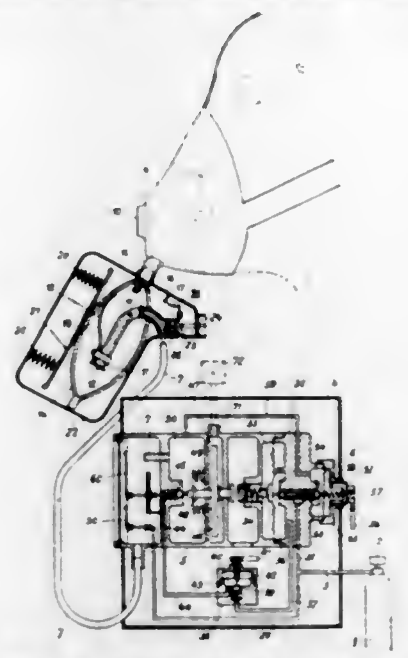


7. A multi-channel transmitting system comprising a plurality of channels, a triangular wave generator coupled in common to the inputs of said channels, a first rectifier circuit associated with each channel and adjusted to pass current at a predetermined minimum voltage level on the slope of the triangular input wave, a second rectifier circuit associated with each channel and adjusted to limit the maximum voltage developed by said first rectifier circuit, and a pentode tube in each channel having its input circuit connected to both rectifiers in the same channel and arranged to be operative in the region between said minimum and maximum voltage values, the rectifier circuits associated with the different channels being adjusted to operate at different voltage levels on the slope of the triangular input wave, a cathode bias resistor for said pentode tube, different audio modulation circuits coupled across the cathode bias resistors of the different pentode tubes in said channels, the pentode tube in each channel being biased to become conductive at the center of the operating voltage region selected for that channel in the absence of modulating voltage, whereby the output from the pentode tube of each channel is a pulse of variable occurrence time depending upon the instantaneous modulation voltage, means for differentiating the output pulses from said channels, and a common transmission circuit coupled to the outputs of said channels.

2,420,375
AIRCRAFT OXYGEN REGULATOR

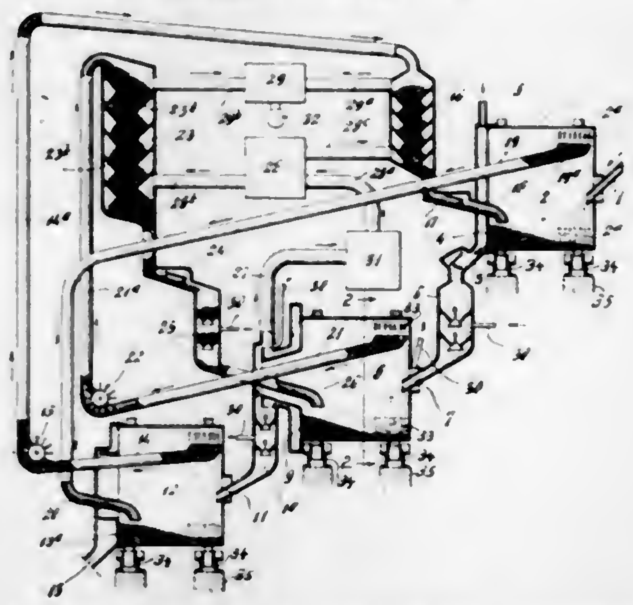
Arnold Huggenberger, Zurich, Switzerland
Application September 2, 1944, Serial No. 552,396
7 Claims. (Cl. 137—153)

1. A breathing device comprising within a casing, a collapsible breathing bag provided with a discharge tube for connection with a respiratory zone, a check valve in said discharge tube closing toward said breathing bag, a spring-actuated plate engaging the exterior of sad bag and effective to assist in collapsing said bag when said check valve is opened, a nozzle connectable to a source of respirant gas under pressure extending with its discharge end into said bag, a valve pivotally mounted on said nozzle and controlling the discharge end thereof, and means actuated by said bag when it is being collapsed to open said valve whereby said nozzle is adapted to introduce a charge of respirant gas into said bag.



2,420,376
DESTRUCTIVE DISTILLATION PROCESS EMBODYING COUNTERFLOW OF SOLID HEATING MEDIUM

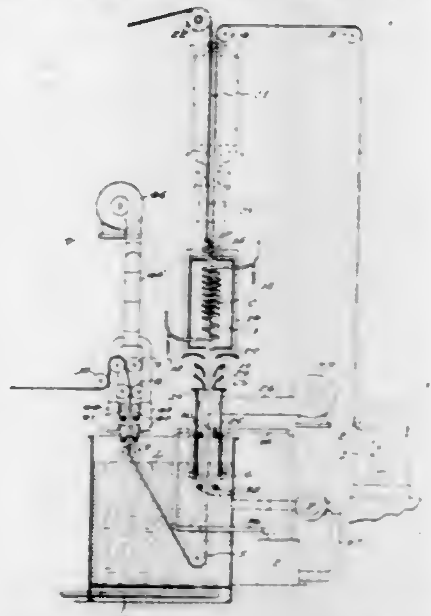
Edvin Andreas Johansson, Stockholm, Sweden
Application February 21, 1945, Serial No. 579,045
In Sweden July 20, 1942
9 Claims. (Cl. 202—14)



1. A method of dry distillation, comprising preheating the material to be treated in a first separate step, dry-distilling the preheated material in a second separate step, heating heat-carrying and heat-delivering loose bodies by means of heat obtained from products formed during the dry-distillation, said preheating and said dry-distillation being carried out by bringing the material in direct contact with and in motion in relation to such heated heat-carrying and heat-delivering loose bodies in separate rotating drums, into and out of which the heat-carrying bodies and the material to be treated are supplied and discharged separately at opposite ends of the drums in such manner that they, due to the stirring and mixing caused by the rotation of the drum, are moved through the drum transversely to the rotation and in counter-current to each other.

2,420,377
METHOD OF BRIGHTENING TINNED STRIP

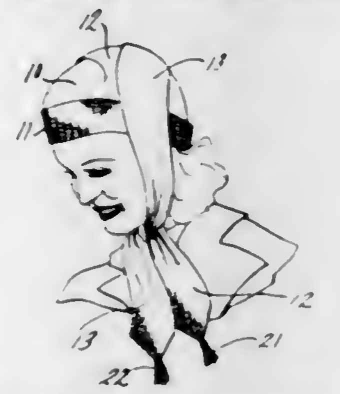
Carl G. Jones, Youngstown, Ohio
Application January 6, 1943, Serial No. 471,407
4 Claims. (Cl. 204—36)



1. The method of brightening tinned strip which comprises progressively moving the strip longitudinally in a predetermined path while progressively heating it until it attains at a point on said path a temperature of approximately 437° F., further heating it to a temperature higher than the melting point of the tin coating but at a slower rate per unit of travel and, on attainment thereof, immediately cooling it in a gaseous medium to approximately the first mentioned temperature, and then quenching it in a liquid quenching medium to a temperature substantially below said first mentioned temperature.

2,420,378
COMBINATION CAP AND SCARF

Tillie Lehman and Leo E. Lehman, Chicago, Ill.
Application September 14, 1946, Serial No. 697,060
5 Claims. (Cl. 2—198)

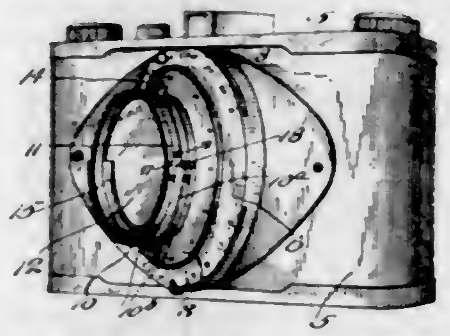


1. A combination knitted cap and scarf device comprising a head engaging cap portion having a head opening therein, and a plurality of substantially identical scarf portions formed in continuation of said cap portion, said scarf portions extending directly from the head engaging cap portion and substantially perpendicular to the head opening therein.

2,420,379
FILTER ADAPTER FOR CAMERAS

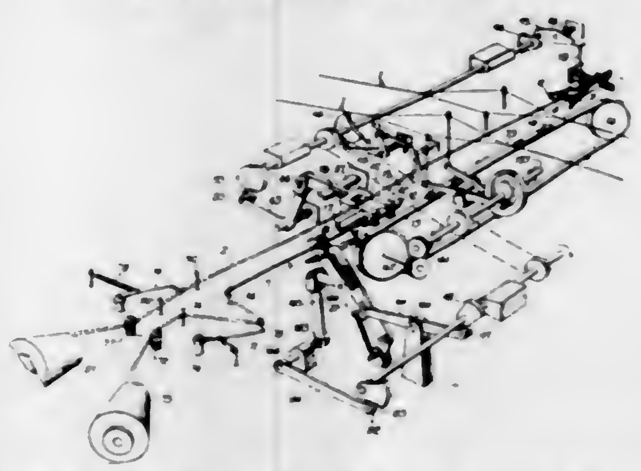
Gerald George Mills, Daly City, Calif.
Application February 15, 1945, Serial No. 577,984
1 Claim. (Cl. 95—81.5)

A filter adapter for cameras comprising a pair of flat band collars spaced apart edgewise in concentric relation, a substantially semi-circular external plate connecting said collars in spaced apart relation and forming a bottom closure for said space throughout substantially one-half of the same whereby said space provides a half-circle slot between the collars and the ends of the plate adapted for introducing a circular filter into said collars for rotation therein, semi-circular internal bottom flanges on confronting edges of said collars adapted to guide the filter in rotation thereof, a semi-circular ring fitting between said confronting edges and slidable circumferentially of said collars to open and close said slot, said ring being confined between said edges by said plate and filter when slid into slot opening position and slidably interfitting with said edges when slid into slot opening position, and means to attach said collars to the camera in front of the lens of the same.



2,420,380
METHOD AND DEVICE FOR WEAVING ON LOOMS WITH GRIPPER SHUTTLES

Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application March 9, 1944, Serial No. 525,801
In Switzerland December 4, 1941
14 Claims. (Cl. 139—126)



8. The method of weaving on looms having a plurality of consecutively picked gripper shuttles and stationary weft bobbins and in which the inserted weft thread is cut at the edge of the fabric, characterized by the steps of holding a gripper shuttle temporarily outside of the shuttle picking path for connecting a weft thread thereto, and of holding another shuttle with another weft thread connected thereto in picking position.

2,420,381
PLASTICIZED ZEIN COMPOSITION

Latimer D. Myers, Cincinnati, Ohio, assignor to Emery Industries, Inc., Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application February 23, 1943, Serial No. 476,846
5 Claims. (Cl. 106—153)

1. A zein composition comprising plasticized zein containing a half ester of a dicarboxylic acid having 4 to 18 carbon atoms and a monohydric alcohol having 1 to 12 carbon atoms as the principal plasticizing agent.

2,420,382
CATALYTIC REDUCTION OF ORGANIC CHLORO-NITRO COMPOUNDS

James A. Robertson, Elsmere, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 25, 1945, Serial No. 612,707
6 Claims. (Cl. 260—566)

1. The process for the catalytic reduction of nitrocompounds which comprises reacting hydrogen with an organic nitrocompound having a halogen atom and a nitro group attached to the same carbon atom, the remainder of the compound consisting solely of carbon and hydrogen, and effecting the reaction in the substantial absence of an aqueous medium in the presence of a platinum group metal hydrogenation catalyst.

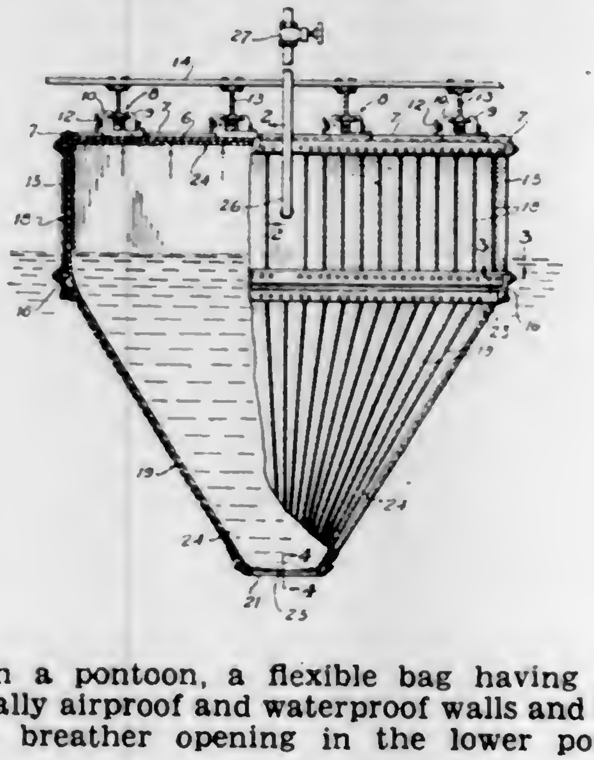
2,420,383
PRODUCTION OF SULFONYL CHLORIDES FROM OLEFINS

John Ross, Manhasset, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application December 20, 1940, Serial No. 370,990
2 Claims. (Cl. 204—162)

1. A process which comprises reacting a straight-chain mono-olefine having from 12 to 24 carbon atoms in a liquid state with gaseous sulphur dioxide and gaseous chlorine in the ratio of about ¼ to 20 moles of sulphur dioxide to 1 mole of chlorine, maintaining the temperature of the reaction mixture within the range of about 0° to 100° C., and continuing the reaction at least until a sulphonyl chloride derivative of the mono-olefine has been formed.

2,420,384
PONTOON

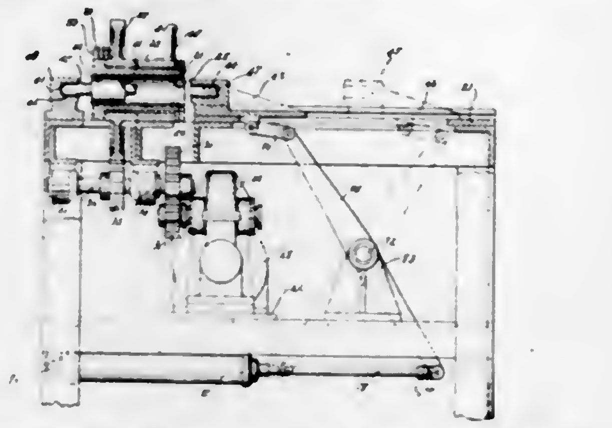
Leroy R. Shep, Los Angeles, Calif.
Application November 1, 1943, Serial No. 508,457
12 Claims. (Cl. 114—54)



1. In a pontoon, a flexible bag having substantially airproof and waterproof walls and having a breather opening in the lower portion thereof, wire rope strands around the upper part of the bag confining same, frames respectively connecting with the strands at spaced points, rigid spacing means maintaining the frames in spaced relation and maintaining the strands substantially taut, flexible wire rope strands connected with one of the frames and yieldingly enclosing the lower portion of the bag adjacent the breather opening, and means to regulate the inflow and outflow of air pressure into and from the top of the bag.

2,420,385
TORSIONAL TESTING APPARATUS

Frank Slusher, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 31, 1944, Serial No. 547,368
4 Claims. (Cl. 73—99)



1. Apparatus for testing the torsional characteristics of a torsion spring structure having a shaft, an outer shell thereabout, and a resilient body of vulcanized rubber-like material therebetween and bonded thereto, said apparatus comprising holding means engaging opposite ends of the shaft to hold it against rotation, means for moving one of said holding means toward and from the other for mounting a spring structure therebetween, moveable means engaging the outer shell, power-driven means for applying a torsional load to said structure through said moveable means, and indicating means responsive to movement of said moveable means relative to said power driven means.

2,420,386
REDUCTION OF CORROSIVE ACTION OF FRIEDEL-CRAFTS TYPE CATALYSTS

William Rusler Smith and William F. Glassmire, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application June 8, 1945, Serial No. 598,414
4 Claims. (Cl. 260—683.5)

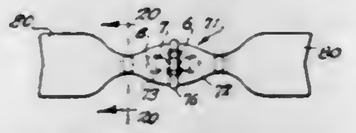
1. In the catalytic conversion of hydrocarbons in liquid phase at elevated temperatures below 250° F. in the presence of a liquid aluminum halide-hydrocarbon complex catalyst and a hydrogen halide promoter in a reaction zone bounded by a metal wall which is submerged in the catalyst liquid and normally subject to substantial corrosion thereby, the method which comprises pretreating the aluminum halide-hydrocarbon complex liquid by heating the same in the absence of hydrocarbons in a separate treating zone at a temperature above about 150° F. but not exceeding about 250° F. for a period of time of about 30 to 60 hours to render the complex liquid substantially non-corrosive to boiler steel immersed therein at about 210° F., and then passing the

pretreated complex liquid to the said reaction zone to serve as the catalyst therein, whereby the said hydrocarbon conversion takes place in the presence of said pretreated complex liquid and the hydrogen halide promoter without substantial corrosion of said metal wall under the said liquid phase conversion conditions.

2,420,387

PREFORMED NECKTIE

Alfred F. Taborski, Buffalo, N. Y.
Application January 19, 1945, Serial No. 573,487
11 Claims. (Cl. 2—151)

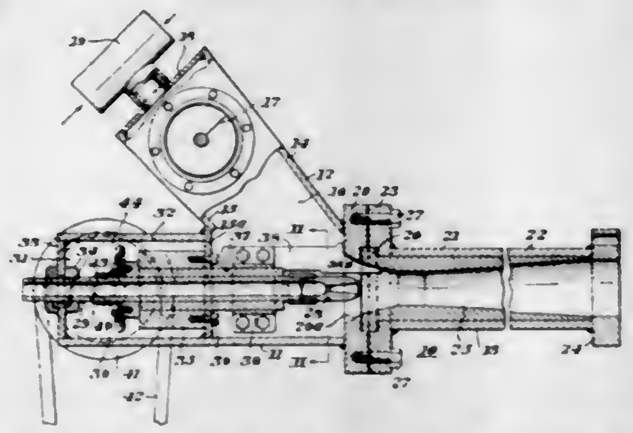


1. A necktie of the bow type comprising a knot portion having collar attaching means, wings detachably connected to said knot portion so as to extend endwise therefrom, each wing being rotatable relatively to said knot portion about an axis extending lengthwise of said portion and also individually detachable from the knot portion, whereby either wing may be rotated relatively to the knot portion to present either of its faces facing forwardly, or detached to be replaced by a similar wing of different appearance.

2,420,388

APPARATUS FOR FEEDING GRANULAR MATERIAL INTO A FLUID STREAM

William A. Thomas, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application December 29, 1945, Serial No. 637,819
11 Claims. (Cl. 302—25)



1. In an apparatus for feeding granular material into a fluid stream, the combination with a fluid-jet injector including a nozzle and a Venturi tube, of a scraper blade extending generally axially into the entrance of said tube, and means mounting said blade for rotation about a fixed axis.

2,420,389

INSECT REPELLENT COMPOSITION

Bernard V. Travis, Orlando, Fla., and Howard A. Jones, Washington, D. C.; dedicated to the free use of the People in the territory of the United States
No Drawing. Original application May 18, 1944, Serial No. 536,110. Divided and this application March 21, 1947, Serial No. 736,181
2 Claims. (Cl. 167—22)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insect repellent composition comprising a solution of about 36 parts by weight of dimethyl phthalate and about 9 parts by weight of 2-ethyl-1,3-hexanediol incorporated in zinc oxide in such amounts as to form a paste-like composition.

2,420,390

DRYING OIL COATING COMPOSITIONS

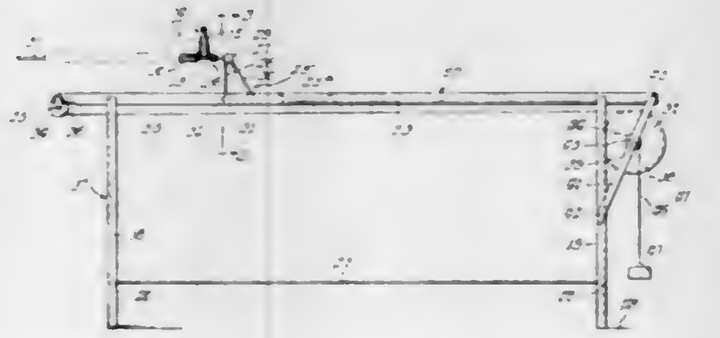
Thomas C. Whitner, Elizabeth, N. J., assignor to Chemical Laboratories, Inc., a corporation of New Jersey
No Drawing. Application October 22, 1943, Serial No. 507,349
13 Claims. (Cl. 260—18)

1. A coating composition comprising a drying oil, a pigmenting agent consisting of a drying-oil substantially insoluble condensation product of a saturated acyclic aldehyde with a saturated acyclic ketone and containing an adsorbed dye, and a drying agent for said oil.

2,420,391

SUPPORTING DEVICE

Ralph J. Arnold, Western Springs, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois, and Ralph D. Collins, Beverly Hills, Calif.
Application December 2, 1944, Serial No. 566,360
7 Claims. (Cl. 153—64)



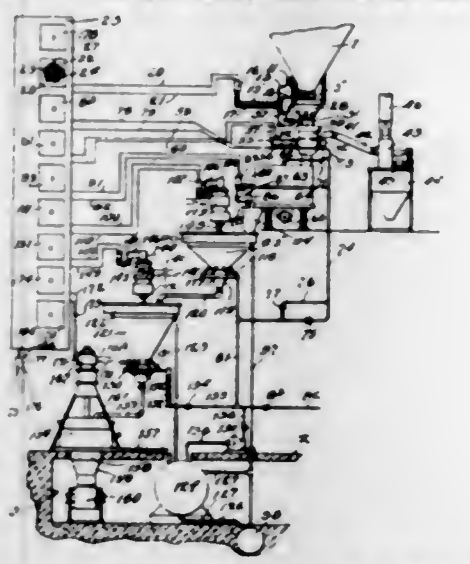
1. A supporting device of the class described comprising a base, a track thereon, a carriage movable on said track, a holder mounted on said carriage to supportingly engage an article in motion, a cable connected to the carriage, a pulley over which the cable is entrained, a relatively large sheave axled in the base upon which said cable is wound, a relatively small sheave rotatable with said first mentioned sheave, a second cable wound on said small sheave during unwinding movement of the first mentioned cable from said first mentioned sheave, and a counterweight suspended by said second cable.

2,420,392

FOUNDRY SAND RECLAIMING SYSTEM AND METHOD

Alfred C. Christensen and James J. Dvorak, Chicago, Ill., assignors to Herbert S. Simpson, Evanston, Ill.
Application December 21, 1942, Serial No. 469,662
10 Claims. (Cl. 22—89)

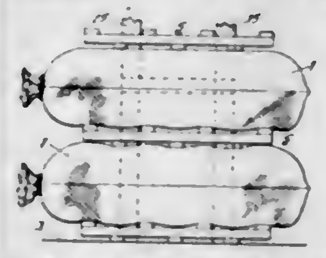
6. The method of reclaiming inert granular materials for re-use consisting of gravity feeding the material in separated measured batches through consecutive sequences of independently timed steps each having timed operating and rest intervals for controlling the advance of the batches independently through separately consummated dry cleaning treatments involving air removal of resultant fines, and separately consummated wet cleaning treatments for scouring, scrubbing and then grading the clean sand, and finally dehydrating the resultant graded sand to dry the same ready for re-use.



2,420,393

MEANS FOR THE HANDLING OF FISH MEAL AND THE LIKE

John James Dorsey, Bay City, Grays Harbor, Wash.
Application December 27, 1943, Serial No. 515,822
3 Claims. (Cl. 214—10.5)

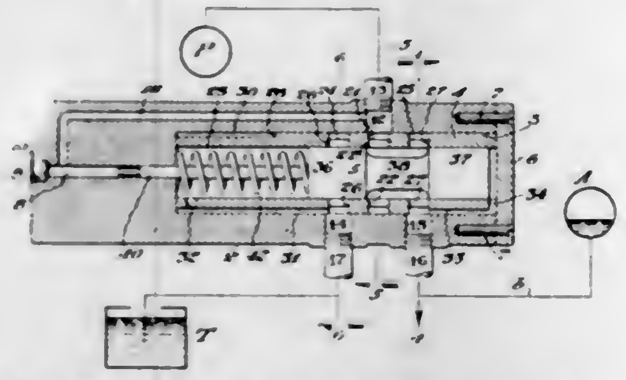


2. An aerating spacer for disposition between stacked bags of material subject to spontaneous combustion, comprising a plurality of bars disposed substantially parallel to each other and joined by slats on each side thereof, the slats on one side alternating with the slats on the other side, said spacer covering an area somewhat less than the bag area to be contacted by said spacer.

2,420,394

UNLOADING VALVE FOR HYDRAULIC CIRCUITS

Wilbert M. Gilman, Wellesley Hills, Mass., assignor, by mesne assignments, to Cread Engineering and Research Company, Cranston, R. I., a corporation of Rhode Island
Application December 10, 1945, Serial No. 633,916
6 Claims. (Cl. 137—153)

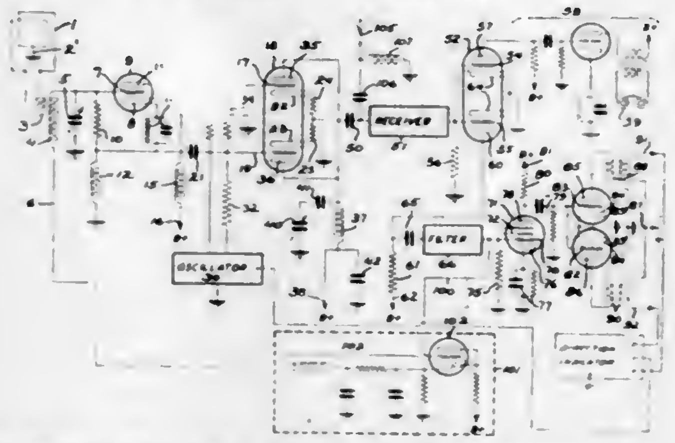


1. A valve comprising a casing having a main pressure chamber and an auxiliary restricted pressure chamber, an inlet port leading into the main chamber and a pair of spaced outlet ports opening therefrom, a piston slidable in the main chamber of the casing and having spaced areas disposed to continuously maintain the inlet port open while operative to alternately open one outlet port and close the other outlet port, a smaller piston in the restricted chamber acting in opposition to the main piston, a conduit leading from the inlet port to the restricted chamber, and a second conduit leading from one of the outlet ports to the main chamber beyond the end of the main piston.

2,420,395

RADIO DIRECTION FINDING CIRCUIT

George B. Greene, Long Beach, Calif., assignor to Leo M. Harvey, La Canada, Calif.
Application April 10, 1942, Serial No. 438,488
8 Claims. (Cl. 250—11)

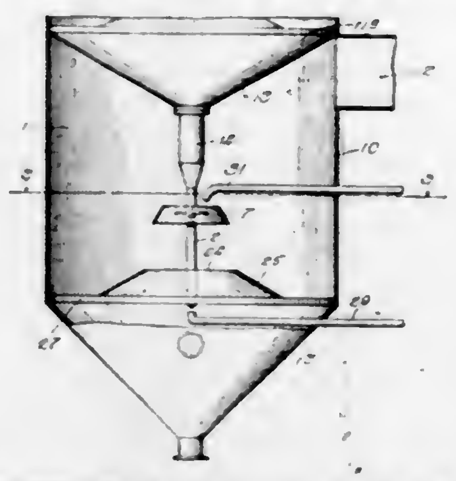


1. In radio direction finding apparatus, a directional antenna, means for tuning said directional antenna to a reference radio transmitter, a pair of balanced carrier suppressor tube electrode assemblies, circuit means including a phase inverting tube coupled to said directional antenna and having a capacitive coupling to said carrier suppressor tube electrode assemblies for exciting said suppressor tube electrode assemblies in reverse signal phase from said directional antenna, an oscillator connected to alternately bias said suppressor tube electrode assemblies, an amplifier, a non-directional antenna tunable to said reference transmitter and capacitor means coupling the output of said suppressor tube electrode assemblies and that of said non-directional antenna to said amplifier.

2,420,396

VACUUM COOLER AND METHOD OF CLEANING THE SAME

Arnold H. Heineman, Chicago, Ill., assignor to The Guardite Corporation, a corporation of Illinois
Application July 12, 1945, Serial No. 604,637
6 Claims. (Cl. 62—152)



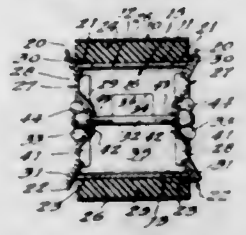
1. In a multi-stage vacuum cooler a series of superposed vacuum chambers, a tray in the bot-

tom of one chamber forming a portion of the roof of the next lower chamber, said tray being adapted to contain a portion of the liquid being cooled, a nozzle communicating with each tray except the bottom tray below the liquid level and opening into the next lower chamber, shield means associated with the nozzle for confining the path of liquid from the nozzle under explosive conditions, and unrestricted means in each chamber independent of the nozzle for introducing a stream of cleaning liquid.

2,420,397

HAND ABRADER

Anker W. Jensen, Oak Park, Ill.
Application May 10, 1946, Serial No. 668,677
11 Claims. (Cl. 51—186)

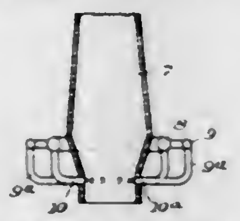


1. A hand abrader comprising a supporting frame including a top wall and a bottom wall movable relative to and toward and away from each other, a pad of resilient material arranged upon the upper and outer surface of the said top wall and a pad of resilient material arranged upon the lower and outer surface of the said bottom wall of the said supporting frame, a continuous flexible web of abrasive coated material extending around the said supporting frame and over the outer surfaces of the said resilient pads, and means including manually adjustable devices carried by the said supporting frame for urging the said top wall and the said bottom wall of the said supporting frame away from each other so as to urge the said resilient pads carried thereby into engagement with the inner surfaces of the said flexible abrasive-coated web.

2,420,398

METHOD OF OPERATING BLAST FURNACES

Selwyne P. Kinney, Crafton, Pa., assignor to S. P. Kirmey Engineers, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application December 20, 1943, Serial No. 514,935
3 Claims. (Cl. 75—42)

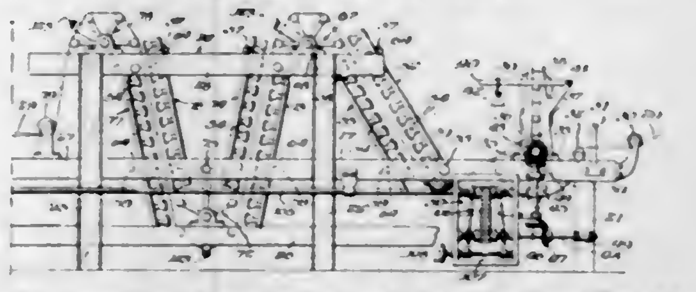


1. In the operation of a blast furnace to reduce oxide ores to metal, the furnace having a burden of iron ore, coke and lime stone, the steps which comprise reducing the ore principally by bosh gases formed by the combustion of coke in the burden and a hot blast of air, and supplementing such reduction by introducing reducing gases free of CO_2 and H_2O and low as compared to air in nitrogen, which gas is introduced separately from the air into the bosh, the gas having previously been heated to at least the average hearth temperature of the furnace, whereby the burden of coke may be reduced per ton of metal smelted, less air will be required, the top gases of the furnace will have a higher caloric fuel value, and the over-all effect of atmospheric humidity reduced due to the lesser amount of air.

2,420,399

THREAD DRIER HAVING RADIANT HEATERS AND AUTOMATIC CONTROL MEANS

Francis H. M. New, Taylors, S. C.
Application June 12, 1941, Serial No. 397,697
11 Claims. (Cl. 34—48)

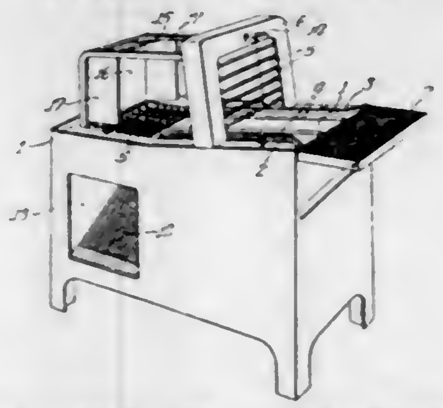


1. In drying apparatus, a longitudinally extending frame, supporting means provided thereby for supporting continuous material transversely of the frame and in a manner to permit movement of the material longitudinally thereof, a pair of squeeze rollers located at the entering end of the frame for subjecting the continuous material to pressure, a drum at the opposite end of the frame on which said continuous material is wound, power means for rotating said squeeze rollers and said drum, a plurality of drying lamps for supplying heat to said continuous material, independent supporting means for said drying lamps having pivotal connection with said frame between the squeeze rollers and said drum, and releasable means for holding each independent supporting means in operative position with the drying lamps adjacent said continuous material.

2,420,400

CUTTING ELEMENT FOR ICE CUBING MACHINES

William Carl Pfeil, Chicago, Ill.
Application March 2, 1944, Serial No. 524,679
9 Claims. (Cl. 62—112)



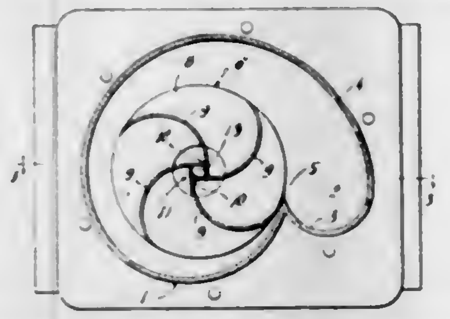
4. A fluid-heated ice cutting element for ice cubing machines having grids of flexible cutting elements for cubing the ice, said ice cutting element comprising a thin walled tube of small diameter made of highly heat conductive material and a flexible rod secured to said tube and forming with the tube an element of sufficient composite elasticity to yield and thereby absorb disruptive shocks from the impact of an ice block thereagainst and to return to its normal condition when relieved of the weight of such ice block.

2,420,401

CENTRIFUGAL PUMP

Ivan M. Prokofieff, Staten Island, N. Y.
Application June 8, 1945, Serial No. 598,341
4 Claims. (Cl. 103—103)

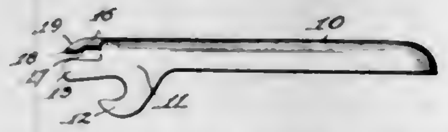
1. A centrifugal pump embodying, in combination, a pump casing having a housing composed of an impeller housing portion and a discharge chamber portion, said impeller housing portion having a volutely curved side wall and said discharge chamber portion having a side wall of arcuate conformation, an impeller mounted for rotation within said impeller housing portion, said two housing portions communicating with each other in the direction of flow from said impeller through a gradually expanding channel, and said side wall portions being formed integrally of one continuously curved imperforate strip of sheet metal having its opposite ends fastened together to provide a discharge chamber completely closed in said direction of flow from said impeller, and flat closure members at opposite ends of the entire side wall, one of which members is provided with an inlet opening at a positioning registering with said volute impeller housing portion and the other is provided with an outlet opening at a position registering with said discharge-chamber housing portion.



2,420,402

CAN PUNCTURING AND SPOUT FORMING DEVICE

Emil A. Schigut, Los Angeles. Calif.
Application February 7, 1944, Serial No. 521,306
1 Claim. (Cl. 7—14.2)



A can puncturing and spout forming device formed from a single piece of material comprising a handle U-shaped in cross section, a pair of parallel walls at the operative end of said handle, a prong U-shaped in cross section with the legs of said U-shape projecting from the web of and in prolongation of the handle at the operative end of said handle, the U-shape of said prong being inverted with respect to the U-shape of the handle, said prong having a pointed end, a pair of fingers projecting from the side walls in prolongation of said handle, said fingers being parallel to and spaced below the web of said prong to admit the side wall of a can between said prong and fingers, said prong near its pointed end being curved toward the said finger, said end being closer to said fingers than the rest of the prong, and said fingers having ends which terminate in the vertical plane as the pointed end of said prong.

2,420,403

ELECTRODEPOSITION OF IRON

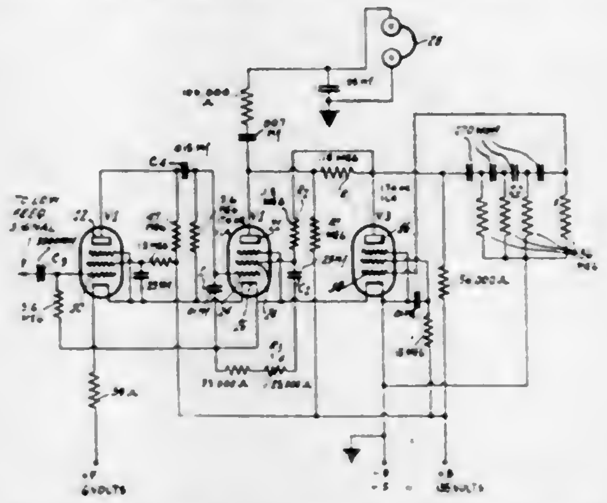
William B. Stoddard, Jr., Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
No Drawing. Application February 25, 1943, Serial No. 477,131
22 Claims. (Cl. 204—48)

1. The process of obtaining smooth, fine-grained deposits of iron from an electrolytic bath consisting essentially of an aqueous solution of a salt from the class consisting of ferrous chloride and ferrous sulfate which comprises passing an electric current through the bath while maintaining therein, as a catalytic refining agent, at least one-tenth gram and not substantially more than twenty grams per liter of soluble manganese in the form of a divalent salt from the class consisting of manganous chloride and manganous sulfate, the pH of the bath being between 1 and 4.5 but not sufficiently high to cause a coarse grain structure of the deposited iron.

2,420,404

INDICATOR CIRCUIT FOR SIGNALS BELOW AUDIBILITY

Harry J. Woll, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application May 30, 1945, Serial No. 596,693
4 Claims. (Cl. 177—352)



3. A circuit for providing an indication of a signal which has a frequency below the normal audio range, said circuit including an audio frequency oscillator, an electron tube having at least one auxiliary electrode in addition to a cathode, an anode and a control electrode, connections including a variable resistor for applying the output of said oscillator to said anode and said auxiliary electrode respectively, an amplifier for the signal to be indicated, connections from said amplifier to said control electrode, a capacitor connected across said last mentioned connections for reducing the high frequency response of said amplifier, and a detector for providing an indication of the signal resulting from the change in the flow of space current in said tube.

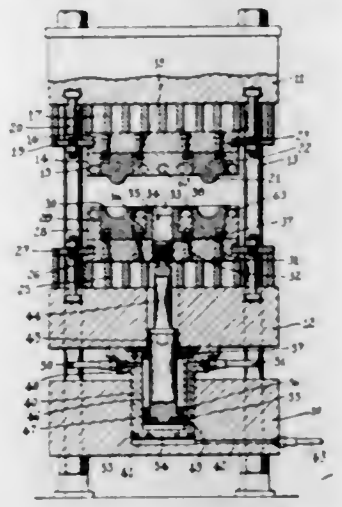
2,420,405

TRANSFER MOLDING PRESS

Alexander L. Alves, Watertown, Conn., assignor to The Watertown Manufacturing Company, Watertown, Conn., a corporation of Connecticut
Application September 4, 1942, Serial No. 457,249
4 Claims. (Cl. 18—30)

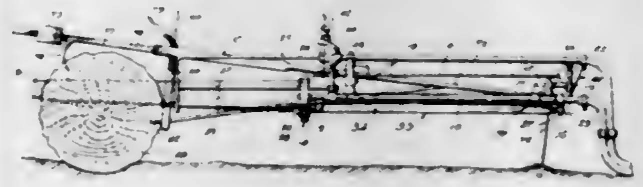
1. In an hydraulic press for molding plastic material under pressure, a pair of cooperating upper and lower mold sections having cavities for shaping the molded product, one of said sections being movable relatively to the other to close the mold cavities, the lower section having a transfer chamber therein extending to the parting line between said sections, a piston fitted into the transfer chamber to close the lower end thereof, and hydraulic ram connected to said piston, a cylinder within which the ram operates, said cylinder being connected to said movable mold section to move the same, an outer cylinder about said first-named cylinder whereby the latter

acts as a ram to move the section to which it is connected, and manually controlled means for independently operating said inner and outer rams.



2,420,406
PULSATOR-TYPE FLUID MOTOR FOR POWER-DRIVEN SAWS

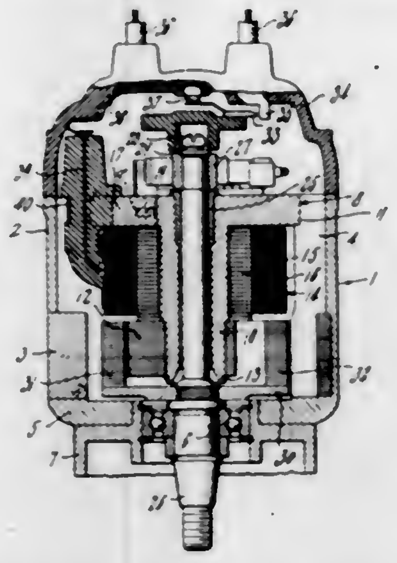
Daly P. Andrews, Benjamin D. Heeger, and Albert P. Smith, Mountain Grove, Mo.; said Smith assignor to William M. Sanders, Mountain Grove, Mo.
Application October 12, 1943, Serial No. 505,970
1 Claim. (Cl. 60—54.5)



A fluid power motor, comprising a piston cylinder, a piston therein having a rod extending from one end, a fluid admission and discharge port at each end of the cylinder, an outwardly opening check valve in communication with and leading from each end of the cylinder at a point inwardly from the adjacent port a distance at least as great as the length of the piston in the cylinder whereby the piston may position between either port and the adjacent check valve, an auxiliary cylinder paralleling the first cylinder and having one end in open connection with one port and having its other end adapted to receive and discharge power fluid, one of said check valves being connected between the cylinders adjacent to the said one end of the auxiliary cylinder, a fluid shunt line connected between the auxiliary cylinder at its other end and the port in the adjacent end of the first cylinder, a closed valve in the shunt line, the other check valve being coupled with the shunt line between the valve in the shunt line and the adjacent port, means for coupling the piston rod with a body to be actuated thereby, a pair of spaced bars extending longitudinally of the piston cylinder, a cross head slidable upon the bars, the piston rod also being attached to the cross head, an actuating rod connected with the shunt line valve and positioned in the path of movement of the cross head with an end disposed to be engaged by the cross head upon movement of the cross head beyond a predetermined position in one direction to effect the opening of the shunt line valve, and spring means operatively coupled with said rod and normally urging movement of the rod in a direction to close the shunt line valve.

2,420,407
HIGH-TENSION MAGNETO

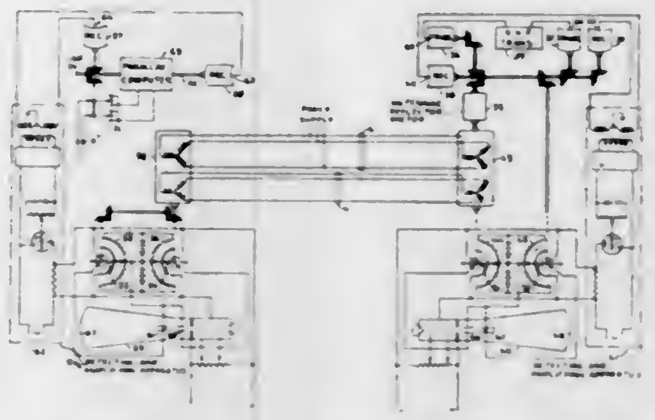
Oscar L. Bachman, Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application May 10, 1944, Serial No. 535,005
10 Claims. (Cl. 171—209)



1. In a high tension magneto of the timer drive type having an outer stator magnetic structure, a drive shaft, a magnetic rotor fastened to the shaft, and a circuit breaker cam fastened to the shaft; and a unitary subassembly which is removable from the drive shaft, the outer stator magnetic structure and magnetic housing and replaceable on said drive shaft, in said outer stator magnetic structure and in said magneto housing as a unit and which comprises an inner stator magnetic structure, a high tension ignition coil which is supported by the inner stator magnetic structure and which has primary and secondary windings, circuit breaker stator elements supported by the inner stator magnetic structure, a high tension conductor electrically connected to the secondary winding, and a low tension conductor electrically connected to the primary winding and to the stator elements of the circuit breaker.

2,420,408
NONOPTICAL RADIOSCOPE RANGEFINDER

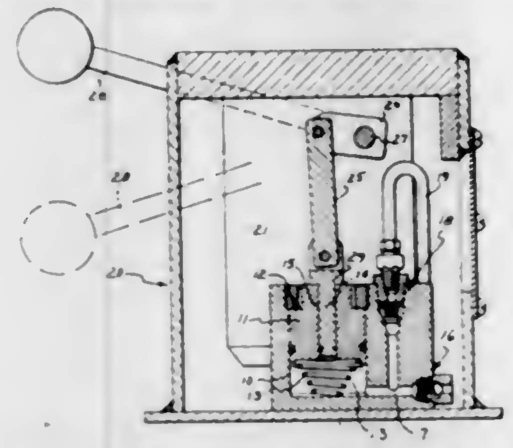
Eric R. Behn, Arlington County, Va.
Application September 29, 1941, Serial No. 412,883
11 Claims. (Cl. 250—1.70)



1. In apparatus for selecting and locating an object in space, first and second directional radiant energy receiving means separated by a predetermined distance, said first receiving means being connected to means synchronized therewith to continually designate the line of sight of a selected object from said first receiving means and means to direct said second receiving means at the same selected object, said directing means including means to cause said second receiving means to scan along said line of sight of the selected object from the first receiving means.

2,420,409
MULTIPLE PRESSURE PUMP

Elbert Litton Bivans, Los Angeles, Paul K. Beemer, Inglewood, and Paul H. Montgomery, Los Angeles, Calif., assignors to Preco Incorporated, a corporation of California
Application May 4, 1943, Serial No. 485,578
2 Claims. (Cl. 103—37)

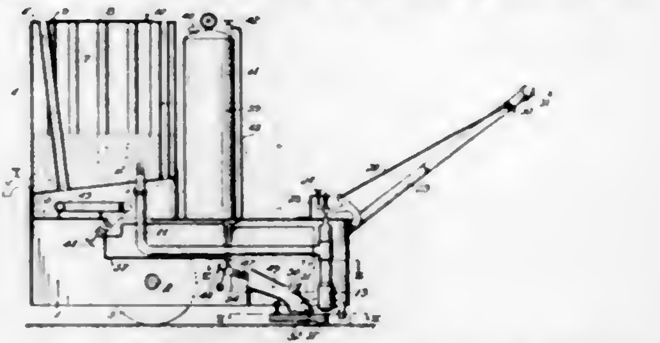


1. In pumps of the type which include primary and secondary reciprocable fluid displacement members each exposed to and acting upon the same pressure fluid between inlet and outlet valves and having inward fluid displacement strokes and outward fluid induction strokes, the primary member being reciprocable independently of the secondary; a selective operating system for the displacement members which includes, a fixed stop which forms a terminal limit to the outward stroke of the secondary member and defines a position from which that member starts its inward stroke, a spring acting on the secondary member tending to move it outward to a position against the limit stop, the secondary member being also held against the limit stop by the fluid pressure on that member, and driving mechanism for the two members including, means for reciprocating the primary member through either of two spatially separated reciprocative movements, and a shoulder associated with the primary reciprocating means and adapted to drivingly engage the secondary member on inward movement only of the primary member to positively drive the secondary member inwardly, the primary member being otherwise free of connection with the secondary member and adapted to be reciprocated independently thereof, and the secondary member being at all times free to move inwardly from its outer stopped position excepting only for the spring pressure and the fluid pressure on it.

2,420,410
PAVEMENT REPAIRING AND THE LIKE

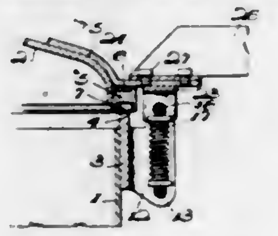
William Blankner, Lakewood, Ohio
Application August 2, 1940, Serial No. 350,042
6 Claims. (Cl. 94—39)

2. The method of sealing cracks in paving or the like, which comprises melting to a liquid condition sealing material which is solid at ordinary atmospheric temperatures, conducting said liquid molten material to a crack to be filled, supplying additional heat to the molten material as it is conducted to the crack, directing heat into the crack and heating the paving at the sides thereof below the plane of the top surface of the paving to a temperature above that at which the molten material will congeal before admitting the molten material to the crack, then pouring the liquid sealing material into the crack, leveling the upper surface of the liquid sealing material substantially to the plane of the top surface of the paving, and permitting the paving and sealing material to cool.



2,420,411
RETORT, TANK, OR LIKE CONTAINER

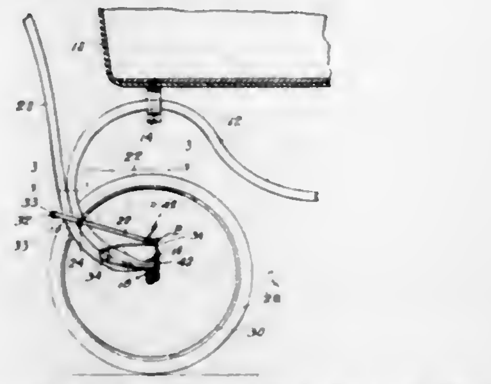
Eugene Augustus Blount, Sr., Athens, Ga.
Application April 12, 1945, Serial No. 588,039
5 Claims. (Cl. 220—36)



1. Apparatus of the class described comprising a container, a cover for said container, means for holding said cover in closed position, means for hinging said cover at the side of said container including a hinge member having a horizontal axis and mounted on said container for vertical movement, means for counterbalancing said cover about said hinge member, and resilient means engaging and lifting said hinge member and with it said cover when the holding means are released.

2,420,412
BRAKE FOR BABY CARRIAGES, STROLLERS, AND THE LIKE

Alban M. Boudreau, Gardner, Mass., assignor to Hedstrom-Union Company, Gardner, Mass., a corporation of Massachusetts
Application February 19, 1946, Serial No. 648,670
5 Claims. (Cl. 188—20)



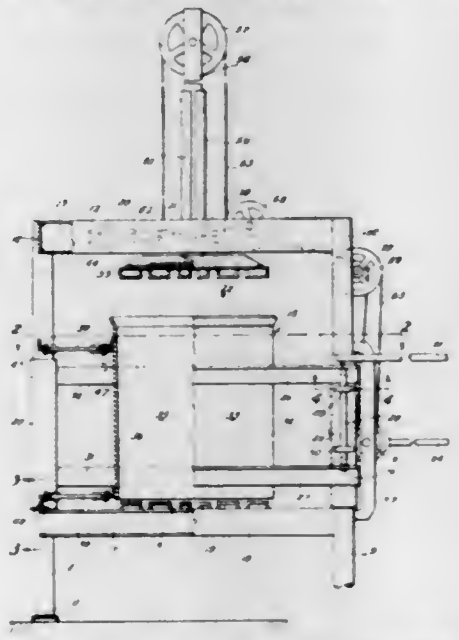
1. In a vehicle having an axle and a pair of wheels thereon, a brake for said wheels comprising a rigid generally U-shaped member, means pivotally supporting said member between the wheels with the bridge of the U above and in general parallelism with said axle, said pivotal support including axially aligned pivots intermediate the ends of the U-legs of said member, and each said U-leg having a foot thereon adjacent

to the periphery of a said wheel, means biasing the U-shaped member about its said pivots and constantly urging said feet toward engagement with the peripheries of said wheels, and means on said axle for releasably holding the U-shaped member against its said bias with the said feet out of engagement with the peripheries of said wheels.

2,420,413

BALING PRESS

James E. Branson, Cincinnati, Ohio, assignor to Jerome D. Shanman, Cincinnati, Ohio
Application July 24, 1945, Serial No. 606,839
6 Claims. (Cl. 100—19)

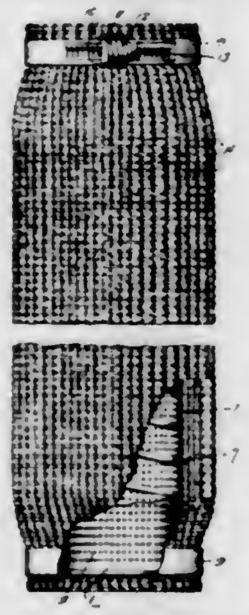


1. In a device of the class described the combination of a rectangular frame having four corner posts, a sectional bale box disposed within the marginal outline of the posts, said box having opposed side and end walls and a bottom positioned subjacent the said walls and fixedly mounted between the posts, a hinge element rotatably mounted in a vertically fixed position on each of a pair of end posts, an arm fixed to each element and carrying a side and an end wall of the box, and means on the opposed pair of end posts for locking the arms in contracted positions.

2,420,414

FILTER CONSTRUCTION

Southwick W. Briggs, Washington, D. C.
Application September 21, 1943, Serial No. 503,262
5 Claims. (Cl. 210—169)

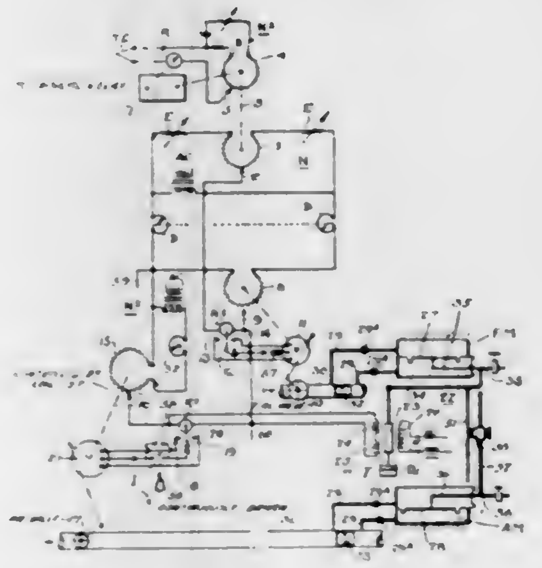


1. A clarifier unit comprising a foraminous tubular member for assembly in a clarifier, a filter element in the form of a tubular body comprising an elongated web of filter material folded to extend back and forth between the inner and outer peripheral surfaces of the tubular body with the folds thereof extending longitudinally of the tubular body, the folds of the web at the inner surface of the tubular body being juxtaposed, and a constrictable annular clamping member adjacent opposite ends of the filter body detachably securing the filter element to the foraminous tubular member about the exterior of the latter.

2,420,415

CONTROL SYSTEM

Edward S. Bristol, Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 17, 1942, Serial No. 462,367
11 Claims. (Cl. 236—15)



1. A system for controlling the magnitude of a condition dependent upon the rates of supply of fluid agents comprising adjustable control members respectively determining the rates of flow of said agents, means for producing a difference of potential related to said magnitude of said condition and to the concurrent positions of said control members, reversible motive means for adjusting said difference of potential and the position of one of said control members in direction to reduce said difference of potential, electro-responsive means subjected to said difference of potential and controlling said motive means, a transformer whose output provides, in addition to said difference of potential, a reversible excitation for said electro-responsive means, and means for reversing the sense of excitation of said electro-responsive means by said transformer in response to departure of a ratio to each other of the rates of flow of said agents from a predetermined magnitude.

2.420.416

METHOD OF PRODUCING SMOKE

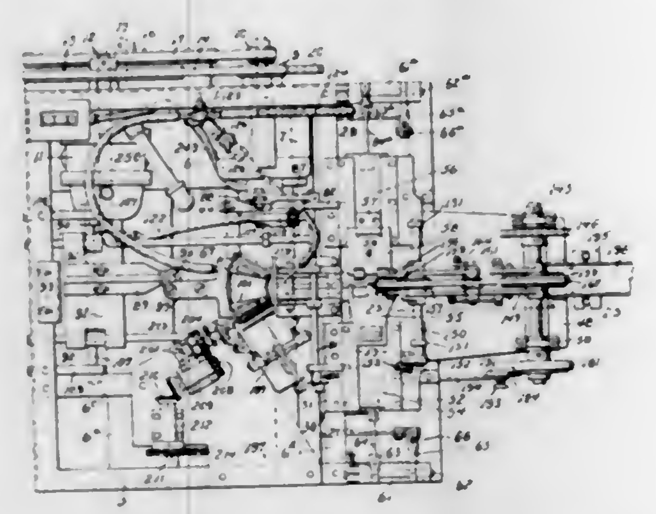
Herbert E. Britt, Los Angeles, Calif.
No Drawing. Application February 20, 1943, Serial No 476.619
4 Claims. (Cl. 252—305)

1. The method of forming smoke consisting in separately vaporizing ethylenediamine and acetic acid and bringing the vaporized ethylenediamine and acetic acid into contact in the atmosphere.

2,420,417

CONE JACKET FORMING MACHINE

Jacob Cutler, Matapan, Mass., assignor to Maryland Baking Company, Inc., Baltimore, Md., a corporation of Maryland
Application July 10, 1943, Serial No. 494,239
6 Claims. (Cl. 93—49)



1. In a jacket forming machine wherein is provided a magazine for stacked blanks, a distant mandrel on which the jackets are formed, and means for folding the blanks about the mandrel and overlapping the sides of the blanks and causing adhesion between the overlapped parts: the improvement which comprises blank folding and seam-lapping and pressing mechanism, said mechanism including a blank lifting and primary folding head for applying a blank to the side of the mandrel opposite that where the lapping takes place and partly folding the blank about the mandrel, and a secondary blank folding and edge lapping means comprising a blade operating against one side of the blank to carry it around the mandrel, and a roller carrying plate operating against the other side of the blank to fold it over the side engaged by the blade and press the folded parts together.

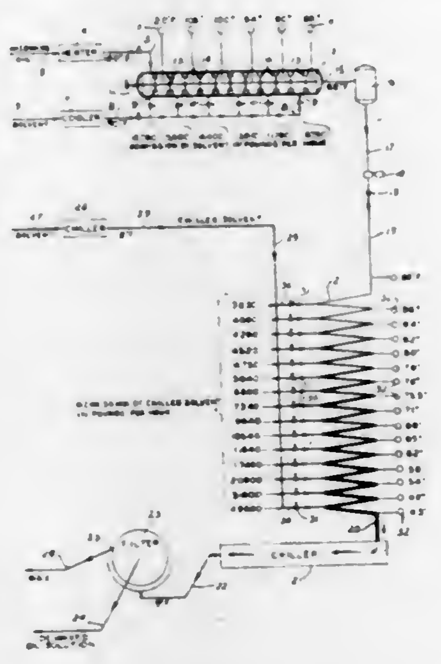
5. In a jacket forming machine: a mandrel having a shank; a support to which said shank is fastened; two opposed slides operating at the sides of the mandrel and movable laterally of the mandrel toward and from the same; a furcated blank folding blade carried by one of said slides for movement across the face of the mandrel; a roller carrying plate carried by the other of said slides and having its rollers positioned to ride over the face of the mandrel between the furcations of the blank folding blade.

2,420,418

APPARATUS FOR DEWAXING OILS

Eddie M. Dons and Oswald G. Mauro, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware
Application November 17, 1944, Serial No. 563,814
2 Claims. (Cl. 196—18)

1. In an apparatus for filtering wax from oils, an elongated blending chamber having an inlet near one end for a heated stream of wax bearing oil, and an outlet near the opposite end, said blending chamber also having a series of intermediate inlets for cooled dewaxing solvent to be mixed with and dissolved in the wax bearing oil, rotary agitators in said blending chamber, a cooling coil communicating with the outlet of said blending chamber to receive the outgoing mixture of solvent and waxy oil, said cooling coil having successive inlets for streams of cooled dewaxing solvent, and separate regulating means for the successive streams, the regulating means being set to progressively increase the rate of admission of said cooled dewaxing solvent, said cooling coil being composed of relatively small pipes having progressively increasing diameters to avoid excessive increases in velocity in response to the addition of solvent streams at said successive inlets, a chiller communicating with the relatively large discharge end of said cooling coil to continue the cooling of the waxy solution, and a filter communicating with said chiller to separate the liquid solution from the wax crystals.



2,420,419

PURIFICATION OF FLUIDS WITH CATION ACTIVE RESINS

James R. Dudley, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 30, 1944, Serial No. 528,769
6 Claims. (Cl. 210—24)

1. A process of removing cations from fluid media which comprises treating a fluid containing cations with a granular water-insoluble composition of matter having a particle size of less than about 8 mesh and comprising the hydrolyzed product of reaction of a mixture including furfural and a mineral acid halide selected from the group consisting of sulfuryl chloride and phosphorus oxychloride, and separating the fluid from the water-insoluble composition of matter.

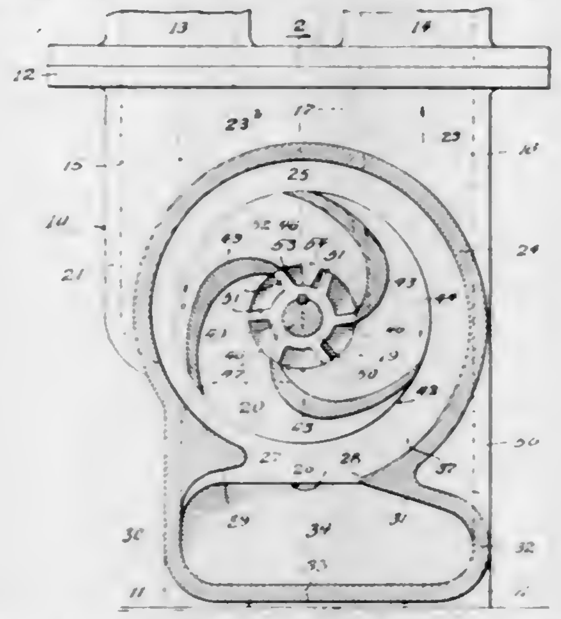
2,420,420

SELF-PRIMING CENTRIFUGAL PUMP

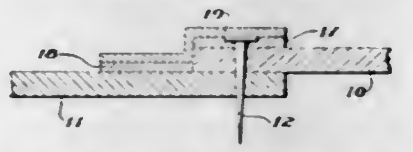
Augustus C. Durdin, Jr., Lincolnwood, Ill.; The Northern Trust Company executor of said Augustus C. Durdin, Jr., deceased
Application October 7, 1943, Serial No. 505,329
10 Claims. (Cl. 103—113)

1. A self priming centrifugal pump comprising in combination a casing having an impeller chamber, a rotary impeller therein, said casing having also an inlet chamber opening to the eye of the impeller and a liquid chamber located wholly below the top of said impeller chamber with only

one communicating opening disposed between the volute of the impeller chamber and said liquid chamber, and a discharge passageway opening to and extending from said liquid chamber.



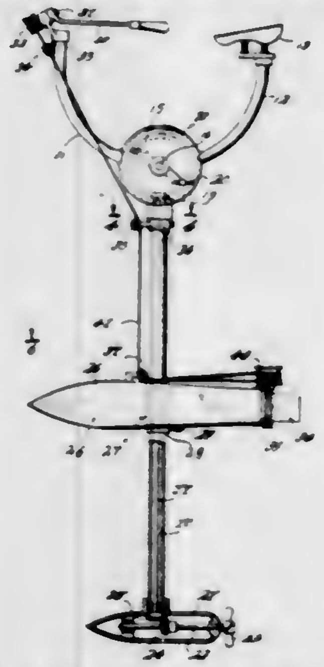
2,420,421
ROOFING OR SURFACING MATERIAL
Sidney Lanier Eason, Charleston, S. C.
Continuation of application Serial No. 449,747, July 4, 1942. This application September 14, 1944, Serial No. 554,076
1 Claim. (Cl. 108—7)



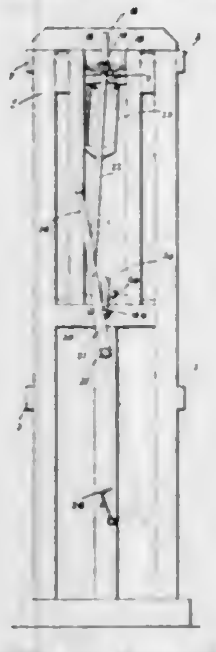
Roofing or surfacing, comprising overlapping sheets of material, strips of material different from the sheets themselves applied to the exposed faces of said sheets, said strips being characterized in that they possess adhesive-cohesive affinity for similar strips or treated surfaces but will not adhere to dissimilar surfaces, the strip on the upper sheet extending longitudinally of said sheet along the marginal edge of said sheet with its outer edge flush with the outer edge of said sheet, the strip on the lower sheet extending longitudinally of said sheet but being inset from the marginal edge of said sheet a distance equal to the distance that the lower sheet is overlapped by the upper sheet so that when the sheets are in overlapped joint-forming relationship the outer edge of the upper sheet abuts the inner edge of said last-named strip, a nail extending through said first-named strip and through the overlapping portions of said sheets, and a cover strip substantially coextensive with said pair of strips and covering the head of said nail, the inner surface of said cover strip having adhesive-cohesive affinity for the outer surfaces of said pair of strips and for the outer edge of the first-named strip and closely contacting said outer surfaces, said outer edge, and the outer edge of the upper sheet which is exposed between said pair of strips to provide therewith a weather-tight joint.

2,420,422
PEDAL-OPERATED AQUATIC VEHICLE
Comillus W. Gilliam, New York, N. Y.
Application April 10, 1946, Serial No. 661,117
3 Claims. (Cl. 115—25)

1. A machine comprising a substantially cylindrical housing having an upwardly extending frame member extending forward therefrom and an upwardly extending member extending rearward therefrom, a saddle on said last-named member, a tube extending downward from said housing, a shaft rotatably mounted in said housing, pedal cranks for rotating said shaft, a vertical shaft rotatably mounted in said tube, a bevel gear on said shaft in said housing, a bevel gear on said vertical shaft engaging said first bevel gear, a housing secured to the lower end of said tube and having a horizontal shaft rotatably mounted therein and extending out of the rear thereof, a propeller on the rear end of said horizontal shaft, a bevel gear on said horizontal shaft and a bevel gear in mesh therewith on the lower end of said vertical shaft, a pontoon slidably mounted on said tube and having a rudder thereon, handle bars pivotally mounted on said first-named member and having a pulley thereon, said pontoon having a winding drum thereon, said drum and said rudder being pivoted to said pontoon on a common axis and being integral with each other, an endless cable wound about said pulley and said drum, and idler pulleys on the machine between said pulley and said drum.

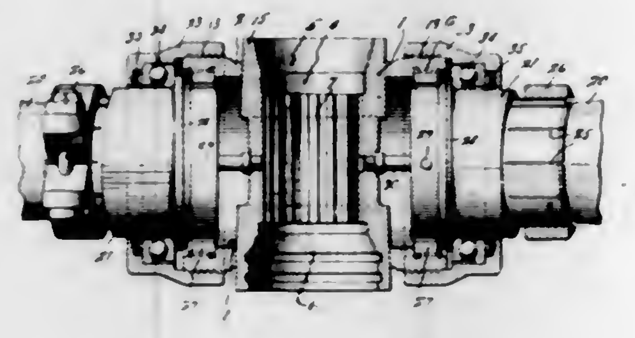


2,420,423
INNER-SPRING UNIT ASSEMBLY MACHINE
Henry T. Groves, Sacramento, Calif.
Application February 29, 1944, Serial No. 524,380
10 Claims. (Cl. 140—3)



1. A jig to facilitate assembling and coupling of initially separate mattress springs, said jig comprising a frame structure, units on said structure to locate and support a pair of rows of initially separate springs in predetermined spaced relation and with the endmost turns of corresponding springs of the rows overlapping, and block units extending along and centrally between the rows of springs and grooved from opposite sides to receive and locate the overlapping portions of the springs, said block units being bored lengthwise to receive and guide a helical spring into coupling relation with the overlapping turns of the springs; said block units being rigid with the spring locating units.

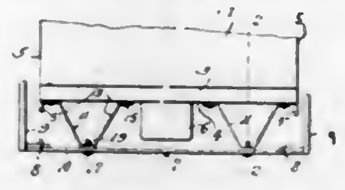
2,420,424
HUB CONSTRUCTION
Paul F. Hackethal, Cockeysville, Md., assignor to Everel Propeller Corporation, Baltimore, Md., a corporation of Maryland
Application February 18, 1942, Serial No. 431,439
2 Claims. (Cl. 170—173)



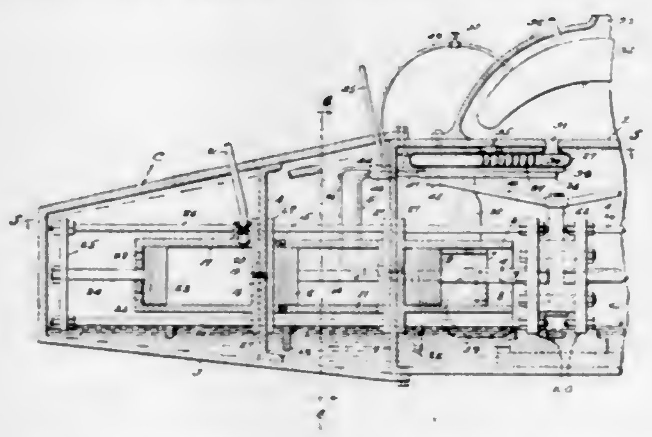
1. A hub for an aircraft automatically variable pitch propeller comprising a unitary tubular blade-mounting member, a blade receiving socket in each end of the member, a blade carrying sleeve rotatively mounted in each socket, ball bearings interposed between the sockets and sleeves to reduce friction and afford free rotation of said sleeves in the sockets, each of said sleeves having a blade receiving bore, the axis of which is inclined to the axis of said socket, a blade in each bore, said blade receiving sockets adapted to contain a lubricant for said bearings to insure free rotation of said sleeves in the sockets under the action of pitch changing forces on the blades during rotation of the propeller, said blade mounting member having axially aligned openings in diametrically opposite walls thereof, a unitary tubular shaft-coupling member inserted through said openings, both of said members having exteriors which are surfaces of revolution about the axis of the respective members, said shaft-coupling member being diametrically reduced externally over that portion of its length defined by the inner walls of the blade-mounting member, and a fused joint between the two members to secure and form said members into an integral unitary hub structure having the desired strength requirements, said joint being completely oil tight and preventing passage of the lubricant between the two members along their lines of juncture to insure the retention of lubricant within said sockets for the lubrication of the bearings during propeller operation.

2,420,425
SPACING BRACKET FOR CRATED STOVES
Christopher L. Hardwick, Cleveland, Tenn.
Application October 11, 1945, Serial No. 621,811
2 Claims. (Cl. 206—46)

1. In combination with a shipping crate, a stove body having a projecting flue on the rear wall thereof, said crate having a rear wall spaced from the rear wall of the stove and from the said flue, substantially V-shaped brackets arranged on either side of said flue, and means on the opposing free ends of the legs and apex of said brackets for securing said brackets to a wall of said stove and a wall of said crate respectively whereby said crate is retained in spaced relation relative to said stove wall and flue.



2,420,426
COMPRESSOR
Herbert W. Harrer, New Washington, Ohio
Application April 30, 1945, Serial No. 590,980
7 Claims. (Cl. 230—56)

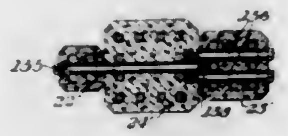


1. In a compressor, an internal combustion power cylinder having a scavenging port, a power piston slidable in the power cylinder, a compression cylinder, a compression piston slidable in the compression cylinder, the compression cylinder having a check valve inlet and a check valve outlet located ahead of the compression piston, and having a check valve inlet disposed behind the compression piston, means for connecting the pistons for movement together, and a third cylinder communicating with the scavenging port, a conduit connection between the third cylinder and the space behind the compression piston, a check valve interposed in the conduit, a piston slidable in the third cylinder and retiring under pressure derived from the conduit connection, and yieldable means for advancing the last specified piston after it has retired, the power piston constituting a closure for the scavenging port during the retirement of the last specified piston.

2,420,427
PRECAST REINFORCED CONCRETE MEMBERS
Albert Henderson, Edgewood, Pa., assignor to William P. Witherow, Pittsburgh, Pa.
Original application May 11, 1945, Serial No. 593,220. Divided and this application June 29, 1945, Serial No. 602,326
5 Claims. (Cl. 72—107)

1. In a building construction comprising a plurality of precast reinforced concrete members of rectangular sections whose widths increase progressively by a uniform increment, spaced longitudinal reinforcing bars embedded in each member adjacent a side thereof, a member of any

width having one more longitudinal reinforcing bar than the next narrower member, and said reinforcing bars being so spaced in their respective members that the bars of a member of any width substantially coincide with the centers of the spaces between the bars of the next wider member, tie means transversely disposed between the bars in a narrower member being secured to at least one of the bars in the next wider member, said narrower and next wider members being assembled in centrally abutting relation to each other.



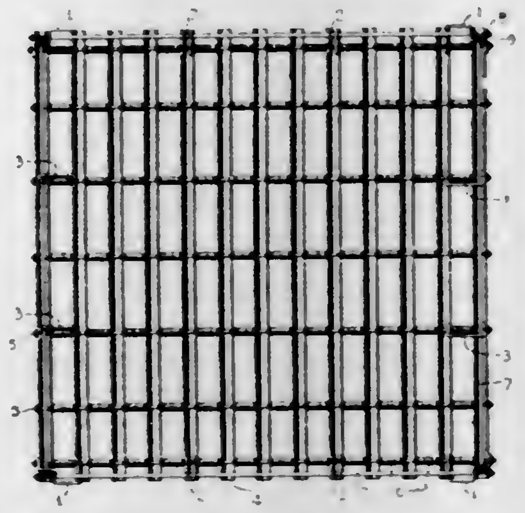
2,420,428

HEAT-TREATING BASKET

Carl H. Hill, Norristown, and Harold I. Schneider, Philadelphia, Pa., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 2, 1944, Serial No. 552,415

13 Claims. (Cl. 263—47)



10. A heat treating basket comprising in combination, a plurality of U-shaped side standards, a plurality of side rods loosely threaded through said standards to form an enclosure, a plurality of parallel channel-shaped bottom bars having the open side upward, a plurality of bottom rods threaded through the side walls of said channel bars, said standards having flange ends disposed alongside the sides of certain of said channel bars, and said bottom rods also being threaded through holes in the ends of said standard flanges, all of said rods having loose-fitting retaining means on their ends.

2,420,429

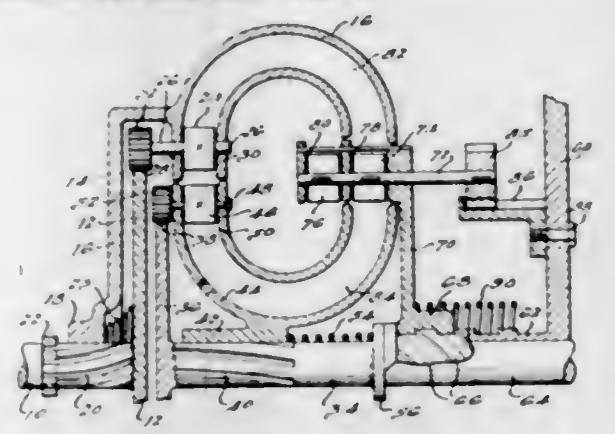
ROTARY HYDRAULIC TORQUE CONVERTER AND FLUID COUPLING

Joseph Jandasek, Highland Park, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 23, 1943, Serial No. 507,364

12 Claims. (Cl. 60—54)

6. In a fluid transmission a driving shaft, a driven shaft, an impeller housing, connecting means between the impeller housing and the driving shaft whereby the impeller housing may shift axially on the driving shaft and oscillate thereon, angularly movable fluid energizing impeller vanes, and motion transmitting means operated by oscillating movement of the impeller housing on the driving shaft to vary the angular position of the impeller vanes.



9. A fluid transmission including retractile guide vanes, and means controlled by retractable movement of the vanes operative to change the angularity thereof.

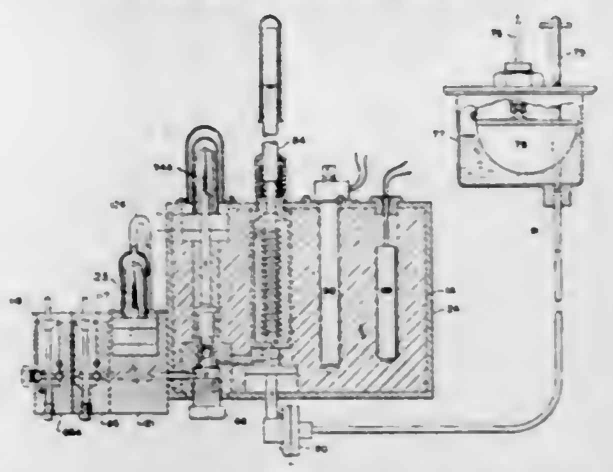
2,420,430

GAS ANALYZER

Clarence Johnson, South Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application May 26, 1943, Serial No. 488,600

4 Claims. (Cl. 23—255)



1. A continuous gas analyzing apparatus containing, in combination, a pair of pressure and flow regulating devices, means for connecting a supply of gas to be analyzed, and air, both under pressure, each to one of said devices, a combustion chamber connecting with and to which the devices discharge and wherein any combustible present in the gas is combined with oxygen from the air supply, a mixing chamber communicating with and to which the combustion chamber discharges, means including a conduit connecting with a source of liquid fuel and the mixing chamber, a vaporizer associated with said conduit for supplying vapor fuel to the said mixing chamber, a detector chamber communicating with and receiving fluid from the mixing chamber and a catalytic detector in said detector chamber and sensitive to the net free oxygen in the gas being analyzed, and a heated block assembly encompassing said vaporizer and said mixing chamber.

2,420,431

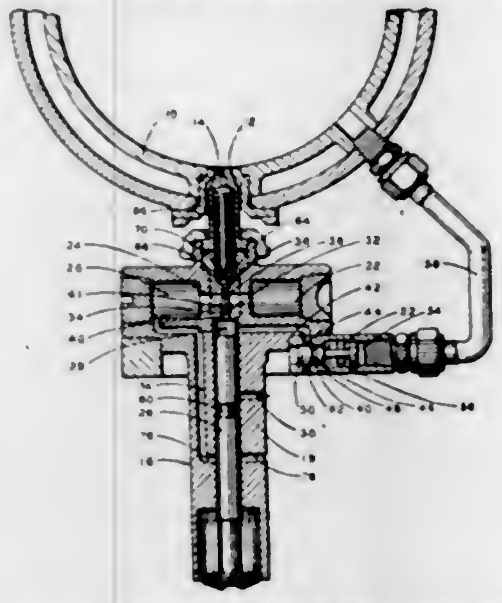
INJECTION TIMING

Andrew Kalitinsky, Eagleville, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application January 28, 1944, Serial No. 520,060

4 Claims. (Cl. 103—41)

1. An accumulator injection device including an accumulator chamber, a valve normally closing the discharge port of the chamber and an injection pump for delivering fuel to said chamber, said valve being movable to open the port by a drop in pressure between the pump and chamber, in combination with pressure responsive means for procuring a drop in pressure between the pump and chamber.



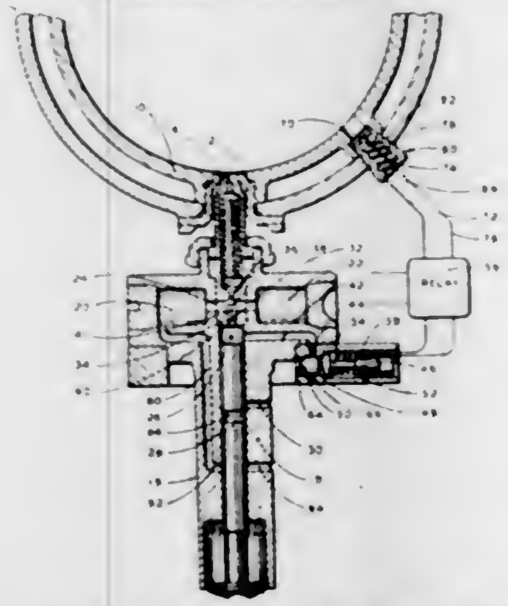
2,420,432

ELECTRICAL INJECTION TIMING

Andrew Kalitinsky, Eagleville, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application January 28, 1944, Serial No. 520,061

3 Claims. (Cl. 103—41)



1. An injection device for an engine including a pump, a chamber into which fuel is forced by the pump, said chamber having inlet and outlet passages communicating with the pump and with the engine cylinder, a valve normally closing the outlet passage, said valve being held closed by pressure of fuel between the pump and chamber, and electrical means for causing a drop in pressure between the pump and chamber for opening said valve.

2,420,433

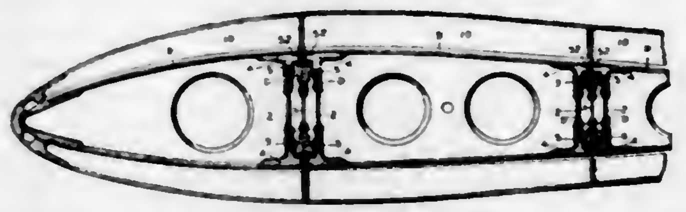
AIRPLANE WING OF VARIABLE AREA CONSTRUCTION

Arnold C. Kraaymes, Orlando, Fla., assignor of one-half to Olive May Kraaymes, Orlando, Fla.

Application January 17, 1946, Serial No. 641,741

8 Claims. (Cl. 244—43)

1. An airfoil construction having a fixed portion comprising a wing envelope structure, web spars extending continuously from bottom to top of said envelope throughout the major portion of its length and forming spanwise extending compartments, a movable wing section comprising separate spanwise box-like portions together forming a spanwise slotted airfoil adapted to be received within said compartments, said box-like sections including oppositely located spanwise extending structural supporting members in each of the several box-like sections, interengaging means between said members and said web spars for guiding said slotted airfoil for sliding movement into and out of the fixed portion, and an integral wing tip common to the slotted airfoil section and holding the said box-like sections in fixed relation.



2,420,434

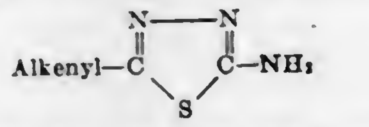
2 - AMINO-5-ALKENYL - 1,3,4 THIADIAZOLES AND PROCESS FOR MAKING THE SAME

Lucas P. Kyrides and Ferdinand B. Zienty, St. Louis, and Robert W. Stephenson, Webster Groves, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 12, 1945, Serial No. 582,411

7 Claims. (Cl. 260—302)

1. 2-amino-5-alkenyl-1,3,4-thiadiazoles of the formula type



in which the alkenyl residue has from 2 to 4 carbon atoms and salts thereof, prepared for use as therapeutic agents and as intermediates for therapeutic agents.

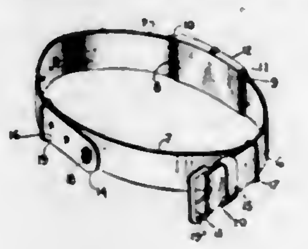
2,420,435

WATCH STRAP

Emil Lackow, Brooklyn, N. Y.

Application September 25, 1945, Serial No. 618,474

5 Claims. (Cl. 224—4)

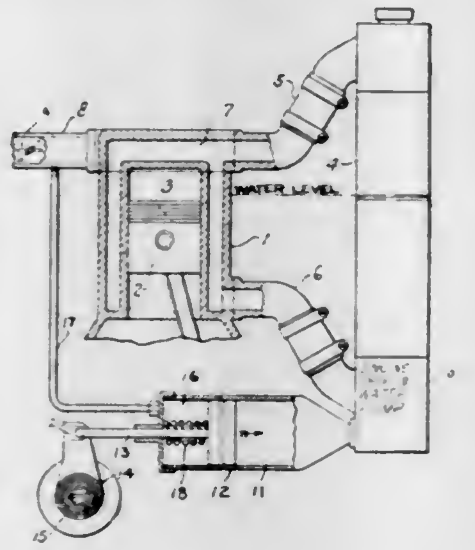


4. In a watch strap, two flexible strap members, holding means at a terminal of each of said mem-

bers for attachment to a wrist watch, the opposite terminal portions of said members being detachably engageable with each other, a flexible connecting member extending between said strap members, loop means attached to the terminals of said connecting member and slidably mounted over said strap members, and stop means in the region of the terminal portions of the strap members for limiting the operative movement of said loop means over the strap members, the stop means at one of the said detachably engageable terminal portions of the strap members comprising a raised ornamental member proportioned for abutment with the loop means on the adjacent terminal of the connecting member.

2,420,436
TEMPERATURE CONTROL FOR INTERNAL-COMBUSTION ENGINES

Marion Mallory, Detroit, Mich.
Application February 6, 1946, Serial No. 645,834
11 Claims. (Cl. 123—178)

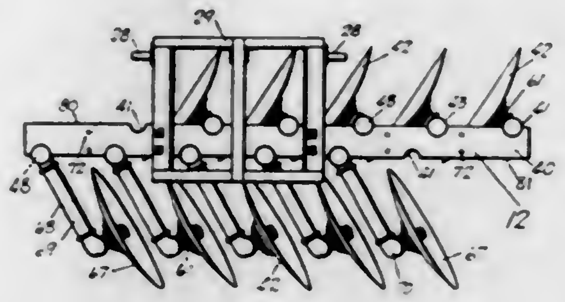


7. In an internal combustion engine having an intake passageway, a throttle valve controlling the flow of motive fluid through said passageway, and a liquid coolant system for said engine, the combination comprising means actuated by changes of pressure in the intake passageway on the engine side of said throttle valve for controlling the operation of said coolant system, said means responding to a fall in pressure in said intake passageway to decrease the cooling effect of said cooling system and responding to a rise in pressure in said intake passageway to increase the cooling effect of said coolant system, and temperature responsive means in heat exchange relation with said engine operatively connected to said pressure actuated means for rendering the pressure actuated means ineffective to further decrease the cooling effect of said coolant system whenever the temperature of the coolant is above a given temperature.

2,420,437
DISK HARROW

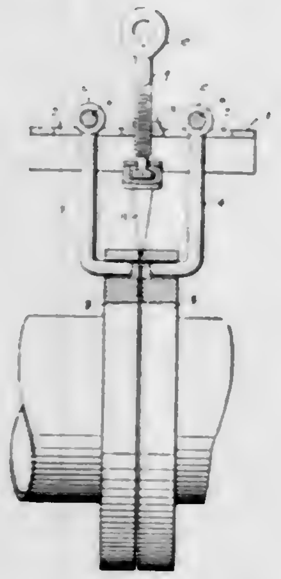
William Frederick McMahon, Riverside, Calif.
Application February 17, 1944, Serial No. 522,809
9 Claims. (Cl. 55—73)

1. In a disk harrow constructed to be pulled by a tractor and having its depth of penetration regulated by a hydraulic lift mechanism made part of said tractor, and comprising a series of front and rear disk blades independently disposed in parallel relationship; a bar comprising a plurality of front and rear sets of semi-circular seats, each seat formed and adapted to the purpose to act as a frictional brake; a plurality of cylindrical disk blade bearing supports seated in said seats; one of said disk blades mounted on each support; means connected with the bar for engaging the said supports and for clamping the same against the said seats; a connection mounted on said bar for connecting the bar with the hydraulic lift mechanism of the tractor.



2,420,438
FLANGE JACK

Marshall M. Morgan, Tyler, Tex.
Application December 30, 1944, Serial No. 570,729
2 Claims. (Cl. 254—100)

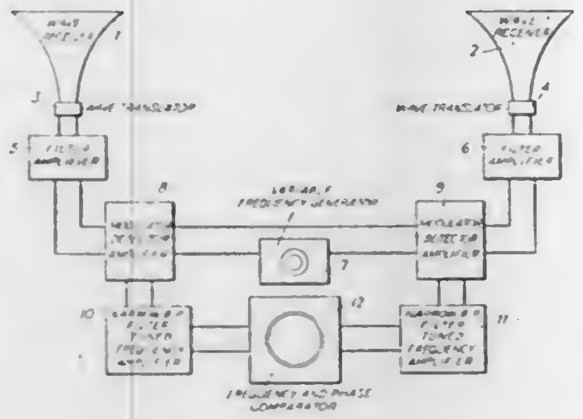


1. A jack for separating the flanges connecting pipes comprising, a wedge adapted to enter the joint between the flanges, a plate having end slots, a jack screw threaded through the plate and having a swivelling connection with the wedge, hooks having inwardly turned ends adapted to enter bolt holes in the flanges and whose other ends extend through said slots, cross rods on the plate supporting said hooks and means for rotating the jack screw.

2,420,439
AIRCRAFT RANGE AND DIRECTION FINDER

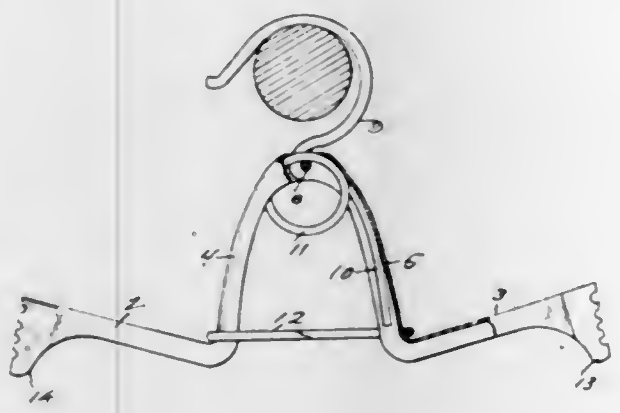
Montford Morrison, Upper Montclair, N. J.
Application November 2, 1943, Serial No. 508,688
3 Claims. (Cl. 177—352)

3. In an apparatus for range-finding of a source of one frequency wave propagation comprising two wave receivers in space relation providing a base-line for range reckoning, a generator of selectable frequency providing heterodyning for each of the outputs of said receivers, a narrow fixed band-pass filter for each of said outputs passing only the heterodyned frequency thereof, and a comparator for said filter outputs providing means conjointly with said base line to reckon the range of said source.



2,420,440
GARMENT HANGER

Clifford H. Nelson, Tujunga, Calif.
Application September 4, 1945, Serial No. 614,382
1 Claim. (Cl. 223—95)

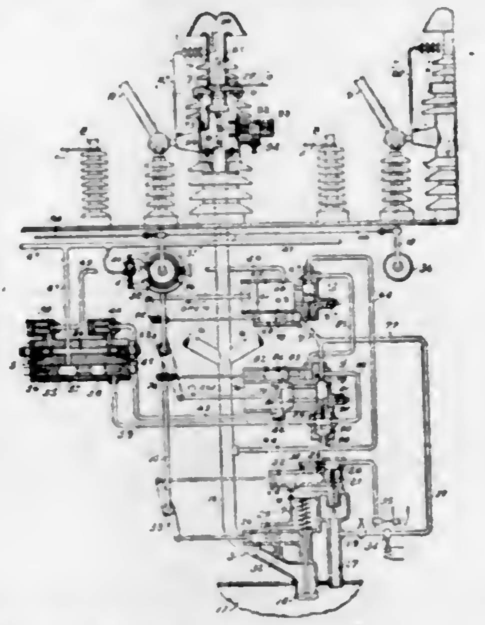


A trouser hanger including a pair of L-shaped right and left side arms with upward extending limbs which converge and are joined by a transverse pivot and which limbs are of inturned, channel form, a spreader spring coil hung on said pivot and having tangential, opposite bars concealed in the upright channel limbs, and the arms including generally horizontal, oppositely extending limbs leading from the base ends of the upright limbs and having at their far ends down turned pairs of cheek parts to hook into the foot ends of a pair of trousers, and means to limit the expansion of the arms about the pivot.

2,420,441
SWITCH OPERATING MECHANISM

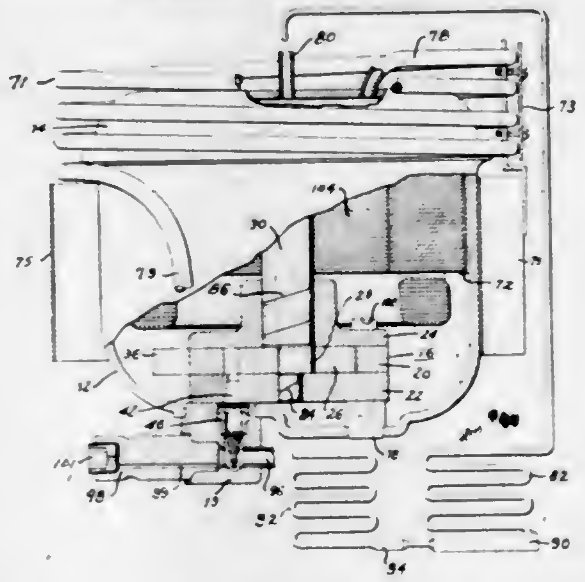
Ira W. Paterson, Milton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 18, 1944, Serial No. 527,027
7 Claims. (Cl. 200—82)

1. An electric switch comprising a pair of relatively movable cooperating contacts, fluid operated motor means for relatively moving said contacts, means for supplying fluid under pressure to said fluid operated motor, a fluid operated brake mechanism of the frictional type for arresting the relative movement of said contacts, and means for supplying said fluid under pressure to said brake mechanism at substantially the same pressure.



2,420,442
SEALED MOTOR COMPRESSOR UNIT FOR REFRIGERATION APPARATUS

Francis I. Rataiczak, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application April 26, 1943, Serial No. 484,543
8 Claims. (Cl. 62—115)



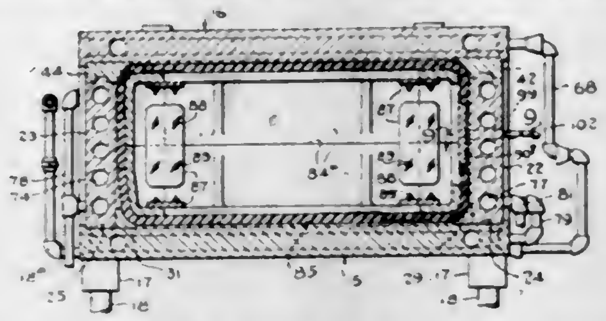
2. In combination, casing means forming a lubricant separating and storage chamber, a compressor within said chamber, a refrigerant superheat removing coil located outside said chamber, outlet means for said compressor for discharging compressed refrigerant into said superheat removing coil, an outlet from said coil discharging the partially cooled refrigerant into said lubricant separating and storage chamber, and an outlet from said chamber through which the compressed refrigerant is discharged.

2,420,443
METHOD AND APPARATUS FOR FORMING HOLLOW OBJECTS

Dietrich G. Rempel, Akron, Ohio
Application May 29, 1944, Serial No. 537,773
7 Claims. (Cl. 18—35)

4. A method of producing hollow articles of the character described having an opening therein, comprising the steps of building one or more

plies of heat-bonding, fluid-pressure impervious material on a collapsible form of predetermined shape and size, building one or more additional plies of heat-bonding material on said form to preform an article substantially closely to the outside shape and size of the finished article, sealing said opening provided in the article against fluid pressure with means provided for admitting pressure fluid to the interior of the article, heat-curing said preformed article in the article-forming cavity of a mold of similarly predetermined shape and size while said pressure fluid is applied directly against the interior wall surface of said article, thereby to press the wall of the article against the surface of said mold cavity and bonding said plies together, relieving said fluid pressure from within said article, removing said article from said mold, and collapsing said form and removing the same from within the article through said opening.



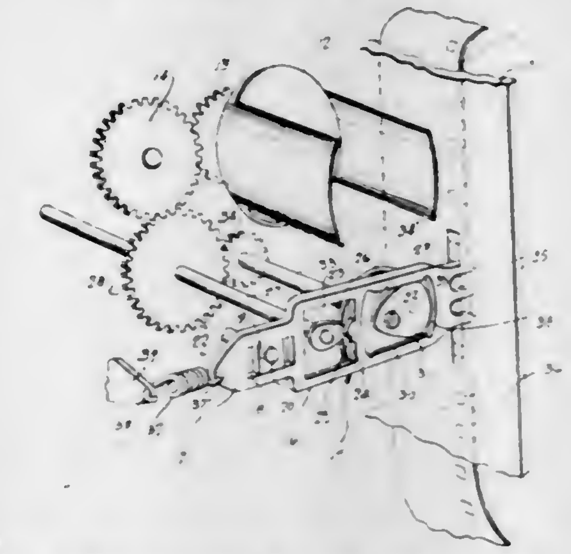
2,420,444

INTERMITTENT MECHANISM

Thomas I. Ress, Chicago, Ill., assignor to De Vry Corporation, Chicago, Ill., a corporation of Illinois

Application August 29, 1944, Serial No. 551,727

5 Claims. (Cl. 88—18.4)



1. In a skip movement for the film of a motion picture projecting machine comprising a reciprocal frame having a cam slot formed therein and an opening adjacent the cam slot, with an edge defining said opening provided with a cam lip extending laterally from said edge into the opening, a cam mounted in the cam slot of said frame, a cam operable in said opening and adapted to intermittently engage with the cam lip for reciprocating said frame in one direction, means for reciprocating said frame in an opposite direction when said cam is disengaged from said cam lip, claw elements provided by said frame and adapted to engage the perforations formed in a film strip, and means for operatively connecting said cams together for synchronized operation with respect to each other.

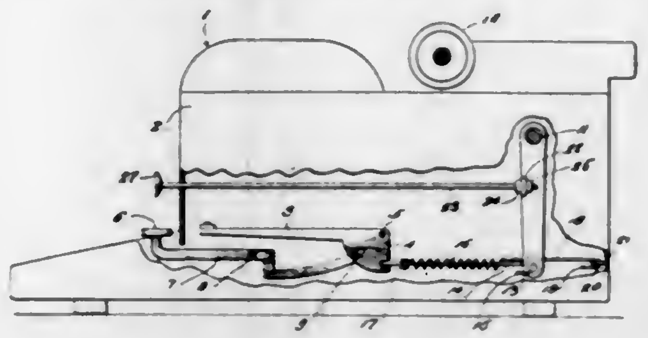
2,420,445

TYPE BAR RELEASING DEVICE FOR TYPEWRITERS

Charles Rizzuto, Brooklyn, N. Y.

Application December 26, 1945, Serial No. 637,172

6 Claims. (Cl. 197—22)



6. In a typewriter, a casing, a platen, type bars mounted for movement towards and away from said platen, key bars pivotally mounted and connected with the type bars for moving the same towards the platen when keys at front ends of the key bars are depressed, arms disposed vertically in said casing and pivotally mounted, a rod carried by said arms, rods extending from the type bars and loosely engaged with said rod, springs yieldably holding the type bars in a normal position, and means for swinging the arms and the rod carried thereby rearwardly and exerting pull upon the type bars to return hung type bars to normal position.

2,420,446

PETROLEUM OIL COMPOSITIONS

Albert G. Rocchini, Aspinwall, and Charles Byron Pattinson, Jr., Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application November 26, 1945, Serial No. 630,984

3 Claims. (Cl. 252—50)

1. A mineral oil composition comprising a major amount of a petroleum lubricating oil and a minor amount of benzaldehyde phenylhydrazone sufficient to retard halogenation of said petroleum lubricating oil.

2,420,447

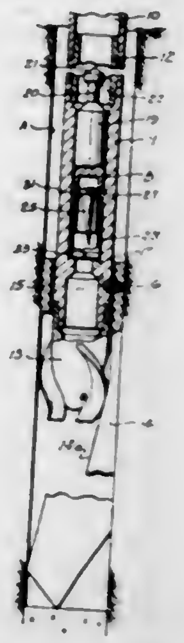
ORIENTING APPARATUS

Charles H. Schadel, Houston, Tex., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California

Original application November 23, 1942, Serial No. 466,708. Divided and this application August 28, 1944, Serial No. 551,568

2 Claims. (Cl. 255—1.6)

1. An orienting apparatus for a deflecting tool to be oriented including, a drill pipe, a deflecting tool connected to the lower end of said pipe, an inclination indicating instrument adapted to be removably supported in the drill pipe, said instrument comprising an upper tubular section, a lower tubular section telescoping the upper section, an impression record element closing the lower end of the lower section, marking means responsive to gravity mounted in the upper section and normally spaced from said record element and arranged to move into engagement therewith to mark the element to indicate the low side of the well bore when the sections are further telescoped toward each other, the sections being moved toward each other to perform the marking operation by the imposition of a downward jar on the upper end of the instrument, and a marking projection within the drill stem for engaging and marking the underside of the record element, said projection supporting said instrument within the drill pipe and being representative of the position or direction of the deflecting tool, whereby said mark may be correlated with the mark on the upper surface of the element to locate the azimuthal position of said tool.



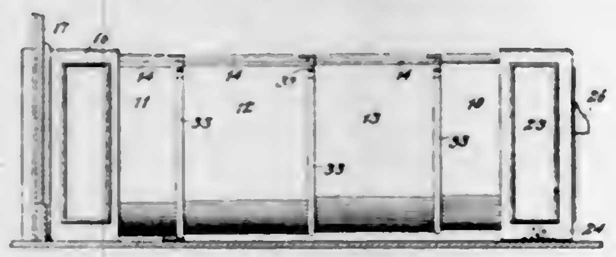
2,420,448

TELESCOPIC BATHTUB

John A. H. Siers, Jersey City, N. J.

Application January 9, 1945, Serial No. 572,010

8 Claims. (Cl. 4—175)



1. A telescopic bath tub comprising a plurality of tub sections of similar cross-sectional form relatively slidable to open and closed position, coacting means on adjacent sections preventing relative angular displacement thereof with respect to the path of sliding movement and manually adjustable means carried by certain of said tub sections for locking the adjacent slidably engaged sections in extended position and establishing water-tight joints therebetween.

2,420,449

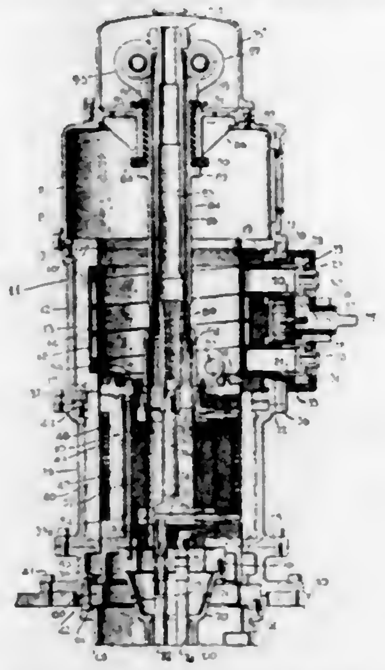
SWITCHING DEVICE

Howard E. Somes, Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 6, 1944, Serial No. 538,975

3 Claims. (Cl. 171—119)

1. In an electrical switching device, concentric inner and outer transformer windings circumferentially spaced from each other, an annular casing surrounding and supporting said outer winding, a support for said inner winding, circumferentially spaced inner and outer concentric contactors electrically connected with the opposite ends of said inner winding and coaxially supported by said support at one side thereof, means for moving said support coaxially of said outer winding to move said inner winding out of and into coupled relation with said outer winding, inner and outer concentric conductors insulated from each other, and means supporting said conductors in axial alignment with said support at said one side thereof, said inner and outer contactors in the coupled position of said inner winding being in overlapping electrical engagement with said inner and outer conductors respectively and being so disposed with respect to said conductors as to disengage therefrom upon movement of said inner winding out of coupled relation with said outer winding and to engage therewith upon initial movement of said inner winding into said coupled relation.



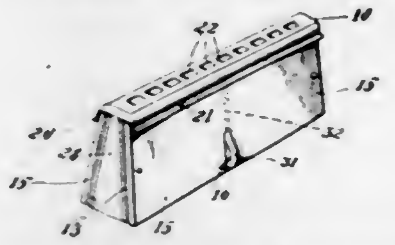
2,420,450

HARMONICA

Fred Sonnen, Newark, N. J.

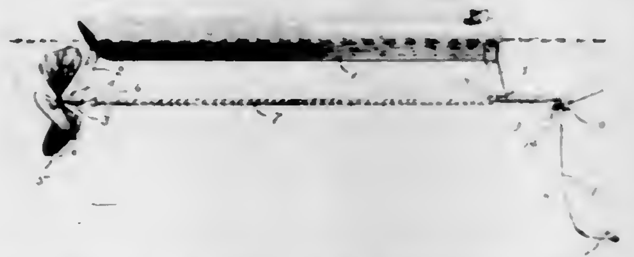
Application May 14, 1943, Serial No. 486,955

1 Claim. (Cl. 84—377)



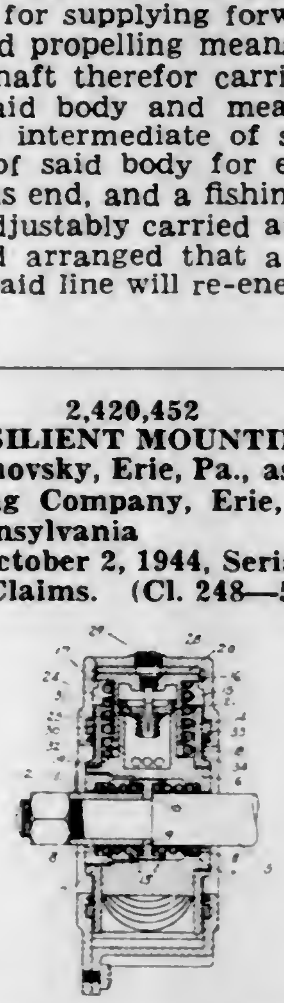
A harmonica, comprising a mouthpiece having equal uniformly disposed openings formed therein, a bar extending across said openings and separating them into uncovered portions and portions closed by said bar, a slide having openings formed therein, said slide being transversely movable in said mouthpiece, a sound-box below said slide, said mouthpiece and said slide forming an air chamber therebetween, two reed plates having reed slots formed therein and each located on opposite sides of said sound-box, said sound-box having openings formed therein in alinement with said reeds and in communication therewith, covers located on each of said reed plates and connected with said mouthpiece, said covers having a plurality of inner air chambers in communication with said mouthpiece air chamber, each of said cover air channels being alined with a pair of said reed slots and in communication therewith, reeds mounted on opposite sides of each of said reed plates and in said reed slots and in each pair of reed slots one of said reeds being connected to one side of one of said reed plates and the other of said reeds being connected to the opposite side of said reed plate, said reeds being connected with said reed plates at their lower ends and their upper and vibrating ends being situated adjacent said air chamber, a leaf spring extending through and intermediate the ends of one of said covers and having an end connected with said slide, whereby said slide is reciprocally movable transversely to the direction of said bar, and resilient means connected to the other of said covers and pressing against said slide.

2,420,451
FISH LURE
Joseph L. Spenard, Duluth, Minn.
Application June 28, 1943, Serial No. 492,635
3 Claims. (Cl. 43—43)



3. A troller of the type described having a buoyant body portion and self-propelling means to be energized for supplying forward motion to said troller: said propelling means comprising a propeller and shaft therefor carried at the forward end of said body and means comprising an elastic band intermediate of said shaft and the stern end of said body for energizing said propelling means end, and a fishing line depending from and adjustably carried at said stern, so constructed and arranged that a sudden backward stress on said line will re-energize said propelling means.

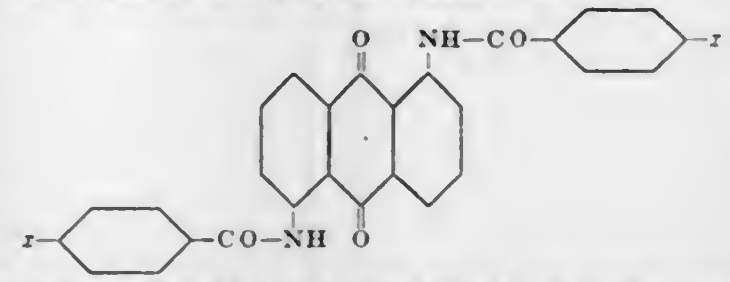
2,420,452
RESILIENT MOUNTING
Nikita B. Strachovsky, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application October 2, 1944, Serial No. 556,759
6 Claims. (Cl. 248—5)



1. In a resilient mounting, a hub having circumferentially spaced radially projecting pistons, cylinders telescoped over the outer ends of the pistons, compression springs operating between the pistons and cylinders, a fluid filled casing enclosing the cylinders and having guides permitting circumferential sliding of the cylinders relative to the casing, said casing providing a closed circuit for the fluid displaced by relative movement of the cylinders and pistons, and a restricted port in said circuit.

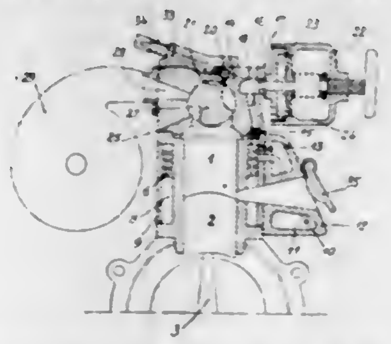
2,420,453
ACYLAMINO-ANTHRAQUINONE VAT DYESTUFFS
Paul Sutter, Binningen, and Walter Kern, Sissach, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland, a Swiss firm
No Drawing. Application January 23, 1945, Serial No. 574,207. In Switzerland January 12, 1944
3 Claims. (Cl. 260—377)

1. A vat dyestuff of the general formula



wherein *x* stands for a member of the group consisting of chlorine and bromine.

2,420,454
TWO-CYCLE ENGINE
Edmond Pierre Robert Viel, Paris, France
Application August 10, 1945, Serial No. 610,060
8 Claims. (Cl. 123—69)

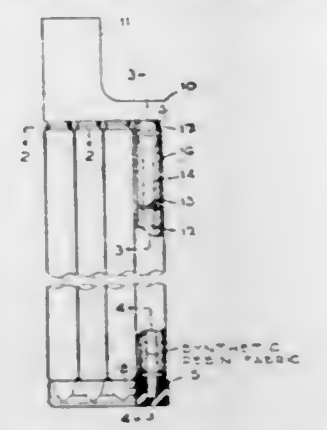


5. A two-cycle engine comprising a rotary tap with two opposite cells mounted in a recess provided in the cylinder head and in communication with the cylinder, two conducts ending in said recess and in communication respectively, with an air compressor and with the outlet end of a circuit formed by a series of chambers and canals in direct contact with the warm walls of the cylinder, a pump supplying a fuel to the inlet end of said circuit, a regulator pressure device in communication with said circuit and with a return pipe for the fuel, a needle valve controlling the conduct for the admission of fuel in said recess and means driving in rotation said rotary tap from said driving shaft of the engine.

2,420,455
PROCESS OF PREPARING POLYAMIDE PHOTOGRAPHIC EMULSIONS
William W. Watkins, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 21, 1944, Serial No. 532,215
1 Claim. (Cl. 95—7)

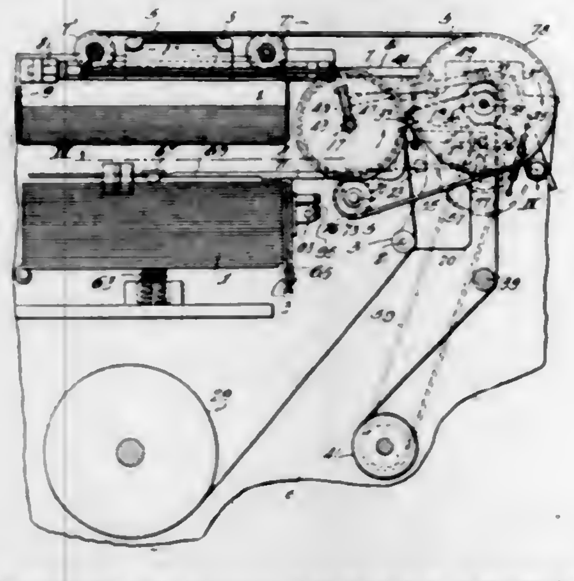
The process which comprises incorporating a water soluble silver salt in an aqueous-alkanol solution of 1 to 3 carbon atoms containing a water-sensitive polyamide having only carbon and nitrogen atoms in the polymer chain, admixing an aqueous solution of a water soluble halide digesting the resulting emulsion at a temperature of 80° C. for several hours, casting the emulsion into films, washing said films, redissolving aforesaid films in an aqueous-alkanol solution and coating said solution onto a support, said polyamide being insoluble in water at 20° C. but soluble to the extent of at least 10% by weight at 60° C. in an ethanol-water solution composed of 80% ethanol and 20% water but insoluble in such a solution composed of 80% water and 20% ethanol.

2,420,456
FABRIC ENVELOPE FOR STORAGE BATTERY PLATES
Curtice Chandler White, Johnsville, Pa., assignor to The Electric Storage Battery Company, a corporation of New Jersey
Application April 29, 1943, Serial No. 484,949
11 Claims. (Cl. 136—55)



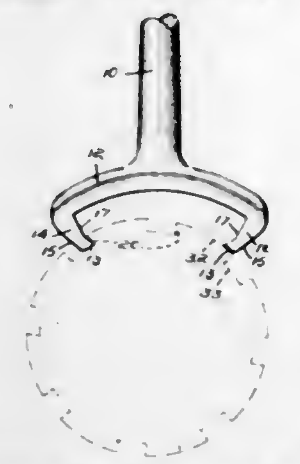
11. In a storage battery plate, the combination of a conducting member, active material or material to become active on said conducting member, and a fabric envelope composed of initially molecularly oriented and mutually unattached threads of synthetic resin resistant to the powerful oxidizing and electrochemical reactions in a storage battery, said envelope inclosing said conducting member and said material thereon and shrunken to grip said material firmly and provide a retainer of reduced porosity therefor.

2,420,457
FACSIMILE RECORDER
Charles J. Young, Ardmore, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 20. 1941, Serial No. 379,820
8 Claims. (Cl. 234—68)



7. Facsimile scanning apparatus comprising a scanning device having a helical scanning element and a presser bar, means operative to support and drive said helical element at a relatively high speed for scanning a record receiving medium in substantially linear paths, friction means frictionally to engage the record receiving medium to feed it between the helical member and the bar, said friction means serving to support said record receiving medium, said helical element rotating at a rapid speed whereby to keep said record receiving medium in a tangential relationship with the helical scanning element at the cooperating edge of the presser bar.

2,420,458
SPANNER WRENCH
Clifford H. Barker, Boston, Mass.
Application January 14, 1944, Serial No. 518,264
1 Claim. (Cl. 81—90)



A spanner wrench for turning any hose coupling in a range of varying types and sizes, these being hose couplings each of which has a smoothly circular peripheral surface, but with sunken lugs of Navy slot type in the range of one and a half inches to four inches nominal sizes or with exterior eminence lugs of pin, roll pin, rocker or Slidewell type, said sunken lugs being radial side walls of superficial slots that are spaced regularly around said peripheral smooth surface separated by lands of arcuate length exceeding the slot-width; said wrench being the combination of a handle, a quadrant bar and two prong-lugs which extend from the ends of the quadrant approximately radially toward the axis of the quadrant—characterized by this, that each prong has a radial length exceeding the height of every eminence lug of the couplings which are in the said range; each prong embodying in the said radial length a claw-lug, being an acute-angled-edged terminal toe of the prong, salient toward the other prong for engaging a sunken lug of a hose coupling, a plane-surfaced shank facing said other prong, and a radial recess in said plane and salient surfaces having breadth adapted to engage an eminence lug of a hose coupling; the back side of the prong having a surface converging with said plane of the face side and extending behind the claw-lug; the end surface of the prong, being the outer side of said salient, comprising a straight sequence of two parallel-sided oblongs, separated by the said radial recess, these oblongs being thin enough to enter the smallest size of slot in Navy slotted couplings in said range; combined with this, that the length of the span between the two toes is such as exceeds the total arcuate dimension of one land plus one groove, in every sunken lug coupling in said range of sizes, except the largest size of those couplings, and is less than the total arcuate dimension of two lands plus their intervening groove in the smallest of those couplings; whereby, when the wrench is applied to any coupling in said range, either of the said claw-lugs can operatively engage any lug of that coupling, and the other prong, to act as a fulcrum, can engage on a peripheral surface thereof and will always avoid becoming cramped in any slot thereof.

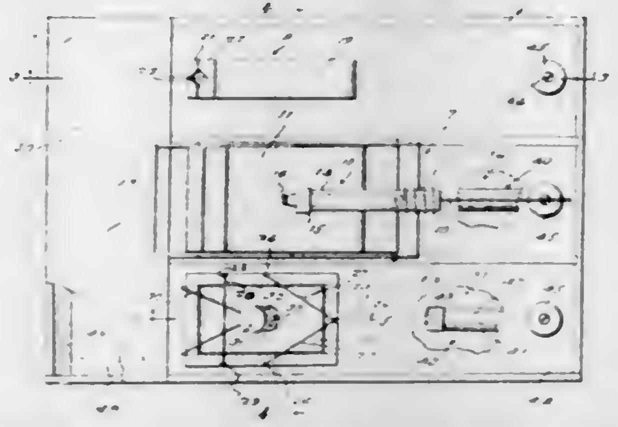
2,420,459

HOME-STYLE CIGARETTE MAKING DEVICE

Joseph H. Blanchard, Chicago, Ill.

Application February 9, 1944, Serial No. 521,675

4 Claims. (Cl. 131—20)



1. In a portable hand-type cigarette roller and maker of the class described, a flat bottom rectangular box including a hollow base forming a relatively shallow tray, said tray being partitioned and providing a plurality of open top selectively usable compartments, said compartments being adapted to be charged with cigarette tobacco, a removable self-contained humidifier in each compartment, removable, substantially duplicate covers for the open tops of the respective compartments, said covers being all in the same horizontal plane and interchangeable from one compartment to the other, and individual selectively and sequentially usable cigarette-making devices, there being one device fixedly mounted on the top of each cover and said devices being disposed in side-by-side relationship to expedite and facilitate the making of cigarettes.

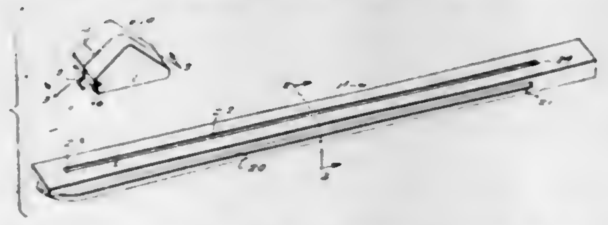
2,420,460

CARTON DIVIDER

Fairbanks C. Bowdoin and Homer L. Medlock, Phoenix, Ariz.

Application February 1, 1945, Serial No. 575,632

1 Claim. (Cl. 164—73)



In a severing tool for sheets and cartons, a knife member, a guide member having a horizontal slot, open at one end, adapted to receive a sheet of material to be cut, a vertical cutter guiding slot terminating at spaced distances from both ends of said guide and extending entirely through the portion of the guide member above said horizontal slot and only partly through the portion of the guide member below said horizontal slot, said last named portion of the guide constituting thereby a shield and guide for the cutting edge of the knife member, said knife element comprising a runner slidable upon the top surface of the guide member and having guiding means for positioning the runner upon the guide member, a slot in said runner, aligned with said vertical slot and terminating in a rear wall, inclined to the lower surface of said runner and the plane of said horizontal slot, a knife blade mounted in said slot with its cutting edge at a predetermined angle to the plane of the slot, and depending from said runner through the vertical slot above the horizontal slot and into the vertical slot below the horizontal slot, an end portion of said knife blade abutting said rear wall, and releasable means securing said blade in said runner.

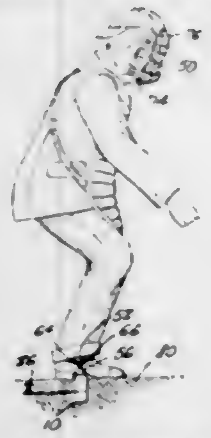
2,420,461

LOUD-SPEAKER ANNOUNCING SYSTEM

Charles H. Capp, Philadelphia, Pa.

Application September 29, 1943, Serial No. 504,308

5 Claims. (Cl. 179—1)



1. In a system of the type described a brace removeably attachable to a shoe of a person comprising adjustable straps engageable under the instep of the shoe and about the arch and heel, contacts carried by the brace adapted to contact electrical terminals, a member engageable with the shank structure of the shoe, plate elements pivotally connected with said member, and removable attaching straps secured to said plate elements, said plate elements electrically connecting the electrical terminals with said contacts.

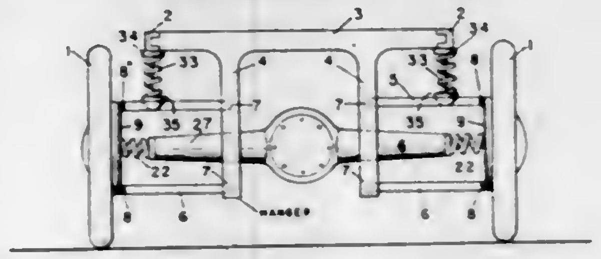
2,420,462

KNEE ACTION REAR WHEEL SUSPENSION

James J. Carr, Raleigh, N. C.

Application March 7, 1945, Serial No. 581,464

1 Claim. (Cl. 280—124)



A wheel mount for vehicles including a frame, a brake plate having upper and lower ears attached thereto, a pair of vertically dependant hangers attached to the frame, an upper arm pivotally mounted upon each of the hangers and each normally extending horizontally to a pivotal connection with the upper ear, like lower arms likewise mounted and connected to the lower ear and compression springs mounted between the upper arms and the frame.

2,420,463

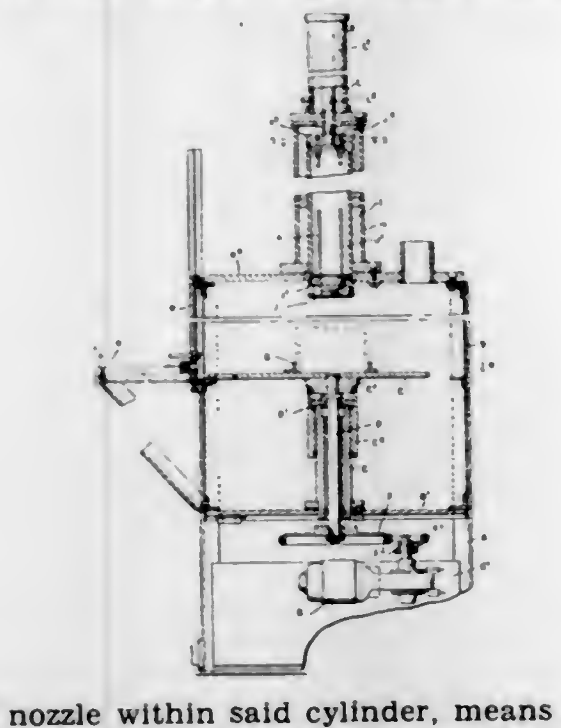
APPARATUS FOR WASHING CYLINDERS

Anthony F. Cassin, Detroit, Mich., assignor to Auto City Plating Co., Detroit, Mich., a corporation of Michigan

Application December 10, 1945, Serial No. 633,924

3 Claims. (Cl. 51—15)

1. A machine for cleaning cylinders comprising a casing provided with a door on one side thereof, a revoluble table within said casing, a shelf outside said casing at substantially the level of said table adapted to support a cylinder to be cleaned and to facilitate the transfer of the same to and from said table when said door is open, a laterally directed blast nozzle centrally above said table and cylinder, means for vertically reciprocating said nozzle within said cylinder, means for supplying air and liquid to said nozzle during its reciprocation, and means for simultaneously revolving the table whereby the blast is successively directed against all portions of the inner surface of said cylinder.



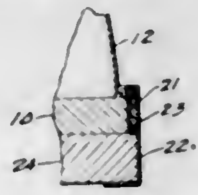
2,420,464

SHOEMAKING

Anthony Cocozella, Lynn, Mass.

Application December 29, 1945, Serial No. 638,017

2 Claims. (Cl. 12—142)



1. The process of making platform shoes, which includes the steps of stitching the marginal edge of an upper directly to a platform sole about $\frac{3}{16}$ of an inch in thickness, attaching one edge of a binding strip to the said sole by stitches passing through the margin of the upper and the sole itself, locating on the outer face of the said sole a midsole of at least the same thickness as the already attached sole, the midsole terminating in a beveled portion at its rear edge, attaching the midsole with its beveled portion adjacent to the ball line of the platform sole so that the beveled portion will be incorporated in the shank of the finished shoe, trimming the edges of both soles so that they present an unbroken peripheral surface, and then wrapping the binding strip about the edge of the combined soles throughout the forepart of the shoe.

2,420,465

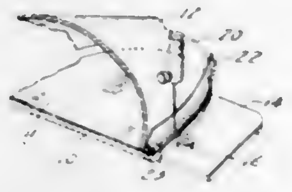
SHOEMAKING

Anthony Cocozella, Lynn, Mass.

Application January 30, 1946, Serial No. 644,289

2 Claims. (Cl. 12—142)

2. The process of making platform shoes, which includes the steps of attaching the out-turned margin of an upper and one edge of a binding strip by stitching to the top face of a laminated platform sole comprising a cork composition layer and a fabric sock lining cemented in face-to-face contact thereto, then forcing a last into the partially formed shoe, and subsequently wrapping the binding strip, on the last, about the edge of the upper and platform sole and cementing its unstitched edge to the bottom of the said platform sole.



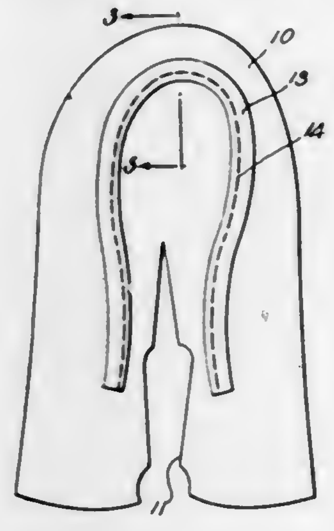
2,420,466

WELTED MOCCASIN AND METHOD OF MAKING IT

Joseph A. Cordeau, Portland, Maine

Application April 24, 1946, Serial No. 664,613

3 Claims. (Cl. 36—11)



2. The process of making moccasin-type shoes which includes the steps of providing a moccasin blank having the outline of a full length vamp including the sole area of the shoe and having a slot extending inwardly from its rear edge into its shank portion, attaching a welt to the surface of the blank in flat condition and in a sole-shaped pattern with each of the rear ends of the welt spaced between the said slot and its corresponding side edge of the blank, stitching the sides of the slot together and thereby drawing inwardly the welt in the shank portion of the shoe, then lasting the composite blank thus formed and thereby bending the margins of the blank upwardly and away from the welt, and sewing an outsole to the welt.

2,420,467

SELF-SYNCHRONOUSLY CONTROLLED INDUCTION MOTOR FOLLOW-UP APPARATUS

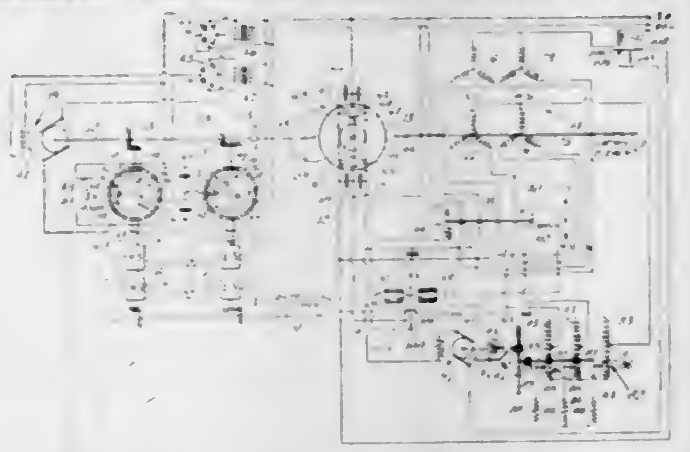
Arthur P. Davis, Stamford, Conn., and George Agins, Brooklyn, N. Y., assignors to Arma Corporation, Brooklyn, N. Y., a corporation of New York

Application February 10, 1939. Serial No. 255,752

21 Claims. (Cl. 172—239)

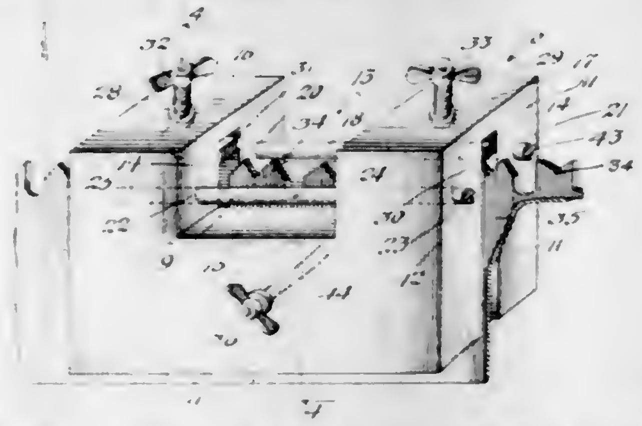
1. In a system for controlling a controlled element with a controlling element, the combination of a driving motor for said controlled element, a reversing switch for controlling said motor and jointly operated thereby and by said controlling

element, and an autotransformer actuated in accordance with the movement of said motor for controlling the resistance in the circuits of the said motor.



2,420,468
SAW-TOOTH GAGE AND JOINTER

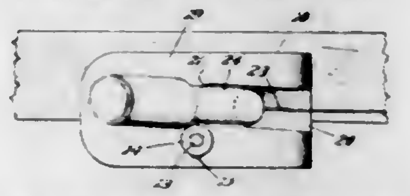
Stuard De Walt, Leavenworth, Kans.
Application June 15, 1945, Serial No. 599,659
6 Claims. (Cl. 76—46)



4. The described device comprising a block having a longitudinal kerf and an intermediate cut out, a pair of vertically slidable blocks in the kerf beyond each side of the cut out, and rollers crossing the cut out and having their ends bearing within the walls of the block.

2,420,469
KNIFE GAUGE

Sundel Doniger, New York, N. Y.
Application January 12, 1945, Serial No. 572,524
6 Claims. (Cl. 30—293)

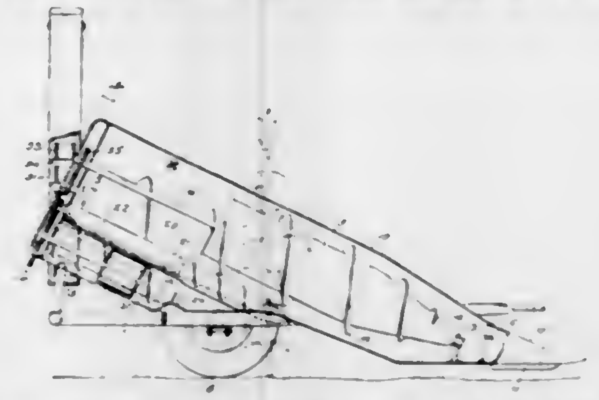


1. A tool of the character described comprising a body having an underside for engagement with the face of material to be cut, a guide on said underside for engagement with an edge of said material, and said body having a blade slot open at the top, bottom and one end of the body for a knife blade, said slot sloping from its open end longitudinally away from the guide at a predetermined fixed angle.

2,420,470
CORN HARVESTER

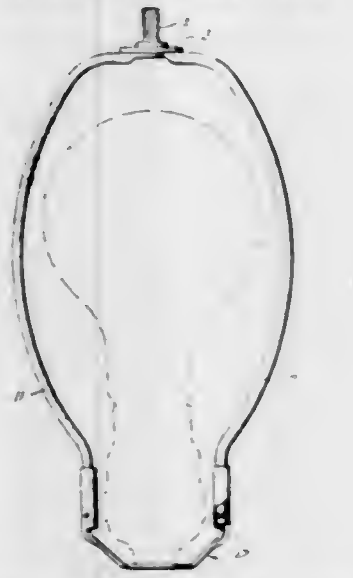
Irvin E. Dorschner, Spirit Lake, Iowa
Application October 12, 1944, Serial No. 558,353
3 Claims. (Cl. 56—18)

1. In a corn harvesting machine, a wheel supported frame, a downwardly inclined housing embodying spaced parallel elongated worm feed housings, the inner longitudinal sides of said housings being open, spaced parallel feed worms operating within the housings, longitudinally thereof the feed worms extending through the open sides of the housings and adapted to contact corn stalks therebetween and feed the corn stalks rearwardly, one of said feed worms being of a length less than the length of the adjacent feed worm, providing a space at the rear end of the feed worms whereby the corn stalks are directed downwardly, snapping rollers mounted at the rear ends of the feed worms, directly thereunder, said snapping rollers adapted to snap ears of corn from the corn stalks, husking rollers adapted to receive the ears of corn from the snapping rollers, removing the husks from the ears of corn, means for feeding the husked ears of corn from the machine including an endless conveyor onto which the ears of corn are delivered, and means including a blower adapted to direct a blast of air through the machine, removing the husks from the machine.



2,420,471
SWIVEL HARP FOR LAMP SHADES

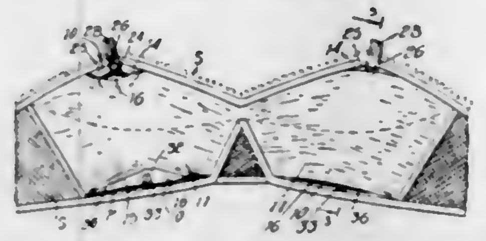
David Engel, Bloomfield, N. J., assignor of one-fourth to Domenico Caimi and one-fourth to Agostino Caimi, both of Philadelphia, Pa.
Application September 15, 1945, Serial No. 616,514
3 Claims. (Cl. 240—148)



1. A swivel harp comprising a mounting plate, spaced resilient sockets carried by said mounting plate for receiving the leg members of the harp, leg members having their ends demountably received in said resilient sockets, detent means formed in the wall of each resilient socket, a recess formed in each leg member for cooperation with the detent carried by said leg members, and means carried by the ends of said leg members for cooperating with said detents to spread said resilient sockets during mounting and dismounting operations.

2,420,472
BRASSIÈRE

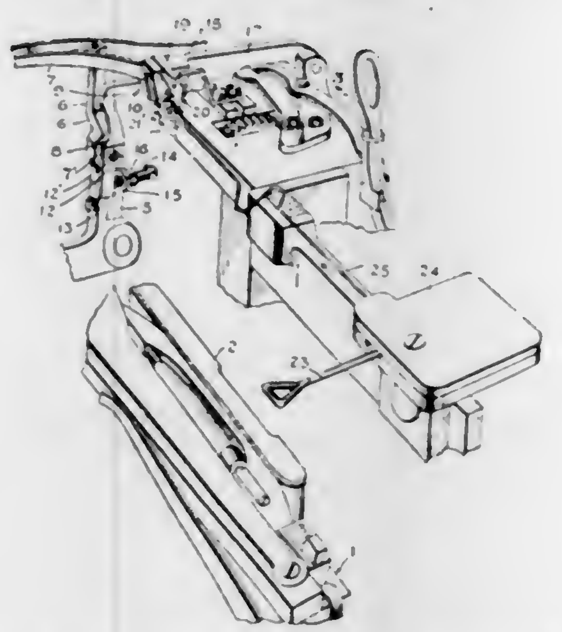
Ruth Freedman, New York, N. Y.
Application August 22, 1944, Serial No. 550,545
2 Claims. (Cl. 2—42)



1. In a brassière, a supporting body having spaced pockets comprising front and rear partly separable walls defining spaced lower gaps, form fitting normally distended pads removably inserted between said walls through said lower gaps for distending said front walls; each of said pads having inner and outer substantially cone shaped members, a padding interposed between said members, and a substantially cone shaped resilient diaphragm nested between said members and against said padding, said walls defining spaced upper openings, flaps secured to the upper portion of said front walls and removably projectible into said openings, buttons carried by said flaps, loops at the upper parts of said pads for removably interlocking with said buttons, loop means secured to the lower portions of said front walls and removably projectible in said gaps, and button means secured to lower portions of said pads for removably interlocking with said loop means.

2,420,473
FEELER CONTROLLED FILLING REPLENISHING MECHANISM

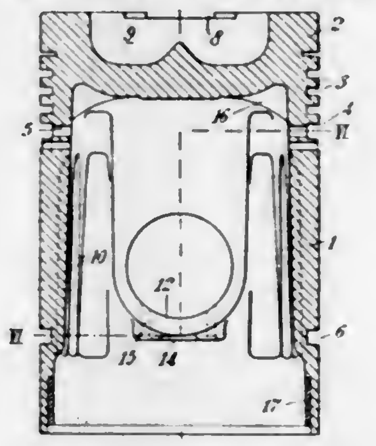
Saint Julian Geddings, West Columbia, S. C.
Application April 11, 1946, Serial No. 661,438
4 Claims. (Cl. 139—243)



1. In an automatic filling replenishing loom, replenishing mechanism including a slide, a contact part moveably mounted upon the slide and having a jaw, a moveable weft hammer, an upstanding adjustable arm provided near its upper end with a dog having a jaw, a pivot element connecting the arm and weft hammer at a point between the ends of the arm, an adjusting bolt carried by the weft hammer and engaging the adjustable arm beneath the pivot, and filler feeling means to move the contact element and shift the jaw of the same into the path of travel of the jaw of the dog.

2,420,474
PISTON

Eric Bradley Graham, North Finchley, London, England, assignor to Specialloid Limited, London, England
Application September 22, 1944, Serial No. 555,320
In Great Britain July 19, 1943
2 Claims. (Cl. 309—9)



1. A piston furnished with a plurality of ribs extending generally in the direction of the axis of the piston constituting two groups which are entirely localised in the portions of the skirt between the gudgeon pin bosses, characterised in this that the thickness of the ribs and the depth of the ribs decreases from a position adjacent to the head of the piston in a direction towards the lower extremity of the skirt and, extending from each of the gudgeon pin bosses to the interior of the head of the piston, a rib which substantially throughout its length is at least the same width as the external diameter of the gudgeon pin boss.

2,420,475
FRICTION COMPOSITION AND METHOD OF PREPARING THE SAME

Herbert H. Greger and Southwick W. Briggs, Washington, D. C.
No Drawing. Application January 10, 1942, Serial No. 426,358
2 Claims. (Cl. 106—36)

1. An artificially integrated and shaped friction material comprised of an insoluble and nonporous substance comprising by weight asbestos from about 30–80 percent and the reaction product of from about 20–50 percent of a mixture of aluminum sulphate and a calcium phosphate in molecular proportions of from about 10–30 percent barium carbonate.

2,420,476
FROTH-FLOTATION CONCENTRATION OF SYLVITE FROM SYLVINITE ORES

Ernest W. Greene, Lakeland, and Joe R. Sherertz, Bartow, Fla., and Allen T. Cole, Cartersville, Ga., assignors to Minerals Separation North American Corporation, New York, N. Y., a corporation of Maryland
No Drawing. Application June 13, 1944, Serial No. 540,128
4 Claims. (Cl. 241—20)

1. The method of concentrating sylvite, in the form of a mixture of the finer and coarser particles, from sylvinite ore by froth-floation treatments, which comprises crushing the ore sufficiently to substantially liberate the sylvite in a mixture of the finer and coarser particles of the ore; first subjecting said mixture of the finer and coarser particles of sylvinite ore, in a pulp made with a saturated aqueous solution of the ore, to froth-flotation treatment in the presence of an

aliphatic amine containing a straight chain alkyl group of from 7 to 18 carbon atoms in an amount effective to produce a froth product containing most of the sylvite particles finer than about 65-mesh; and then subjecting the residue of the original ore pulp, in a pulp made with a saturated aqueous solution of the ore, to froth-flotation treatment in the presence of an aliphatic amine containing a straight chain alkyl group of from 7 to 18 carbon atoms and an oil immiscible in water in amounts effective to produce a froth product containing most of the coarser sylvite particles; and combining said froth products; thereby producing entirely by froth-flotation treatments a sylvite concentrate which is a mixture of the finer and the coarser sylvite particles in the sylvinite ore.

2,420,477

PRODUCTION OF BUTADIENE BY METHOD OF DEHYDRATION

William J. Hale, Midland, Mich., and Harry Miller, Columbia, Mo., assignors, by direct and mesne assignments, to National Agrol Company, Inc., Washington, D. C., a corporation of Delaware

No Drawing. Application November 12, 1942, Serial No. 465,391

6 Claims. (Cl. 260—681)

3. The method of preparing butadiene which comprises reacting acetaldehyde diethyl acetal, vinyl ethyl ether and ethylene at a temperature between 185° C. and 195° C. in the presence of a catalyst comprising a core of a metal selected from the group consisting of beryllium, magnesium, zinc, cadmium, aluminum, and alloys thereof, said core being coated with a partially reduced oxide of a metal from family A of groups V and VI of the periodic system at a temperature between approximately 185–195° C.

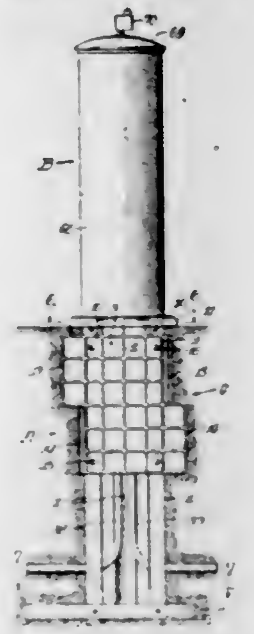
2,420,478

UNDERGROUND CABLE DISTRIBUTING UNIT

Walter C. Hasselhorn and Roy M. Schultz, Chicago, Ill., assignors to Cook Electric Company, Chicago, Ill., a corporation of Illinois

Application July 20, 1942, Serial No. 451,590

34 Claims. (Cl. 174—60)



3. An underground cable distributing unit comprising an underground frame structure adapted for underground anchorage to receive one or more cables that extend upwardly therethrough, a housing to provide a terminal compartment above the ground, a frame for said housing, a distributing panel for said frame disposed within said housing, terminals on said panel to receive the wires of said cables extending upwardly through said underground frame structure, a plate carried by and secured to said underground frame structure, replaceable frangible connections between said plate and said frame, means to receive and secure said frame in upright position upon said plate, said plate having a receptacle-formed portion provided with openings through which said cables pass, and a compound for said receptacle-formed portion to provide a moistureproof dam between said underground structure and said terminal compartment and to seal said cables in said openings.

14. An underground cable distributing unit comprising a lower section adapted to provide underground anchorage and to receive one or more underground cables that extend upwardly therethrough and an upper section having a distributing terminal structure accessible above the ground to receive the wire of said underground cables, gripper side plates for said lower section, and laterally formed wings on said gripper side plates, said side plates and said wings being provided with irregular surfaces to grip the earth said wings projecting beyond said gripper side plates to prevent the sinking or the tipping of said lower section.

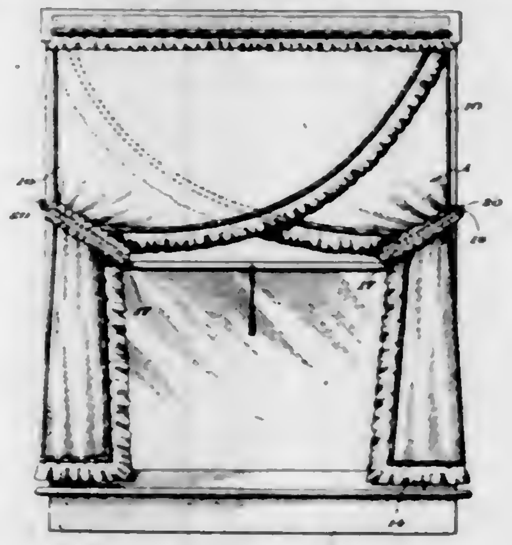
2,420,479

CURTAIN

Nell S. Hicks, Atlanta, Ga.

Application September 20, 1944, Serial No. 554,950

2 Claims. (Cl. 160—349)



1. A structure of the kind described, comprising a curtain section having a casing built therewith intermediate the ends thereof, a tie-back having a ruffled portion an eye at one end of said ruffled portion for detachable fastening to a support, and an extension at the other end of the ruffled portion of the tie-back and removably trained through the casing, and having an eye at its outer end for engaging said support.

2,420,480

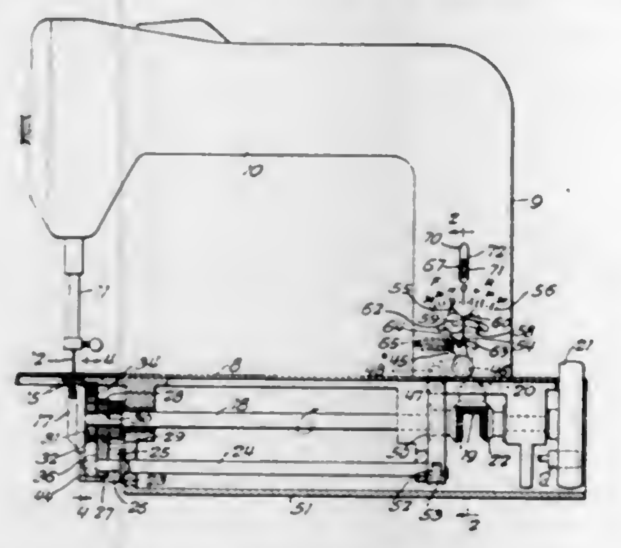
STITCH REGULATING AND REVERSING MECHANISM FOR SEWING MACHINES

Matthew G. Ivandick, Rockford, Ill., assignor to Free Sewing Machine Co., Rockford, Ill., a corporation of Illinois

Application July 20, 1944, Serial No. 545,778

15 Claims. (Cl. 112—210)

1. In a sewing machine including a driven shaft and a rotary hook driven thereby for co-operation with a needle in the forming of stitch loops, a stitch regulating and reversing mechanism comprising a pair of eccentrics driven by said shaft, a rotatably adjustable diametrically grooved cross-head in spaced relation to the eccentrics, an arm reciprocable by one of said eccentrics carrying a follower pin slidable in the groove of said cross-head, an elongated member reciprocable up and down by the other eccentric and adapted to operate cloth feed dogs accordingly, a pair of substantially parallel arms pivotally mounted in spaced relation adjacent the ends of said elongated member and loosely pivotally connected therewith and adapted to transmit back and forth motion to said member in the oscillation of said parallel arms, and means connected to said follower pin to oscillate said arms.



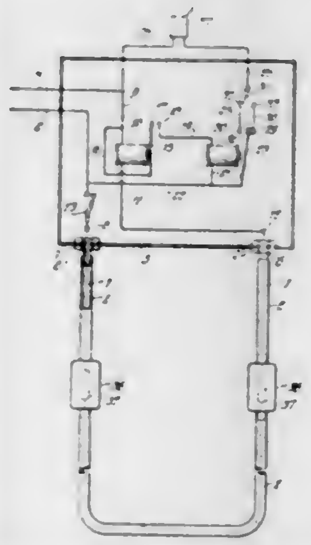
2,420,481

FUSIBLE FIRE ALARM

Frank W. Jackson and Harry M. Nacey, Chicago, Ill.

Application November 6, 1944, Serial No. 562,060

3 Claims. (Cl. 200—143)



1. In a fire alarm system, several lengths of fusible electrical conductors electrically connected together by connectors to form a continuous electrical conductor adapted to extend through a protected premises, said lengths of electrical conductors each having a fusible tube thereon composed of fusible non-conducting material, and enclosures for said connectors one at each connector and secured to the adjacent ends of the tubes, said continuous electrical conductor forming part of a relay circuit for controlling an alarm.

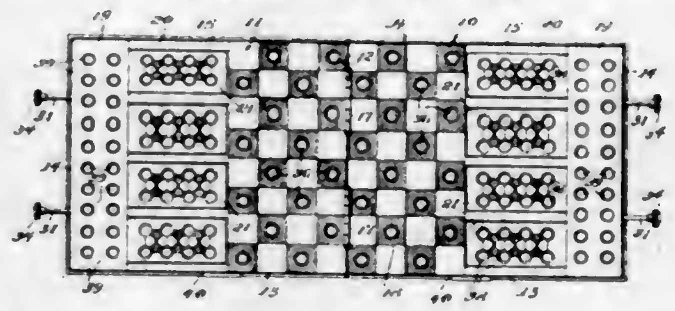
2,420,482

INVASION CHECKERS

John J. Janik, Niagara Falls, N. Y.

Application November 27, 1944, Serial No. 565,318

2 Claims. (Cl. 273—136)



1. A game apparatus of the kind described, comprising a pair of box-like sections, means connected to corresponding portions of said box-like sections for swingingly connecting the same to each other, each of said box-like sections having its outer surface divided into a playing field portion and bridge portion, each said playing field portion and bridge portion having game-piece receiving recesses therein, each said bridge portions having a plurality of depressible trap doors, latch means for releasably latching the trap doors closed, and manually-operable means located in each of said box-like sections for actuating the latch means in the other of said box-like sections, to unlatch the depressible trap doors in said other of said box-like sections.

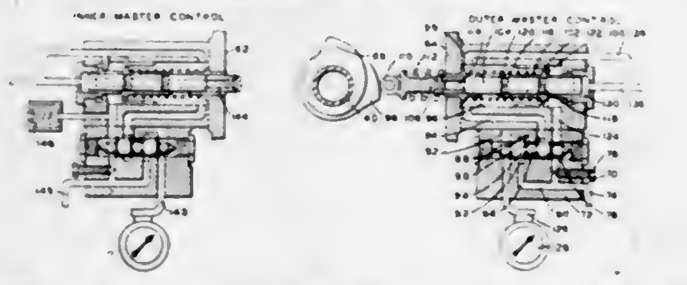
2,420,483

INDICATOR FOR FREE-PISTON UNITS

Andrew Kalitinsky, Eagleville, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application August 23, 1944, Serial No. 550,883

15 Claims. (Cl. 123—46)



13. A free-piston unit having a cylinder, and a piston reciprocating in the cylinder, in combination with means for indicating an end position of the piston stroke, said means including a piston, a calibrated spring urging said piston in one direction, means for admitting fluid under pressure for urging the piston in a direction to oppose the spring, and a plunger movable in response to movement of the first-mentioned piston, and slidable within said second piston, said plunger having means adapted to be uncovered by said second piston for spilling fluid acting on the piston.

2,420,484

COMBINATION LOCK

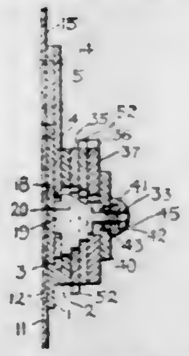
Sophie S. Karavia, New York, N. Y.

Application April 10, 1945, Serial No. 587,490

7 Claims. (Cl. 70—312)

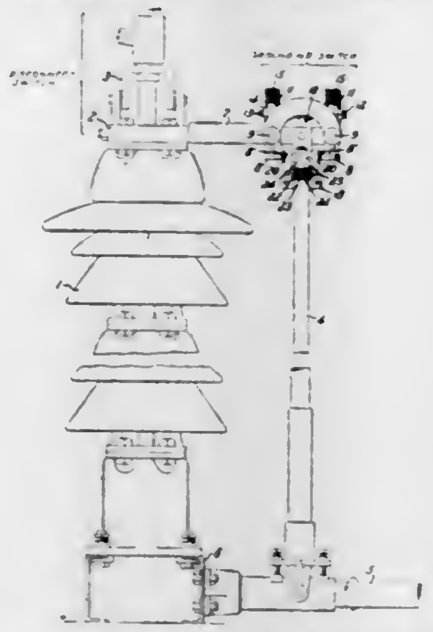
1. A combination lock comprising a base plate arranged to be attached to the wall of a container; a raised member on the base plate with a slot extending from one side for a keeper, the keeper being provided with a slot; a post extending from the middle portion of the raised member, the post comprising cylindrical portions of pro-

gressively decreasing diameters, separated by shoulders; a plurality of rotary locking discs having central circular openings of progressively decreasing diameters corresponding to the diameters of the cylindrical portions of the central post; the central post having an axial longitudinal slot extending through the raised member; a locking bar slidably fitted in the slot and having an extension at the inner end for engaging the slot in the keeper when the locking bar is moved inwards; a disc attached to the outer end of the post for retaining the rotary discs; the locking bar having a plurality of shoulders having radial distances from the axis of the locking bar corresponding to the radii of the central openings in the rotary discs, the locking bar being thereby retained in its operative position when moved inwards by the discs engaging by their inner edges of the central openings the next larger shoulders on the locking bar, the rotary discs having slots extending from the central openings for admitting the underlying inward shoulders thereby releasing the locking bar for moving outwards when the slots in the discs are registering with the locking bar.



2,420,485
ELECTRICAL SWITCH WITH KINETIC ENERGY DISSIPATING MEANS

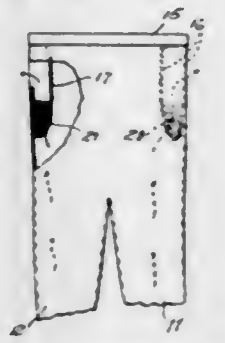
Samuel H. Kast, Greensburg, Pa., assignor to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Delaware
Application August 5, 1942, Serial No. 453,711
10 Claims. (Cl. 200—162)



1. In an electrical switch, a blade pivotally supported for angular movement in opposite directions for switch closing and switch opening movements respectively, contact means at the outer end of the blade, a jaw contact for engagement by said blade contact means and including opposed relatively movable contact elements having elongated contact surfaces substantially parallel to each other and to a line parallel to the arcuate path of the blade contact means as it enters the jaw contact, elongated pivot means supporting at least one of said contact elements for rocking movement about an axis parallel to said contact surfaces, spring means urging said contact elements towards each other to exert a substantial pressure upon the blade contact means as it moves into and along the jaw contact, and means limiting the relative rocking movement of said contact elements to determine the minimum spacing of said contact surfaces upon movement of blade contact means out of the jaw contact.

2,420,486
GARMENT

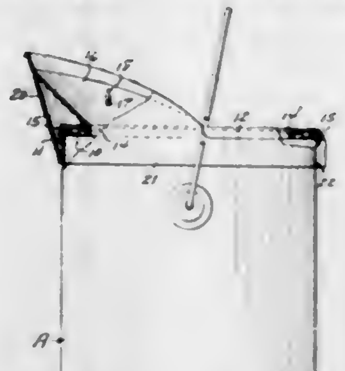
Joseph W. Lewis, Jr., New York, N. Y.
Application December 22, 1944, Serial No. 569,327
5 Claims. (Cl. 2—227)



1. A garment comprising leg portions which loosely fit the legs of a wearer and are open at the bottom thereof, said leg portions being of a continuous piece of material free of openings therein, an upper portion above and continuous with the leg portions, the upper portion being adapted to closely fit the waist of the wearer, and pockets in said upper portion positioned below said waist and adjacent the leg portions, each pocket having ventilating openings therein in communication with the interior of a leg portion and through which air from said leg portion flows outwardly of the garment.

2,420,487
PAINT BRUSH HOLDER

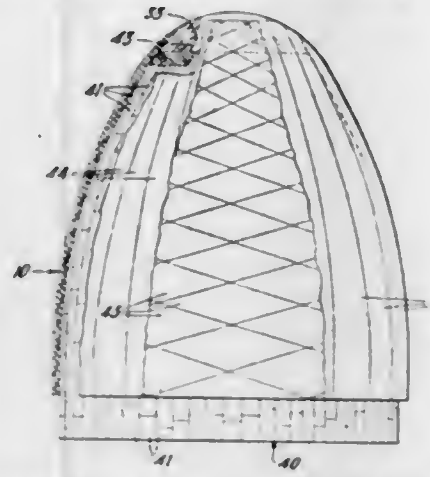
Herman Clyde Long, Johnson City, Tenn.
Application December 29, 1944, Serial No. 570,455
1 Claim. (Cl. 220—90)



An attachment of the kind described, comprising an annulus formed with a central opening, inner and outer peripheral gripping flanges formed on said annulus and depending therefrom, said flanges adapted to detachably fit the top of a receptacle about a top opening therein, an inclined spout rising from the inner periphery of the annulus adjacent the inner depending flange, a rest rod suspended crosswise of the spout adjacent the pouring edge thereof, fingers protruding from the rod, a supplemental guard outside of the the spout having receptacle embracing straps, said guard extending beyond the pouring lip of the spout, said guard forming a support for the end of a paint brush when said brush is laid on said rest rod at right angles thereto.

2,420,488
METHOD OF FORMING LAMINATED HOLLOW STRUCTURES

Laurence J. Marhoefer, Haddon Heights, and William A. Taylor, Wildwood, N. J., and Eugene L. Vidal, Washington, D. C., assignors to Vidal Corporation, a corporation of Delaware
Application February 6, 1943, Serial No. 475,040
1 Claim. (Cl. 154—110)



The method of producing a hollow member whose surface is in part at least of a configuration in which all of the surface elements are nonrectilinear, the member including a multi-ply shell and a separate nose piece and tapering outwardly from said nose piece along an axis constituting the axis of symmetry of the member comprising the steps of providing a form that is complementary in surface configuration to said shell and includes said nose piece as an element freely detachably associated therewith, cutting from sheet material groups of planar units to be applied to said form each unit being of sufficiently small area to conform substantially to the configuration of the shell in the position on said form the unit is to occupy, and the units of each group, when placed edge to edge, forming a rudimentary ply having substantially the shape and area of a ply for said shell, placing the units of each group on said form in edge to edge relation to each other in assembly with said nose piece to form a series of rudimentary plies circumferentially enclosing said nose piece, with adhesive between each ply and the adjacent ply and between said nose piece and said plies, subjecting the assembly to a shaping and bonding operation to shape the rudimentary plies to the configuration of the shell and to cause said plies to become adresively bonded to each other and to said nose piece thereby to produce said hollow member; and, withdrawing said form, minus its nose piece, from said member.

2,420,489
STEROIDAL HORMONE INTERMEDIATES AND PREPARATION OF THE SAME

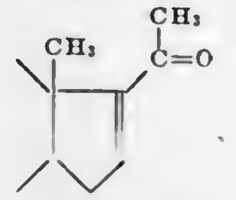
Russell Earl Marker, Mexico City, Mexico, assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Original application May 15, 1941, Serial No. 393,667. Divided and this application May 24, 1944, Serial No. 537,193
8 Claims. (Cl. 260—397.3)

1. The process for preparing $\Delta^{4,16}$-pregnadienedione-3,20 which comprises treating pseudo Δ^4-tigogenenone with an oxidizing agent selected from the class consisting of permanganic acid, chromic acid and their salts at a temperature below 50° C.

2,420,490
Δ^{16}-PREGNENEDIOLS AND PROCESS FOR PRODUCING THE SAME

Russell Earl Marker, Mexico City, Mexico, assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Original application June 30, 1941, Serial No. 400,559. Divided and this application May 24, 1944, Serial No. 537,200
7 Claims. (Cl. 260—397.5)

1. Process for preparing hydroxy-pregnane derivatives which comprises subjecting a steroid having in ring D the structure



to the action of a member of the class consisting of primary alcohols and secondary alcohols, in combination with a member of the class consisting of aluminum alcoholates and compounds of the formula Z—Mg—OR, where Z is an anion and —OR is an alcoholate grouping, thereby producing a steroid having in ring D the structure

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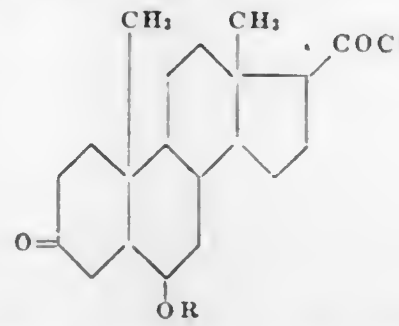
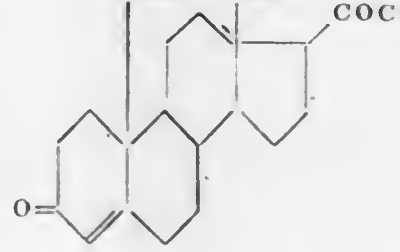
2,420,491
PROCESS FOR PREPARING PROGESTERONE

Russell Earl Marker, Mexico City, Mexico, and Elmer J. Lawson, East Greenbush, N. Y., assignors to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Original application January 4, 1941, Serial No. 373,192. Divided and this application May 24, 1944, Serial No. 537,202
2 Claims. (Cl. 260—397.3)

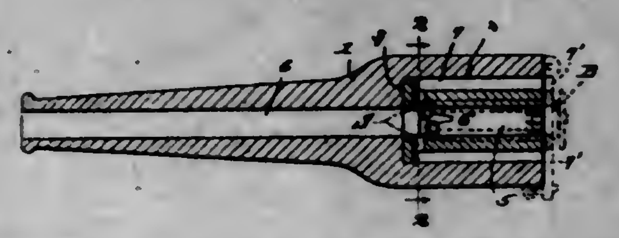
1. The process for preparing progesterone which comprises subjecting a pregnane compound having the formula



where —OR is a member of the class consisting of —OH and groups hydrolyzable to —OH, to the action of heat, with the elimination of HOR, thereby forming progesterone having the formula

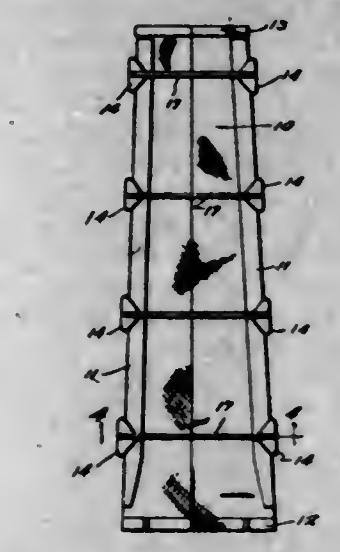


2,420,492
RECOIL ABSORBER FOR GUNS
William M. Marseilles, Clinton, Mo.
Application January 30, 1945, Serial No. 575,224
1 Claim. (Cl. 89—14)



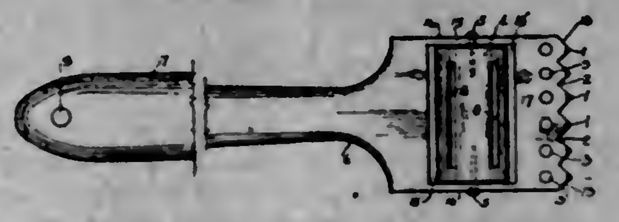
The combination with a barrel of a gun having a bore counterbored at the breech end of the gun, of means for reducing recoil when the gun is fired, said means including a block fitted snugly in the counterbore and formed with a bore alined with the bore in the barrel and proportioned to hold a projectile and an explosive charge, there being ports radiating from the front end portion of the bore in the block positioned to be bridged by a projectile when in normal position in the block, said block being formed with longitudinal channels in its outer surface extending from the respective radial bores to the breech end of the gun and opening through said breech end to the atmosphere, and means for closing the breech end of the bore in the block.

2,420,493
TROUSER CREASER
Alphonse Jean Meyer, Mountain Top, Pa.
Application July 5, 1944, Serial No. 543,506
1 Claim. (Cl. 38—71)



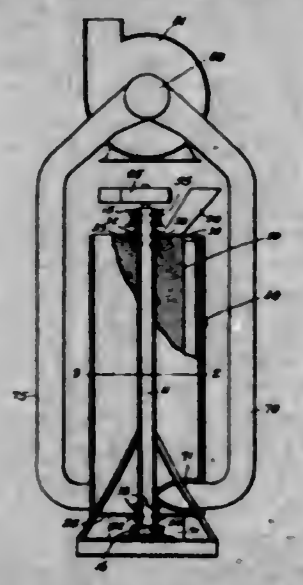
A trouser presser and stretcher comprising cooperating pairs of clamping slats adapted to be applied to the creases at the front and rear of a pair of trousers, a plurality of rigid triangular shaped clamping clips being formed with inwardly tapering wedging slots extending from a corner of each clip for receiving said pairs of clamping slats with the creases of said trousers positioned therebetween, said clips being spaced along the length of said pairs of clamping slats at opposite points and formed with bores extending midway of the unslotted sides of said clips and at right angles to said slots, and bowed resilient spring connecting ties of increasing length formed with parallel depending terminal ends adapted to be received in the bores in said clips for connecting the opposite pairs of clips together with the shorter ties near the cuffs of the trousers for exerting an equalized pressure thereon to press a pair of trousers when placed in said presser and stretcher.

2,420,494
MIXING DEVICE
Thomas B. Owens, Cleveland, Ohio
Application June 6, 1945, Serial No. 597,894
5 Claims. (Cl. 259—126)



1. A mixing device comprising a body member formed with an end handle and a head, a roller mounted in the head and having its peripheral surface extended outwardly thereof, the head having a portion in which the roller is mounted, and a portion forming the end of the device opposite the handle end, the terminal edge of the last-mentioned head portion being of saw-tooth formation, the bottom surface of the front part of the head portion in which the roller is mounted being inclined upwardly at an angle to the bottom surface of the rear part thereof, and the bottom surface of the terminal edge being inclined upwardly at an angle to the inclined bottom surface of the front part of the head portion.

2,420,495
ASBESTOS DUSTING PROCESS AND APPARATUS
Lee C. Phare, Thetford Mines, Quebec, Canada, assignor to Johnson's Company, Thetford Mines, West, Quebec, Canada
Application March 26, 1943, Serial No. 480,699
2 Claims. (Cl. 209—2)



2. A continuous process of freeing substantially dry fiberized asbestos masses from finely divided foreign matter which comprises continuously feeding the asbestos masses gravitationally through a vertical fixed screen column, confining the gravitationally moving asbestos to said column while transversely fluffing and agitating the same within the column to separate and aerate the asbestos, subjecting the outer surface of said column of the gravitationally moving agitated asbestos to suction to remove the dust therefrom, and moving agitating elements at a speed in the range of 300 to 720 revolutions per minute whereby the fiber groups are separated without substantial breaking of the fibers and the fibers are fluffed without substantial injury thereto, the cross-sectional area of the column and the intensity of the suction being such that the suction will be effective to substantially the central portion of the column to remove dust from the separated and fluffed fibers in said column through the screen without substantially interfering with the gravitational flow of the fiber, and continuously removing the clean fibers from the lower end of the column.

2,420,496
RECOVERY OF PRODUCTS FROM ALDEHYDE CONDENSATIONS
Herman A. Poitras, Teaneck, John E. Snow, Hasbrouck Heights, and Sylvio A. De Lorenzo, Clifton, N. J., assignors to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 2, 1943, Serial No. 512,604
7 Claims. (Cl. 260—637)

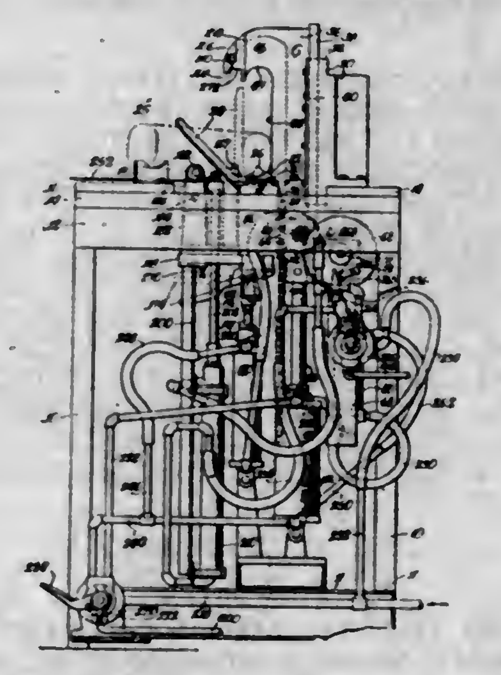
1. A process for the recovery of a polymethylolalkane from a reaction liquor obtained from the condensation of formaldehyde and an aliphatic aldehyde having a greater number of carbon atoms in the molecule than acetaldehyde in the presence of an alkaline condensing agent, which liquor contains substantially all the metal formate and polymethylolalkane formed in the reaction, which comprises concentrating said liquor to a high solids content, diluting and heating the resulting concentrated product with such a quantity of a water-soluble monohydric aliphatic alcohol selected from the group consisting of ethanol, n-propanol and isopropanol that a substantial portion of the polymethylolalkane is dissolved and a substantial portion of the metal formate is not dissolved, separating the undissolved metal formate from the hot solution by filtration, and subsequently recovering the polymethylolalkane therefrom.

2,420,497
PROCESSES FOR THE PURIFICATION OF TRIPENTAERYTHRITOL
Herman A. Poitras, Teaneck, and John E. Snow, Hasbrouck Heights, N. J., assignors to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware
Application December 7, 1943, Serial No. 513,222
9 Claims. (Cl. 260—615)

1. A process for the separation of tripentaerythritol from water-insoluble impurities which comprises suspending the tripentaerythritol containing water-insoluble impurities in such an amount of an aqueous solution of an acid selected from the group consisting of formic, hydrochloric and sulfuric acids maintained at a temperature approximating its boiling point that a substantial portion of the tripentaerythritol is dissolved and the solution contains a higher proportion of tripentaerythritol than is soluble therein at approximately room temperature, filtering the hot acid solution of tripentaerythritol to remove the water-insoluble impurities, and subsequently crystallizing tripentaerythritol from the hot aqueous acid solution by allowing the solution to cool and crystals to form.

5. A process for the separation of dipentaerythritol and tripentaerythritol from each other, which comprises suspending the mixture containing dipentaerythritol and tripentaerythritol in such an amount of water at such a temperature that substantially all the dipentaerythritol is dissolved and a substantial portion of the tripentaerythritol remains undissolved, adding a conventional filter aid to the solution and removing the undissolved tripentaerythritol and filter aid therefrom by filtration, subsequently suspending the tripentaerythritol and filter aid in such an amount of an aqueous solution of an acid selected from the group consisting of formic, hydrochloric and sulfuric acids maintained at a temperature approximating its boiling point that a substantial portion of the tripentaerythritol is dissolved and the solution contains a higher proportion of tripentaerythritol than is soluble therein at approximately room temperature, filtering the hot acid solution of tripentaerythritol to remove filter aid and undissolved materials, and subsequently crystallizing tripentaerythritol from the hot aqueous acid solution by allowing the solution to cool and crystals to form.

2,420,498
TYING MACHINE
Joseph L. Pojman, Palos Heights, Ill., assignor to Industriaids, Evanston, Ill., a copartnership consisting of Joseph L. Pojman, H. F. Pojman, and Fred Barbknecht
Application October 19, 1943, Serial No. 506,858
14 Claims. (Cl. 100—31)



1. In a tying machine, means for engaging and tightly gripping an article to be tied, a member mounted for actuation to article-holding position in interlocking engagement with the first means by the article to be tied, means for placing a length of tie wire around the article, means for cutting such length from a source of wire supply, and means for tying together the ends of the tie wire.

2,420,499
PROCESS OF ESTERIFYING CELLULOSE FIBERS
Andreas Ruperti, Arlesheim, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland, a Swiss firm
No Drawing. Application February 5, 1943, Serial No. 474,894. In Switzerland January 14, 1942
7 Claims. (Cl. 8—121)

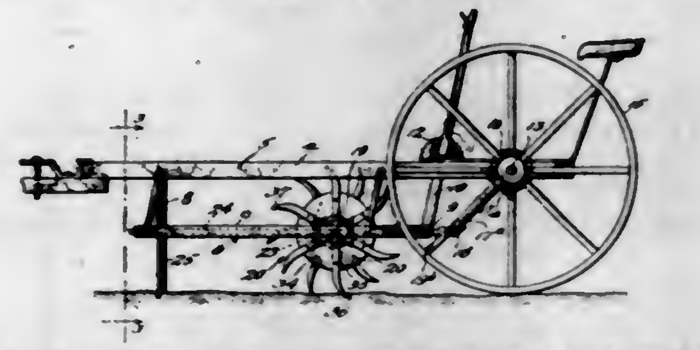
1. In the process for the continuous esterification of dissolved and reprecipitated cellulose material with retention of its structure to produce at least monoacylated cellulose esters which are insoluble in organic solvents by impregnating the material with a solution of a catalyst, removing the solvent, impregnating with a liquid anhydride of an organic acid containing at the most 4 carbon atoms, and heating to effect the acylation, the special method of working which comprises separating the impregnated material from excess

of said liquid anhydride following the impregnation with the latter and prior to the heating step, and subjecting the separated and still unacylated impregnated material to the action of a hot circulating gas, which is inert to the desired reaction, at a temperature of at least about 100° C., until the desired acylation is effected.

2,420,500

ROTARY CULTIVATOR

John V. Schug, Paragould, Ark.
Application December 23, 1943, Serial No. 515,410
2 Claims. (Cl. 97—40)

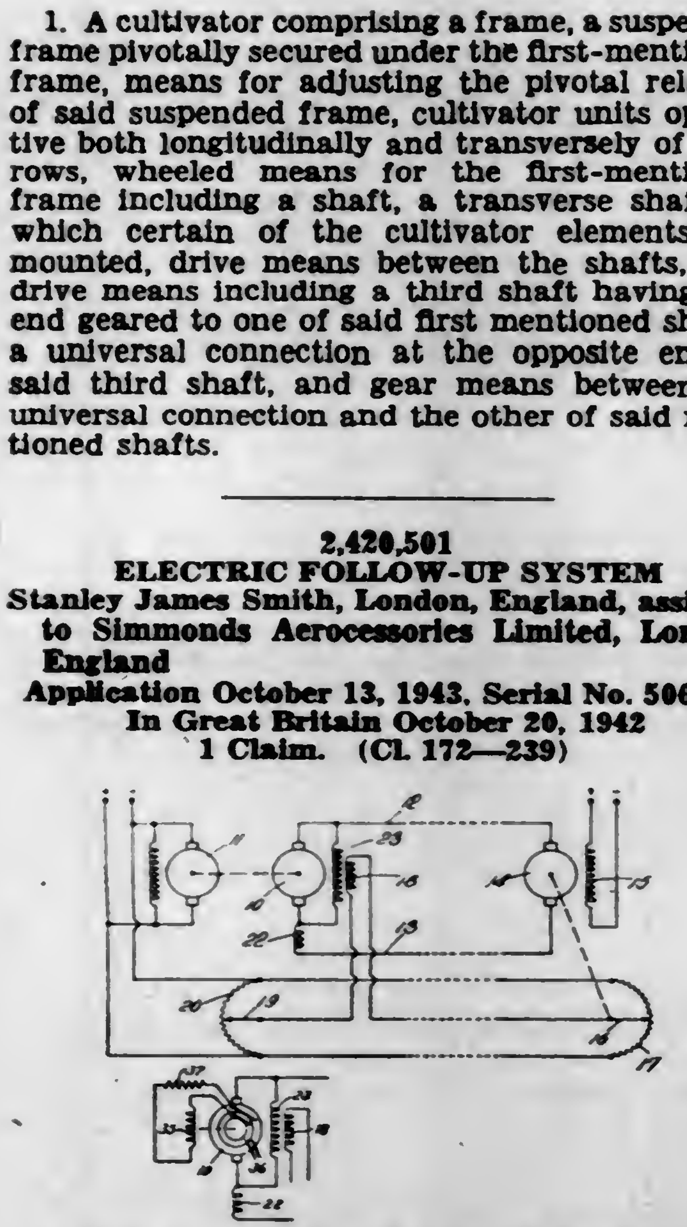


1. A cultivator comprising a frame, a suspended frame pivotally secured under the first-mentioned frame, means for adjusting the pivotal relation of said suspended frame, cultivator units operative both longitudinally and transversely of crop rows, wheeled means for the first-mentioned frame including a shaft, a transverse shaft on which certain of the cultivator elements are mounted, drive means between the shafts, said drive means including a third shaft having one end geared to one of said first mentioned shafts, a universal connection at the opposite end of said third shaft, and gear means between the universal connection and the other of said mentioned shafts.

2,420,501

ELECTRIC FOLLOW-UP SYSTEM

Stanley James Smith, London, England, assignor to Simmonds Aerocessories Limited, London, England
Application October 13, 1943, Serial No. 506,107
In Great Britain October 20, 1942
1 Claim. (Cl. 172—239)

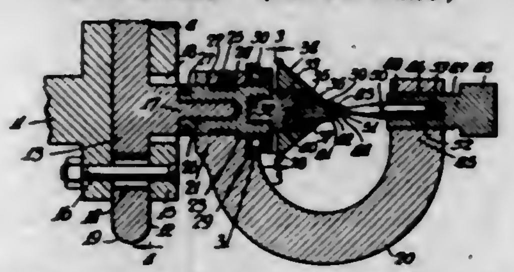


A remote control system having a transmitter comprising a potential divider and a slider thereon the movement of which slider is to be repeated at a remote point, a receiver comprising a second potential divider, a second slider thereon and a motor operatively connected with the said second slider, a source of energy for the said motor comprising a dynamo, the armature of which is electrically connected with the armature of the said motor, means establishing a field for said dynamo, said means including a dynamo field winding and including connections with said sliders whereby said means is energized when said sliders are relatively displaced to provide a potential difference therebetween, a second dynamo field winding connected in series with the output of the dynamo of such size as to be insufficient to initiate or maintain excitation of the dynamo in the absence of current in the said first field winding, means for connecting the two potential dividers in parallel and with a source of direct current, a third dynamo field winding connected in parallel with the dynamo armature and of such size as to be insufficient to initiate or maintain excitation in the absence of current in the said first field winding, and means supplying said dynamo with an alternating current field.

2,420,502

GEM GRINDING DEVICE

Josef Hillel Spira, New York, N. Y.
Application October 6, 1943, Serial No. 505,100
14 Claims. (Cl. 51—229)

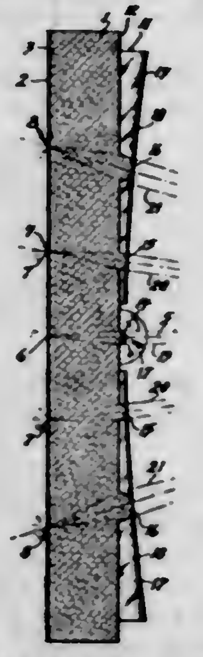


1. In a diamond cutter's lathe having a chuck with means holding a chuck spindle for adjustment eccentrically for bruting irregularly shaped stock and having means on said spindle for mounting a bruting dop for rotation at bruting speeds, the combination therewith of an arm one end of which carries a counterpressure member having an end for engaging the diamond during rotation thereof, the other end of the arm being journaled for free rotation concentrically with and relative to the chuck spindle and mounted to move in synchronism with the chuck spindle in the adjustment of the chuck spindle in relation to the fixed axis of the chuck.

2,420,503

OPTICAL RETICLE

Bruno Stechbart, Park Ridge, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application August 31, 1944, Serial No. 552,107
4 Claims. (Cl. 88—1)

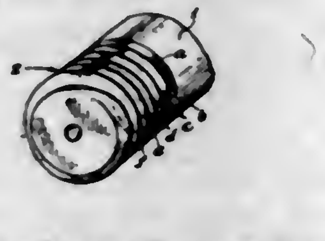


1. In an optical reticle, the combination of a body of light transmitting material and of disk form, a mask at one face of said body and provided with a light opening therethrough in the form of a reticle design pattern, and a condensing lens system formed integrally with and at the opposite face of said body and in the form of a reticle design pattern corresponding with the pattern of said light opening and disposed in optically registering relation therewith for concentrating light thereat.

2,420,504

MEANS FOR GRINDING SCREW THREADS

Gilbert Stewart, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application January 9, 1942, Serial No. 426,112
4 Claims. (Cl. 51—3)

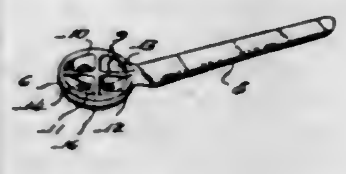


3. A screw thread grinding machine comprising, in combination, a pair of grinding wheels, the first of said wheels being shaped to grind the desired thread contour and the second of said wheels being shaped to remove at least a portion of the thread, said wheels being spaced from each other axially of the workpiece a distance having a predetermined relation to the pitch of the threads, means for supporting a workpiece for rotation, and means for effecting relative translation between said grinding wheels and said workpiece axially of the workpiece in timed relation to said rotation for effecting grinding engagement starting with the end of the workpiece first with the first wheel and thereafter with the second wheel to grind the thread and remove at least a portion of the fragmentary convolution first ground by the first wheel.

2,420,505

DENTIST'S MEASURING SPOON

Andrew H. Stith, Chicago, Ill.
Application July 20, 1944, Serial No. 545,832
2 Claims. (Cl. 222—130)

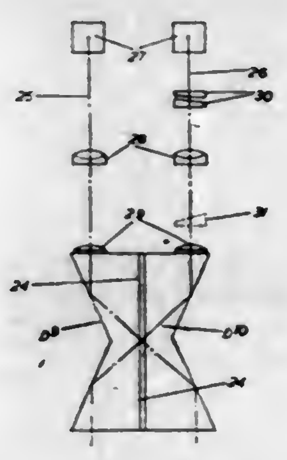


1. A spoon for measuring acrylic powders or other finely divided solids comprising a bowl having a spherically convex bottom, partitions dividing the bowl into a plurality of like compartments, some of said compartments having outlet apertures extending through the bowl bottom, a spherically concavo-convex valve plate snugly rotatably fitting the bowl bottom and adapted simultaneously to close all of said outlet apertures, and an opening in the valve plate adapted successively to be brought into registry with the several outlet apertures when the plate is rotated relative to the bowl, the bowl and the valve plate presenting for fingertip engagement immediately adjacent annular cylindrical surfaces which are concentric with the valve plate axis and have the same radius.

2,420,506

BINOCULAR RANGE ESTIMATING PERISCOPE OPERATING ON THE COINCIDENCE PRINCIPLE

John Martin Strang, Glasgow, Scotland, assignor to Barr & Stroud, Limited, Glasgow, Scotland
Application May 25, 1943, Serial No. 488,448
In Great Britain August 14, 1940
1 Claim. (Cl. 88—2.7)



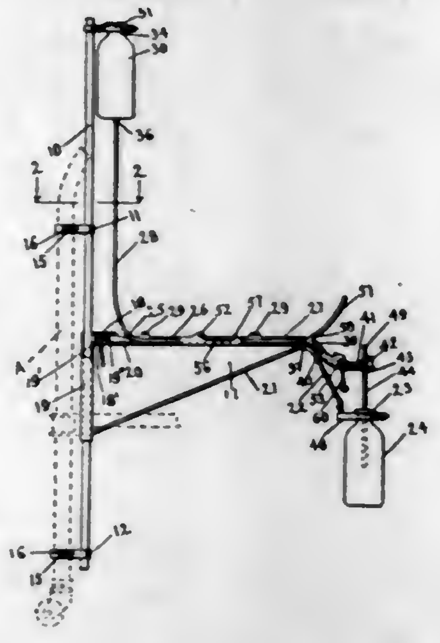
A binocular range-estimating periscope operating on the overlapping image principle and comprising binocular eyepieces, two top reflectors to receive and reflect downwards two beams of light from a distant object, an objective in the downward path of each of said beams, and a prism combination made up of two halves symmetrical about a vertical plane, on which plane in the interior of the combination there is a reflecting-transmitting optical surface, the prism combination also having a horizontal entrance face and a horizontal exit face, and, in each half, between said entrance and exit faces, two oblique reflecting faces one above the other, the path of each downwardly directed beam being into one half of the combination at the entrance face, then meeting the upper oblique reflecting face of that half, then inwards to the reflecting-transmitting surface where some of the light is reflected outwards to the lower oblique face of that half and thence to one eyepiece, and some of the light is transmitted to the lower oblique face of the other half and thence to the other eyepiece, the reflected and transmitted portion combining to form overlapping images in the field of each eyepiece.

2,420,507

PORTABLE APPARATUS FOR THERAPEUTIC IRRIGATION

Harry C. Stratton, Malden, Mass., assignor to Stratton Specialties, Malden, Mass., a voluntary association
Application October 18, 1944, Serial No. 559,318
1 Claim. (Cl. 128—227)

A portable apparatus for therapeutic irrigation comprising in combination, a standard; means for detachably securing the standard to a bed post; a container for irrigation liquid removably supported on the standard; a bracket comprising a hub journaled on the standard, axially and arcuately adjustable thereon, a channeled member extending from the bracket, a brace from the hub to the channeled member having a downward extension; a waste receptacle removably supported by the brace extension, in operative relation to the end of the channeled member; a flexible tube connecting with and dependent from the irrigation liquid container, and supported by and retained in the channeled member; a three way element supported in the channeled member, to one branch of which is connected the said tube, to the second branch of which is attached a tube to which a catheter may be attached, and a third tube connecting the third branch of the element with one branch of a similar element; a tube from a second branch of this latter element connecting with the waste receptacle, the third branch serving as a vent; means hinged in the opposite walls of the channeled member, operative to interrupt the flow of liquid from the irrigation liquid supply container; and similar means for interrupting the flow of liquid to the waste receptacle.



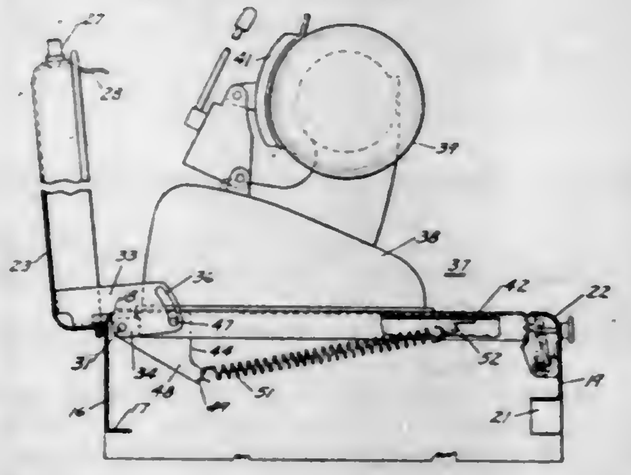
2,420,508

CABINET HAVING INTERCONNECTED CLOSURE AND SUPPORT FOR AN IRONER

Leroy Svensson, Jamestown, N. Y., assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y., a corporation of New York

Application October 11, 1944, Serial No. 558,202

7 Claims. (Cl. 312—23)



6. In an ironer cabinet, walls forming an enclosure having a top opening, a cover for said opening, an ironer-supporting shelf in said opening, means mounting said cover and said shelf for pivotal movement about a common axis, other means providing limited relative pivotal movement of said cover and said shelf, spring means normally urging said cover and shelf toward one of the extreme positions allowed by said other means.

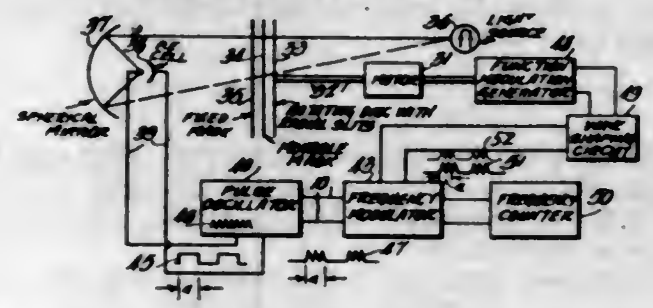
2,420,509

ELECTRON COMPUTING DEVICE

James L. Whittaker, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 28, 1943, Serial No. 496,685

7 Claims. (Cl. 177—351)



3. In a computer for substantially continuously deriving a non-linear mathematical function of the variable angular displacement of two elements, a fixed mask, a movable mask disposed to form an adjustable aperture the angular opening of which is a linear function of said angular displacement, a light source, a light responsive device associated with said light source, means for scanning said adjustable aperture by said light to derive voltage pulses from said light responsive device, a pulse generator, means for keying said generator by said voltage pulses, a modulation generator providing a voltage wave form characteristic of said function, means for applying said modulation frequency to frequency modulate said keyed pulses, and means for deriving from said modulated keyed pulses a signal current of amplitude substantially proportional to the duration of said voltage pulses to indicate the value of said function.

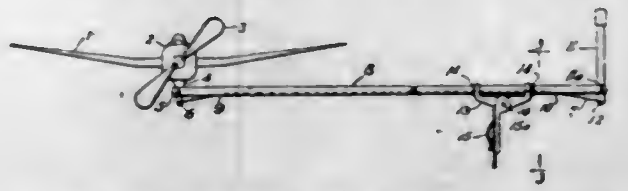
2,420,510

TOY AIRPLANE

Harlan Leffingwell Wilson, San Diego, Calif.

Application August 6, 1945, Serial No. 609,162

6 Claims. (Cl. 46—77)



1. A maneuverable toy airplane comprising a model toy airplane, means on said model toy airplane for attaching a pivotally connected extension stick, a control stick pivotally connected to the other end of the extension stick, means extending through the extension stick and being attached to the model airplane and control stick, and capable of causing the model airplane to bank when the control stick is moved forwards or backwards.

2,420,511

APPARATUS FOR FORMING AND ASSEMBLING INNER SPRING CONSTRUCTIONS

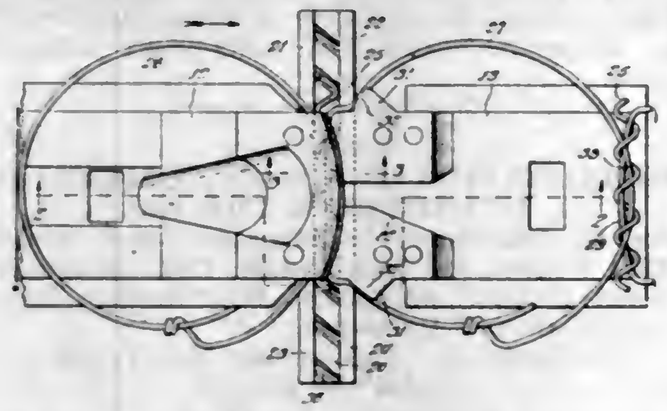
Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application September 7, 1942, Serial No. 457,584

14 Claims. (Cl. 140—3)

1. In apparatus of the class described, a normally stationary track member for guiding a rotating helix in an endwise direction, a pair of jaws respectively disposed on opposite sides of said track member and movable toward and from

the same, said track member being provided with a recessed seat, and one of said jaws being provided with an end formation adapted to force a portion of a spring coil into said seat to form an offset in the spring coil, said jaws and track co-



operating to hold coil portions of juxtaposed springs in predetermined position relative to said track so as to cause a rotating helical wire moving endwise along said track to be wound around said coil portions to thereby tie said springs together.

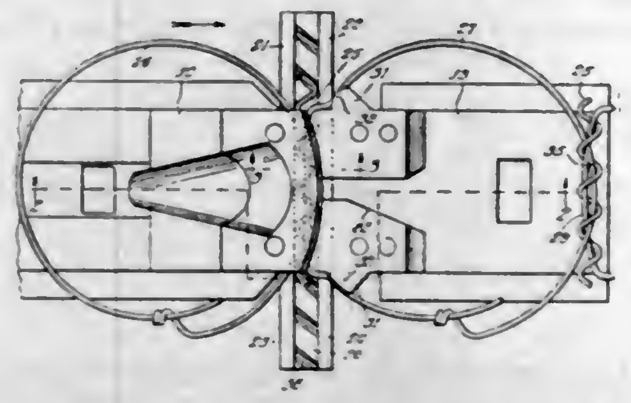
2,420,512

METHOD FOR FORMING AND ASSEMBLING INNER SPRING CONSTRUCTIONS

Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, a corporation of Delaware

Original application September 7, 1942, Serial No. 457,584, now Patent No. 2,388,106, dated October 30, 1945. Divided and this application March 27, 1944, Serial No. 528,242

5 Claims. (Cl. 140—3)



1. The method of making inner spring construction or like spring assemblies which consists in providing coil springs having normal circular or spirally formed terminal coils and positioning the same with their terminal coils in predetermined juxtaposition, gripping said terminal coils to hold the same and, as an incident to such gripping of the coils, forming an offset in one of the coils and winding a helix around said offset and the juxtaposed coil portion of the other spring while said terminal coils are held in said predetermined juxtaposition.

2,420,513

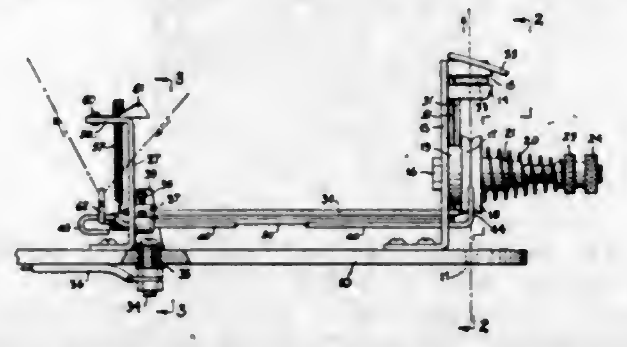
STOP MOTION MECHANISM

Charles W. Arrowood Charlotte, N. C.

Application July 31, 1946, Serial No. 687,449

4 Claims. (Cl. 66—163)

1. A stop motion mechanism through which a strand of yarn is adapted to be passed, comprising an uprising fixed member having a laterally projecting portion provided with an open ended slot, a second uprising member disposed in spaced relation to the first uprising member, a shaft oscillatably mounted in the two uprising members and having an upturned portion provided with a horizontal projecting portion adapted to move through said slot, and having a contact member near its other end, a fixed contact adjacent the contact on the shaft, a pair of tension discs on the first uprising member, through which a strand of yarn is adapted to be passed, said strand of yarn being adapted to be passed between the lateral projection on the first uprising member and the horizontally projecting portion on the first named shaft, a second shaft oscillatably mounted in the uprising members and having an uprising portion adapted to pass between the tension discs and having at its other end an outturned portion, a third oscillatable shaft mounted in the uprising members and having portions bent to project above a lateral projection on the first named uprising member and having an outwardly and angularly directed



member against which the yarn is adapted to contact on its upward travel, excessive tension in the yarn causing it to move out the laterally and angularly extending portion on the third named shaft to push the yarn from between the horizontally projecting portion on the first named shaft and the laterally extending portion on the first uprising member to allow the first named shaft to oscillate, the fixed contact being adapted to be contacted by the contact on the first named shaft to close a circuit and stop the machine with which the stop motion is associated, parting of the yarn allowing the first named shaft to oscillate to cause its contact to engage the fixed contact to also close the circuit and stop the machine, movement of the yarn out the angularly extending portion of the third named shaft tending to oscillate the second named shaft to relieve tension on the yarn by having its uprising curved end portion moving in between the tension discs.

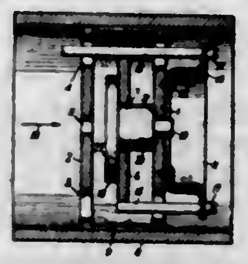
2,420,514

ELECTRON LENS STRUCTURE

Charles H. Bachman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application May 25, 1944, Serial No. 537,273

13 Claims. (Cl. 250—49.5)



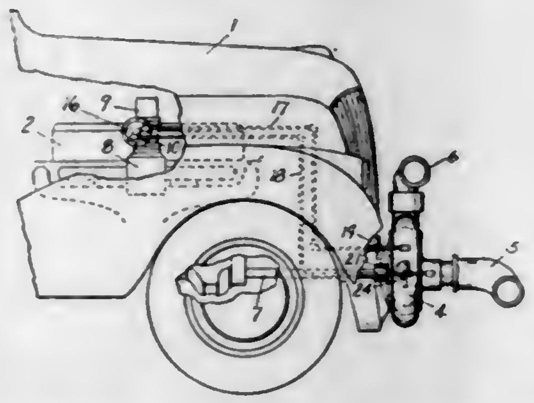
3. An electrostatic electron lens structure comprising three disk-like electrodes arranged in spaced coaxial alignment and provided with aligned central apertures, and means for insu-

latingly supporting the intermediate of said electrodes from the surface of an outer one of said electrodes remote from said intermediate electrode.

2,420,515
PRESSURE GOVERNOR CONTROL MECHANISM

Benjamin D. Barton, Battle Creek, Mich., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich.

Application November 15, 1943, Serial No. 510,318
16 Claims. (Cl. 103—16)



1. The combination with an internal combustion engine and a pump driven thereby, of a butterfly governor valve for the fuel intake of said engine, said valve being provided with a stem having a pinion thereon, a pressure chamber, a diaphragm subject to the pressure within said chamber, a rack reciprocatingly mounted to coact with said pinion and operatively connected to said diaphragm, a spring acting to urge the diaphragm against the pressure within said chamber and to urge said valve toward open position, an adjustable stop coacting with said rack for limiting the closing movement of said governor valve, a conduit connecting said pressure chamber to the pressure side of the pump, a return conduit connecting said pressure chamber to the intake of the pump, and a regulating valve in said return conduit.

2,420,516
PULSE PRODUCING SYSTEM

Alfred F. Bischoff, Milford, Conn., assignor to General Electric Company, a corporation of New York

Application June 15, 1944, Serial No. 540,461
10 Claims. (Cl. 315—26)

1. In combination, a pair of electron discharge devices, a trigger circuit therefor including means responsive to variation in current in either device to produce opposite variation in current in the other device whereby the two devices are alternately actuated between conductive condition and nonconductive condition with trigger action, a source of high frequency pulses, a frequency divider, means to supply said high frequency pulses to one of said devices through said frequency divider and to the other devices directly both to produce current in the respective device in the same sense whereby said devices are triggered from one of said conditions to the other at the frequency appearing at the output of said divider, and pulses are produced in each device having the duration of the period between two successive pulses of said high frequency source.

2,420,517
DEHYDRATION OF FOODS BY MEANS OF HYDROPHILIC LIQUIDS

John D. Brandner, Wilmington, and Rudolph Max Goepp, Jr., New Castle, Del., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

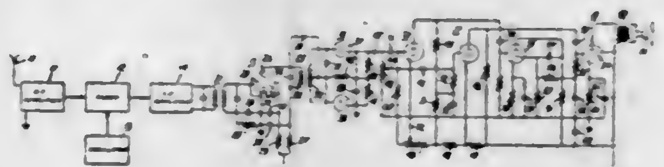
No Drawing. Application May 7, 1943, Serial No. 486.086
8 Claims. (Cl. 34—9)

1. The process for drying structured foods with high water content which comprises contacting the food with a dehydrating solution of successively increasing concentrations of a non-toxic, organic hydrophilic substance, which is highly water-soluble and unobjectionable in taste, odor, and color, and which is less volatile than water until the food loses a substantial amount of its water content, and separating the dehydrating solution from the food before the rate of absorption of dehydrating solution by the food exceeds the rate of loss of water.

2,420,518
POWER REDUCTION CIRCUIT FOR RADIO RECEIVERS

George M. Brown, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application January 22, 1943, Serial No. 473,199
4 Claims. (Cl. 250—20)



2. In a receiver for signal modulated waves subject to noise voltages, the combination of an output power amplifier, means for reducing the gain of said amplifier in the absence of a received carrier wave, said means comprising, electron discharge means for amplifying said noise voltages in the absence of a wave, means responsive to said amplified voltages for reducing the gain of said power amplifier, and means operative when a signal modulated wave is being received to bias said electron discharge means to cut-off.

2,420,519
ETHERIFIED ANHYDRO HEXITOLS

Kenneth R. Brown, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

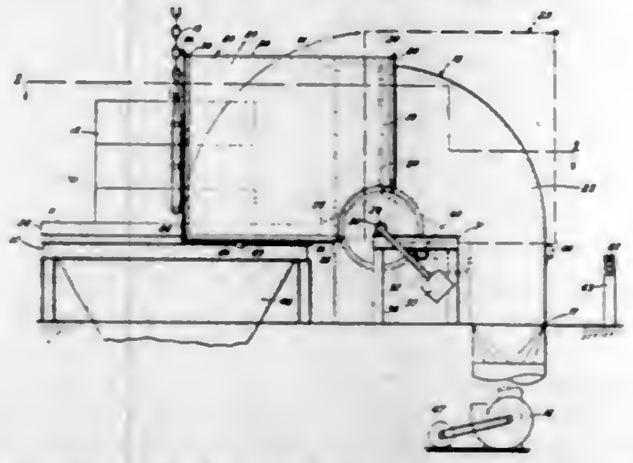
No Drawing. Original application May 31, 1939, Serial No. 276,647. Divided and this application July 13, 1943, Serial No. 494.529
7 Claims. (Cl. 260—345)

1. As a new product an anhydro-hexitol completely etherified with radicals selected from the group consisting of alkyl, aryl and aralkyl radicals.

2,420,520
AUTOMATIC SHAKE-OUT HOOD

Eugene A. Carsey, Cincinnati, Ohio, and W. Grant Stalker, Pittsburgh, Pa., assignors to The Kirk & Blum Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio

Application December 20, 1943, Serial No. 514,908
1 Claim. (Cl. 98—115)

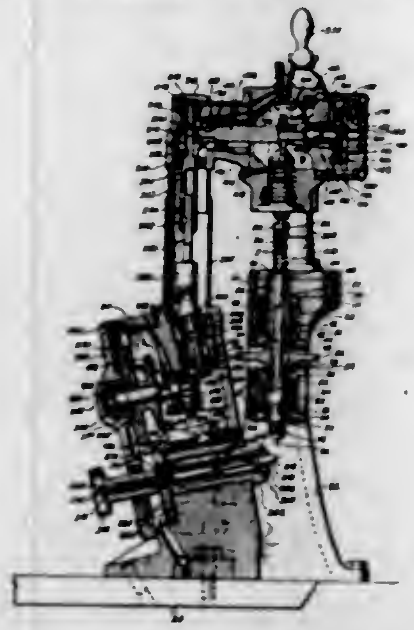


In a device of the class described, the combination of an air exhauster apparatus, said air exhauster apparatus having an inlet port in an upright wall thereof, a hood structure movable to and from a position projecting beyond said upright wall structure and along the top and sides thereof, means for tractionally supporting said hood structure, electrical power means for moving the hood on its tractional support, limit stops for automatically deenergizing the power means at predetermined limits of movement of the hood, remote control means for initiating operation of the power means and a safety control means on a forward edge of the hood for arresting power movement of the hood to its operative position independently of the said limit stop.

2,420,521
DRILL PRESS

John Adwin Cupler, Cumberland, Md., and Clyde W. Truxell, Jr., Detroit, Mich.

Application January 16, 1943, Serial No. 472,626
4 Claims. (Cl. 77—5)

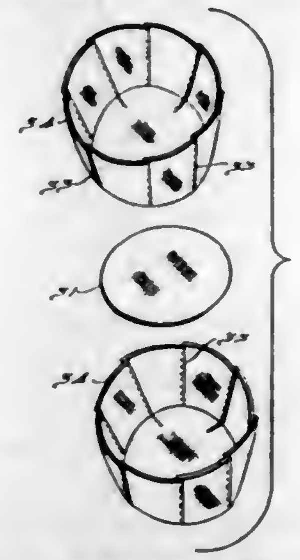


1. A drill press comprising a drill spindle, means for reciprocating said spindle through a plurality of strokes of sequentially increasing amplitude, means for positioning a work piece with respect to said spindle, means for indexing said positioning means, means responsive to the completion of a predetermined number of indexing operations for interrupting the operation of said reciprocating means, and driving means positively interlocked in continuous driving relationship with said spindle reciprocating means, said indexing means and said interrupting means for maintaining their operation in timed relationship.

2,420,522
METHOD OF MAKING ARTICLES FROM PLASTIC TREATED MATERIALS

Le Grand Daly, Birmingham, Mich.

Application March 9, 1942, Serial No. 433,943
6 Claims. (Cl. 154—110)



1. A method of making a safety helmet from flat plastic impregnated substantially unstretchable fabric material, said method comprising the steps of providing from said material a plurality of pieces, each of said pieces substantially corresponding to the development of the helmet but being larger in area to ensure substantial overlapping of its meeting edges when folded to the shape of the helmet and molded, folding each of said pieces to an approximate shape of the helmet with edges of the fabric of the same piece overlapping each other for a substantial distance; assembling said pieces together to form a laminated preform; placing such preform into a heated mold and pressing it against the hot surface of said mold with the aid of a rubber member adapted to absorb the unevenness in the thickness of the walls of the preform produced by the overlapping edges in the preform and thus to exert substantially uniform pressure on all points thereof; and, leaving said preform in the mold under the resilient pressure of said rubber member for a predetermined time to cure the plastic.

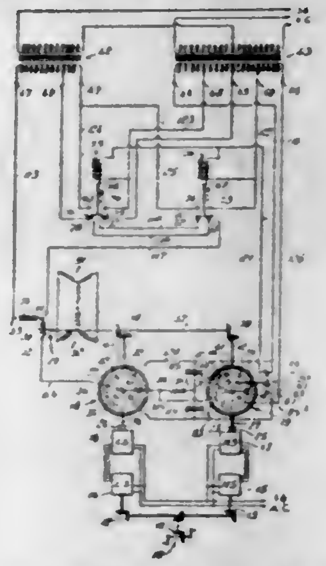
2,420,523
DAMPING DEVICE FOR REMOTE CONTROL APPARATUS

Arthur P. Davis, New York, and George Agins, Brooklyn, N. Y., assignors to Arma Corporation, a corporation of New York

Application June 10, 1938, Serial No. 212,960
2 Claims. (Cl. 172—239)

1. A system comprising a controlling element, a controlled element governed thereby, a motor connected to said controlled element, a source of voltage for the said motor, fine control means responsive to small angular deviation between the controlled element and the controlling element for closing a circuit from said source to the motor, coarse control means responsive to relatively large deviation between the said controlled element and controlling element for closing a circuit from said source to the motor and for disconnecting the fine control means from said

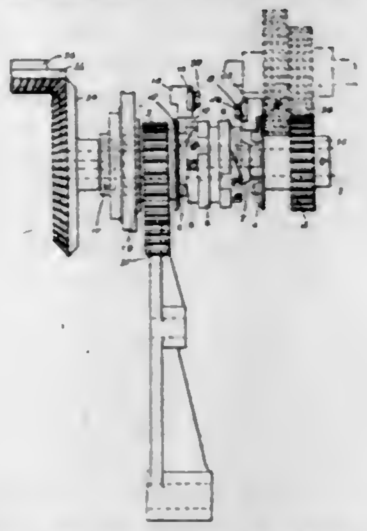
source, mechanism for changing the voltage supplied to said motor from said source, and means actuated by one of said means in response to relative angular movement between the said controlled and controlling elements for actuating said mechanism to change the voltage supplied to the motor to accelerate it rapidly in a direction to reduce the said deviation.



2,420,524

CLUTCH MECHANISM OF KNITTING MACHINES

Frederick Edward Deans, Leicester, England, assignor to The Bentley Engineering Company Limited, Leicester, England
Application January 22, 1946, Serial No. 642,613
In Great Britain January 31, 1945
8 Claims. (Cl. 66—56)



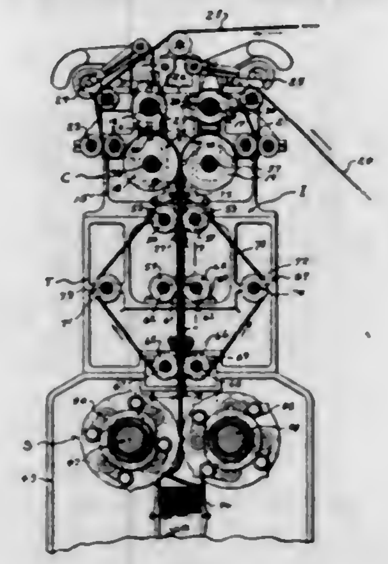
1. In a knitting machine, a clutch mechanism comprising two members, a rotary thrust cam and a thrust member, one of which is movable axially, a rotary clutch member connected to the axially movable member for axial movement thereby, and a thrust-transmitter displaceable into and out of operative position in which it is interposed in the path of the cam to transmit thrust between the latter and the thrust member and thereby to produce the aforesaid axial movement.

2,420,525

INTERFOLDING MACHINE

James J. Deloye, Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware
Application January 27. 1944, Serial No. 519,895
8 Claims. (Cl. 164—68)

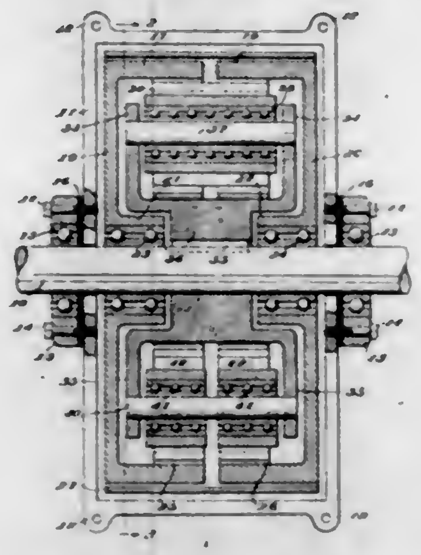
1. In a paper sheet interfolding machine, a sheet feeding and bond breaking mechanism comprising a pair of sheet feeding and gripping rolls and a pair of bond breaking rolls, means for driving said rolls at the same speed, means normally urging at least one of the first mentioned rolls toward the other, discs on said first mentioned pair of rolls normally holding said rolls spaced for feeding sheets, said discs having cam indentations whereby upon aligning of said indentations the rolls will momentarily grip said sheets, and peripheral bond breaking lugs on said second mentioned pair of rolls for engaging said sheets at the same time the indentations on the discs align.



2,420,526

DRIVE SHAFT BRAKE

Frank Thomas Dixon, Altoona, Pa., assignor to Dixon Truck Parts Company, Altoona, Pa., a corporation of Pennsylvania
Application April 20, 1945, Serial No. 589,381
10 Claims. (Cl. 188—1)

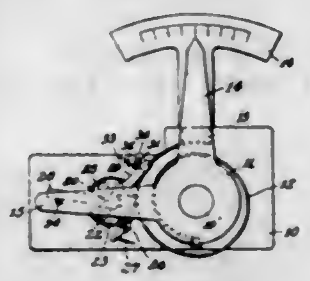


1. A brake mechanism comprising a member adapted for connection with a shaft for rotation therewith, a planetary gear rotatably supported by said member, a pair of co-axial brake drums each provided with an internal gear, the internal gears having unequal numbers of teeth and meshing with the teeth on the planetary gear, and a brake band surrounding the drums effective upon contraction thereof to grip the drums and progressively retard rotation of the drums and internal gears with a corresponding retardation of rotation of the planetary gear, and member and the shaft to which the member is connected.

2,420,527

RESILIENT ZERO STOP

Ernest F. Dyson, Wolcott, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application April 19, 1945, Serial No. 589,157
10 Claims. (Cl. 116—129)



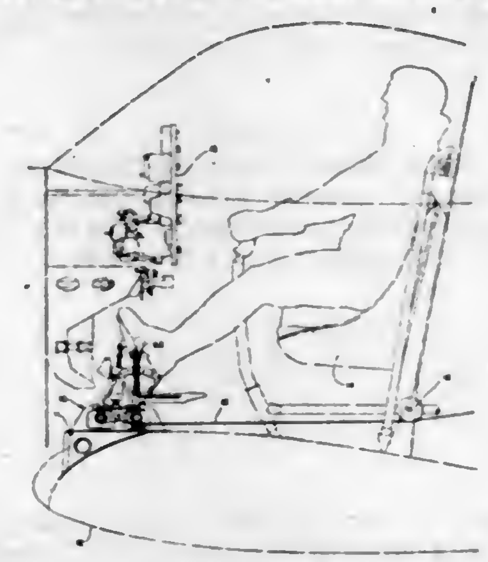
10. Zeroing means for measuring instruments, comprising a mounting plate; a displaceable member supported thereon for angular deflection in a plane parallel to the plate, together with a spiral spring connected between said plate and displaceable member to reset the latter, and the said member having two radially extending arms, one serving as an index; zeroing mechanism supported on said mounting plate adjacently the displaceable member over which the other arm of said displaceable member is adapted to extend and provided with a contact extension upon its under face, the said zeroing mechanism including a rotatably mounted disk having a pair of radially extending arms; a fixed stop element supported on the mounting plate adapted for engagement by one of the disk arms, the other of which is adapted for contact with the said contact extension; resilient means connecting said former arm of the disk with the mounting plate to maintain normally the contact between said latter arm and the fixed stop, a ratchet wheel coaxial with the disk and relatively rotatable thereto, a friction disk interposed between the rotatable disk and ratchet wheel, together with a spring washer to maintain the frictional engagement of the assembly, and a pawl supported on the mounting plate and spring-urged into contact with the teeth of the ratchet wheel to restrain rotation thereof in the direction of reset of the spiral spring controlling the displaceable member.

2,420,528

RUDDER PEDAL ASSEMBLY

Bruce G. Eaton, Jr., Bexley, and Walter O. Meyer and Charles H. Cannon, Jr., Columbus, Ohio, and Louis G. Raiche, Williamsville, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application October 24, 1944, Serial No. 560,170
6 Claims. (Cl. 74—478)

1. The combination in a foot pedal control mechanism of a base structure, a pair of laterally extending pedal supporting bars arranged in spaced relation and pivotally mounted at their mid points on said base structure, a pedal frame positioned at each side of said base upon the adjacent ends of said pair of bars whereby the said bars and pedal frames combine to form a parallelogram system, pedal means mounted on each pedal frame whereby said system may be pivoted in either direction from a neutral position upon application of foot pressure to one or the other of said pedal means, a control system connected to one of said pair of pedal supporting bars, a treadle plate pivoted on each pedal means for movement with respect thereto, and a control means associated with said treadle plates for operation upon movement of said treadle plates relative to said pedal frames.



2,420,529

RESOLUTION OF HETEROCYCLIC NITROGEN BASE MIXTURES

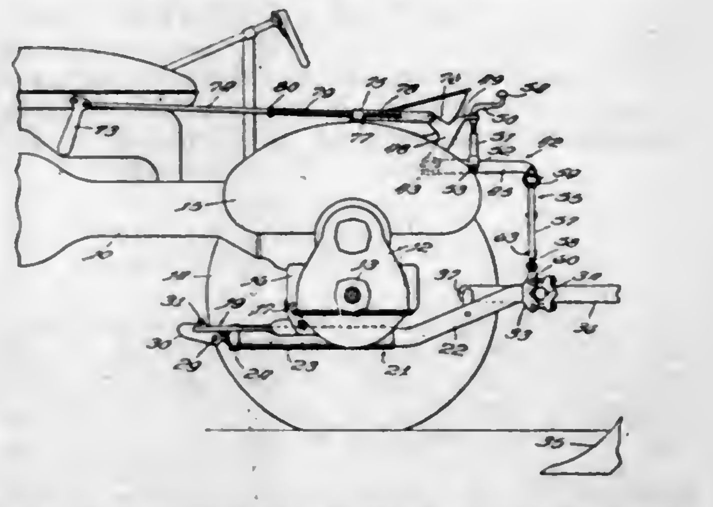
Karl Henry Engel, West Englewood, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application August 26, 1942, Serial No. 456,257
11 Claims. (Cl. 260—290)

1. A process for resolving a mixture containing substantial proportions of 3-picoline, 4-picoline, and 2,6-lutidine, comprising reacting said base mixture with an amount of hydrogen chloride just sufficient to react substantially completely with the 2,6-lutidine and 4-picoline, in the presence of a diluent selected from the group hydrocarbon solvents and 3-picoline concentrates, to precipitate 2,6-lutidine and 4-picoline from such mixture in the form of their hydrochlorides.

2,420,530

COMBINED IMPLEMENT STABILIZING AND LIFTING STRUCTURE

Arthur G. Evans, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 13, 1943, Serial No. 514,008
13 Claims. (Cl. 97—47)



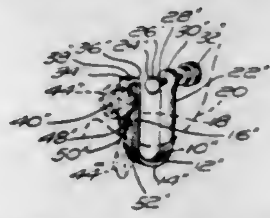
1. In an agricultural machine, a traveling support having a hitch point, a hitch device attached to said support at said hitch point and extending longitudinally of said machine, a pair of spaced rock-arms on said support pivotable about an axis spaced from said hitch point, spaced extensible

lift members connecting each said rock-arm to said hitch device at locations removed from said hitch point, and means for varying the relative angular spacing of said rock-arms.

2,420.531

EAR WIRE FOR EARRINGS

Alfred Francis, Providence, R. I.
Application May 14, 1946, Serial No. 669,619
2 Claims. (Cl. 63—14)



1. An ear wire for earrings, comprising, in combination, a U-shaped member of flat stock having a bent base adapted to underlie an ear lobe, an outer arm having an upper surface adapted to abut the outer surface of the ear lobe, and an inner arm having means thereon adjustably movable against the inner surface of the ear lobe to clamp said ear lobe against said outer arm, and an ornament portion projecting forwardly from the upper end of said outer arm, and terminating in a downwardly extending outer portion having an end bent upwardly and inwardly forming a hook behind said downwardly extending portion for hanging a pendant ornament thereon.

2,420,532

PRODUCTION OF CHROMIUM COMPOUNDS

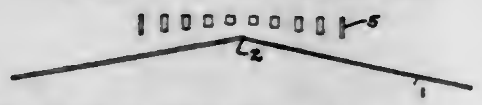
Alan R. Fraser, Sault Ste. Marie, Ontario, Canada, assignor to Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Ontario, Canada, a corporation of Canada
No Drawing. Application April 2, 1942, Serial No. 437,368
4 Claims. (Cl. 23—56)

1. The method of producing chromic acid and calcium chromate which comprises evaporating a portion only of the water of an aqueous solution of calcium dichromate with concomitant decomposition of the calcium dichromate and the production of chromic acid in liquid condition and a precipitate consisting essentially of calcium chromate, and separating the chromic acid and calcium chromate.

2,420,533

WALK FOR RAILWAY HOUSE CARS

Garth G. Gilpin, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application January 10, 1944, Serial No. 517,754
5 Claims. (Cl. 105—457)

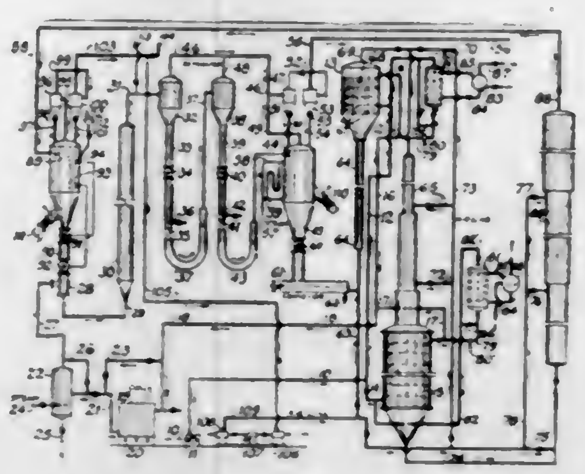


1. A walk for a railway car having a roof sloping downwardly on opposite sides of a ridge at the longitudinal center of the car, said walk comprising a plurality of laterally spaced parallel bars spaced vertically above said roof, the tops of said bars being in a horizontal plane, the depths of the bars increasing from above the ridge of the roof toward the opposite sides of the walk, the spacing of the bars and the cross sectional area of the several bars being proportioned relative to each other so that said walk is of substantially equal strength over the entire area of the walk to support a vertical load.

2,420,534

CATALYTIC CRACKING OF HYDROCARBON OILS

Edwin J. Gohr, Summit, Donald L. Campbell, Short Hills, John M. Graham, Plainfield, and William I. Thompson, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Continuation of application Serial No. 356,840, September 14, 1940. This application December 1, 1943, Serial No. 512,426
3 Claims. (Cl. 196—52)



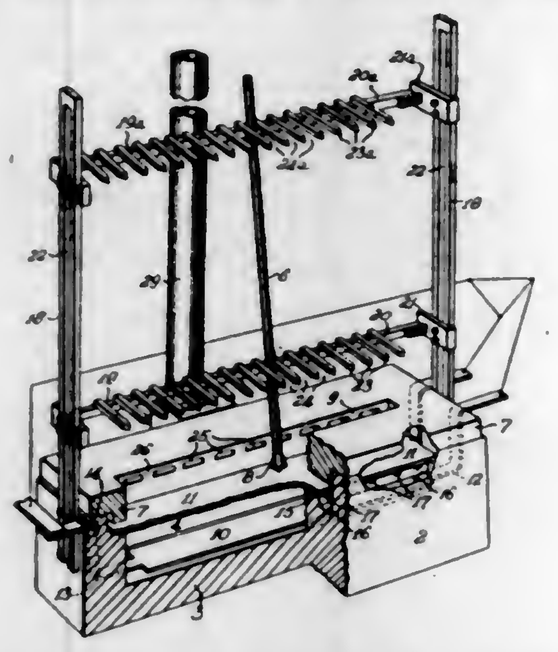
1. A process for cracking hydrocarbon oils which comprises vaporizing the oil to be cracked, mixing the resulting vapors with a finely-divided cracking catalyst to form a suspension, passing the resulting suspension through a cracking zone maintained at an active cracking temperature between 800° and 1000° F., keeping said suspension within said cracking zone for a period sufficient to convert at least 30% of said vapors into motor fuel constituents, thereafter separating cracked vapors from said catalyst, fractionally separating a motor fuel distillate from the resulting vapors, suspending the catalyst so separated in a stream of inert gas to remove volatile hydrocarbon constituents retained on or between said catalyst particles, thereafter separating the catalyst from the inert gas, suspending the catalyst in an oxidizing gas, passing the resulting suspension successively through a plurality of regenerating zones maintained at a temperature sufficient to burn said carbonaceous deposits, passing fresh oil to be cracked in heat exchange relation with the suspension of regenerating gas and catalyst between said successive regenerating zones to thereby preheat said oil and cool said regenerating stream to prevent the temperature thereof from exceeding 1200° F., thereafter segregating the regenerated catalyst from the regenerating gas, and returning the former to the cracking zone.

2,420,535

ELECTRICAL HEATING APPARATUS

Joseph Darius Griffin, Johannesburg, Transvaal, Union of South Africa
Original application March 8, 1943, Serial No. 478,375. Divided and this application May 15, 1945, Serial No. 593,882. In the Union of South Africa, November 21, 1942
13 Claims. (Cl. 13—23)

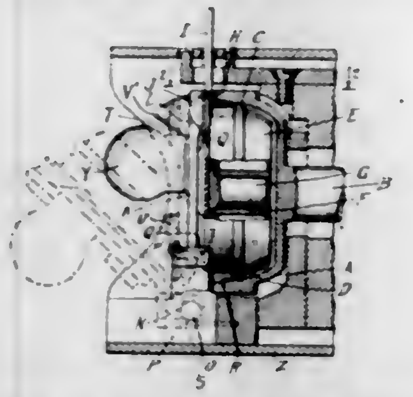
1. An electrically heated salt bath furnace suitable for heating the ends of steel bodies, comprising a well for the bath material, a support positioned in the well above the bottom of the well and below the working level of the surface of the bath material and forming a rest for bodies placed in the bath material, said rest being sufficiently near to said working level to limit the immersion of the ends to that requisite for the object of the heating.



2,420,536

BOBBIN HOLDER POSITIONING AND EXTRACTING DEVICE

Richard K. Hohmann, Jamaica, N. Y., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application January 15, 1945, Serial No. 572,932
4 Claims. (Cl. 112—181)



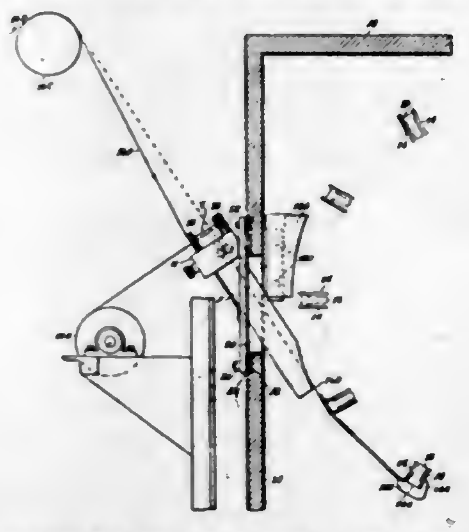
1. In a sewing machine mechanism, the combination with a loop taker turning about an axis and formed with a bobbin holder chamber open at one end, of a bobbin holder, a bobbin holder positioning and extracting member movable toward and away from said loop taker and connection means comprising cooperating portions of said member and bobbin holder having abutting surfaces through which movement of said member toward said loop taker moves said bobbin holder into said chamber, and having other surfaces which extend into overlapping relation across a plane parallel to said axis through which movement of said member away from said loop taker moves said bobbin holder out of said chamber.

2,420.537

ADVANCING REEL THREADING DEVICE

Arthur E. Guenther and Lee B. Molyneux, Buffalo, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 10, 1946, Serial No. 668,648
19 Claims. (Cl. 28—71.5)

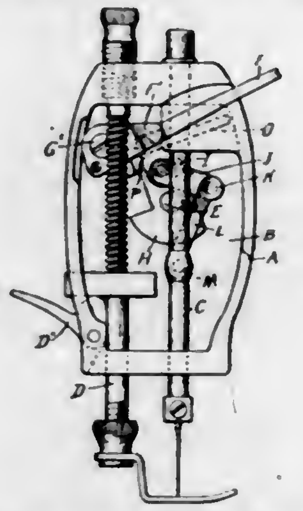
1. In an apparatus for threading yarn or the like onto a rotating yarn-advancing reel having yarn-contacting bars arranged around the periphery thereof and enclosed in a casing having an opening opposite the yarn-receiving end of said reel, a feeder projecting through said opening and having its lower end terminating adjacent the path of travel of said rotating yarn-advancing reel, said feeder having a head positioned outside the casing and provided with a slot through which a threading key having a hook on the leading end and yarn-gripping means at the trailing end thereof is passed, a pair of flexible tubes disposed in said slot and contacting at the center thereof to completely seal off a passage through said slot, said tubes being sufficiently flexible to yield and conform to the contour of the threading key and yarn when passing therebetween, and means in said feeder to guide the threading key as it descends so that the hook thereof will be disposed in the path of travel of the bars of said reel and in position to be engaged by said bars when it is in the lower end of said feeder.



2,420,538

TAKE-UP MECHANISM

Richard K. Hohmann, Jamaica, N. Y., assignor to White Sewing Machine Corporation, Cleveland, Ohio, a corporation of Delaware
Application January 15, 1945, Serial No. 572,930
2 Claims. (Cl. 112—241)



1. The combination with a sewing machine needle bar and a rotating drive shaft extending transversely to a plane which is parallel to the axis of, and intersects said bar and comprising two crank portions at one side of and at different distances from said plane and a connection between one of said crank portions and said bar through which the rotating drive shaft reciprocates said bar, of a rock shaft parallel to and laterally displaced from said drive shaft and at said one side of said plane, a connection between

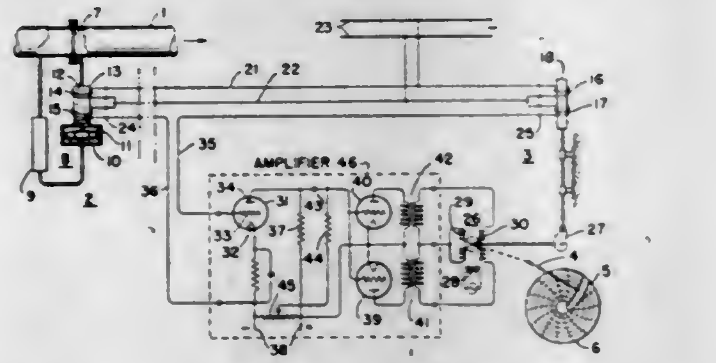
said rock shaft and the second of said crank portions through which said rotating shaft oscillates said rock shaft and a take up arm secured at one end to said rock shaft and having thread engaging means adjacent its other end and having its portion adjacent the rock shaft at said one side of said plane and having its end portion remote from said rock shaft at the opposite side of said plane and extending past said bar and having an intermediate portion extending through said plane.

2,420,539
MEASURING AND CONTROLLING SYSTEM

Anthony J. Hornfeck, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application August 3, 1942, Serial No. 453,488

15 Claims. (Cl. 177—351)



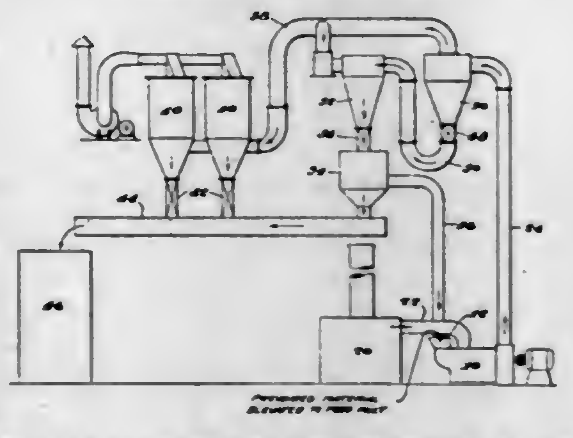
1. A telemetric system, comprising in combination, a primary and a secondary circuit magnetically coupled at a first and a second location, a source of alternating current for energizing said primary circuit, a primary winding at each of said locations connected in the primary circuit, a pair of secondary windings at each of said locations, each pair of secondary windings connected in series bucking relation and in series loop in said secondary circuit, means responsive to the magnitude of a variable for varying the magnetic coupling between the primary winding and the pair of secondary windings at said first location to thereby set up a potential difference in said secondary circuit between said first and second locations, and electromagnetic means responsive to said potential difference.

2,420,540
CUPREOUS POWDER AND METHOD OF MAKING THE SAME

Dean S. Hubbell, Sharpsburg, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 29, 1945, Serial No. 602,399

3 Claims. (Cl. 75—0.5)



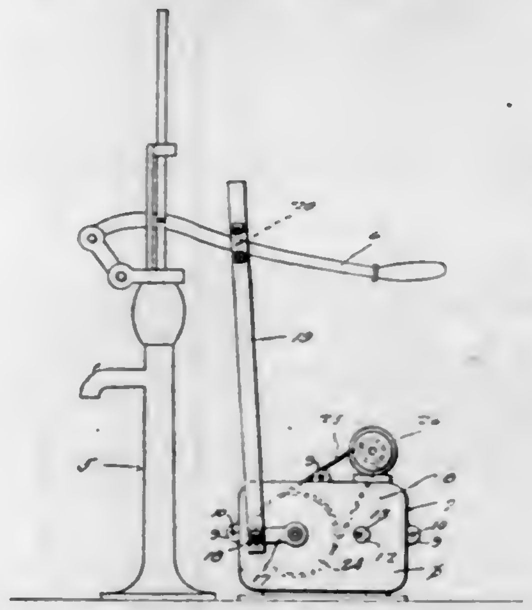
1. As a new article of manufacture, a cupreous powder stable in the air, highly reactive and providing a source of available copper for various chemical purposes comprising a finely divided cupreous powder, the major portion of the particles of which are a few microns in size, and having as a principal constituent friable metallic copper core particles surrounded by protective surface films of cuprous oxide inhibiting oxidation in the air, said films being relatively thin as compared with the size of the enclosed copper cores, the amount of cuprous oxide on the individual cores being at least sufficient to be identified by present X-ray diffraction methods.

2,420,541
PUMP JACK

Grant Jacobs, Des Moines, Iowa

Application February 1, 1944, Serial No. 520,677

5 Claims. (Cl. 74—219)



1. A speed reducing unit comprising a case, a rotary shaft disposed through the case, a tubular shaft projecting into the case and rotatably mounted, a third shaft having its inner end rotatably mounted through the tubular shaft, sprocket wheels carried by the shafts within the case, sprocket chains trained over the sprocket wheels, a motor in driving relation to the third shaft, the tubular shaft being provided with an arm, and means for connecting the arm to a member to be operated.

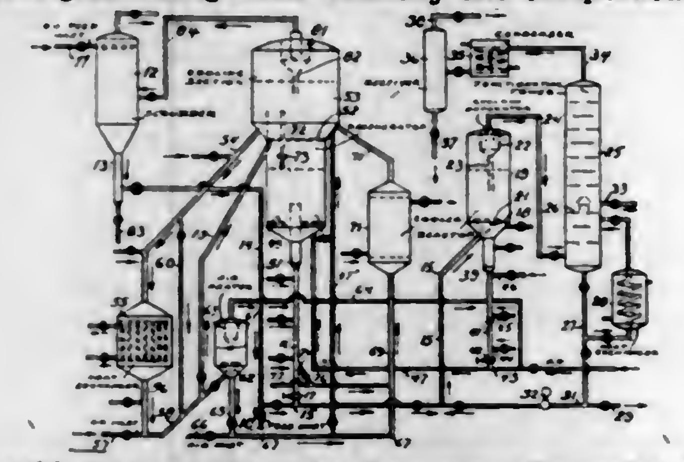
2,420,542
CARRYING OUT CHEMICAL REACTIONS IN THE PRESENCE OF FINELY-DIVIDED SOLIDS

Charles E. Jahnig, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 24, 1942, Serial No. 470,003

12 Claims. (Cl. 196—52)

1. In a process for the regeneration of finely-divided solid material wherein said solid material is subjected to oxidizing conditions in a regenerating zone to remove combustible deposits formed thereon and wherein the regeneration gases removed from said regenerating zone are at a relatively high temperature and contain entrained solid material, the improvement in the process of separating the entrained solids therefrom which comprises passing the regenerating gases removed from the regenerating zone while substantially at regeneration temperature upwardly through a layer of finely-divided solid material maintained in a turbulent condition, passing a cooling fluid in indirect heat exchange with said layer of solid material to maintain the temperature thereof materially below the temperature of said regenerating zone whereby the temperature of said regeneration gas is materially reduced, and thereafter separating entrained solid material from the regenerating gas after passing through said layer.

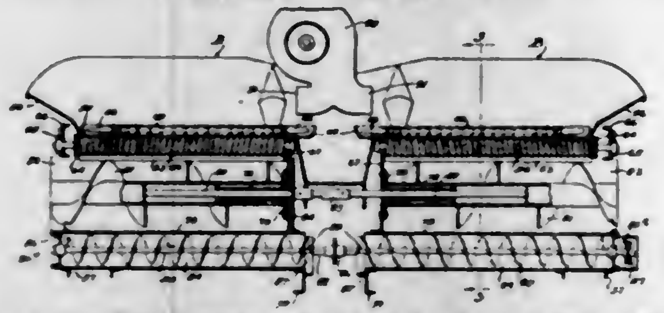


2,420,543
DUAL CORNHUSKING UNIT FOR MULTIPLE ROW CORN PICKERS

Arnold E. W. Johnson, Oak Park, and Benjamin M. Hyman, Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application May 27, 1944, Serial No. 537,719

9 Claims. (Cl. 130—5)



1. A husking unit adapted to be positioned on a tractor at the rear thereof for receiving snapped corn from two spaced snapping means comprising a frame structure extending transversely across the rear of the tractor, two sets of husking rolls mounted on said structure and extending transversely of the tractor, means for driving said rolls, ear conveyor means above each set of rolls for moving ears from the outside ends to the center, a husk-receiving chamber under each set of husking rolls open at its outer end for the discharge of husks, a transverse drive shaft extending into each of said chambers, means to drive said shaft adjacent its central portion, husk-conveying means mounted on each end of said shaft under the husking rolls, a shelled-corn saving grid beneath each husk conveying means in the bottom of the husk-receiving chamber, a shelled corn receiving compartment beneath each grid, a conveyor in each of said compartments driven to advance grain to the center of the husking unit, and an ear and grain receiving compartment at the center of the husking unit for receiving ears from the husking rolls and shelled grain from the conveyors.

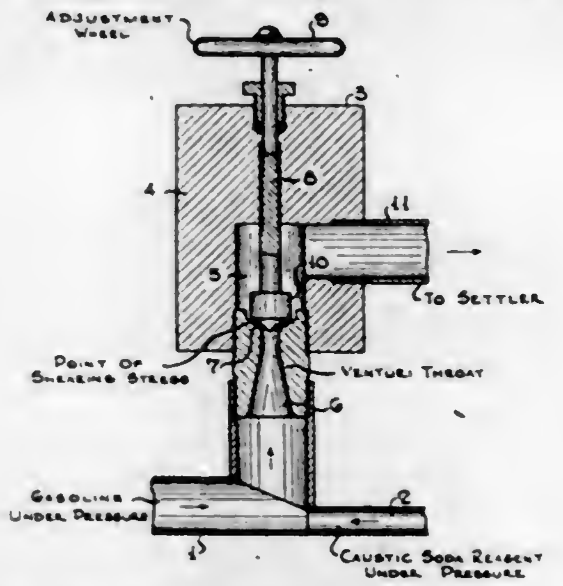
2,420,544
PROCESS FOR THE REMOVAL OF MERCAPTANS FROM PETROLEUM NAPHTHA

Minor C. K. Jones, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application May 15, 1943, Serial No. 487,139

2 Claims. (Cl. 196—32)

1. An improved process for the removal of mercaptans from petroleum naphthas comprising mixing said naphtha with a solution of caustic, subjecting the mixture of caustic and naphtha to a mechanical shearing pressure between 2000 and 5000 lbs. per square inch obtained by forcing the mixture through the extremely small opening of a valve and immediately separating the caustic from the naphtha.



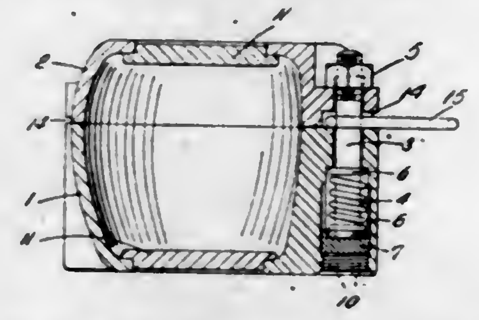
2,420,545
DENTAL FLASK

Sidney Arthur Leader, London, England, assignor to Portland Plastics Limited, London, England, a British company

Application December 29, 1944, Serial No. 570,230

In Great Britain January 28, 1944

10 Claims. (Cl. 18—33)



1. A dental flask comprising an upper and a lower portion, a plurality of chambers each having one closed end and an opening at the other end in one of said portions, a post slidably disposed in each of said chambers and having a portion projecting through said opening in said chamber, a spring in each chamber normally urging the post therein toward the closed end of said chamber, said projecting portion of each of said posts registering with a hole in the other portion of the flask and means cooperating with said other portion of said flask and said post for compressing the springs so that the two portions of the flask are urged together.

2,420,546
REMOTE CONTROL SYSTEM

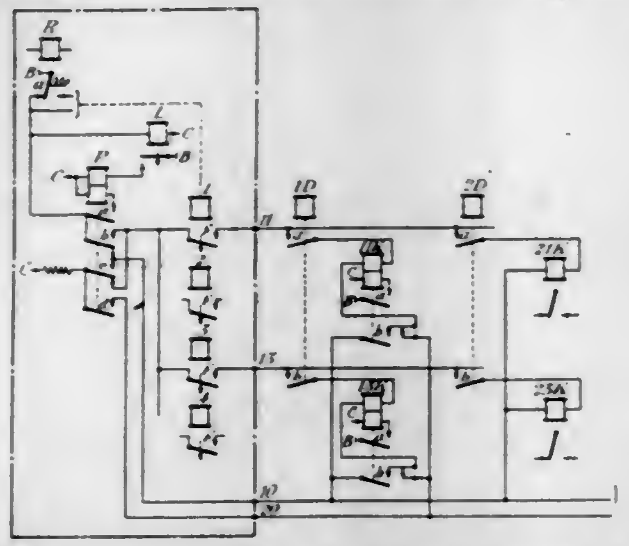
Lloyd V. Lewis, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application February 20, 1945, Serial No. 578,881

4 Claims. (Cl. 177—353)

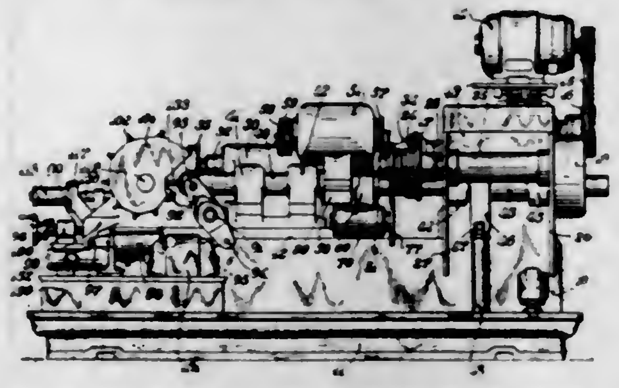
4. In a remote control system, a coding unit, a series of neutral storage relays each biased to one position and having a high resistance winding which is energized by current of a given polarity

when the relay is in its other position, a series of operating circuits including one for each relay of the series each including a low resistance winding of the relay and contacts which connect said winding to one return portion common to all the relays when the relay is in said one position and to another return portion common to all the relays when such relay is in its other position, and means in said coding unit for supplying impulses of a given polarity to selected ones of the operating circuits which include said one return portion and impulses of either said given polarity or of the opposite polarity to each of said circuits which include said other return portion.



2,420,547
PROFILE MILLING MACHINE

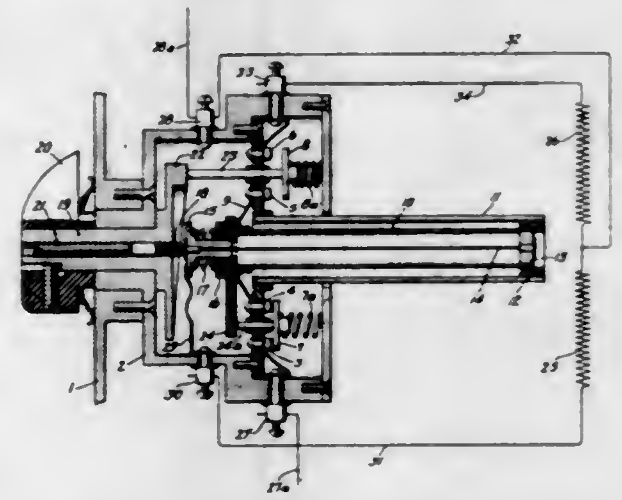
John E. Lovely, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application April 22, 1944, Serial No. 532,287
3 Claims. (Cl. 90—13.7)



1. In a machine tool, a rotatable work piece spindle, means on said spindle for supporting a work piece, cutting means movable transversely of said spindle into and out of cutting relation to a work piece rotatable with said spindle, profile control means including cams rotatable with said work spindle and a follower for said cams controlling movement of said cutting means transverse to said spindle while in cutting relation to the work piece, means for moving said cutting means and follower transversely into and out of cutting relation to the work piece and cooperative relation to one or another of said cams, respectively, means effective on each complete rotation of said work spindle for actuating said moving means to retract said cutter and follower from the work piece and cam, respectively, means for moving said cutter and follower lengthwise of said axis, means for actuating said moving means while said cutter and follower are so retracted to move said cutter and follower lengthwise of said axis to a retracted axial position, a plurality of indexable stops determining different axial distances from said retracted position corresponding to operative positions of the several rotatable cams, means actuated by said axially moving means to index said stops to present them successively into operative position, means actuating said axially moving means to move said tool and follower away from said retracted axial position as far as permitted by the particular stop then in operative position, and means for then actuating said cutter moving means to move said cutter relative to the work and said follower in controlled relation to the cam corresponding to the axial position determined by the operative stop.

2,420,548
CONTROL DEVICE

Kenneth M. Mackay and William J. Sims, Rugby, England, assignors to General Electric Company, a corporation of New York
Application April 30, 1945, Serial No. 591,030
In Great Britain November 3, 1944
3 Claims. (Cl. 200—137)

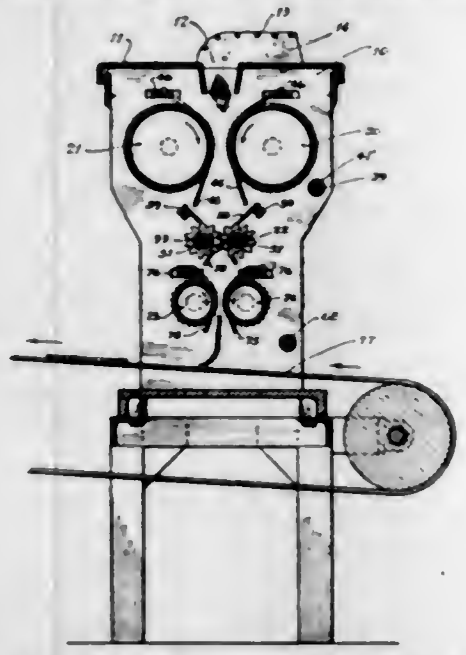


1. A control device comprising a first tubular member, a second tubular member slidably mounted in said first tubular member, a thermally expansible and contractible filamentary member extending longitudinally within said second tubular member having one end secured to one end thereof, a spring interposed between the other ends of said second tubular member and filamentary member to tension the latter member and an abutment for the said other end of said filamentary member preventing any movement thereof in the direction of said abutment so that said second tubular member slides in opposite directions in said first tubular member when only as said filamentary member expands and contracts due to temperature changes, and switch means controlled by the sliding movements of said second tubular member.

2,420,549
MEAT TREATMENT

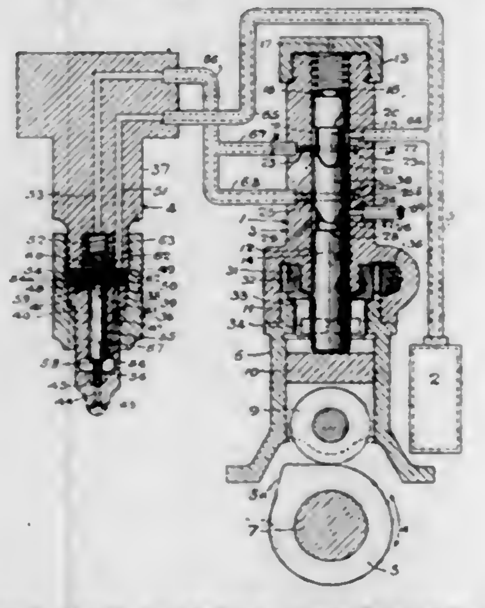
Harry H. McKee, Nicholas J. Dziedzic, and Charles L. Straeten, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application December 5, 1941, Serial No. 421,754
7 Claims. (Cl. 17—26)

1. A method for tenderizing a meat product comprising stretching the product to place the fibers under a stress, then subjecting the stretched product to a physical tenderizing step during which the stressed fibers are severed, and thereafter treating the surface of the tenderized product to substantially close openings therein to inhibit the loss of natural juices from the product which are freed upon severance of the fibers and to improve its appearance.



2,420,550
LIQUID FUEL INJECTION APPARATUS

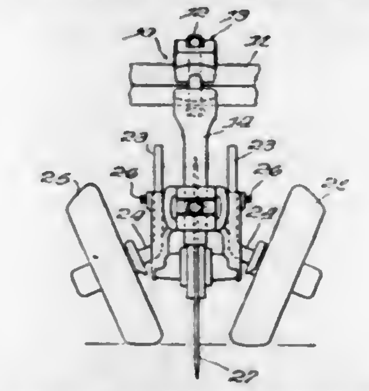
Ralph Miller, Buffalo, N. Y.
Application October 20, 1942, Serial No. 462,673
7 Claims. (Cl. 137—153)



1. Liquid fuel injection mechanism comprising a housing having a longitudinal cylinder for a plunger, a fuel chamber opening into said cylinder at one end thereof and having an opening opposite said cylinder providing a valve seat, and a passage opening into said chamber for directly and continuously supplying injection fuel under pressure thereto; a plunger mounted in said cylinder for free sliding movement having an end, including a shoulder, adjacent said chamber, and a stem extending therefrom terminating in a valve for said seat, said end providing a fuel pressure surface, the opposite end of said plunger being adjacent the opposite end of said cylinder and providing a dual element serving as both a fuel pressure surface and a valve, said housing further having a seat element at said opposite end of said cylinder for said dual element and engaging with the peripheral edge of the adjacent end of said plunger and a fuel passage opening through said seat element for alternate transmission and release of fuel pressure respectively to and from said dual element, said duel element being closed when said stem valve is open, said dual element pressure surface, when said dual element valve is closed, being at least equal in effective pressure area to the effective pressure area of said plunger shoulder-stem end when said stem valve is open; and a spring urging said dual element from said seat element, said plunger operating to control said stem valve through cooperation of said spring and the pressures of said fuel upon said surfaces.

2,420,551
GAUGE WHEEL AND COULTER ASSEMBLY

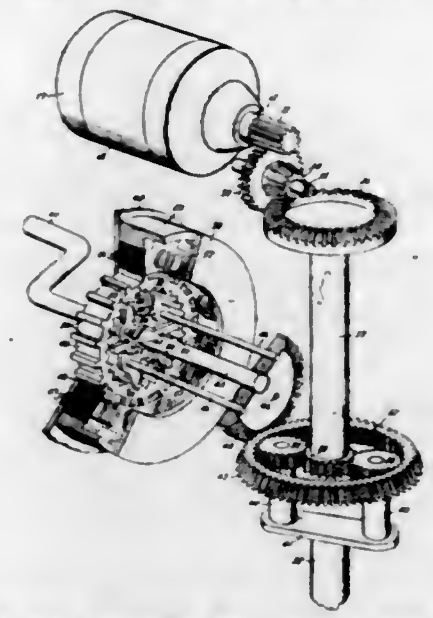
James Morkoski, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 29, 1944, Serial No. 565,622
3 Claims. (Cl. 97—189)



2. In an agricultural implement, in combination, a beam extending in the direction of advance of the implement and having a tool on the rear end thereof, a standard secured to the beam in advance of the tool, a pair of laterally spaced axles, a pair of laterally spaced frustoconical gauge wheels journaled on said axles for rotation in downwardly converging planes substantially parallel to the direction of travel and having their ground-engaging peripheries parallel to the ground, means for mounting said axles on said standard for vertical adjustment with respect thereto, an upright coulter between said wheels having a diameter greater than that of the wheels, and means for mounting said coulter on said standard for rotation independently of said wheels.

2,420,552
DRIVING MECHANISM

Wayne J. Morrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 5, 1942, Serial No. 467,982
22 Claims. (Cl. 74—282)

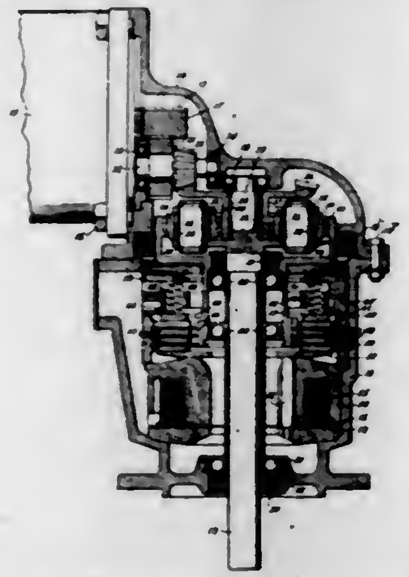


1. A driving mechanism including a pair of driving means, a driven member common to both

of said driving means, means for providing a driving connection between one of said driving means and said driven member below a predetermined torque and having a rotatable means for releasing said driving connection above said predetermined torque, means for holding said one driving means stationary when not in driving operation, and other means associated with said rotatable release means for providing a driving connection between the other of said driving means and said driven member when said one driving means is inoperative and held stationary by said holding means.

2,420,553
TORQUE LIMITING DRIVING MECHANISM

Wayne J. Morrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 5, 1942, Serial No. 467,984
29 Claims. (Cl. 74—291)

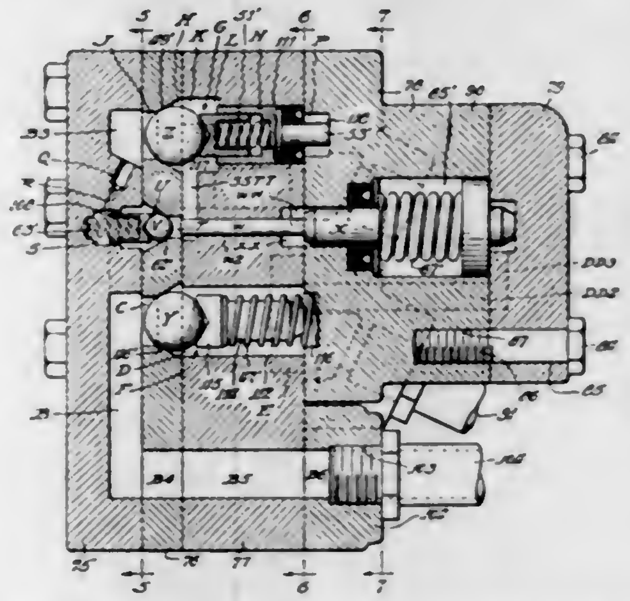


1. A driving mechanism including an electric driving motor and a driven member, and an adjustably preloaded brake means operable in response to the energization of said motor for providing a driving connection between said motor and said driven member below a predetermined torque and for releasing said driving connection above said predetermined torque when said motor is energized, said preloaded brake means including means for biasing said brake toward braking position with a predetermined pressure to provide for release of said brake above said predetermined torque.

2,420,554
FLUID PRESSURE REGULATION AND CONTROL APPARATUS

Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 12, 1943, Serial No. 486,656
10 Claims. (Cl. 277—53)

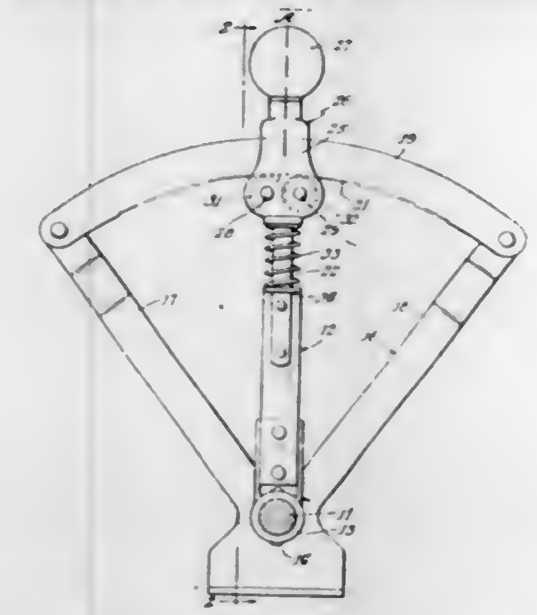
1. In an apparatus for controlling delivery of fluid from a continuous delivery source to a place of controlled discharge, fluid conducting passage means communicative between said source and said place of discharge, a check valve in and dividing said passage means into inlet and discharge portions and operable to check return flow of fluid from the discharge to the inlet of such portions, by-pass passage means communicative with said inlet passage portion for by-passing fluid therefrom, a by-pass valve in the by-pass passage means and settable in a by-pass condition to allow by-pass flow of fluid through the by-pass passage from said inlet passage portion and also settable in a closed condition to check such by-pass flow, and means for setting said by-pass valve comprising a pressure responsive by-pass-valve setting member operable to set the by-pass valve in the closed condition when subjected to one status of fluid pressure differential and operable to set the by-pass valve in the by-pass condition when subjected to another status of fluid pressure differential, a fluid-receiving passage separate from the by-pass passage and communicative from the inlet portion of the fluid conducting passage means to the by-pass-valve setting member to impose said fluid pressure differentials thereon, said fluid-receiving passage having an opening which is openable and closable to respectively provide for the escape of fluid from such passage and for the trapping of fluid therein and thus control the pressure of fluid in such passage, a control valve for said opening, and control-valve setting means operable responsively to a predetermined minimum pressure in the discharge passage portion to set the control valve to create in the fluid-receiving passage a pressure subjecting the by-pass-valve setting member to the one status of pressure differential to incur said closed condition of the by-pass valve and operable responsively to a predetermined maximum pressure in the discharge passage portion to set the control-valve to create in the fluid-receiving passage a pressure subjecting the by-pass-valve setting member to the other status of pressure differential to incur said by-pass condition of the by-pass valve.



2,420,555
QUADRANT LEVER CONTROL

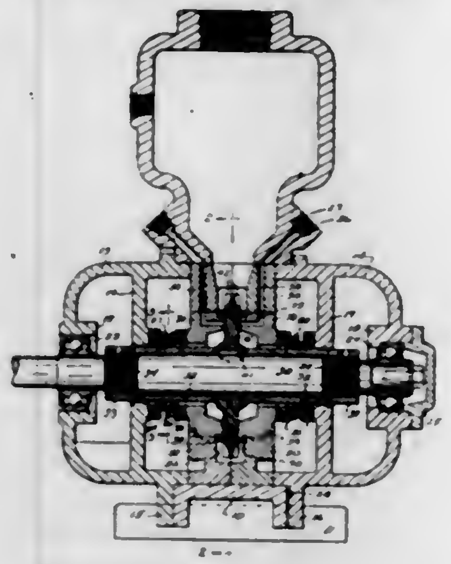
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 6, 1945, Serial No. 614,679
6 Claims. (Cl. 74—530)

1. In a device for releasably locking a control structure selectively along a toothed rack, a gear holder advanceable along said rack and constraining said control structure captive for advancement therewith, a pair of intermeshed companion gears on said gear holder, said holder being tiltable from a locking position wherein said gears are in driving relation with said rack to an unlocked position disrupting the driving relation of one of said gears, and yieldable means operable to pivot said gear holder to establish the locking position thereof and to yieldably maintain said locking position, and said gear holder being tiltable from said locking position to the unlocked position against the force of said yieldable means by a force applied to said holder in the direction for advancing the same.



2,420,556
PUMP

Alexander V. Mueller, Salem, Ohio, assignor to The Deming Company, Salem, Ohio, a corporation of Ohio
Application November 24, 1943, Serial No. 511,577
31 Claims. (Cl. 103—96)

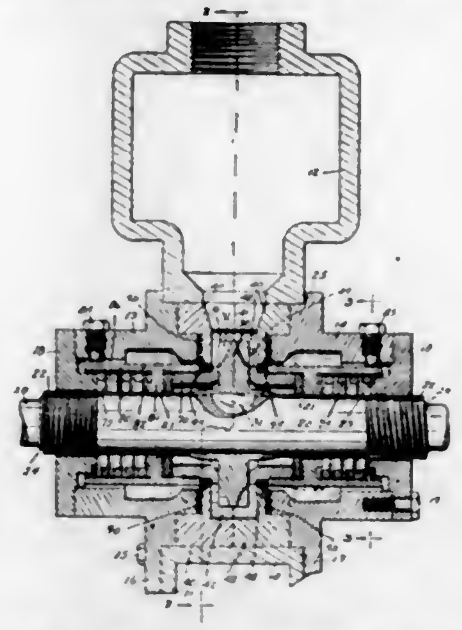


1. In a pump, the combination of a rotary shaft, an impeller thereon having an annular row of vanes adjacent its periphery, means defining a passageway in which the vanes travel, a movable sealing ring surrounding the shaft, means for yieldingly pressing such sealing ring into contact with the side of the impeller, and an annular member coacting with the ring preventing leakage from said passageway across the periphery of said ring.

2,420,557
IMPELLER PUMP

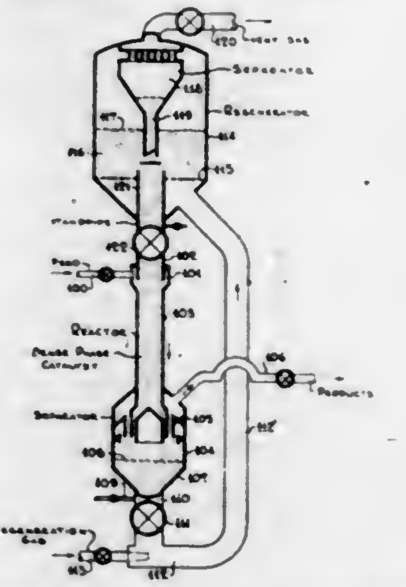
Alexander V. Mueller, Salem, Ohio, assignor to The Deming Company, Salem, Ohio, a corporation of Ohio
Application May 4, 1944, Serial No. 534,022
24 Claims. (Cl. 103—111)

1. In a pump, the combination of a frame, a shaft, an impeller on the shaft, an internal head carrying a water passageway for the impeller, an external clamping head secured to the pump frame and abutting said internal head, an annular diaphragm clamped between said internal and external heads, an annular seal about the shaft abutting the face of the impeller, means for clamping the diaphragm to said seal and means for supplying spring pressure to the seal to maintain it in pressure engagement with the impeller.



2,420,558
CATALYTIC CONVERSION OF HYDROCARBONS

John C. Munday, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 20, 1944, Serial No. 545,813
2 Claims. (Cl. 196—52)



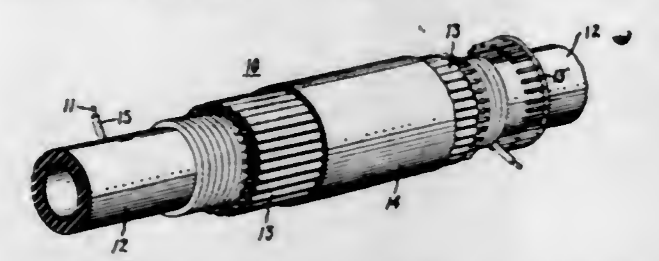
1. In a process for effecting catalytic conversions of a charging stock at conversion temperature with finely-divided solid catalyst wherein said catalyst is contacted with said stock in gaseous phase in a first reaction zone, becomes deactivated, is separated from said charging stock in a separation zone, regenerated in contact with a regeneration gas in a second reaction zone, separated from said regeneration gas and recycled back to said first reaction zone for further contact with charging stock; the improvement which comprises maintaining the solid catalyst, in finely-divided condition, fluidized throughout, first in the gaseous charging stock and then in the regeneration gas in series contact therewith,

recycling the catalyst in the process with a minimum expenditure of energy and a minimum resistance to flow by mounting one of said reaction zones at a higher level than said separation zone, maintaining said other reaction zone as an aerated column in communication with said first reaction zone and said separation zone, introducing a first reactant stream at a low point in said higher level zone and removing the stream from the upper part of said zone, separating catalyst from the upflowing stream in said higher level zone, downwardly withdrawing said separated catalyst from said higher level zone into said aerated columnar reaction zone, introducing a second reactant stream into the top of said aerated columnar zone, passing said second reactant stream downwardly concurrently with said catalyst in said columnar zone, utilizing said column as a reaction zone, as a seal between said higher level zone and said separating zone, and for supplying pressure differential for introducing said catalyst into said separating zone, separating catalyst from said second stream in the separation zone and removing said stream from an upper point thereof, downwardly withdrawing catalyst from said lower separation zone and conveying said downwardly withdrawn catalyst by a gaseous stream back to said higher level reaction zone, while producing a density of the fluidized solid at least within the first reaction zone within the range of 25 to 75% of the density of the freely settled solid.

2,420,559
ARTIFICIAL TRANSMISSION LINE

Richard B. Nelson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 26, 1943, Serial No. 496,139
6 Claims. (Cl. 178—44)



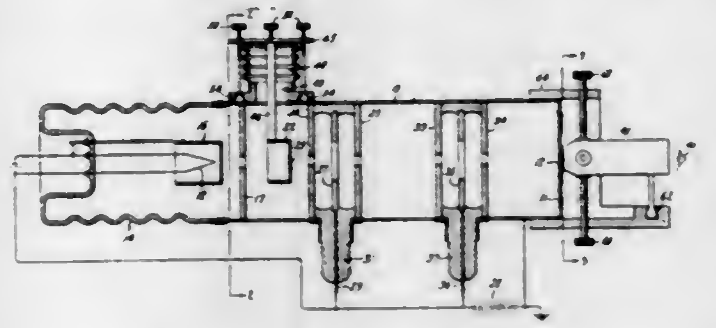
1. An artificial transmission line comprising an insulated inner conductor formed into a helical coil of closely wound turns and closely surrounded by a plurality of closely spaced insulated wires substantially parallel to the axis of said coil, said wires being connected together at a point to form an outer conductor of said transmission line, said line having solid dielectric material disposed between said inner and outer conductors and having an electrical length greater than several wavelengths at the frequency of currents transmitted thereover.

2,420,560
ELECTRON MICROSCOPE

Simon Ramo, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 30, 1942, Serial No. 445,248
2 Claims. (Cl. 250—49.5)

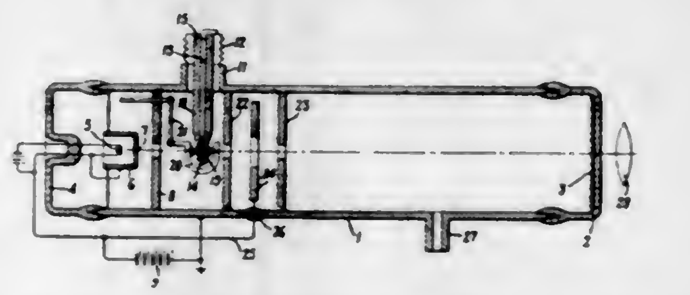
1. An electron microscope comprising a tubular evacuated chamber including a deformable lateral portion, a succession of electron lenses, image reproducing means following said lenses, means for supporting a specimen within said chamber in cooperative relation to the first of said lenses, means for producing a controlled motion of said specimen support in a direction transverse to the axis of said first lens thereby to bring a desired portion of the specimen into the effective object field of the lens, means supporting a later one of said lenses in said lateral portion, and means associated with said lateral portion for producing controlled transverse motion of said later lens.



2,420,561
ELECTRON MICROSCOPE STRUCTURE

Charles H. Bachman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application April 27, 1944, Serial No. 532,978
3 Claims. (Cl. 250—49.5)



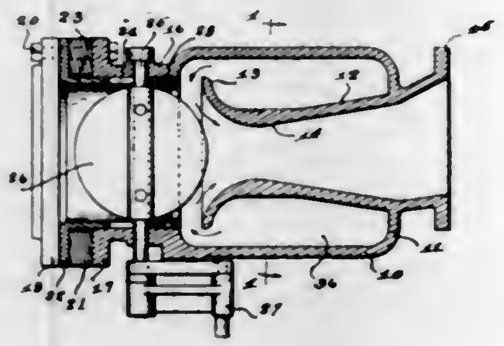
1. An electron microscope comprising an evacuated chamber, means within said chamber for projecting an electron beam, and means for supporting an object to be examined in the path of said beam, said means comprising a tubular member extending into said chamber, said member having a longitudinal slot therein and a transverse aperture communicating with said slot and positioned in the path of said beam, a slide member adapted to fit in said slot and support a specimen to be observed across said aperture, said aperture being minute in size and said aperture and said slot forming a slow air leak between the inner and outer surfaces of said chamber when said slide is removed from said slot.

2,420,562
DEVICE FOR MIXING GAS AND AIR

Edward Rathbun, Toledo, Ohio, assignor to The Rathbun-Jones Engineering Company, Toledo, Ohio, a corporation of Ohio

Application August 8, 1945, Serial No. 609,509
6 Claims. (Cl. 48—180)

2. In a Diesel engine, a device for mixing gas and air for delivery to the intake manifold, said device comprising a housing, a fuel supply Venturi tube having its mouth disposed within the housing, means for delivering air to the tube substantially coaxially of the tube mouth, means for delivering gas to the housing so that the same passes around the tube and into same around the tube mouth, and ported means adjustable in said housing and adapted to engage the tube mouth for enhancing the air-gas mixture drawn into the Venturi tube in accordance with the B. t. u. content of the gas, said ported means comprising a sleeve slidable in the air inlet passage and movable from a position allowing free flow of gas to the Venturi tube to a position in contact with the Venturi tube whereby the gas passes to the Venturi tube through the ports in the sleeve.



2,420,563
CATALYST AND PROCESS FOR DEHYDROGENATION OF HYDROCARBONS

Peter William Reynolds, Arthur William Charles Taylor, and John George Mackay Bremner, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application December 21, 1942, Serial No. 469,718. In Great Britain August 25, 1941
4 Claims. (Cl. 260—683.3)

4. A process for dehydrogenating hydrocarbons which comprises effecting said dehydrogenation in the presence of a catalyst composition obtained by adding to an aqueous aluminum salt solution, free of chromium, a substance selected from the group consisting of ammonia and carbonates of ammonia in an amount sufficient to precipitate substantially all of the aluminum present in said solution, impregnating the hydrous aluminum oxide precipitate with a substance selected from the group consisting of ammonium chromate and ammonium dichromate, adding to the resulting impregnated hydrous aluminum oxide a minor amount of a substance selected from the group consisting of a chromite, chromate and dichromate of zinc and alkali metals, and then cautiously thermally decomposing the resulting product.

2,420,564
PROCESS OF PRODUCING FERROSILICON

Percy H. Royster, Montclair, N. J.

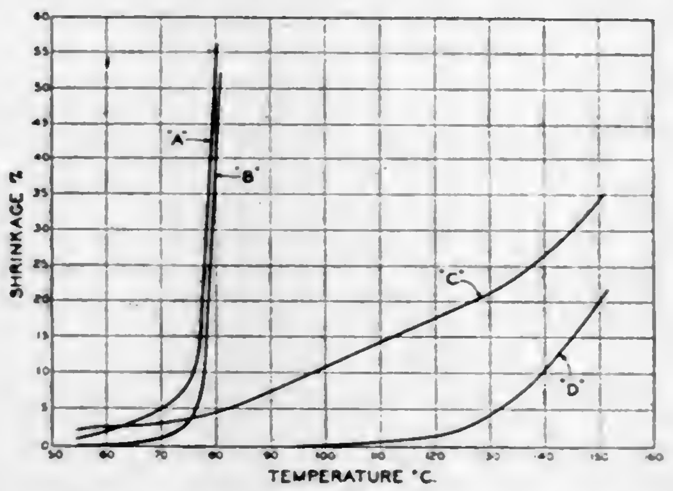
No Drawing. Application April 27, 1942, Serial No. 440,703
7 Claims. (Cl. 75—133.5)

1. Process of producing an iron-silicon alloy of more than 20% silicon in a shaft furnace blown with preheated atmospheric air, which comprises feeding the furnace with solid carbonaceous fuel, silica, iron, alumina and a basic flux, blowing the charge with atmospheric air preheated to a temperature substantially in excess of 1500° F., adjusting and maintaining the amount of silica in the charge to provide a concentration of silica in the resulting slag in substantial excess of that required to combine with its basic constituents, and adjusting and maintaining the amount of solid carbonaceous fuel in the charge to provide sufficient heat to maintain the reduction reactions taking place in the furnace hearth.

2,420,565
SYNTHETIC TEXTILE ARTICLES

Edward W. Rugeley, Theophilus A. Feild, Jr., and John L. Petrokubi, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application February 20, 1943, Serial No. 476,616
7 Claims. (Cl. 28—82)

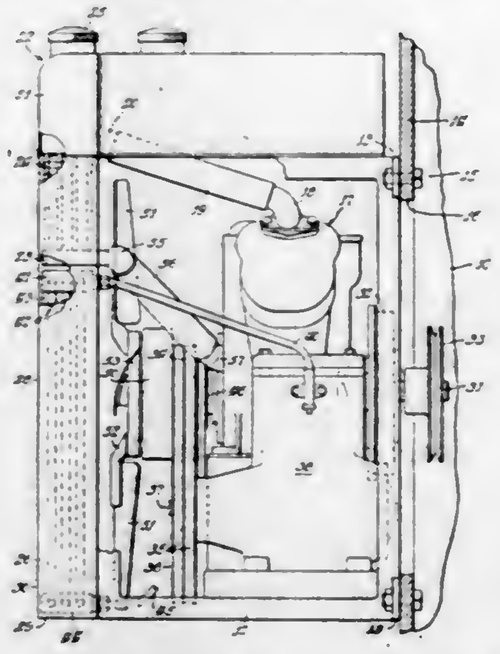


7. Synthetic textile fibers, fabrics and articles comprising stretched yarn composed of filaments formed of a vinyl resin resulting from the conjoint polymerization of a vinyl halide with acrylonitrile, substantially all portions of which resin are free from acetone-insoluble portions, are completely dispersible in acetone at 50° C., contain between about 45% and about 80% by weight of the vinyl halide in the polymer and have a specific viscosity at 20° C. of between about 0.2 and about 0.6, said yarn being dimensionally stable at elevated temperatures around 100° C., and being characterized by high tensile strength, high true elasticity and flexibility; crease resistance; electrical insulating properties; resistance to water, alkalies and dilute mineral acids; and resistance to attack by microörganisms.

2,420,566
ENGINE DRIVEN REFRIGERATION UNIT

Albert W. Scarratt, Kenilworth, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application May 7, 1945, Serial No. 592,338
4 Claims. (Cl. 62—115)



1. A refrigeration unit comprising a frame structure, a water-cooled engine and a compressor mounted on said frame structure, drive

means between said engine and said compressor, and a heat radiating structure mounted across the front of the frame structure, said heat radiating structure including a lower section formed as a condenser for refrigerant, fluid conduit means between said condenser and said compressor, and an upper section formed as a radiator for the engine, said radiator being connected to the engine by inlet and outlet conduits.

2,420,567

PROCESS FOR THE TREATMENT OF MALT SPROUTS FOR USE IN BAKERIES

Roland W. Selman, Jr., Kansas City, Kans., and Homer S. Myers, Kansas City, Mo., assignors to Campbell-Taggart Research Corporation, Kansas City, Mo., a corporation of Missouri

No Drawing. Application February 22, 1943, Serial No. 476,769

4 Claims. (Cl. 99—91)

1. The method of conditioning malt sprouts for use in bakeries comprising pulverizing the malt sprouts, treating the pulverized sprouts at least once with ether of a quantity approximately five times the weight of the sprouts for approximately 15 minutes for extracting said sprouts, separating the ether and substances dissolved therein from the extracted sprout residue, and drying said sprout residue.

2,420,568

RODENT AND INSECT POISON

E. Francis Sennewald, St. Louis, Mo.

No Drawing. Application October 23, 1944, Serial No. 560,046

5 Claims. (Cl. 167—15)

1. A solution of arsenic trioxide in a polyhydric alcohol selected from the group consisting of mannitol and sorbitol, said solution being toxic to rodents and insects.

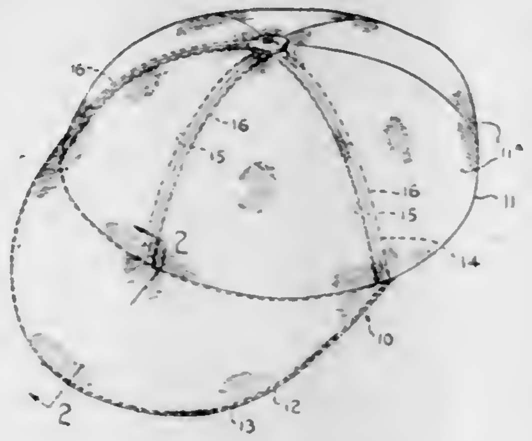
2,420,569

CAP

James Luther Sewell, Akron, Ohio

Application April 17, 1944, Serial No. 531,377

6 Claims. (Cl. 2—195)



1. An attachment for baseball or like caps comprising a visor reinforcing shield having a concave rear edge, a plurality of elongated flexible members integral with the shield having corresponding ends thereof disposed along said concave edge and converging therefrom to a point disposed substantially from said shield both above and rearwardly of said concave edge, said members being adapted to be secured within a cap crown with said shield conforming with the visor thereof.

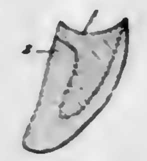
2,420,570

DENTAL RESTORATION, INCLUDING ARTIFICIAL TEETH AND DENTURES

Max S. Shapiro, Brooklyn, N. Y.

Application November 29, 1941, Serial No. 420,922

5 Claims. (Cl. 32—8)



1. A composite artificial tooth, said tooth having a face portion and also having an inner portion, said face portion and said inner portion being made of respective polymerized compositions, each said composition comprising a major proportion of a polymerized acrylic ester, said compositions having been polymerized in situ to their final polymerization condition, said face portion and said inner portion having coalesced abutting faces, said tooth being substantially free from feldspar, said face portion having a minor proportion of hardening material and being harder and less resilient than said inner portion, said face portion and said inner portion being integral at said abutting faces.

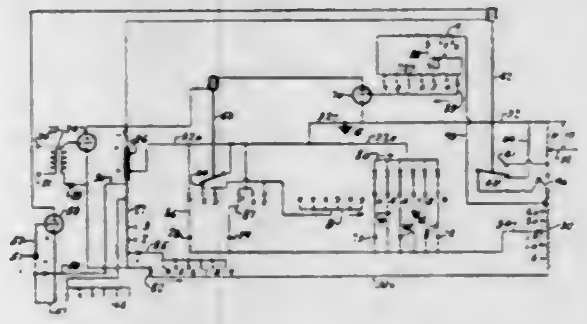
2,420,571

GAIN-CONTROLLING SYSTEM FOR SEISMOGRAPHS

Edwin J. Shimek, Dallas, Tex., and Goethe M. Groenendyke, Norman, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application June 7, 1944, Serial No. 539,146

10 Claims. (Cl. 177—352)



1. In a seismograph system having a detector of seismic waves transmitted through the earth, an electrical recorder of said waves and a thermionic amplifier interconnecting said detector and said recorder, said amplifier having means responsive to a negative bias for controlling the contraction and expansion of the amplification thereof, the combination of a resistor, a source of potential for producing a potential difference across said resistor, means for applying this potential difference to said amplifier as said negative bias, capacitors, a charging circuit for said capacitors including said source of potential and a part of said resistor, means for applying to said resistor and to said capacitors a potential difference of polarity opposite to that of said source to produce a forced decay of said negative bias to zero and thence to a positive value, means for producing said decay at different selected time rates between a low limit of high negative bias and a high limit of zero bias without changing the time interval between said low limit and said high limit, and means for changing the initial high negative value of said bias without changing the time at which said bias is reduced to zero.

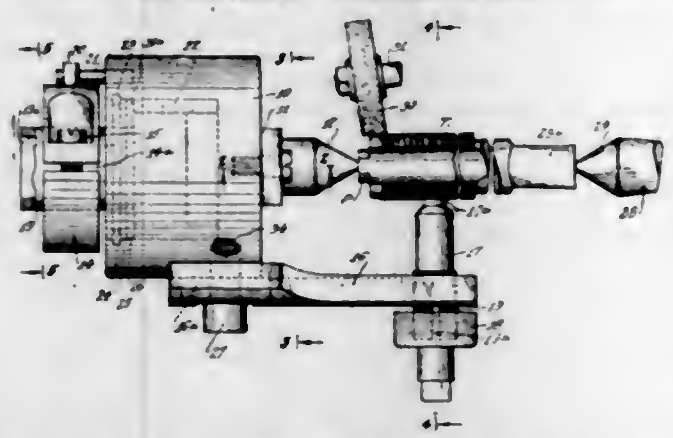
2,420,572

TAP GRINDING FIXTURE

Laurence F. Southwick, Meriden, and Rossiter R. Holt, Manchester, Conn.

Application January 10, 1946, Serial No. 640,273

11 Claims. (Cl. 51—237)



1. In a tap-grinding fixture, a barrel, a support therefor, a center plate pivotally secured to the inner face of said barrel, said plate having a tapered center, means to swing said plate about its pivotal axis to vary the eccentricity of said center, a carrier arm rigidly secured to the circumference of said barrel and rotatable with said barrel as a unit, and a radial locating stud secured to said carrier arm and adapted to engage a flute of the tap being ground by a grinding wheel, said stud serving as a handle to rotate the tap eccentrically about the axis of the barrel so that the desired degree of relief may be obtained during the grinding of each tap land.

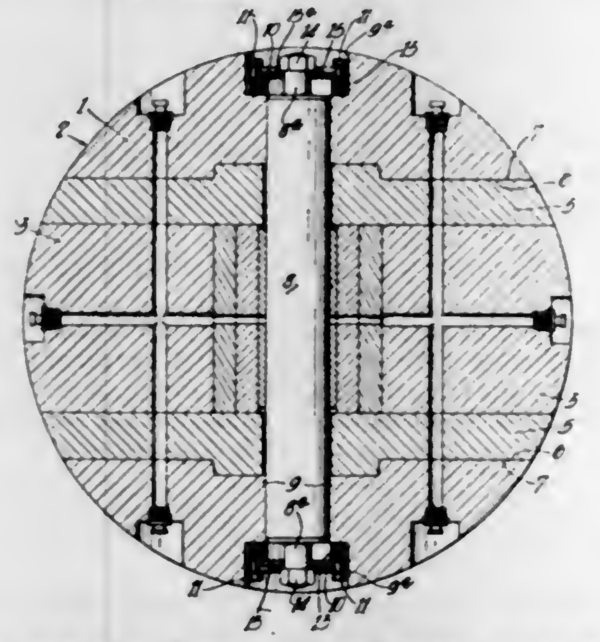
2,420,573

METAL ROLLING MILL UNIVERSAL SPINDLE COUPLING

Robert G. Stewart, Sr., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application October 22, 1943, Serial No. 507,336

4 Claims. (Cl. 64—7)



1. A metal rolling mill, universal spindle coupling of the type including a socket part receiving a tongue swinging between slippers having curved surfaces working between curved surfaces of the socket part, with a bearing pin fitted in a passage extending transversely through the socket part, slippers and tongue so as to closely engage the pin transversely while permitting play longitudinally of the coupling; the coupling being characterized by having the pin provided with smaller diameter, concentric, axially extending necks and by the length of the pin and the necks being less than the width of the socket part between the pin passage openings, and by having disks fixed inside the passage end portions with holes through which the pin necks extend, but which are smaller than the pin, the disks being positioned so that upon pin breakage the pin parts move far enough toward the passage openings to cause the necks to function as pin-breakage tell-tales without projecting beyond the passage openings to become hazards, and the necks having fastenings on their ends beyond the disks for engaging the latter and thereby positioning the pin, while it is unbroken, centrally of the socket part in its proper relation respecting the socket part, slippers and tongue.

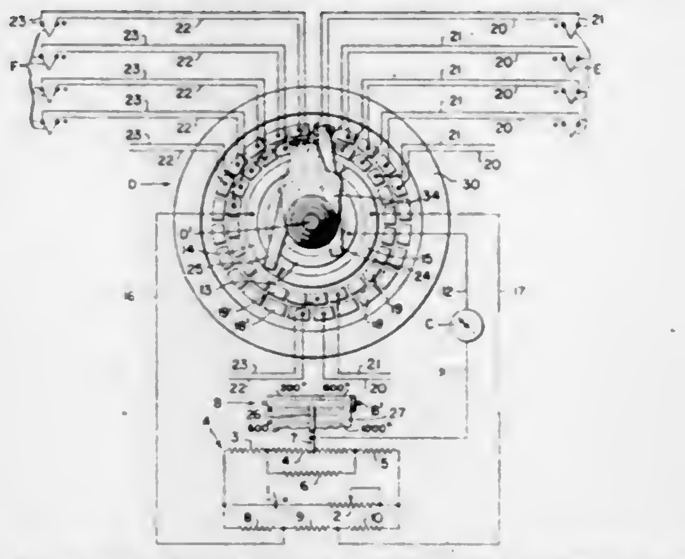
2,420,574

ELECTRICAL MEASURING APPARATUS

Carlton S. Tegge, Haddon Heights, N. J., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 29, 1944, Serial No. 551,760

5 Claims. (Cl. 171—95)



1. In apparatus for measuring the voltages of three or more varying voltage sources, the combination with a potentiometric bridge circuit comprising a slide wire resistance, a resistor and a source of current maintaining current flows through and potential drops in said resistance and resistor, a contact adjustable along said slide wire resistance, a current responsive device, and means including a selector switch mechanism, comprising a series of switch contacts, one for, and individually connected to each of said sources, a switch element movable to successively engage the different switch contacts one at a time and in a predetermined order, a separate conductor for, and individually connected to each of said sources, and other conductors connecting said mechanism to said device, contact and each end of said resistor, said mechanism being operable when said switch member is moved to successively engage said switch contacts, to successively connect said voltage sources, one at a time, and in a predetermined sequence, in series with said device between said contact and one end or the other of said resistor, depending in the case of each source on its position in said sequence.

2,420,575

BRASSIÈRE

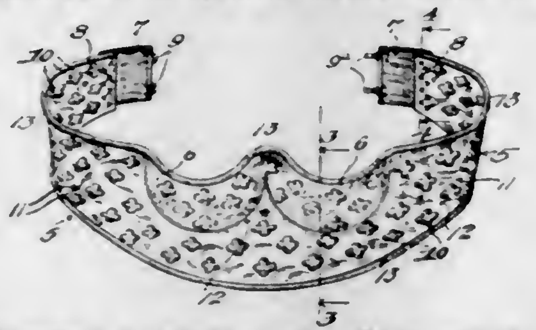
Jeannette E. Treadwell, San Antonio, Tex.

Application April 3, 1945, Serial No. 586,321

4 Claims. (Cl. 2—42)

1. A brassière including a flexible body-encircling band, said band including a main portion of normal longitudinally curved form and

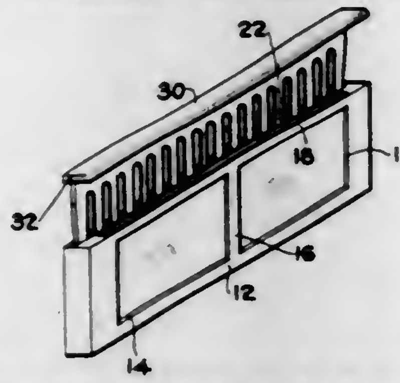
consisting of a relatively narrow elongated strip of thin wholly plastic material provided with permanently shaped breast-receiving and supporting pockets, said main portion being provided in and substantially throughout its inner surface with a plurality of spaced unconnected recesses, each affording a suction cup effect which causes the main portion to cling to the body of the wearer and thereby resist lowering of the brassière, and means to separably connect the ends of said main portion at the back of the wearer so as to secure the band in snug contact with the wearer's body.



2,420,576

COMB AND CASE THEREFOR

Earl Silas Tupper, Farnumsville, Mass.
Application August 2, 1945, Serial No. 608,427
5 Claims. (Cl. 132—79)

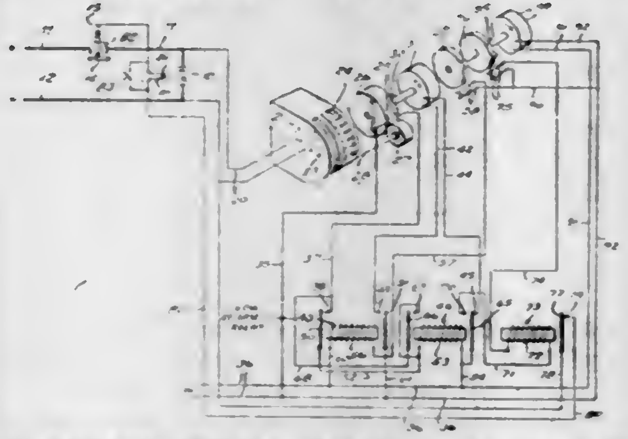


5. A comb case comprising a narrow elongated article having thin front and rear walls connected together and open along a long edge, a partition intermediate the walls dividing the case into a pair of open pockets, means in each pocket rigidifying the case, the means in one pocket comprising a removable toothed comb, a back on the comb, a portion of said back lying exterior of the case, and comprising a lateral head overlying the walls and pockets along the open edge of the case to close the latter.

2,420,577

ELECTRIC CONTROL SYSTEM

Frederick D. Van Lew, Bronxville, N. Y.
Application June 23, 1945, Serial No. 601,102
12 Claims. (Cl. 320—40)

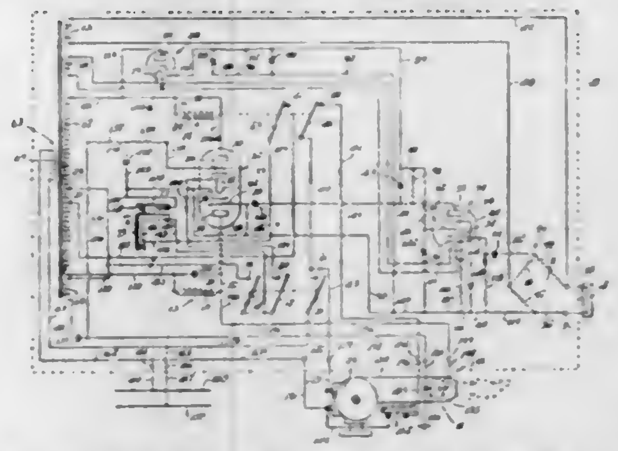


9. A storage battery charging circuit control system, comprising a charging circuit, a control relay therefor, a voltmeter connected to respond to the battery voltage, means periodically set as a function of the reading of said voltmeter, and means responsive to two successive unchanged settings of said last means to actuate said control relay for interrupting the charge.

2,420,578

CONDITION CONTROLLING APPARATUS

John M. Wilson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 25, 1944, Serial No. 551,226
23 Claims. (Cl. 236—1)

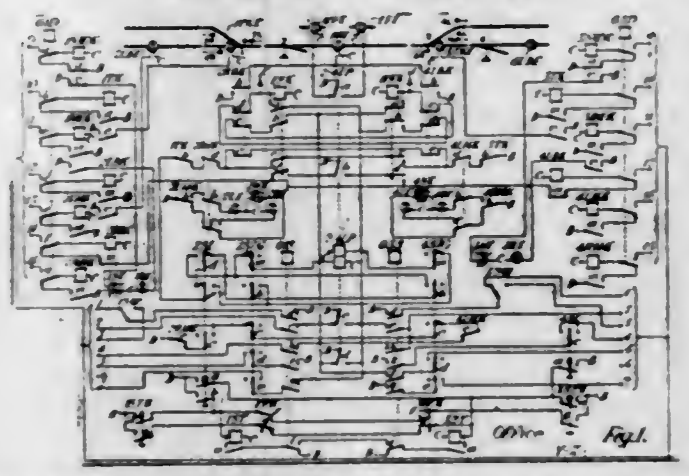


8. In burner control apparatus, an electrically operated device for controlling a burner, an electronic amplifier for controlling the energization of said device, condition responsive means for controlling said electronic amplifier, a safety cut-out device including an electrically energized element and operative upon continued energization of said element to cause said safety cut-out device to assume cut-out position, means including said safety cut-out device for controlling said electrically operated device, an energizing circuit for said device including said amplifier and said electrically energized element in series, means operative upon energization of said device to energize said electrically energized element independently of said amplifier, and means including a combustion responsive device for causing deenergization of said element upon said combustion responsive device being subjected to combustion conditions.

2,420,579

RAILWAY TRAFFIC CONTROLLING APPARATUS

Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 4, 1943, Serial No. 501,254
13 Claims. (Cl. 246—3)

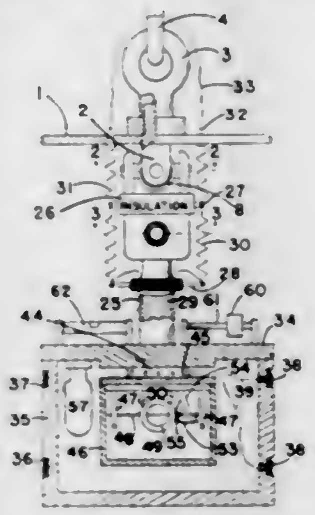


1. In combination with a stretch of single track railway divided into block sections, signals for governing traffic movements in opposite directions into the stretch, a system of reversible circuits for controlling the signals; a line relay, an approach relay, a block relay and a traffic direction relay at each end of the stretch; means controlled by the traffic direction relays in corresponding positions for revisibly connecting a source of current to said system of circuits at one end in series with the associated approach relay and for connecting the line relay at the other end thereto to energize said approach relay when the adjacent block section is unoccupied and to distinctively energize said line relay only when the remaining block sections are unoccupied, means controlled by each line relay when distinctively energized for clearing the adjacent signal, and means for energizing each block relay when the adjacent approach relay is energized and also when the adjacent line relay is distinctively energized, and indication means controlled jointly by said block relays to indicate when the entire stretch is unoccupied.

2,420,580

MAGNETOMETER

Leland L. Antes, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 15, 1942, Serial No. 447,020
7 Claims. (Cl. 175—183)



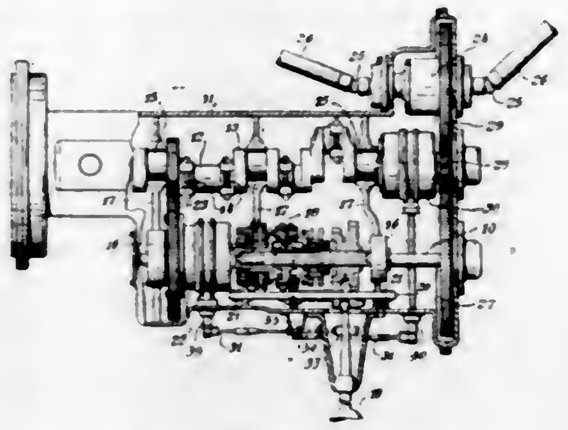
2. A remote reading magnetometer comprising a coil having its plane normally in a vertical position, a rod passing through the transverse axis of said coil and rigidly connected thereto, means for supplying alternating current to said coil, whereby said coil is caused to oscillate by the vertical component of the earth's magnetic field, means remote from said assembly for indicating the torque in said rod as a result of the oscillations of said coil and means operably associated with said rod for communicating said torque to said indicating means.

2,420,581

TRANSMISSION FOR STEAM OR INTERNAL-COMBUSTION ENGINES

Laurence Guy Bacon, Torquay, England
Application December 21, 1944, Serial No. 569,179
In Great Britain November 30, 1943
2 Claims. (Cl. 192—3.5)

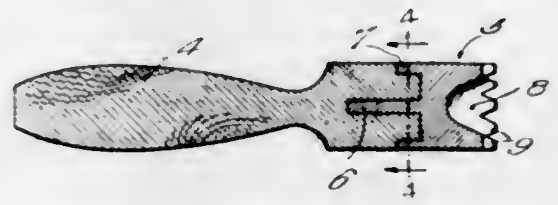
1. In a reciprocating engine having a driving crank shaft and a driven member, an auxiliary shaft adjacent and parallel to the crank-shaft, gear elements on said crank-shaft and gear elements on said auxiliary shaft, said gear elements on the crank shaft being in operative engagement with the gear elements on the auxiliary shaft, gear-change elements on said auxiliary shaft, means for transmitting a drive from said crank shaft to the driven member, means for transmitting a drive from said auxiliary shaft to the driven member, a first clutch device on said crank shaft, a second clutch device on the auxiliary shaft, and means for operating said first and second clutch devices so that one of said clutch devices is in the clutching position while the other of said clutch devices is in the declutched position whereby a drive may be transmitted to the driven member direct from the crank shaft or through the gear-change elements and the auxiliary shaft.



2,420,582

DEHORNING PASTE APPLIER HAVING A SERRATED EDGE

Charles C. Bowman, Helena, and Howard F. Bowman, Augusta, Mont.
Application August 12, 1946, Serial No. 689,933
1 Claim. (Cl. 128—303)

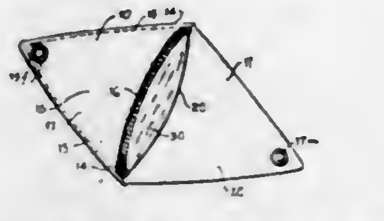


An applicator for dehorning paste comprising a handle, a head carried thereby, said head being provided with an inwardly extending shank lodged in the handle, the said head having an annular flange spaced from the shank for the reception of parts of the handle by which the joint between the head and handle is produced, the outer end of the head having a recess for containing paste and the edge of the said head having dull teeth formed in its periphery.

2,420,583

SHOULDER PAD

Nathan Breslow, Joseph Stein, and Harry Kneitel, Brooklyn, N. Y.
Application November 6, 1945, Serial No. 627,023
7 Claims. (Cl. 2—268)



1. A shoulder pad adapted to be placed close to the juncture between the shoulder portion and sleeve of a garment, in combination, an outer triangular envelope formed of two pieces sewed

along two edges to provide a triangular pocket presenting a pocket opening at the third edge, one of the said two pieces extending beyond the said pocket opening to present a triangular flap, the said envelope being stitched at the three corners of its said pocket to the underside of the said shoulder portion of the garment with the said pocket opening juxtaposed to the said juncture of shoulder portion and sleeve, and with the said flap in underlying relation to the envelope pocket, a pad proper comprising a triangular casing formed of two pieces sewed along two edges and cotton batting contained within the said casing and exposed at the open edge thereof, the said pad proper being insertable in the said envelope pocket with the said open edge of its casing disposed at the said pocket opening, and a pair of cooperative snap fasteners secured at the apex of the said triangular pocket and at the apex of the said triangular flap for maintaining the flap in folded position closing the said pocket opening.

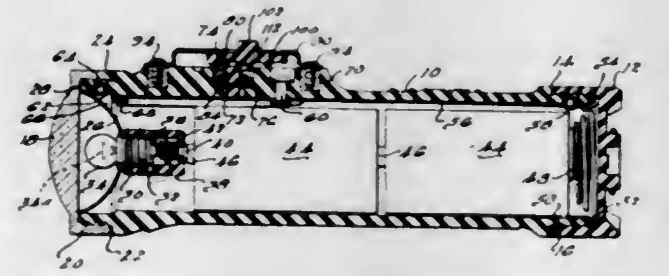
2,420,584
PROCESS FOR PREPARING n-BUTYRALDIMINE

Marshall R. Brimer, James E. Magoffin, and Harold Von Bramer, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 9, 1945, Serial No. 598,645
4 Claims. (Cl. 260—566)

1. A process for preparing n-butyraldimine comprising reacting one molecular proportion of n-butyraldehyde with at least one molecular proportion of ammonia, in the presence of from about 2 to about 4 molecular proportions of water for each mole of ammonia.

2,420,585
FLASHLIGHT

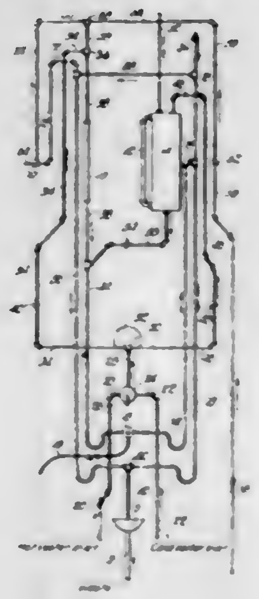
William C. Crimmins, Marion, Ind., assignor to Delta Electric Company, Marion, Ind., a corporation of Indiana
Application September 21, 1944, Serial No. 555,061
6 Claims. (Cl. 200—60)



1. In a flashlight having a casing provided with an opening therethrough and otherwise sealed against the entrance of water and a movable switch element positioned within said casing, means for actuating said switch element through said opening, said means comprising a switch-actuating member extending from the exterior of said casing axially through said opening and into operative engagement with said switch element, and a flexible resilient washer-like element of water impervious material positioned within said opening and having its outer margin in sealing engagement with the internal walls of said opening and its inner periphery surrounding and in sealing engagement with said actuating member to thereby seal said opening, at least the outer portion of said opening being of substantially the same size as the outer periphery of said washer-like element to provide for ready insertion of said washer-like element into sealing position in said opening, said actuating member being radially spaced from said inner walls of said opening adjacent said flexible element to provide for axial distortion of said flexible element and for axial movement of said actuating member to operate said switch element.

2,420,586
COLON THERAPY APPARATUS

Roy W. De Welles, Kansas City, Mo.
Application September 24, 1943, Serial No. 503,619
1 Claim. (Cl. 128—227)

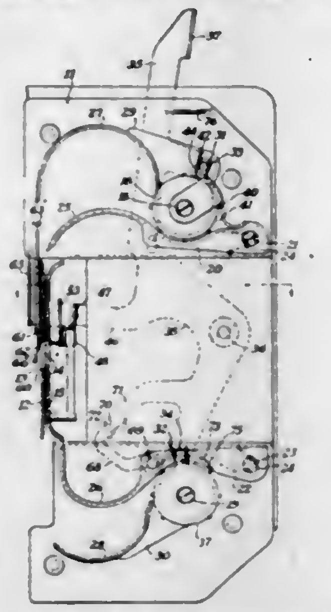


In colonic irrigating apparatus of the character described, a vertical closely looped conduit having connection with a source of liquid; means for introducing oxygen under pressure to the liquid as it enters said vertical conduit; means for introducing compressed air to said liquid as it enters said vertical conduit; apparatus at the lowermost end of the conduit for connecting the same to an injection medium; and manually operable means for selectively introducing controlled amounts of the air and said oxygen into the vertical conduit for admixing with the liquid.

2,420,587
SELF-THREADING DEVICE FOR PROJECTORS

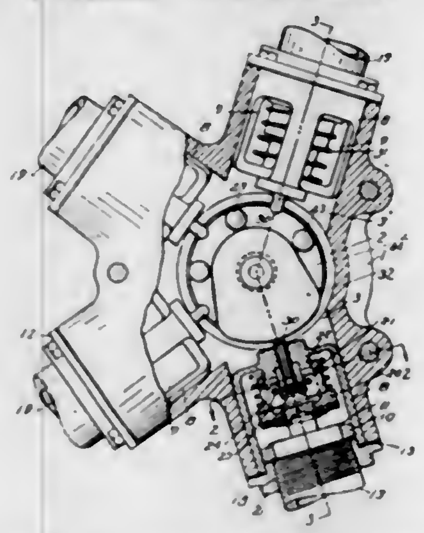
Michael Dietrich, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 15, 1945, Serial No. 593,778
13 Claims. (Cl. 88—17)

1. A self-threading mechanism for a motion-picture projector having a film exit comprising, in combination, means for feeding and guiding a film strip through said projector, a pair of movable loop formers positioned adjacent said feeding means and adapted to form a pair of loops in said strip, a single pivoted lever directly connected to both of said formers and movable in one direction to position said loop formers in loop forming relation, means rendered operative upon movement of said lever to lock the latter to retain the formers in said loop forming relation, a trip member formed on said locking means and positioned in said exit so as to be moved by the leading edge of said strip during the passage thereof through said exit to move said locking means to release said lever, and a portion of said lever then engaging said locking means to hold said trip out of said exit to permit the free passage of the film strip therethrough.



2,420,588
PLURAL WAY VALVE

John Russell Dunnihoo, Corry, Pa., assignor, by mesne assignments, to Rohlm Manufacturing Company, Incorporated, Erie, Pa., a corporation of Kansas
Application November 5. 1942, Serial No. 464,539
6 Claims. (Cl. 277—20)

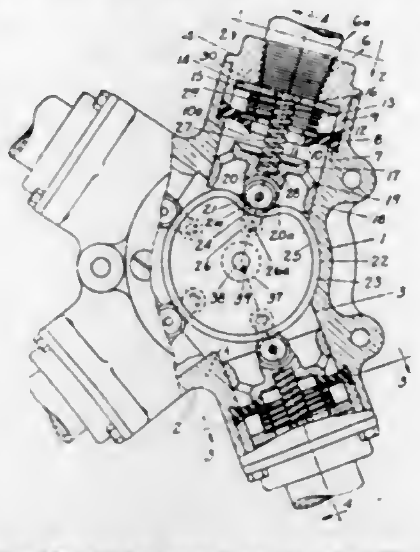


6. In a valve, an assembly mountable as a unit in a way comprising a valve slidable inward and outward, a cage loosely surrounding the sides and ends of the valve and including a valve seat engaged by outward movement of the valve, a spring between the valve and cage urging the valve against the seat, and a valve operating member slidable in the cage for moving the valve away from the seat.

2,420,589
VALVE

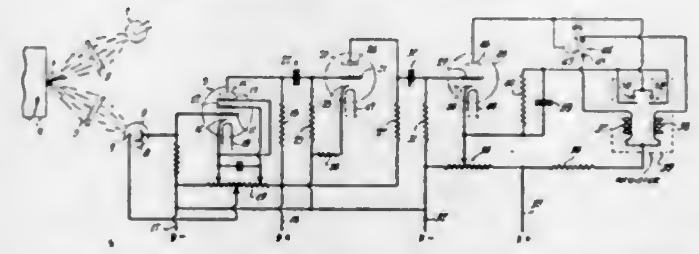
John Russell Dunnihoo, Erie, Pa., assignor to Rohlm Manufacturing Company, Inc., Erie, Pa., a corporation of Kansas
Application December 13, 1943, Serial No. 514,054
12 Claims. (Cl. 251—132)

11. A valve comprising a body having a chamber from which a way extends, a valve seat comprising an annular diaphragm of flexible material with a seating surface at its center, the outer edge of the seat secured to the wall of the way and the inner edge of the seat yielding and spaced from the wall of the way, a valve head operating to and from said seating surface, means operating the head, and a spring operating on the inner edge of the flexible seat and yieldingly resisting the flexing of the seat.



2,420,590
COUNTING DEVICE

James G. Everhart, Zanesville, Ohio, assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application November 29, 1944, Serial No. 565,767
2 Claims. (Cl. 235—92)

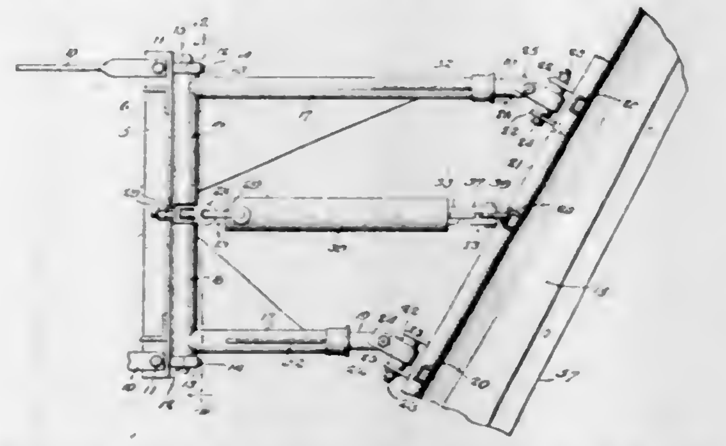


1. An electronic counting device comprising a revoluble member, initiating means for initiating electrical impulses in accordance with the revolutions of said revoluble member, electronic means controlled from said impulse initiating means, electromagnetic means controlled from said electronic means and arranged to selectively count in a positive or negative sense, and selector switch means responsive to the direction of rotation of said revoluble member and arranged to determine the sense in which the electromagnetic counting means will count, said impulse initiating means and said selector switch means being separate means.

2,420,591
SNOW PLOW

Newton B. Frame and John W. Keim, Buckhannon, W. Va.
Substituted for application Serial No. 190,666, February 15, 1938. This application September 28, 1945, Serial No. 619,025
1 Claim. (Cl. 37—42)

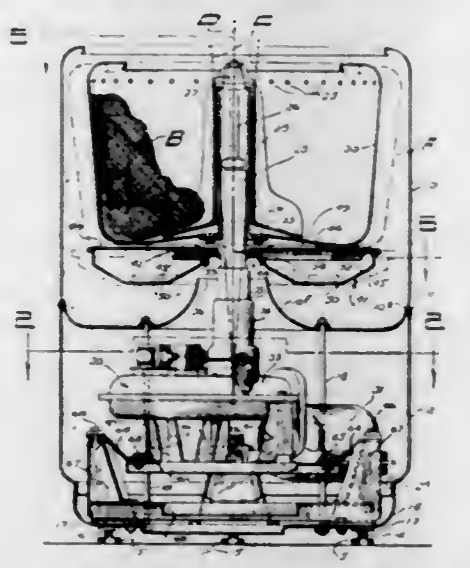
In a snow plow, a support adapted to be mounted on the front end of a tractor, said support comprising a shaft, horizontal tubular members mounted on the shaft, the adjacent inner ends of the tubular members being spaced apart, tubular supporting members extending forwardly from the outer ends of the horizontal tubular members, a channel bar secured to the shaft and disposed between the adjacent ends of the horizontal tubular members holding the horizontal tubular members in spaced relation with respect to each other, a curved plow blade, rods extending into the free ends of the forwardly extended tubular members, means for mounting the plow



blade for vertical pivotal movement on the forward ends of the rods, and means for yieldingly holding the plow blade in its operative position.

2,420,592
BALANCING MEANS FOR CENTRIFUGAL MACHINES

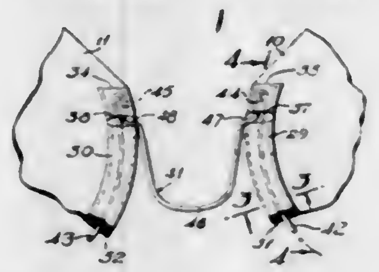
Andrew H. Gerhardt, Skokie, Ill., assignor to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application June 30, 1944, Serial No. 542,850
5 Claims. (Cl. 74—573)



5. In combination with an upright driving shaft, a supporting member rigidly mounted on said shaft and having a frusto-conical peripheral surface, a self-adjusting counter-balancing unit comprising a housing of hollow, annular form, the inner wall of the housing, surrounding the central opening therein and extending generally in an axial direction being of frusto-conical form for cooperative seating on the frusto-conical surface of the member for supporting and frictionally driving said housing, and a plurality of rings mounted loosely within the housing, in surrounding relation to said central frusto-conical wall, the inner surface of said wall constituting cam means and serving to guide said rings for causing vertical movement thereof, incident to transverse movement of said rings caused by centrifugal force incident to rotation of the housing, the outer peripheral wall of said housing including an inverted frusto-conical portion, the inner surface of said portion constituting cam means adapted to cooperate with said aforementioned cam means to confine said rings for vertical movement in substantially horizontal planes, and the bottom wall of the housing, connecting said inner and outer frusto-conical portions, being of flat annular form and disposed in a substantially horizontal plane, the width of said bottom wall being correlated to the diameters of said rings so that when said rings are at a position of rest, they normally tend to assume a position substantially centrally of the width of said annular bottom wall.

2,420,593
BRASSIÈRE

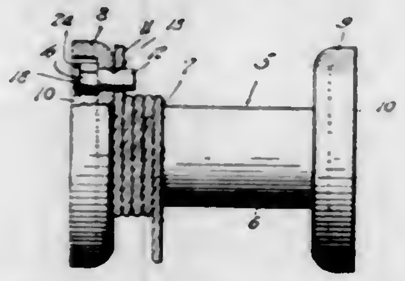
Harry Gluckin, New York, N. Y., assignor to The Gluckin Corporation, New York, N. Y., a corporation of New York
Application November 19, 1945, Serial No. 629,574
7 Claims. (Cl. 2—42)



1. In garments having breast pockets, means forming channels bordering portions of the periphery of the pockets, said means having openings adjacent and inwardly of ends of the channels at adjacent sides of the pockets, a unit breast supporting frame, said frame having end portions adapted for detachable mounting in the channels of the pockets through said openings to reinforce the channelled portions of the pockets, a bridge member integrally joining and spacing said end portions centrally of the frame, and end portions of the frame joining the bridge member in loops fitting in the channels ends at adjacent sides of the pockets in retaining the pockets against displacement from the frame.

2,420,594
CABLE ANCHOR FOR WINCHES

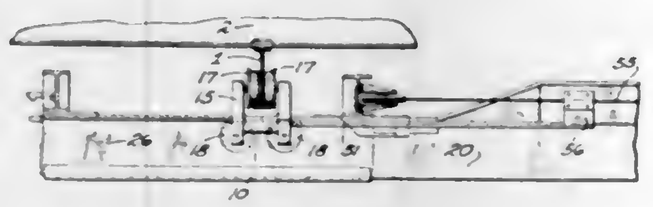
Mark Manley Hall, Prescott, Ariz., assignor of one-third to Delmar F. Reeves, Phoenix, Ariz.
Application November 15, 1945, Serial No. 628,852
2 Claims. (Cl. 242—117)



1. A cable end anchoring means for winches having a drum on which the cable is wound and a flange at each end thereof comprising, a cylindrical cable clamping pin of substantially uniform diameter slidably fitting an opening in one of said flanges and projecting from the inner and outer faces of said flange, said pin being of diameter considerably greater than the cable to be clamped and having an opening diametrically therethrough adjacent the inner end adapted to receive the end of the cable, said opening being elongated axially of said pin, the outer projecting end of said pin being threaded and a nut engaging said threaded end and adapted to engage the outer face of the flange for drawing said pin outwardly of the flange whereby to clamp the cable end between the inner face of the flange and the inner end of the opening through said pin.

2,420,595
SHUTTLE CRANE

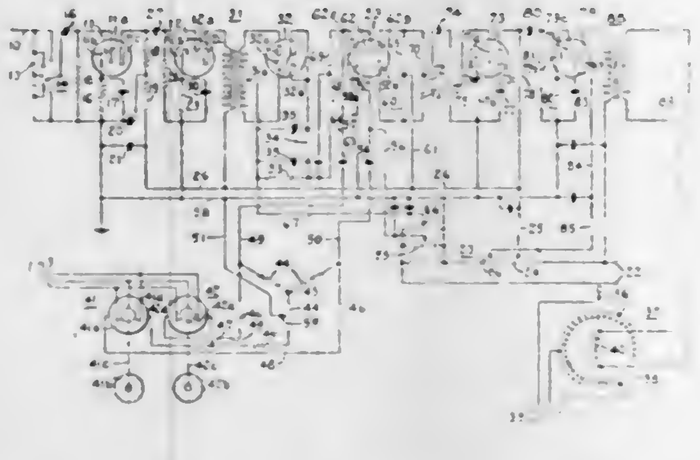
Frank C. Harris, Bay Village, Ohio, assignor to The American MonoRail Company, Cleveland, Ohio, a corporation of Ohio
Application December 26, 1944, Serial No. 569,833
16 Claims. (Cl. 104—98)



1. A suspended crane comprising trolleys having upper wheels to run on spaced parallel runways and having lower wheels, a bridge to extend transversely between and beyond both runways and having rails to run on the tops of said lower wheels, and means for moving said bridge endwise on said lower wheels, said means including a drum on said bridge and flexible means connected to said trolleys and operatively engaging said drum.

2,420,596
VACUUM TUBE VOLTAGE INDICATOR OR RECORDER

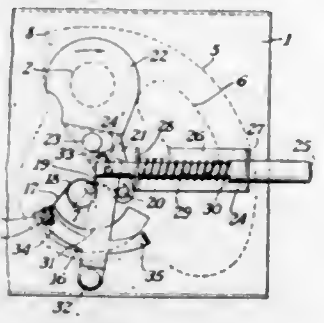
Edgar T. Howes, Pasadena, Calif.
Application September 2, 1943, Serial No. 501,025
12 Claims. (Cl. 171—95)



1. A voltage indicator including means for receiving a voltage to be indicated, means for producing a substantially constant alternating electrical voltage, means for producing another alternating electrical voltage displaced in phase from the first-mentioned alternating electrical voltage, an electron discharge tube circuit including at least two grids, means for supplying the alternating electrical voltages to said electron discharge tube circuit, means including one of said grids for supplying the substantially constant alternating electrical voltage to said electron discharge tube circuit, means including the other of said grids and responsive to the voltage received for supplying the other of the alternating electrical voltages to said electron discharge tube circuit in approximate proportion to the voltage received, means including coupling resistors for combining the alternating electrical voltages, and means responsive to the combined alternating electrical voltages for indicating the voltage received.

2,420,597
INEXPENSIVE CAMERA SHUTTER

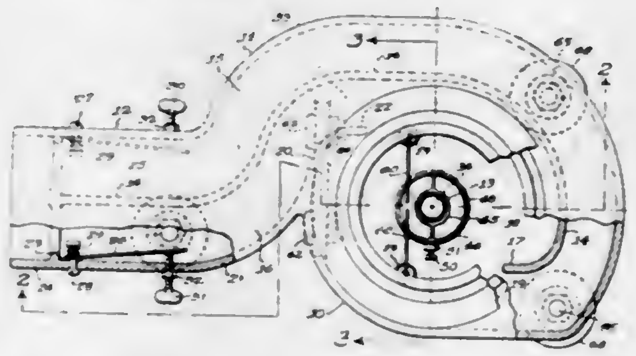
Miller R. Hutchison, Jr., and Alois L. Wehr, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 27, 1945, Serial No. 585,068
10 Claims. (Cl. 95—60)



1. A shutter for cameras comprising, in combination, a supporting plate having an exposure aperture therein, a shutter blade pivotally mounted to one side of the exposure aperture on the supporting plate, an exposure aperture in the shutter blade, a pin carried by the shutter blade, an arcuate slot in the supporting plate through which said pin may swing, a cover blind pivotally mounted on the opposite side of the supporting plate and adapted to move to and from an exposure aperture covering position, a spring normally holding the cover blind covering the exposure aperture, a trigger connected to the cover blind for moving it against the spring, a hairpin spring connected to the cover blind and to the pin extending through the arcuate slot in the supporting plate and positioned to be tensioned and released by moving the cover blind in one direction, and a rebound control device directly connected to the cover blind to be moved thereby to and from a position to intercept the pin moving through the arcuate slot.

2,420,598
LIQUID FUEL BURNER

James H. Jackson, Detroit, Mich.
Application October 4, 1945, Serial No. 620,336
10 Claims. (Cl. 158—28)

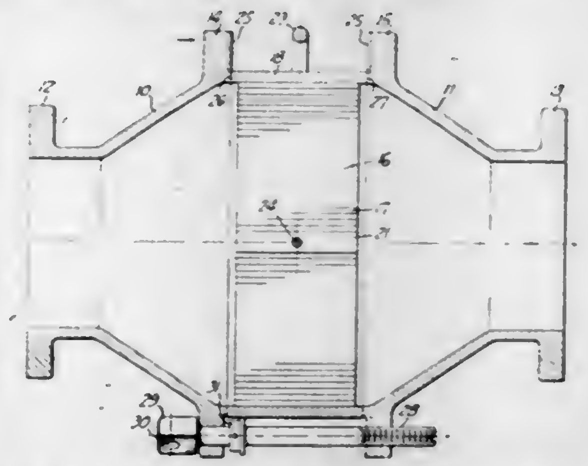


1. In a liquid fuel burner, a casing having therein an air chamber with an outlet, a liquid fuel spray nozzle mounted in said chamber and directed toward the outlet thereof, an air supply conduit connected to said chamber, said conduit having an internal longitudinal partition therein dividing said conduit into outer and inner air supply ducts, said ducts discharging into said chamber at locations remote from each other and on opposite sides of said outlet and means in said conduit for constricting the flow of air through one of said ducts whereby to proportion the air passing through said ducts into said chamber.

2,420,599

FLAME ARRESTER

Peter C. Jurs, Piedmont, Calif., assignor to Shand and Jurs Company, a partnership
Application February 4, 1944, Serial No. 521,051
3 Claims. (Cl. 48—192)

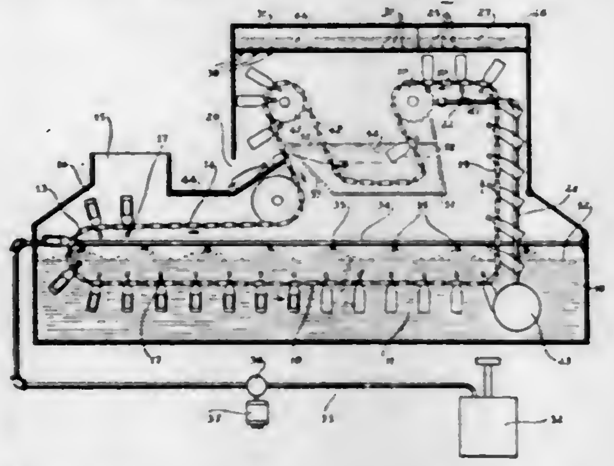


1. In a flame arresting device of the character described, a pair of hollow body sections adapted to be connected with piping, a flame arresting unit adapted to be interposed between the body sections and comprising a flame arresting core surrounded by a rigid shell, flanges formed on the ends of the body sections adjacent the ends of the shell, a plurality of bolts engaging said flanges and serving to draw the body sections into clamping engagement with the ends of the shell, the bolts on one side of the device being pivotally attached to one of said flanges and engaging in slots in the other flange whereby such bolts can be swung to an out-of-the-way position to facilitate removal and introduction of the flame arresting unit, the bolts on the diametrically opposite side of the device having non-pivotal engagement with said flanges, and collars mounted upon said last mentioned bolts and located adjacent one of said flanges, said collars serving to apply force tending to separate the body sections from engagement with the shell when the bolts mounting said collars are turned in one direction, said collars being dimensioned to engage the peripheral surface of the shell so that the flame arresting unit is generally centralized with respect to the central axis of the body sections.

2,420,600

METHOD OF PREVENTING FOAMING IN BOTTLE-CLEANING APPARATUS

Philipp M. Kallusky, San Francisco, Calif., assignor of one-half to Clarence E. Kallusky, Wadena, Minn.
Application December 21, 1942, Serial No. 469,761
3 Claims. (Cl. 252—321)

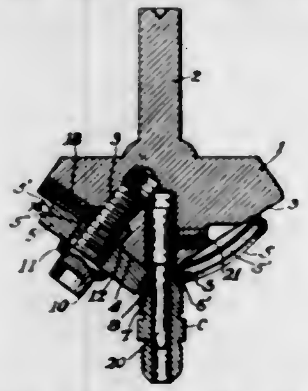


1. The method of eliminating foam from a body of liquid employed in a process which causes the formation of foam in the liquid solution and masses of foam upon the surface thereof, wherein articles such as labeled bottles are washed in a highly alkaline liquid, which consists in the formation of a body of carbonated water saturated with carbon dioxide, and held therein under pressure, delivering the said saturated carbonated water by said pressure from its body above the surface of the liquid and the foam thereon, and forcing a requisite amount of said carbonated water upon and through the masses of foam and upon and into the body of said liquid.

2,420,601

SEATING AND FACING TOOL

Zar W. Kelley, Bedford, Ohio, assignor to Z & W Machine Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 13, 1944, Serial No. 526,225
2 Claims. (Cl. 29—105)



1. In a seating and facing tool, a tool body having a central axis and a frustro-conical portion provided with circumferentially spaced flat faces disposed at an acute angle to the axis of the body, disc-like cutters secured against said flat faces and having apertures therethrough, said body being provided with recesses registering with said apertures in the cutters, means for adjusting said cutters radially of said body comprising sleeves having cylindrical portions journaled in the recesses in the body and eccentric portions engaging the apertures in the cutters, and means for rotating said sleeves.

2,420,602

ELECTROLYTIC CLEANING PROCESS

Richard W. Kingerley, Jr., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 5, 1943, Serial No. 478,115
7 Claims. (Cl. 204—145)

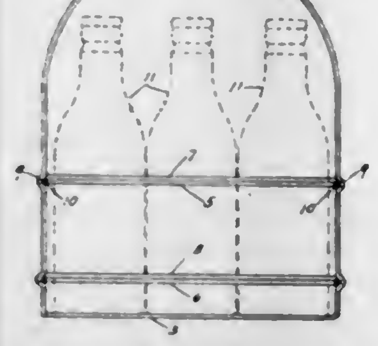
1. In a process for the removal of mineral oil from a ferrous metal following cold-rolling of the metal using the oil as a lubricant the step comprising electrocleaning the metal in a silicate detergent solution comprising essentially a sodium silicate having an SiO_2/Na_2O weight ratio from about 1.9 to 2.4, the weight ratio of total SiO_2 to total Na_2O in the solution also being in the range from 1.9 to 2.4.

2,420,603

BOTTLE CARRIER

James C. Lee, Birmingham, Ala.
Application November 13, 1944, Serial No. 563,147
1 Claim. (Cl. 224—48)

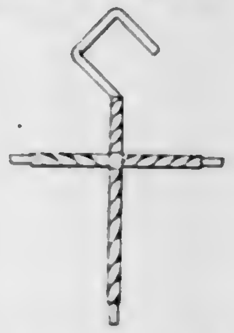
A collapsible carrier for bottles comprising two duplicate members made of wire and formed into an endless shape substantially half round and half square, two notches bent into the portion of each extending from the round part to the square part; and two duplicate members made of wire and formed into an endless shape substantially oblong and having two notches bent into each of their shorter portions; and having in each a straight piece of wire extending from the center of the said shorter portion to the center of the opposite shorter portion and firmly attached to said portions; said notches in the round-square members and said notches in said oblong members being adapted when said members are assembled together to hold same firmly as an assembled shape as a bottle carrier.



2,420,604

ADHESIVE WRAPPING TAPE

Orvis H. Leidy, Grosse Pointe, Mich., assignor to Michigan Chrome & Chemical Company, Detroit, Mich., a corporation of Michigan
Application July 9, 1945, Serial No. 603,955
3 Claims. (Cl. 154—53.5)



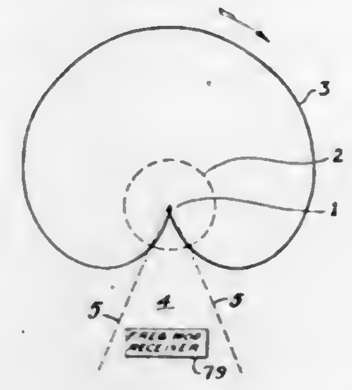
1. An electrolytic protective flexible elastic tape comprising a generally homogeneous resinous ribbon-like strip having a generally glossy surface adherent to itself but yet capable of satisfactory handling and having a tensile strength sufficient for tight wrapping of the tape without breaking or tearing, said tape being of substantially greater thickness in its central portion than at its marginal edges whereby, when applied to and maintained under tension on an article to be treated and subsequently heat treated, there results a fusing together of adjacent portions of the tape in order to provide a tight and effective seal while retaining the tensile strength in the thicker portion of the tape.

2,420,605

FREQUENCY MODULATED ROTATING RADIO BEACON

William G. McConnel, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 16, 1942, Serial No. 451,136
14 Claims. (Cl. 250—11)

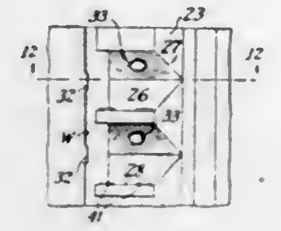
1. In a radio beacon, means for producing a non-directional space radiation pattern of periodic energy frequency modulated with a predetermined characteristic, means for producing a directional space radiation pattern of periodic energy frequency modulated with a second predetermined characteristic, and means for rotating said directional pattern in space.



2,420,606

WORKHOLDER FOR USE IN GRINDING AND POLISHING TRANSMISSION SURFACES OF ROOF PRISMS

John H. McLeod and John R. Turner, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 3, 1943, Serial No. 493,352
4 Claims. (Cl. 51—216)



4. A blocking tool for use in grinding and polishing a transmission surface of a roof prism having at least one surface which is finished and comprising a block having its top surface provided with a recess of suitable configuration to receive said prism oriented so that the transmission surface thereof to be worked is substantially parallel to and extends above said top surface of the block; a plurality of spaced supports extending from one wall of the recess adapted to engage a finished surface on the prism and accurately locate it in a plane at right angles to the top surface of the block; an elongated support extending from another side wall of said recess and adapted to engage a surface of said prism adjacent to said first-mentioned finished surface in a line substantially parallel to the plane defined by said first-mentioned spaced supports; and a supporting post extending from a third wall of said recess at an angle to the vertical and inclined toward one of said aforementioned supporting means and adapted to engage the roof surface of said prism opposed to one of the supported surfaces thereof; said supporting means for the three surfaces of the prism in combination providing a kinematic locating and supporting means for the prism by virtue of which said finished surface of the prism is accurately moved into, and held in, engagement with the spaced supports by a resultant downward pressure on the transmission surface of the prism to be ground and polished.

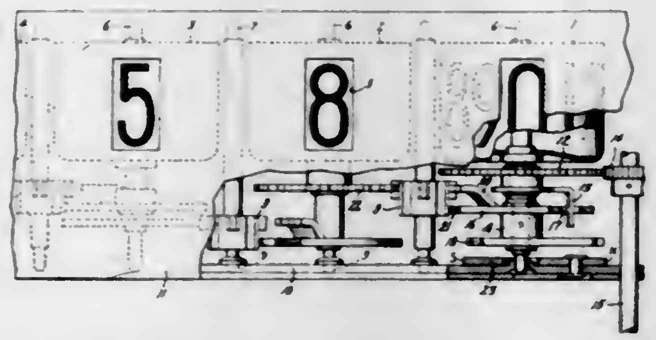
2,420,607

MAGNETIC REPULSION GENEVA MOVEMENT

Lewis I. Mendelsohn, Lynn, Mass., assignor to General Electric Company, a corporation of New York

Application September 26, 1945, Serial No. 618,773

7 Claims. (Cl. 235—91)



1. In a mechanical drive, a rotary driving member and a rotary driven member, a lost motion driving connection between said members and means for producing a quick forward advance of the driven member ahead of its driving member at a given point in the path of rotation of the driven member comprising a permanent magnet on the driven member, and a stationary permanent magnet positioned adjacent the path of movement of the driven magnet such that at one point in the path of rotation of the driven magnet a magnetic repulsion force is set up between said magnets sufficient to drive the driven member forward ahead of its driving member.

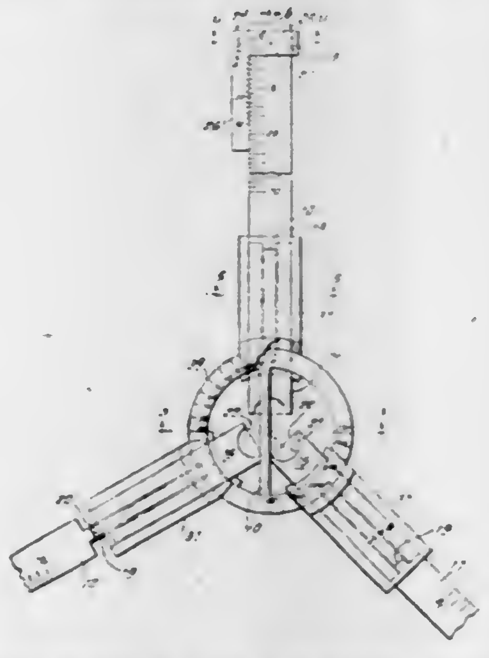
2,420,608

PROTRACTOR FOR USE IN NAVIGATION

Herman J. Menge, Middle Village, N. Y.

Application December 5, 1942, Serial No. 467,969

12 Claims. (Cl. 33—1)



1. A protractor of the character described for use in connection with a celestial globe having apertures therein corresponding to positions of known celestial bodies, said protractor including a plurality of altitude arms which are independently movable radially about a common center, supporting means providing such common center, each altitude arm being longitudinally movable relative to the common center, and a reference line at the inner terminal of each altitude arm, the arms having degree graduations marked thereon.

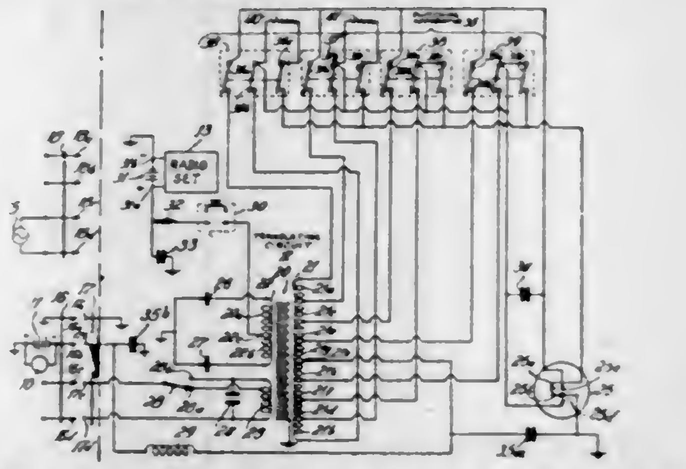
2,420,609

TRANSLATING CIRCUIT AND APPARATUS FOR PORTABLE ELECTRICAL DEVICES

Donald H. Mitchell, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application April 19, 1943, Serial No. 483,672

10 Claims. (Cl. 320—56)



10. A portable electrical device including a chargeable battery and a circuit arranged to charge said battery from a current source of any one of a plurality of predetermined voltages, a structure for supporting said device and for connecting said circuit to a current source of one of said predetermined voltages, and means comprising coacting parts of said device and said structure for automatically conditioning said circuit for energization from the current source associated with said structure incident to the mounting of said device upon said structure.

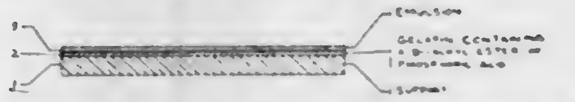
2,420,610

ANTISTATIC PHOTOGRAPHIC FILM

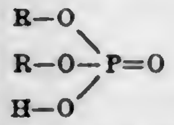
Fritz W. H. Mueller, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application December 14, 1945, Serial No. 635,047

12 Claims. (Cl. 95—9)



1. A photographic element comprising a support carrying a photographic emulsion layer and an anti-static layer comprising a di-alkyl ester of phosphoric acid corresponding to the following general formula:



wherein one of the R's is a short chain alkyl group ranging from 1 to 5 carbon atoms, and the other R represents an alkyl group ranging from 5 to 18 carbon atoms.

2,420,611

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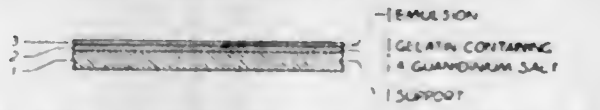
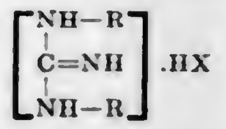
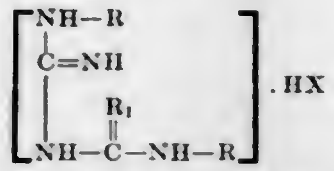


1. A photographic element comprising a support carrying a photographic emulsion layer and an anti-static layer comprising a guanidinium salt corresponding to the following general formulae:



$$\left[\begin{array}{l}NH-R\\ | \\ C=NH\\ | \\ NH-R\end{array}\right].HX$$

and



$$\left[\begin{array}{l}NH-R\\ | \\ C=NH\\ | \qquad R_1\\ | \qquad \| \\ NH-C-NH-R\end{array}\right].HX$$

where R is a member selected from the class consisting of hydrogen, alkyl, alicyclic, aryl, and aralkyl groups, R_1 is a member selected from the class consisting of oxygen and imino group, and X is the anion of a monobasic aliphatic carboxylic acid of at least 8 carbon atoms.

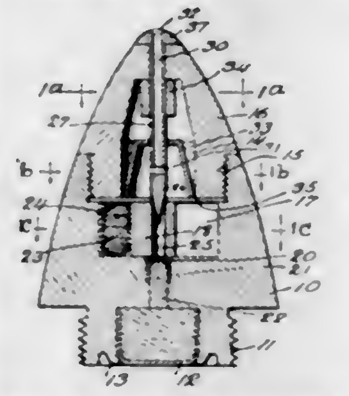
2,420,612

FUSE

Harry J. Nichols, Binghamton, N. Y.

Application November 14, 1939, Serial No. 304,393

14 Claims. (Cl. 102—76)



7. A fuse of the class described including a fuse body formed with an axially concentric cylindrical rotor cavity, an impact striker assembled axially in said body, means for advancing said striker to armed position on firing, cylindrical rotor means carrying a detonator normally mounted eccentrically in said cavity and so formed and proportioned as to roll in said cavity thereby to carry said detonator into armed position in concentric relation to said cavity after firing, and means including said striker for restraining said rotor from rolling said detonator into armed position until after the fuse has been fired in a gun.

2,420,613

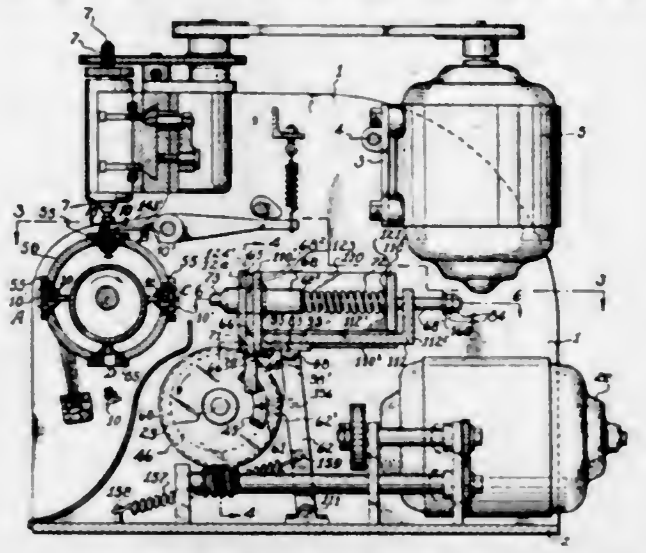
WORK-MARKING ASSEMBLY FOR MACHINE TOOLS

Eric T. Nord, Amherst, Ohio, assignor to U. S. Automatic Corporation, Amherst, Ohio, a corporation of Ohio

Original application July 26, 1943, Serial No. 496,169. Divided and this application June 27, 1944, Serial No. 542,413

8 Claims. (Cl. 101—4)

1. A work-marking assembly for a machine tool comprising a frame, a bed secured therein having end members, a plunger-holding plate slidable transversely of the bed, a plunger slidable through the end members of the bed and the holding plate, the plunger being formed with a notched portion engageable by the holding plate and at one end with a die, and also with an abutment intermediate its ends within the confines of the bed, a spring surrounding the plunger and held in compression between the plunger abutment and one end member of the bed when the plunger is retracted, periodically effective means mounted in the frame for sliding the plunger-holding plate in one direction to release the notched portion of the plunger therefrom, periodically effective means mounted in the frame



for retracting the plunger and compressing the spring, periodically effective means mounted in the frame for moving the plunger-holding plate into holding position when the plunger is retracted, and means for coordinating the functions of the aforesaid elements in timed relation.

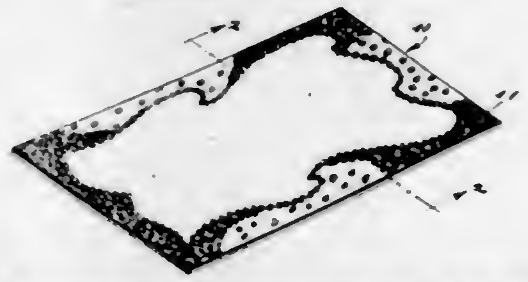
2,420,614

METHOD OF PRODUCING DECORATIVE EFFECT ON PLASTIC

Emile Norman, El Monte, Calif.

Application January 29, 1945, Serial No. 575,139

2 Claims. (Cl. 41—17)



1. In a method of ornamenting fusible transparent synthetic organic thermoplastic material, the steps of first forming the thermoplastic material into a generally transparent layer, drawing a given design on the surface of said layer with a needle point element heated to a fusing temperature of the material while at the same time pressing said element into the surface of said layer to melt and locally fuse the thermoplastic material about the point of the element into irregular dents and ridges, and contemporaneously trapping gases or vapor bubbles in the thus dented and ridged portions of the material to render the same generally translucent and thereby provide the design with a frosted-like appearance.

2,420,615

MANUFACTURE OF CONCENTRATED COFFEE EXTRACT

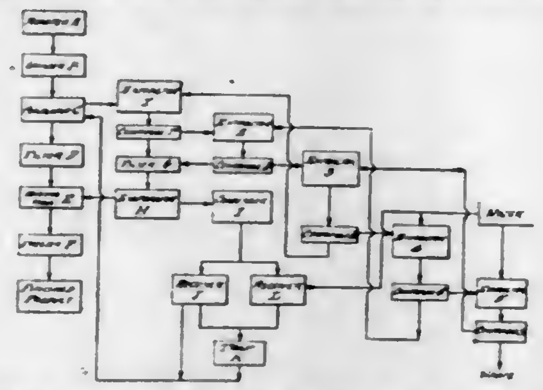
Edwin Palmer and David S. Schwartz, Brighton, Mass.; said Schwartz now by change of name David S. Roberts, assignors to Harry Sachs and Edwin Palmer, Baltimore, Md., copartners trading as Moorehead Manufacturing Company

Application March 16, 1944, Serial No. 526,712

4 Claims. (Cl. 99—71)

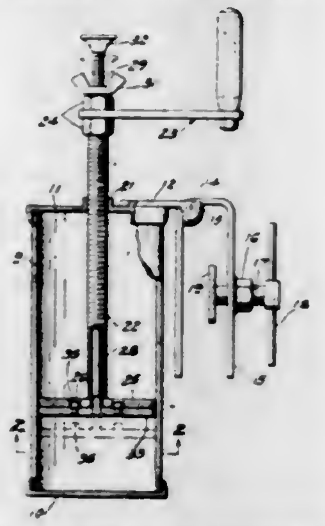
1. The improvement in the production of a concentrated liquid coffee extract which comprises

extracting ground roasted coffee with a cold distillate derived from concentrating a hot water extraction of a prior batch of ground roasted coffee, extracting the partially spent ground roasted



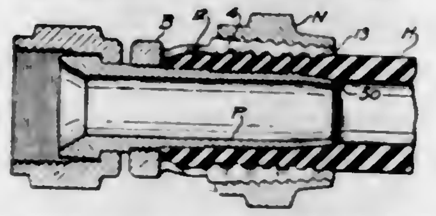
coffee with hot or boiling water to form a hot water extract, concentrating the hot water extract and mixing the concentrated hot water extract with the cold distillate extract.

2,420,616
MIXING AND MOLDING DEVICE
Oral M. Palmer, South Gate, Calif.
Application June 22, 1943, Serial No. 491,767
2 Claims. (Cl. 31—36)



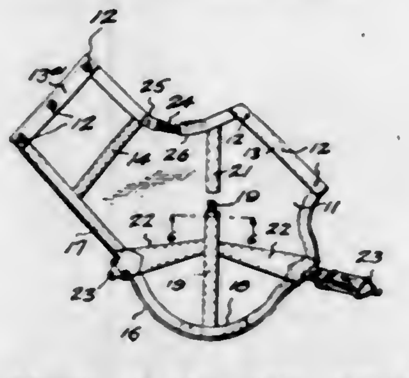
1. In a device of the kind described, a tubular casing having a common filling and extruding end, means carried by the end of said casing which is opposite said filling and extruding end whereby it is pivotally attachable to a bread board for swinging between horizontal extruding and upstanding filling positions, a cap attachable to said filling and extruding end of the casing when it is in the upstanding position, said cap having through it an extrusion opening, and means including a follower within said casing to extrude the contents thereof through said opening.

2,420,617
FITTING
Joseph Norman Paquin, Euclid, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application April 27, 1943, Serial No. 484,731
12 Claims. (Cl. 285—84)



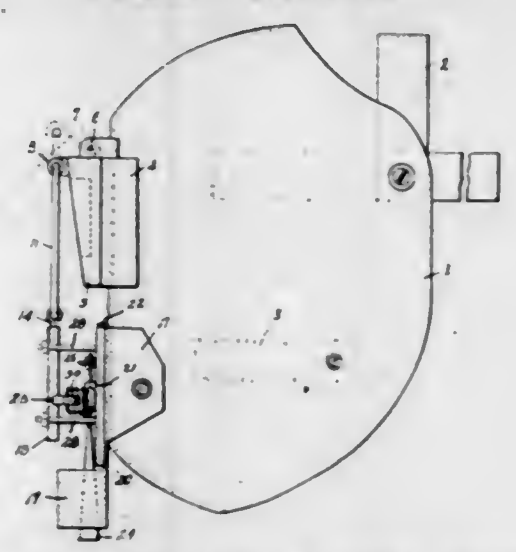
1. A hose end fitting comprising a body within which a hose end is received and gripped, and a nut cooperating with said body to bring about the gripping of said hose end, said body comprising a head and integrally acting segments extending axially away from said head and disassociated from each other other than through said head, each segment comprising a threaded hose gripping part and a yielding neck portion of reduced thickness joining said part to said head and supporting said part for restrained freedom of bodily radial movement, said nut having direct threaded engagement with said segments remote from said head and beyond said reduced neck portions.

2,420,618
FOOTWEAR PROTECTOR
David Rabinovitz, Brooklyn, N. Y.
Application December 19, 1945, Serial No. 635,912
1 Claim. (Cl. 36—2)



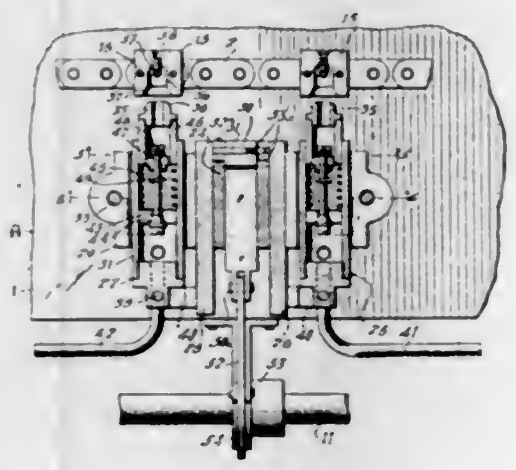
A shoe protector of the class described comprising a water-proof flexible body, a reinforcing strip extending longitudinally of the center and over the toe portion of the body, lateral diverging bracing members carried by the body, and separable securing means adapted to extend under the shank of a shoe for detachably securing the lower edge of the body in position, and a retaining band extending around the lower edge of the body.

2,420,619
HEAD SHIELD FOR WELDERS
Joseph F. Rakos, Cleveland, Ohio, assignor of one-half to John W. Nelson, Cleveland, Ohio
Application December 14, 1945, Serial No. 634,917
1 Claim. (Cl. 2—8)



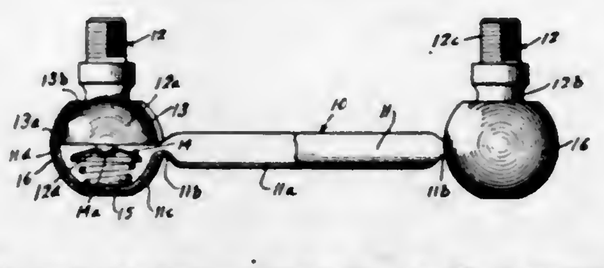
In a device of the class described, comprising, in combination, a head shield, a foundation member connected thereto, a window hinged to the foundation member by a hinge pin, a coiled spring in torsion on the hinge pin, a transverse member connected to the upper edge of the window having a longitudinally extending bore in each end thereof, a bail having its ends mounted in the aforesaid bores, a window lifting member hinged to the bail having downwardly extending legs held in spaced parallel relationship by spaced parallel transverse members interposed therebetween, a back plate removably connected to the head shield having a guide-way therein, a stop positioned at the upper end of the guide-way, an adjustably mounted stop positioned in the guide-way at its lower end, a carrier member slidably mounted in the guide-way and limited in its movement up and down by the stops therein, a releasable lifting member operating member yieldingly mounted in the carrier member, a manually operable lever pivotally mounted on the back plate laterally of the guide-way and having one end cooperating with the carrier member, a front plate having guide-ways on the under side thereof, the window lifting member slidably mounted therein, the plate also having on its underside in proximity to its top end, inclined planes positioned laterally of the guide-ways, stops associated with the inclined planes, the inclined planes adapted to cause the releasable lifting member operating member operatively engageable with the lifting member to yieldably move relative to the carrier member to release the window lifting member from its controlling influence thus allowing the coiled spring in torsion on the hinge pin to close the window, and a helical spring connected to the manually operable lever and the back plate adapted to return the lever and the carrier member to their initial position.

2,420,620
COATING MACHINE FOR COLLAPSIBLE TUBES
Frederic Remington, Elizabeth, and Richard A. Tartaglia, East Orange, N. J., assignors to Peerless Tube Company, Bloomfield, N. J., a corporation of New Jersey
Application September 1, 1945, Serial No. 614,046
18 Claims. (Cl. 91—44)



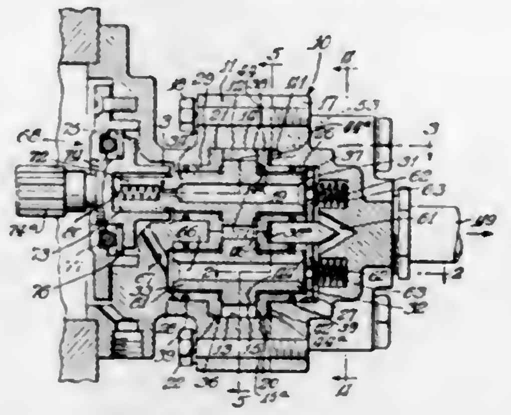
4. A machine of the character described comprising means for conveying a tube in a predetermined path including an intermittently movable conveyor having a device thereon to conduct fluid into the tube, a fluid injecting nozzle adjacent said path and reciprocable in a direction perpendicular to said path, and means for actuating said nozzle into fluid-transmitting engagement with said device while the latter is stationary between steps of movement, and means for permitting limited movement of said nozzle in the same direction as and in the direction opposite to the direction of movement of said device while said nozzle is in contact with said device to ensure fluid-tight engagement therebetween.

2,420,621
SOCKET ASSEMBLY
Bernard E. Ricks, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application December 2, 1944, Serial No. 566,376
7 Claims. (Cl. 287—90)



7. A ball socket comprising a first semi-ball shaped housing having a shank extending therefrom, an opposed second semi-ball shaped housing bottomed on said first housing, and a ball shaped slotted shell engaging both housings and receiving the shank therethrough.

2,420,622
PUMP WITH PRESSURE LOADED BUSHING
Jay M. Roth, Euclid, and John A. Lauck, South Euclid, Ohio, assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 15, 1942, Serial No. 439,030
23 Claims. (Cl. 103—126)



1. A liquid pump comprising: a housing having a pump chamber and an inlet leading to and an outlet leading from said pump chamber; means including a rotatable member received in said pump chamber for forcing liquid from said inlet out of said housing through said outlet; an end-plate in said pump chamber having a back face normally spaced from the adjacent end wall of said pump chamber and having portions cooperable with said housing to provide a pressure chamber, said end plate also having a front face subject to the pressures in said pump chamber and cooperable with the adjacent side face of said rotatable member to provide a pumping seal therewith, one of said two last-mentioned faces having a relief recess formed therein inwardly of its outer periphery to limit the sealing area between said side face and said front face; means establishing communication between said relief recess and said inlet; and means establishing communication between said pressure chamber at the back face of said end plate and said outlet, the relation of the area of said back face to said sealing area being such that the force acting upon said back face of said end plate always slightly exceeds the force acting upon said front face of said end plate, whereby to maintain said pumping seal without excessive friction, wear or loss in volumetric efficiency.

2,420,623
PROCESS FOR PRODUCING THIONYL CHLORIDE

Walter H. Salzenberg, Wilmington, Del., and Michael Sveda, Cleveland, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 25, 1943, Serial No. 511,684

4 Claims. (Cl. 23—203)

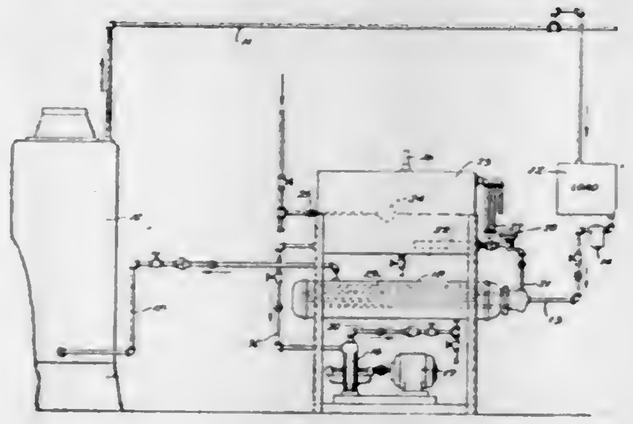
1. In a continuous process for the production of thionyl chloride the steps comprising passing sulfur trioxide and chlorine at the rate of 1.5 to 2 mols of sulfur trioxide to each mol of chlorine into a heel of liquid sulfur monochloride which contains about 3 to 15 per cent of thionyl chloride and which is maintained at a temperature of about 105° to 110° C., removing vapors from the reaction zone through a partial condenser, condensing the vapors withdrawn but permitting sulfur dioxide, sulfur trioxide, and chlorine to be separated therefrom, treating the condensate with sulfur to convert any sulfur dichloride to sulfur monochloride and distilling thionyl chloride from the condensate, separating the sulfur monochloride from any unused sulfur, and returning it to the said heel.

2,420,624
BOILER FEED-WATER SYSTEM

Robert F. Schaub, Oak Park, Ill., assignor to Fred H. Schaub Engineering Co., Chicago, Ill., a corporation of Illinois

Application October 21, 1944, Serial No. 559,776

4 Claims. (Cl. 237—67)



3. In a boiler feedwater system including a boiler and a steam consuming load connected thereto, a feed water pump connected to the boiler to pump water into it, a water storage tank connected to the pump inlet, a heat exchanger connected between the pump and the boiler to impart heat to the feedwater, a condensate return connection from the load through the heat exchanger to the storage tank to supply heat to the heat exchanger from the condensate and a pressure regulating device between the heat exchanger and storage tank responsive to the outlet pressure from the heat exchanger to maintain the outlet pressure substantially constant.

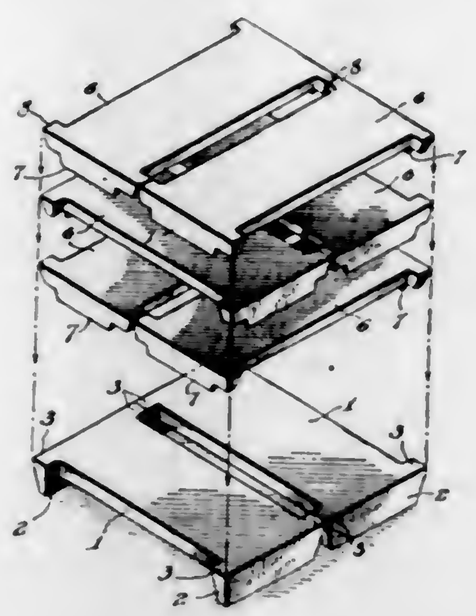
2,420,625
METAL HANDLING

Frederick M. Stalnaker, Weston, and Paul P. Shaver, Spelter, W. Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application December 5, 1945, Serial No. 632,963

1 Claim. (Cl. 214—10.5)

An assembly of metal slabs adapted for handling and shipping as a unit comprising a pair of base slabs each of which has a long, shallow, rectangular recess on each of its longitudinal edges and each of which has depending legs at each of its two narrow ends, a pair of slabs resting upon said base slabs, each of which is substantially twice as long as it is wide and each of which has a long, shallow, rectangular recess on each longitudinal edge, and each of which has depending flanges at its two narrow ends; the said flanges engaging the rectangular recess in the base slabs, the assembly containing additionally at least one similar pair of slabs like the pair just described and situated at right angles thereto.

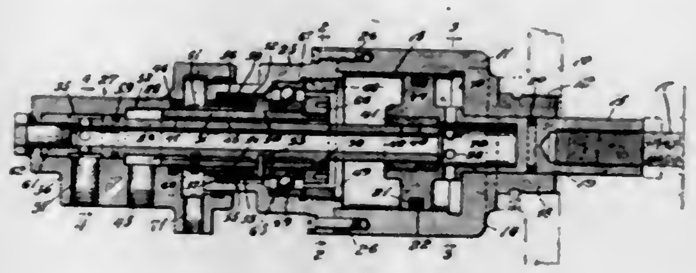


2,420,626
HYDRAULIC SERVOMOTOR WITH ROTATING CYLINDER AND FLUID TRANSFER MEANS ADAPTED THEREFOR

Robert Stevenson, Barrington, R. I., assignor to Merit Engineering, Inc., a corporation of Rhode Island

Application June 21, 1944, Serial No. 541,447

5 Claims. (Cl. 121—38)



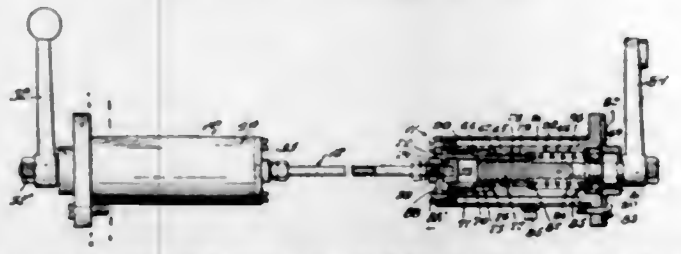
1. In a fluid-operated high speed rotary mechanism, relatively fixed and rotary parts with the end of one partially telescoping the end of the other, said parts being subjected to pressure of the fluid therein, acting thereon tending to axially move them relatively in opposite directions, and a single ball thrust bearing between said parts at the telescoped portion thereof having one race thereof secured to said fixed part and the other race thereof fixed to said rotary part, said parts being retained against axial movement only through said bearing.

2,420,627
REMOTE CONTROL APPARATUS

Robert Stevenson, Barrington, and Alexander W. Keema, Providence, R. I., assignors to Merit Engineering, Inc., a corporation of Rhode Island

Original application October 5, 1942, Serial No. 460,794, now Patent No. 2,344,473, dated March 14, 1944. Divided and this application January 14, 1944, Serial No. 518,288

4 Claims. (Cl. 60—54.5)



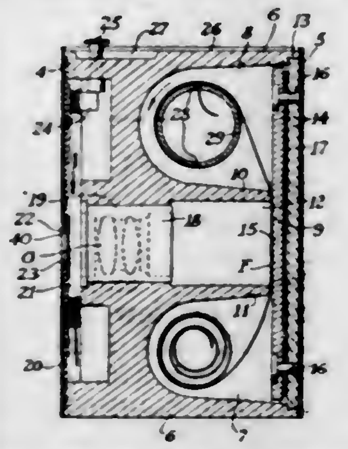
1. In a remote control apparatus an actuating unit comprising a casing, a piston movable in said casing, a rotatable shaft, and threaded means between said shaft and piston to cause axial movement of the piston upon rotary movement of the shaft, a nut on said shaft also axially movable upon rotation of said shaft, and a spring under compression abutting said nut and piston to exert pressure in opposite directions thereon, an actuated unit comprising a casing, a conduit connecting the casing of said units, a piston in the last said casing, a spring urging said piston in a direction to reduce the volume of liquid in the actuated unit, a shaft in said casing, threaded means between said shaft and piston of a pitch to cause rotation of the shaft upon axial movement of the piston, actuating fluid in the casings of each unit and in said conduit whereby movement of one piston will be transferred to the other piston through said liquid and thence to said shaft of the actuated unit, the spring of the actuated unit exerting a pressure less than the spring in the actuating unit.

2.420.628
DETECTIVE CAMERA

Joseph Stoiber, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 6, 1945, Serial No. 576,421

7 Claims. (Cl. 95—31)



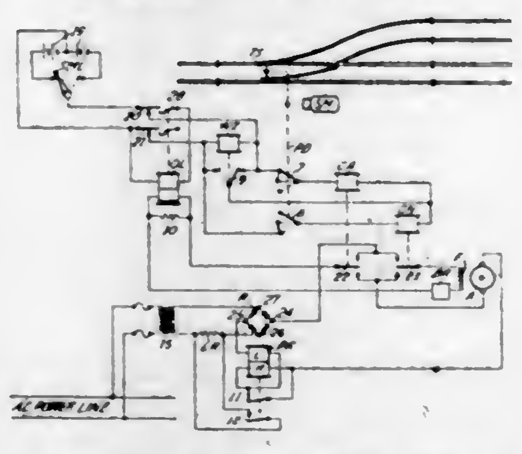
1. A camera comprising, in combination, an outer generally rectangular casing open at the ends, an inner casing slidably mounted in the outer casing and including film chambers, an exposure frame, a film tensioning pad covering the exposure frame, a spring for holding the film tensioning pad against the exposure frame in an operative position, a film winding knob located at least partially between the inner and outer casings adjacent an open end of the outer casing, said inner and outer casings sliding a distance sufficient to expose at least a portion of the film winding knob, said outer casing holding the tensioning pad in its operative position during such movement.

2,420,629
POWER SUPPLY FOR TRAFFIC CONTROLLING SYSTEMS

Charles L. Swanton, North Chili, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application September 28, 1944, Serial No. 556,172

7 Claims. (Cl. 171—97)



4. In a system for supplying direct current power to an intermittently operated power-driven device, a source of alternating current, a rectifier unit having an alternating current input and a direct current output, a limiting resistor, circuit means connecting said alternating current source to the input of said rectifier unit through said limiting resistor, a protective relay having a high resistance winding and a low resistance winding, an operating circuit for said power-driven device connected to the output of said rectifier unit through said high resistance and low resistance windings in series, contact means on said relay for shunting said high resistance winding and for shunting said limiting resistor when said relay is picked up, overload protective means associated with said power-driven device for opening said operating circuit upon the occurrence of an overload, and means for maintaining said overload device operated until manual control to cause a subsequent operation of said device, whereby the intermittent manual control of said device requires only an intermittent load on said rectifier unit even in the event of failure of the device to complete its operation.

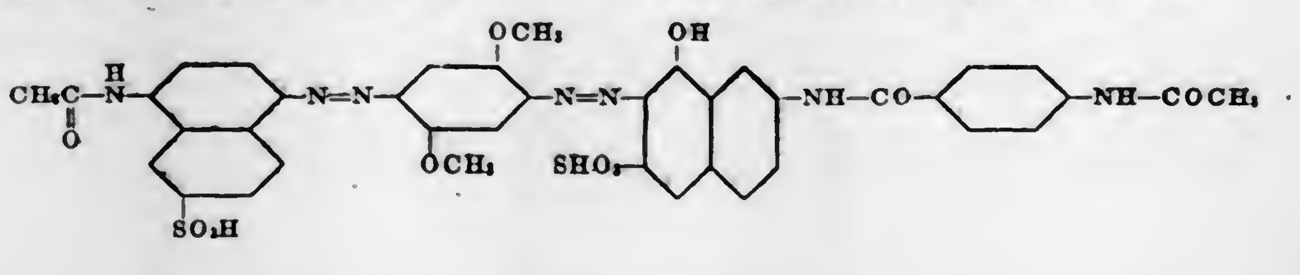
2,420,630
DISAZO DYE COMPOUNDS

George J. Taylor, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 15, 1942, Serial No. 454.905

1 Claim. (Cl. 260—187)

The diazo compound having the formula:



2,420,631

DIS-AZO DYES FOR COLOR PHOTOGRAPHY

George J. Taylor, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 2, 1944, Serial No. 566,401. In Great Britain August 19, 1941

10 Claims. (Cl. 95—6)

1. A gelatino silver halide emulsion layer for the bleach-out process of color photography uniformly colored with a disazo dye compound having the formula:

$$R—N{=}N—R_1—N{=}N—R_2$$

wherein R—N=N— represents the residue of a diazotized monocyclic aminoaryl nucleus of the benzene series having a member selected from the group consisting of an acylamino group, an alkoxyl group, a cyano group, a dialkylamino group, and a sulfonamido group attached to its nucleus, R_1—N=N— represents the residue of a diazotized member selected from the group consisting of a 1-amino-2,5-dialkoxybenzene and a 1-amino-2-alkoxynaphthalene and R_2 represents the residue of a member selected from the group consisting of a 2-acylamino-8-hydroxynaphthalene-6-sulfonic acid, a 2-acylamino-8-hydroxynaphthalene-3,6-disulfonic acid and a 2-acylamino-6-hydroxynaphthalene-8-sulfonic acid.

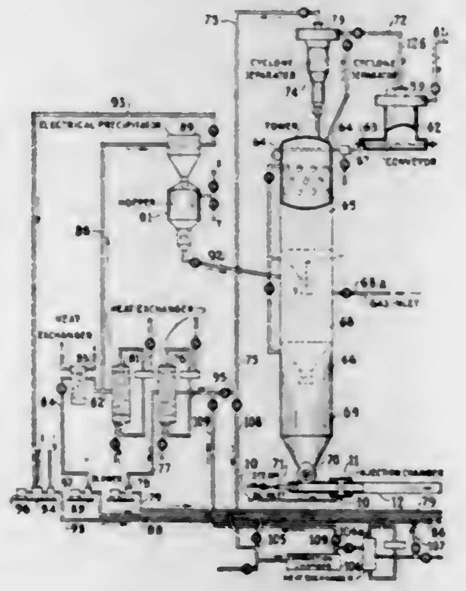
2.420.632

CRACKING OF HYDROCARBON OILS

Charles W. Tyson, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Original application July 26, 1939, Serial No. 286,498, now Patent No. 2,384,356, dated September 4, 1945. Divided and this application December 9, 1943, Serial No. 513.541

8 Claims. (Cl. 196—52)



1. A process for regenerating solid contact material containing combustible deposits which comprises passing said contact material successively through a plurality of adjacent combustion zones constituting a single continuous passage of progressively increasing volume, burning a portion of the combustible deposits during passage through each of said combustion zones, heating said catalyst by the heat of said combustion, cooling the contact material during passage from one of said combustion zones to the next succeeding combustion zone and separately introducing an oxidizing gas into each of said combustion zones.

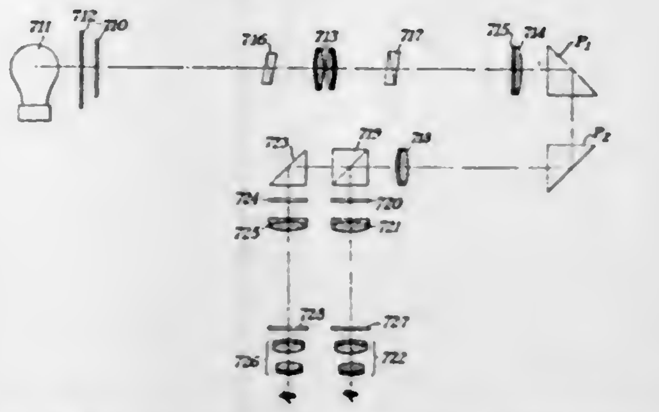
2,420,633

INSTRUMENT FOR TESTING AND DEVELOPING THE STEREOPTIC ACUITY OF A PERSON'S EYES

Otto Wittel, George J. Koch, and Joseph L. Boon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application September 2, 1943, Serial No. 500,944

34 Claims. (Cl. 88—20)



1. A device of the type described, comprising a reference mark; eye fixation means; an optical viewing system permitting said mark and eye fixation means to be binocularly viewed simultaneously; a driven mechanism for causing a continuous relative axial movement of the binocularly viewed images of said mark and eye fixation means to simulate varying range conditions of the eye fixation means; a mechanism, under the manual control of the observer, for causing a relative axial movement of the binocularly viewed images of said mark and eye fixation means independently of said driven mechanism, whereby an observer can counteract the effectiveness of said driven mechanism and keep the images of said mark and eye fixation means at the same distance from the point of observation; a second driven mechanism for causing a continuous relative transverse movement of the positions of said binocularly viewed images to simulate tracking errors; and means, under the manual control of the observer for causing a relative transverse movement of the position of said binocularly viewed images independently of said second driven mechanism, whereby an observer can counteract the effectiveness of said driven mechanism and keep the image of the eye fixation means at a given point on said reticle.

2.420.634

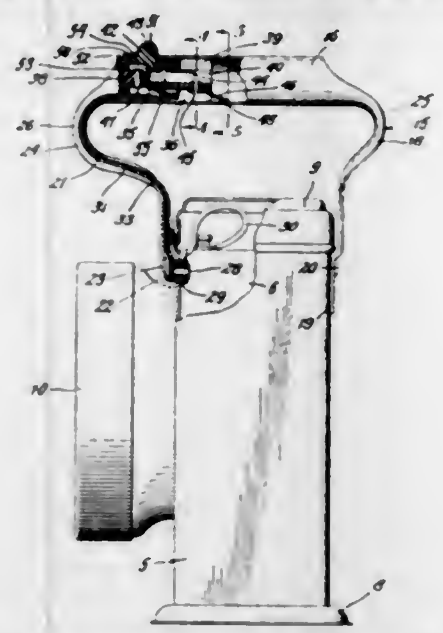
ELECTRIC LANTERN

Charles E. Wohler and Lewis G. Sherwood, Niagara Falls, N. Y., assignors to Niagara Searchlight Company, Inc., Niagara Falls, N. Y., a corporation of New York

Application June 14, 1944, Serial No. 540,194

7 Claims. (Cl. 240—10.63)

1. An electric lantern, comprising a metal casing, a metal bail forming with said casing the grounded side of a circuit and having a hand grip and a pair of legs extending downwardly from said grip alongside said casing, means securing each of said legs to said casing, a metal member extending through the wall of said casing and insulated therefrom, said metal member being arranged under one of said legs, an electric light bulb mounted on said casing and having one terminal grounded thereon, a battery in said casing and having one terminal connected with the other terminal of said electric light bulb and its other terminal connected with said metal member, a manual switch mounted on said hand grip and having one terminal grounded thereon, and a line extending along said one of said legs and connecting the other terminal of said switch with said metal member, said line being interposed between said one of said legs and said metal member and being held in electrical contact with said metal member solely by the pressure of said one of said legs.



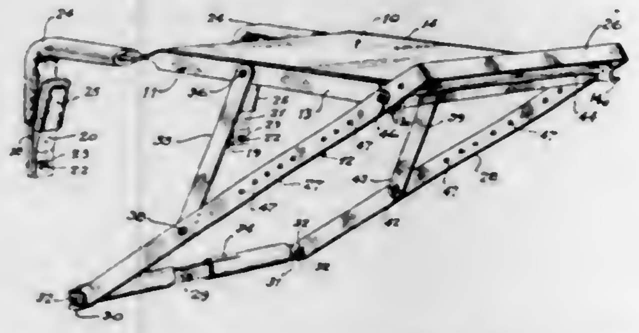
2,420,635

WINDOW SEAT

Walter J. Workman, Chicago, Ill.

Application February 2, 1946, Serial No. 645,052

5 Claims. (Cl. 304—27)



1. A window seat comprising a seat panel, a seat supporting frame including leg portions formed on one end of said seat supporting frame and extending substantially perpendicularly to the main body of said seat supporting frame, a tongue carried by each of said legs and extending toward said main body of said seat-supporting frame, and a bracing frame attached to said seat-supporting frame.

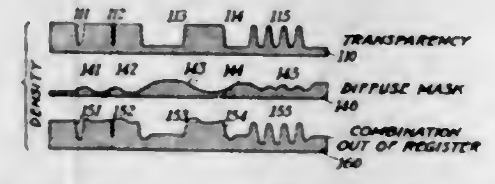
2.420.636

PHOTOGRAPHIC MASKING

John A. C. Yule, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 11, 1942, Serial No. 438,633

18 Claims. (Cl. 95—5)



1. The method of making a photo print of magnification M and small circle of confusion C from a sharp colored record which comprises making a mask by punctual printing from the record onto sensitive material and by processing the material to a negative relative to the record and to a contrast less than that of the record, unsharply masking the record by said mask, the unsharpness being between

$$\frac{C}{3M} \text{ and } \frac{25C}{3M}$$

whereby it is sufficient to increase apparent detail contrast relative to over all contrast of the record but not sufficient to be apparent under normal conditions of viewing the combination of the record and mask or a print therefrom at a distance of about 5000C and printing sharply from the record as unsharply masked.

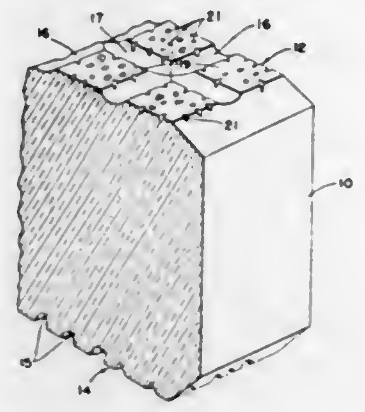
2,420,637

GLASS SURFACE PLATE

Walter J. Dykoski, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware

Application January 26, 1945, Serial No. 574,781

1 Claim. (Cl. 33—174)



A glass surface plate having a flat finely ground surface broken by transverse channels spaced about ⅛″ apart, the surface being pitted to hold and transfer bluing to the high points of flat objects rubbed thereover.

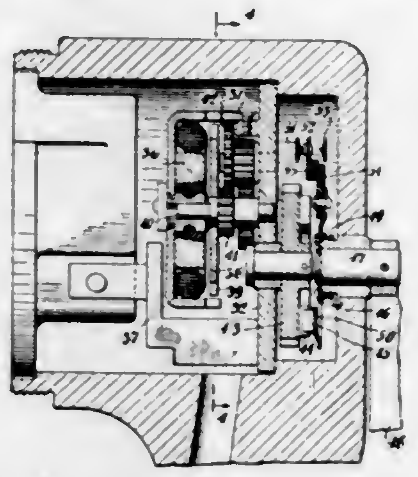
2,420,638

SIGNALING GENERATOR MECHANISM

Reinhard K. Hellmann, Meriden, Conn., assignor to Great American Industries, Inc., Meriden, Conn., a corporation of Delaware

Application April 15, 1944, Serial No. 531,225

2 Claims. (Cl. 171—209)



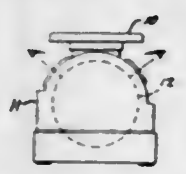
1. A generator including a rotor unit, a stator unit, a shaft connected to said rotor unit, a drive extending from said shaft, an actuator connected with said drive, a bracket supporting a part of said drive, means for movably mounting said bracket

and whereby, upon a thrust being transmitted from said actuator, said bracket will be shifted, and a switch mechanism connected to said generator and actuated by the shifting of said bracket.

2,420,639
CHART FOR WEIGHING SCALES

Henry Kendall Leonard, Albany, N. Y., assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application January 19, 1943, Serial No. 472,827
3 Claims. (Cl. 116—129)

1. A substantially cylindrical chart for use in any of a series of generally cylindrical chart housings for weighing scales for use on counters, each of said housings being provided with customer's and merchant's indica viewing openings disposed at various relative positions to accommodate differences in counter elevation, said chart comprising a merchant's indicia bearing portion carried on spiders from a shaft rotatable in response to loads being weighed and a customer's indicia bearing portion carried on a spider supported by and rotatably adjustable with respect to a spider of said merchant's indicia bearing portion of said chart, whereby said chart may be selectively conditioned for use in any one of said series of housings regardless of the angular disposition of the indicia viewing openings.

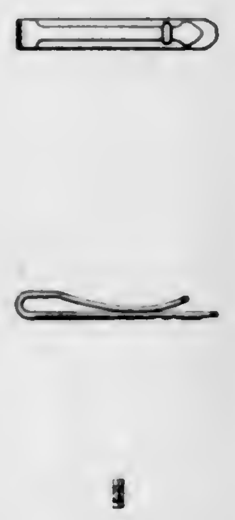


DESIGNS

MAY 13, 1947

146,758
DESIGN FOR A TIE HOLDER

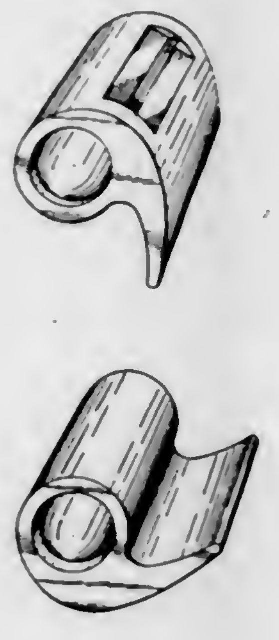
Olof V. Anderson, Cowesett, R. I.
Application January 29, 1946, Serial No. 126,079
Term of patent 3½ years
(Cl. D17—10)



The ornamental design for a tie holder, substantially as shown.

146,759
DESIGN FOR A DISPOSABLE RAZOR

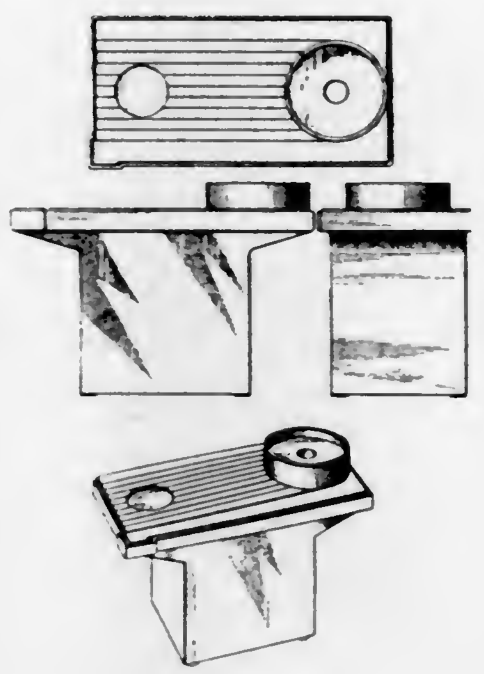
Albert D. Brown, Atlanta, Ga.
Application December 7, 1945, Serial No. 124,462
Term of patent 14 years
(Cl. D22—3)



The ornamental design for a disposable razor, as shown.

146,760
DESIGN FOR A PORTABLE DEVELOPING TANK

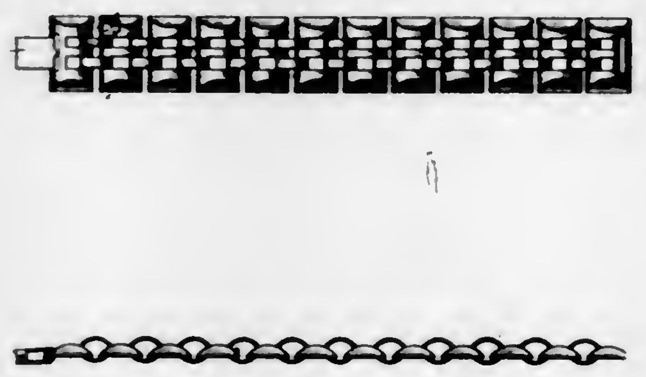
John R. Carpenter, New York, N. Y., assignor to Price Industries Corporation, New York, N. Y., a corporation of New York
Application March 26, 1946, Serial No. 127,971
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a portable developing tank, as shown.

146,761
DESIGN FOR A BRACELET OR THE LIKE

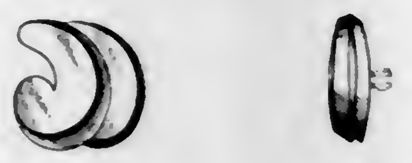
Michael Chernow, New York, N. Y.
Application November 9, 1945, Serial No. 123,610
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

146,762
DESIGN FOR AN EARRING OR THE LIKE

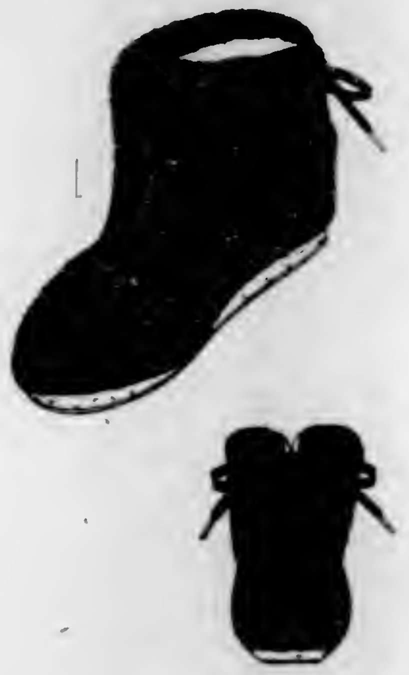
Michael Chernow, New York, N. Y.
Application November 9, 1945, Serial No. 123,611
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

146,763
DESIGN FOR A BOOT OR SIMILAR ARTICLE

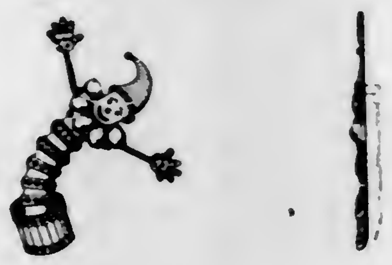
Paul D. Earl, Malone, N. Y.
Application December 21, 1946, Serial No. 135,675
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a boot or similar article, substantially as shown and described.

146,764
DESIGN FOR A CLIP OR SIMILAR ARTICLE

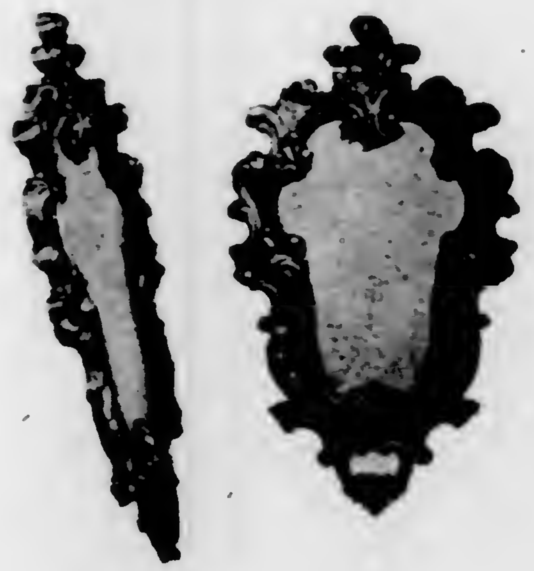
Solomon Finkelstein, New York, N. Y.
Application May 29, 1946, Serial No. 130,236
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a clip or similar article, substantially as shown.

146,765
DESIGN FOR A MIRROR FRAME OR THE LIKE

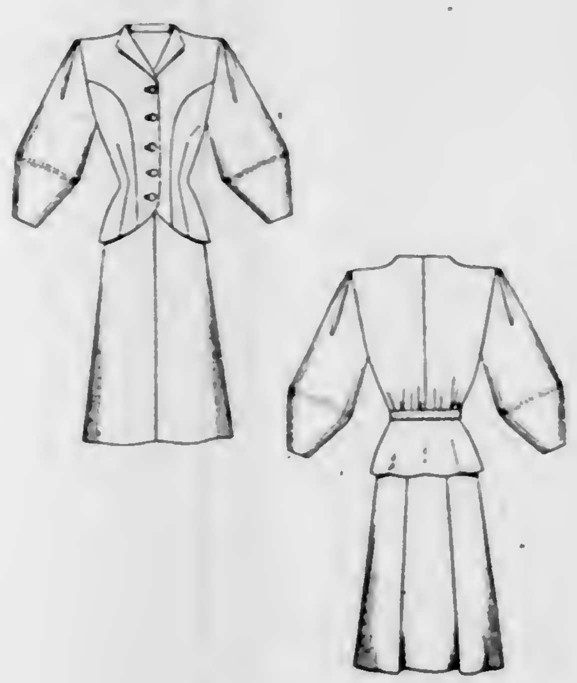
Frederic H. Fisher, Syracuse, N. Y., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y., a corporation of New York
Application May 10, 1946, Serial No. 129,526
Term of patent 14 years
(Cl. D29—20)



The ornamental design for a mirror frame or the like, substantially as shown.

146,766
DESIGN FOR A SUIT

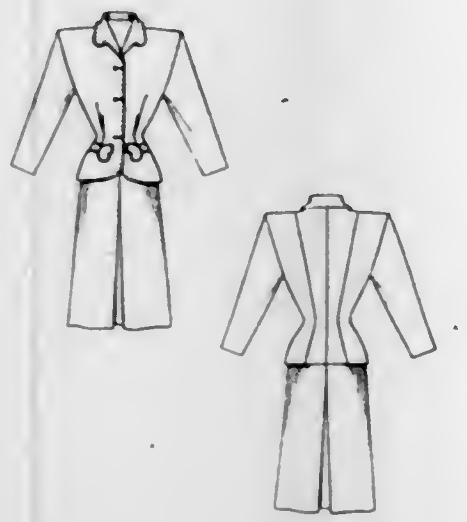
Mario Frascino, New York, N. Y.
Application November 13, 1946, Serial No. 134,761
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

146,767
DESIGN FOR A SUIT

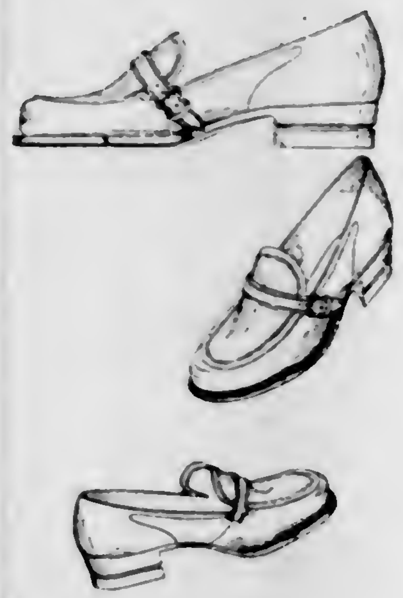
Jules Freedman, New York, N. Y.
Application November 13, 1946, Serial No. 134,752
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

146,768
DESIGN FOR A SHOE

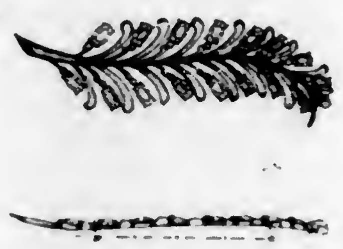
John Henkel, Baltimore, Md., assignor to Dixon-Bartlett Company, a corporation of West Virginia
Application August 9, 1945, Serial No. 121,340
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a shoe, substantially as shown and described.

146,769
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

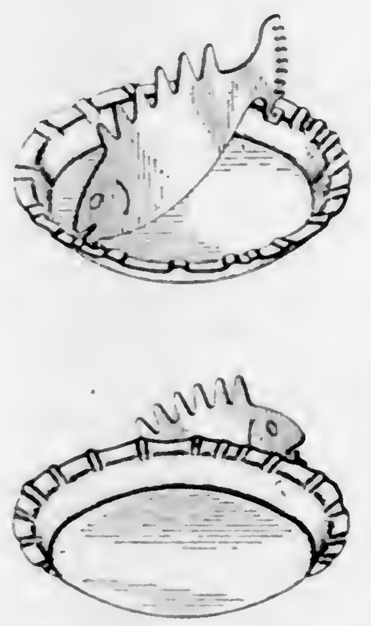
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 13, 1946, Serial No. 127,467
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,770
DESIGN FOR A COMBINATION ASH TRAY AND CIGARETTE HOLDER

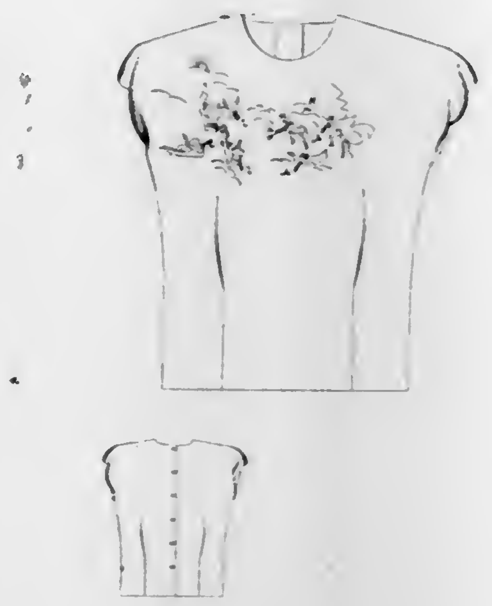
Fredrick A. Lower, Wichita Falls, Tex.
Application January 25, 1946, Serial No. 125,973
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a combination ash tray and cigarette holder, substantially as shown.

146,771
DESIGN FOR A BLOUSE

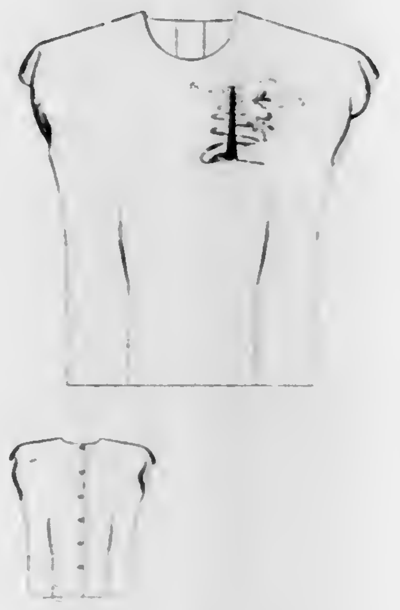
Hilda Newman, New York, N. Y., assignor to The Winston Sportswear Corporation, New York, N. Y.
Application November 25, 1946, Serial No. 135,043
Term of patent 3½ years
(Cl. D3—25)



The ornamental design for a blouse, as shown.

146,772
DESIGN FOR A BLOUSE

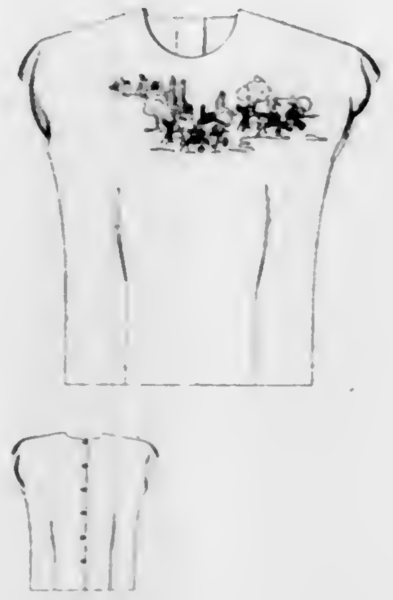
Hilda Newman, New York, N. Y., assignor to The Winston Sportswear Corporation, New York, N. Y.
Application November 25, 1946, Serial No. 135,044
Term of patent 3½ years
(Cl. D3—25)



The ornamental design for a blouse, as shown.

146,773
DESIGN FOR A BLOUSE

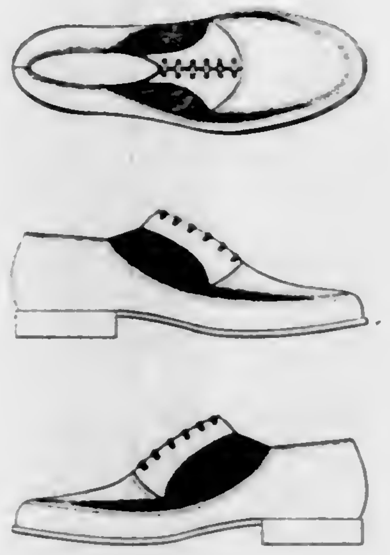
Hilda Newman, New York, N. Y., assignor to The Winston Sportswear Corporation, New York, N. Y.
Application November 25, 1946, Serial No. 135,045
Term of patent 3½ years
(Cl. D3—25)



The ornamental design for a blouse, as shown.

146,774
DESIGN FOR A MAN'S SPORT SHOE OR SIMILAR ARTICLE

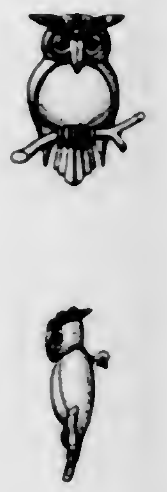
Ralph A. Parker, Melrose, Mass.
Application November 9, 1946, Serial No. 134,642
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a man's sport shoe or similar article, substantially as shown.

146,775
DESIGN FOR A LAPEL PIN

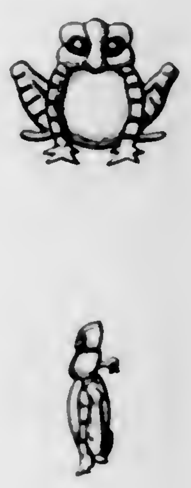
Frederick J. Pearsall, Clayville, R. I., assignor to Imperial Pearl Co., Inc., Providence, R. I., a corporation of Rhode Island
Application May 27, 1946, Serial No. 130,092
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a lapel pin, as shown.

146,776
DESIGN FOR A LAPEL PIN

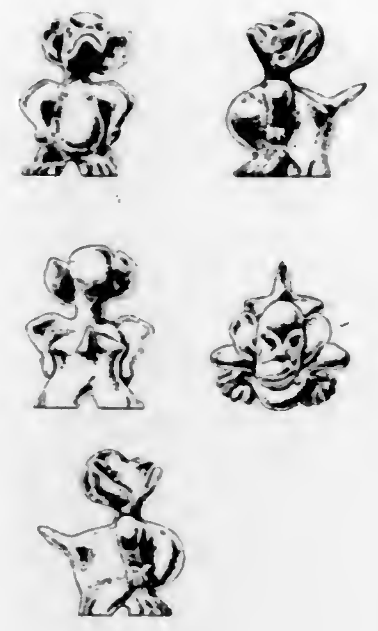
Frederick J. Pearsall, Clayville, R. I., assignor to Imperial Pearl Co., Inc., Providence, R. I., a corporation of Rhode Island
Application May 27, 1946, Serial No. 130,093
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a lapel pin, as shown.

146,777
DESIGN FOR A FIGURINE OR THE LIKE

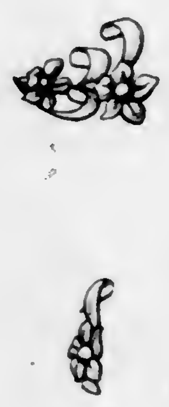
Grayden W. Phillips, San Jose, Calif.
Application March 23, 1946, Serial No. 127,850
Term of patent 3½ years
(Cl. D29—23)



The ornamental design for a figurine or the like, as shown.

146,778
DESIGN FOR A JEWELRY FINDING

Carl Schrayssheun, Providence, R. I.
Application February 20, 1946, Serial No. 126,766
Term of patent 7 years
(Cl. D45—1)

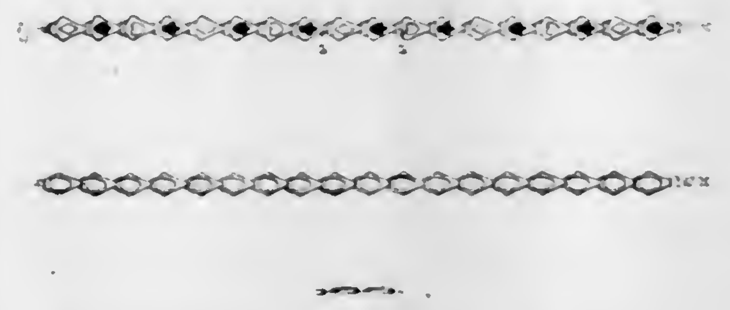


The ornamental design for a jewelry finding, substantially as shown.

146.779

DESIGN FOR A BRACELET OR SIMILAR ARTICLE

Murray Slater, Brooklyn, N. Y.
Application January 11, 1946, Serial No. 125,470
Term of patent 3½ years
(Cl. D45—4)

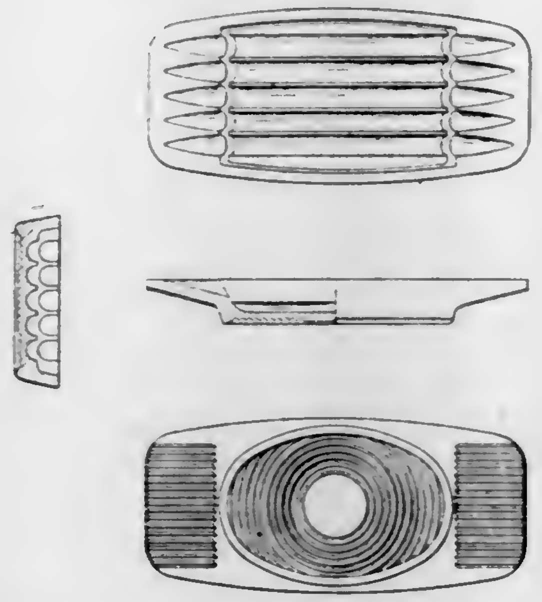


The ornamental design for a bracelet or similar article, as shown.

146,780

DESIGN FOR AN ASH TRAY

Wagn Trautner, Syracuse, N. Y.
Application February 27, 1947, Serial No. 137,214
Term of patent 14 years
(Cl. D85—2)

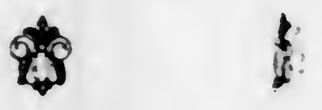


The ornamental design for an ash tray, substantially as shown.

146,781

DESIGN FOR AN EARRING

Gene Verrecchio, New York, N. Y., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application May 10, 1946, Serial No. 129,539
Term of patent 7 years
(Cl. D45—9)

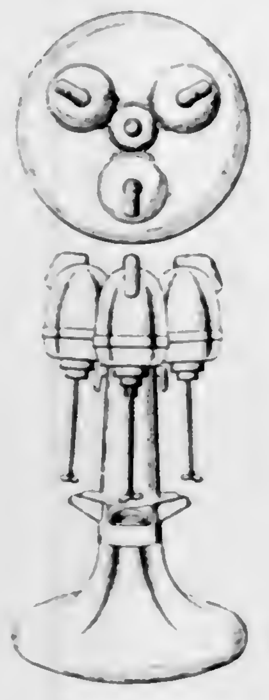


The ornamental design for an earring, substantially as shown.

146,782

DESIGN FOR A DRINK MIXER

Herman W. Zimmerman, North Newington, Conn.
Application January 24, 1946, Serial No. 125,931
Term of patent 7 years
(Cl. D44—1)



The ornamental design for a drink mixer, as shown.

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

W. AVERELL HARRIMAN, *Secretary*

U. S. Patent Office

CASPER W. OOMS, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

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May 20, 1947

Trade-Marks	159	—No. 429,753	to	No. 429,911,	inclusive
Reissues	3	—No. 22,880	to	No. 22,882,	inclusive
Patents	358	—No. 2,420,640	to	No. 2,420,997,	inclusive
Designs	38	—No. 146,783	to	No. 146,820,	inclusive
Total	558				

Patents expiring: Patent Numbers 1,758,915 to 1,759,826, inclusive, issued May 20, 1930, expire May 20, 1947

Condition of Applications Under Examination at Close of Business May 2, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 146,200; Trade-Mark Division, 13,416.[1] Oldest new case, July 26, 1945; oldest amended, July 19, 1945.) (The dates given are 1945 except where * indicates 1946.)	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Sept. 14	Nov. 30	2,846
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 15	Oct. 26	3,532
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Nov. 7	Nov. 7	2,038
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	Dec. 29	*Jan. 3	2,966
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 26	July 25	4,314
6. BYERS, J. H., Acting. Carbon Chemistry (part)	*Mar. 8	*Mar. 14	1,992
7. HANLIN, GEORGE, Optics, Photography	*Apr. 27	*May 4	1,975
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 26	Dec. 3	3,696
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 15	Oct. 9	2,195
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Dec. 17	*Jan. 9	1,454
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	*July 31	*Aug. 1	815
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Dec. 14	*Jan. 5	2,695
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Aug. 17	Sept. 28	2,272
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	*Feb. 8	*Feb. 1	1,408
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	*Feb. 5	*Apr. 11	1,334
16. LOVEWELL, N. N., Telegraphy; Telephony	*Feb. 23	*Mar. 16	1,286
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	*Jan. 25	Dec. 12	1,320
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 6	Sept. 19	1,789
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	*Feb. 18	*Jan. 19	1,780
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Oct. 31	Nov. 3	2,211
21. THOMPSON, T. J., Textiles	*June 18	*July 30	934
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Dec. 9	Dec. 10	1,903
23. LEWIS, J. B., Cash Registers; Calculators (part)	*Feb. 25	*Feb. 15	242
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	*Sept. 5	*Sept. 5	1,640
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Dec. 20	Nov. 30	1,768
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 26	Dec. 3	2,179
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	Dec. 29	Dec. 22	2,413
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	Nov. 1	Sept. 10	1,550
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	Nov. 20	*Jan. 16	2,648
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	*Jan. 15	*Jan. 19	2,513
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	*Nov. 20	*Nov. 15	648
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Dec. 17	Dec. 18	2,468
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	Oct. 27	Oct. 29	3,706
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	*Jan. 3	*Jan. 3	1,379
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Dec. 5	*Jan. 6	2,315
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 24	Oct. 1	1,893
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	*Jan. 30	*Jan. 24	1,617
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	*Mar. 18	*Mar. 6	1,379
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Sept. 6	Sept. 10	2,613
40. DRUMMOND, E. J., Receptacles (part); Packages	Dec. 6	*Jan. 16	2,836
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	Nov. 13	Nov. 2	1,234
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	*June 8	*June 4	1,071
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	*May 18	*Feb. 13	1,109
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 17	Sept. 8	1,393
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 6	Nov. 2	2,463
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	*Feb. 4	*Mar. 7	1,738
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	*Feb. 18	*Mar. 8	2,856
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Oct. 19	Nov. 1	1,938
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	*Feb. 14	*Jan. 18	1,551
50. LEVIN, SAMUEL, Synthetic Resins	*Mar. 13	*Mar. 13	2,615
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	Dec. 11	Dec. 8	2,103
52. KNOTTS M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	*Feb. 23	*Feb. 5	3,393
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Aug. 9	July 19	4,372
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	*Jan. 8	*Jan. 19	2,167
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Nov. 7	Nov. 1	1,927
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	*Mar. 1	*Mar. 11	1,482
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 13	Nov. 19	3,152
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	*Mar. 8	*Mar. 9	1,382
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Oct. 11	Oct. 9	2,121
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Nov. 8	*Jan. 30	2,029
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys and Ships.	Dec. 3	Dec. 13	2,800
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Aug. 28	Sept. 13	4,108
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Nov. 20	Oct. 24	2,095
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	*Oct. 30	*Oct. 29	1,185
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Oct. 10	Sept. 29	2,317
TRADE-MARKS: MERCHANT, J. H.	June 17	Oct. 28	[1]13,416
DESIGNS: BREHM, G. L., Acting	Feb. 5	Oct. 23	9,037

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[1] The report for the Trade-Mark Division for the week ending April 25, 1947, is consolidated with this report.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Laboratory Equipment Co., New York, N. Y. Electric immersion water heaters. 429,864; May 20; Serial No. 504,083; published Feb. 18, 1947. Class 21.

Addesso, Carmine, doing business as Subway Tailors, San Diego, Calif. Outer garments. 429,821; May 20; Serial No. 496,880; published Feb. 25, 1947. Class 39.

Albright, William E., doing business as Bubalot Company, Chicago, Ill. Toy bubble kits. 429,808; May 20; Serial No. 494,476; published Mar. 4, 1947. Class 22.

American Beauty Aids Mfg. Co. Inc., New York, N. Y. Non-electric hair curlers. 429,783; May 20; Serial No. 488,559; published Mar. 4, 1947. Class 40.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Compacts and lipstick cases. 429,905; May 20; Serial No. 513,961; published Mar. 11, 1947. Class 2.

Arkwright, Incorporated, New York, N. Y. Abdominal supporters, hot water bottles, catamenial bandages, etc. 429,816; May 20; Serial No. 495,856; published Mar. 11, 1947. Class 44.

Asbestone Corporation, assignee: *See*—
Dorn, R. J., Company.

Associated Products, Inc., Chicago, Ill. Ladies' blouses, aprons, scarfs, etc. 429,871; May 20; Serial No. 504,419; published Jan. 7, 1947. Class 39.

Associated Products, Inc., Chicago, Ill. Unfilled lipstick holders. 429,907; May 20; Serial No. 514,680; published Mar. 11, 1947. Class 2.

Auerbach Bath Robe Corp., New York, N. Y. Bath and lounging robes. 429,840; May 20; Serial No. 500,938; published Feb. 4, 1947. Class 39.

Auto Arc-Weld Manufacturing Co., The, Cleveland, Ohio. Automatic arc welding heads and fixtures. 429,791; May 20; Serial No. 489,930; published Mar. 4, 1947. Class 21.

Beggs & Cobb, Incorporated, Boston, Mass. Upper leather. 429,817; May 20; Serial No. 495,948; published Mar. 4, 1947. Class 1.

Beggs & Cobb, Incorporated, Boston, Mass. Upper leather. 429,818; May 20; Serial No. 496,127; published Mar. 4, 1947. Class 1.

Beggs & Cobb, Incorporated, Boston, Mass. Upper leather. 429,826; May 20; Serial No. 497,445; published Mar. 4, 1947. Class 1.

Beggs & Cobb, Incorporated, Boston, Mass. Upper leather. 429,838; May 20; Serial No. 500,204; published Mar. 4, 1947. Class 1.

Bellmore Dress Co. Inc., New Brunswick, N. J. Wash dresses for women, misses, and girls. 429,872; May 20; Serial No. 504,425; published Feb. 11, 1947. Class 39.

Bellmore Dress Co. Inc., New Brunswick, N. J. Misses' and women's wash dresses. 429,886; May 20; Serial No. 505,386; published Feb. 25, 1947. Class 39.

Bemis Bro. Bag Company, St. Louis, Mo. Open-mesh bags. 429,910–11; May 20; Serial Nos. 515,480–1; published Feb. 25, 1947. Class 2.

Bennett-Ray Canning Company, Pharr, Tex. Canned tomatoes, grapefruit juice, a blend of grapefruit and orange juices, etc. 429,788; May 20; Serial No. 488,988; published Mar. 4, 1947. Class 47.

Blue Bell, Inc., Greensboro, N. C. Men's, women's, boys', and girls' overalls, jumpers, work jackets, etc. 429,760; May 20; Serial No. 472,413; published Mar. 4, 1947. Class 39.

Blue Bell, Inc., Greensboro, N. C. Men's, women's, boys', and girls' overalls, jumpers, work jackets, etc. 429,770; May 20; Serial No. 480,643; published July 24, 1945. Class 39.

Braden & Company, Mission, Tex. Fresh citrus fruits. 429,869; May 20; Serial No. 504,323; published Feb. 25, 1947. Class 46.

Braff, Leidner & Eisenstadt, New York, N. Y. Coats and suits for misses and women. 429,865; May 20; Serial No. 504,087; published Jan. 7, 1947. Class 39.

Brolite Company, Chicago, Ill. Culture preparation, the principal ingredients of which are flour, butter, buttermilk, water, etc. 429,837; May 20; Serial No. 500,053; published Feb. 25, 1947. Class 46.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Rubber cement. 429,909; May 20; Serial No. 514,797; published Mar. 4, 1947. Class 5.

Bubalot Company: *See*—
Albright, William E.

Buck's Corporation, New York, N. Y. Women's, misses', and juniors' dresses. 429,901; May 20; Serial No. 509,200; published Feb. 11, 1947. Class 39.

Bush, James P., doing business as Bush & Long Potato Chip Co., El Paso, Tex. Corn chips. 429,853; May 20; Serial No. 502,620; published Mar. 4, 1947. Class 46.

Bush & Long Potato Chip Co.: *See*—
Bush, James P.

Carpenter Paper Company, Omaha, Nebr. Correspondence envelopes. 429,775; May 20; Serial No. 484,666; published Mar. 4, 1947. Class 37.

Castle Films, Inc., New York, N. Y. Sound motion pictures. 429,858; May 20; Serial No. 503,186; published Feb. 25, 1947. Class 26.

Chrisman, E. L., Company: *See*—
Chrisman, Ernest L.

Chrisman, Ernest L., doing business as E. L. Chrisman Company, Los Angeles, Calif. Equipment for dry cleaning and commercial laundry. 429,793; May 20; Serial No. 490,285; published Mar. 4, 1947. Class 24.

Cohen, Goldman & Co. Inc., New York, N. Y. Men's, boys', and children's outer garments. 429,882; May 20; Serial No. 505,285; published Jan. 21, 1947. Class 39.

Columbia Products Corporation, Brooklyn, N. Y. Powder puffs. 429,790; May 20; Serial No. 489,315; published Feb. 25, 1947. Class 29.

Comptone Company, Ltd., New York, N. Y. Sunglasses, eyeglasses, spectacles, and parts thereof. 429,870; May 20; Serial No. 504,332; published Mar. 4, 1947. Class 26.

Coralite Dental Products Company, Chicago, Ill. Dental materials. 429,762; May 20; Serial No. 475,247; published Dec. 5, 1944. Class 44.

Cronite Co., Inc., The, New York, N. Y. Machine for drying engraved stationery. 429,836; May 20; Serial No. 499,768; published Feb. 18, 1947. Class 21.

Crown Cordial Company, Detroit, Mich. Alcoholic beverages. 429,771; May 20; Serial No. 482,565; published Dec. 17, 1946. Class 49.

Davenshire, Incorporated, Davenport, Iowa. Slacks, short slacks, long-short slacks, pants, etc. 429,884; May 20; Serial No. 505,341; published Feb. 18, 1947. Class 39.

Davis, Ronald G., doing business as The Spartan Company, Minneapolis, Minn. Sponge mops. 429,866; May 20; Serial No. 504,161; published Mar. 4, 1947. Class 29.

Dohrmann Hotel Supply Co., San Francisco, Calif. Janitorial supplies. 429,839; May 20; Serial No. 500,745; published Mar. 4, 1947. Class 29.

Dorn, R. J., Company, assignor to Asbestone Corporation, New Orleans, La. Corrugated asbestos sheets, asbestos cement flat sheets and asbestos shingles. 429,814; May 20; Serial No. 495,597; published Mar. 4, 1947. Class 12.

Durex Products, Incorporated, New York, N. Y. Applicators for placing measured dosages of medication in various body cavities. 429,777; May 20; Serial No. 485,990; published Mar. 4, 1947. Class 44.

Duro-Test Corporation, North Bergen, N. J. Fluorescent lamps. 429,789; May 20; Serial No. 489,259; published Feb. 25, 1947. Class 21.

Ellis Coat Co., Inc., The, Manchester, Conn. Women's and misses' suits, coats, and raincoats. 429,794; May 20; Serial No. 490,299; published June 25, 1946. Class 39.

Elmhurst Flower Growers, Inc., Elmhurst, Ill. Natural flowers. 429,832–3; May 20; Serial Nos. 498,343–4; published Mar. 4, 1947. Class 1.

Even-Pul Foundations, Inc., New York, N. Y. Brassières and bandeaux. 429,812; May 20; Serial No. 494,965; published Mar. 4, 1947. Class 39.

Famous Bathrobe Co., Inc., New York, N. Y. Baby bath robes, buntings, sleeping robes, etc. 429,829; May 20; Serial No. 497,927; published Feb. 18, 1947. Class 39.

Firestone Tire & Rubber Company, The, Akron, Ohio. Partly prepared sponge rubber padding, sheets, and blocks of sponge rubber and rubber substitutes. 429,801; May 20; Serial No. 492,433; published Sept. 24, 1946. Class 1.

Fondé Youth, Jamaica, N. Y. Corsets, brassières, girdles, and foundations. 429,856; May 20; Serial No. 502,889; published Feb. 4, 1947. Class 39.

Foster, Charles H., New York, N. Y. Optical goods. 429,891; May 20; Serial No. 505,640; published Mar. 4, 1947. Class 26.

Fouch, James L., doing business as Universal Microphone Company, Inglewood, Calif. Electrically lighted wall plates for switches. 429,867; May 20; Serial No. 504,171; published Feb. 18, 1947. Class 21.

Frozen Food Products, Inc., New York, N. Y. Frozen foods and food products. 429,767; May 20; Serial No. 479,790; published Feb. 25, 1947. Class 46.

Gardel Industries, New York, N. Y. Dolls. 429,810; May 20; Serial No. 494,834; published Mar. 4, 1947. Class 22.

Gardel Industries, New York, N. Y. Dolls. 429,811; May 20; Serial No. 494,835; published Mar. 11, 1947. Class 22.

Gasket Engineering Company, Inc., Kansas City, Mo. Temperature controlled crystal housing units for radio apparatus. 429,892; May 20; Serial No. 505,642; published Feb. 18, 1947. Class 21.

General Aniline & Film Corporation, New York and Binghamton, N. Y. Sensitized photographic film. 429,890; May 20; Serial No. 505,574; published Mar. 4, 1947. Class 26.

General Gummed Products, Inc., New York and Richmond Hill, Long Island, N. Y. Gummed paper tape and gummed cloth tape. 429,797; May 20; Serial No. 491,641; published Mar. 4, 1947. Class 5.

General Industries Company, Elyria, Ohio. Electric motors, electric record changers, and electric phonograph recorders. 429,756; May 20; Serial No. 469,006; published Aug. 22, 1944. Class 21.

Gibco Delta Pedigreed Seed Co.: *See—*
Gibson, T. A.

Gibco England Pedigreed Seed Co.: *See—*
Gibson, T. A.

Gibson, T. A., doing business as Gibco Delta Pedigreed Seed Co., England, Ark. Cotton planting seed. 429,824; May 20; Serial No. 497,238; published Mar. 4, 1947. Class 1.

Gibson, T. A., doing business as Gibco England Pedigreed Seed Co., England, Ark. Cotton planting seed. 429,825; May 20; Serial No. 497,239; published Mar. 4, 1947. Class 1.

Gift Wrappings, Inc., New York, N. Y. Fancy wrapping paper and felt wrapping paper. 429,804; May 20; Serial No. 493,759; published Mar. 4, 1947. Class 37.

Girdler Corporation, The, Louisville, Ky. Apparatus for producing high frequency electric currents, etc., and apparatus for utilizing such currents and fields. 429,828; May 20; Serial No. 497,855; published Mar. 4, 1947. Class 21.

Griffiths, Evelyn E., Williaston, Wirral, England. Thermostatic apparatus. 429,807; May 20; Serial No. 494,444; published Mar. 4, 1947. Class 26.

Guardian Appliance Company: *See—*
Oyster, Elbert E.

Gudebrod Bros. Silk Co., Incorporated: *See—*
Gudebrod Brothers Silk Company, Incorporated.

Gudebrod Brothers Silk Company, Incorporated, doing business as Gudebrod Bros. Silk Co., Incorporated, Philadelphia, Pa. Surgical sutures. 429,809; May 20; Serial No. 494,674; published Mar. 4, 1947. Class 44.

Gutmann, Carl, & Co., Inc., New York, N. Y. Polo shirts and sweaters. 429,894; May 20; Serial No. 505,701; published Feb. 18, 1947. Class 39.

Hallicrafters Co., The, Chicago, Ill. Radio receiving sets. 429,813; May 20; Serial No. 495,381; published Feb. 25, 1947. Class 21.

Harbor Hills Sportswear, Inc., New York, N. Y. Men's and boys' suits, trousers, vests, and slacks. 429,844; May 20; Serial No. 501,182; published Feb. 25, 1947. Class 39.

Hartford Rayon Corporation, The, Rocky Hill, Conn. Viscose rayon yarn. 429,900; May 20; Serial No. 506,524; published Mar. 4, 1947. Class 43.

Hill-Behan Lumber Company, St. Louis, Mo. Roll roofing. 429,763; May 20; Serial No. 475,849; published Mar. 4, 1947. Class 12.

Hoffman Radio Corporation, Los Angeles, Calif. Small table model radio receiving set. 429,863; May 20; Serial No. 504,046; published Feb. 25, 1947. Class 21.

Howard Manufacturing Corporation, Council Bluffs, Iowa. Skate wheels. 429,822; May 20; Serial No. 496,966; published Mar. 4, 1947. Class 22.

Imported Delicacies Co., assignor to Imported Delicacies Co. Inc., New York, N. Y. Candy. 429,792; May 20; Serial No. 489,964; published Feb. 11, 1947. Class 46.

Imported Delicacies Co. Inc., assignee: *See—*
Imported Delicacies Co.

Industrial Synthetics Corporation, Irvington, N. J. Rods, tubes, and partly prepared articles. 429,759; May 20; Serial No. 471,308; published Aug. 7, 1945. Class 1.

Irvindale Farms, Inc., Atlanta, Ga. Milk and cream. 429,875; May 20; Serial No. 504,672; published Feb. 25, 1947. Class 46.

Jacobs, Grossman and Rosenberg, Inc., Philadelphia, Pa. Children's dresses and frocks. 429,764; May 20; Serial No. 477,354; published May 28, 1946. Class 39.

Jacobus', A. G., Sons, Inc., Verona, N. J. Household brushes. 429,887–8; May 20; Serial Nos. 505,417–18; published Mar. 4, 1947. Class 29.

Jacoby, Meyer, New York, N. Y. Doll wigs. 429,830; May 20; Serial No. 498,144; published Mar. 4, 1947. Class 22.

Jakosky, John J., Los Angeles, Calif. Golf clubs. 429,796; May 20; Serial No. 490,886; published Feb. 25, 1947. Class 22.

Jane Juniors: *See—*
Yampol, Paul M.

Johanson, Sten, New York, N. Y. Soap bubble blowers. 429,902; May 20; Serial No. 509,580; published Feb. 25, 1947. Class 22.

Kaylon Incorporated, New York, N. Y. Men's and ladies' pajamas and night robes. 429,758; May 20; Serial No. 469,934; published Dec. 3, 1946. Class 39.

Keever Starch Company, The, Columbus, Ohio. Wall size. 429,841; May 20; Serial No. 500,985; published Oct. 8, 1946. Class 5.

Kellogg, P. P., & Co.: *See—*
United States Envelope Company.

Kleinert, I. B., Rubber Company, New York, N. Y. Men's casual and play shoes. 429,883; May 20; Serial No. 505,306; published Mar. 4, 1947. Class 39.

L. and S. Packing Co., Inc., Long Island City, N. Y. Olive oil, bottled peppers, bottled pimentos, etc. 429,847; May 20; Serial No. 501,745; published Mar. 4, 1947. Class 46.

Levenson, Herbert, New York, N. Y. One piece pajamas, two piece pajama suits, nightshirts, and nightgowns. 429,806; May 20; Serial No. 494,089; published Feb. 18, 1947. Class 39.

Machine Products Corporation, Detroit, Mich. Adjustably rotatable tables. 429,757; May 20; Serial No. 469,162; published Jan. 15, 1946. Class 26.

Maiden Form Brassiere Company, Inc., New York, N. Y. Brassières, bandeau, corsets, etc. 429,876; May 20; Serial No. 504,681; published Feb. 18, 1947. Class 39.

Majestic Knitting Mills, assignor to Majestic Knitting Mills, Incorporated, New York, N. Y. Children's sweaters. 429,800; May 20; Serial No. 492,411; published Oct. 1, 1946. Class 39.

Majestic Knitting Mills, Incorporated: *See—*
Majestic Knitting Mills.

Marsh, James R., Essex Fells, N. J. Electric light fixtures. 429,898; May 20; Serial No. 505,939; published Feb. 18, 1947. Class 21.

Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies. 429,895–6; May 20; Serial Nos. 505,708–9; published Mar. 4, 1947. Class 46.

Master Industries, Inc., New York, N. Y. Ice cream mix. 429,850; May 20; Serial No. 502,386; published Feb. 25, 1947. Class 46.

Meadtex Fabrics Co., The, New York, N. Y. Ladies', misses', and girls' dresses, slips, playsuits, etc. 429,761; May 20; Serial No. 475,009; published Feb. 25, 1947. Class 39.

Metal-Lite Co., assignee: *See—*
Metal-Lite Products.

Metal-Lite Products Specialty Manufacturing Company, assignor to Metal-Lite Co., Bay City, Mich. Archery equipment. 429,854; May 20; Serial No. 502,652; published Feb. 25, 1947. Class 22.

Minnesota Valley Canning Company, Le Sueur, Minn. Canned peas and corn. 429,904; May 20; Serial No. 512,516; published Mar. 4, 1947. Class 46.

Miracle Adhesives Corporation, Newark, N. J. Adhesives for household and industrial uses, rubber products, starches, or glues. 429,906; May 20; Serial No. 514,556; published Mar. 4, 1947. Class 5.

Nameroff, William, Philadelphia, Pa. Dental alloy. 429,899; May 20; Serial No. 505,977; published Mar. 11, 1947. Class 44.

National Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. 429,784–5; May 20; Serial Nos. 488,660–1; published Feb. 18, 1947. Class 39.

National Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. 429,786; May 20; Serial No. 488,664; published Feb. 18, 1947. Class 39.

National Metal Products: *See—*
Short, Sidney D.

New River Company, The, assignee: *See—*
White Oak Coal Company.

Nob Hill of California, San Francisco, Calif. Women's suits and coats. 429,880; May 20; Serial No. 505,161; published Jan. 14, 1947. Class 39.

Norman Mfg. Co., Inc., New York, N. Y. China electric table lamps. 429,861; May 20; Serial No. 503,827; published Feb. 25, 1947. Class 21.

North Shore Manufacturing Company, Duluth, Minn. Women's and children's snow suits. 429,774; May 20; Serial No. 484,422; published Feb. 25, 1947. Class 39.

Old Virginia Packing Company, Inc., Front Royal, Va. Fruit jellies, fruit jams, fruit preserves, and mince meat. 429,831; May 20; Serial No. 498,248; published Feb. 25, 1947. Class 46.

Onyx Blouse Co., Inc., New York, N. Y. Work, dress, and sport shirts and blouses. 429,851; May 20; Serial No. 502,401; published Feb. 25, 1947. Class 39.

Oyster, Elbert E., doing business as Guardian Appliance Company, East Cleveland, Ohio. Heating apparatus. 429,798; May 20; Serial No. 491,767; published Apr. 23, 1946. Class 34.

Penn Hosiery Mills, Inc., Reading, Pa. Hosiery. 429,878; May 20; Serial No. 504,927; published Jan. 7, 1947. Class 39.

Petoskey Tool and Engineering Company, Petoskey, Mich. Toy sails for toy boats. 429,903; May 20; Serial No. 511,573; published Mar. 4, 1947. Class 22.

Phoenix Hosiery Company, Milwaukee, Wis. Hosiery. 429,773; May 20; Serial No. 484,030; published Jan. 14, 1947. Class 39.

Pioneer Suspender Company, Philadelphia, Pa. Braces and suspenders. 429,868; May 20; Serial No. 504,207; published Feb. 18, 1947. Class 39.

Poole, Foster M., doing business as Poole Manufacturing Engineers, Dallas, Tex. Remote-reading micrometers. 429,782; May 20; Serial No. 487,862; published Feb. 25, 1947. Class 26.

Poole Manufacturing Engineers: *See—*
Poole, Foster M.

Primate Cigar Co., Brooklyn, N. Y. Cigars. 429,860; May 20; Serial No. 503,753; published Mar. 4, 1947. Class 17.

Pycopé, Inc., Jersey City, N. J. Gum massaging attachments. 429,823; May 20; Serial No. 496,981; published Mar. 4, 1947. Class 44.

Radio Receptor Company, Inc., New York, N. Y. Electronic high frequency generators. 429,776; May 20; Serial No. 485,922; published Sept. 10, 1946. Class 21.

Raphael, Sol, Inc., New York, N. Y. Fur coats, jackets, and scarves. 429,815; May 20; Serial No. 495,691; published Feb. 18, 1947. Class 39.

Raytheon Manufacturing Company: *See—*
Submarine Signal Company.

Reinsberg, Ad, doing business as Ad Reinsberg Company, Chicago, Ill. Rainhats. 429,855; May 20; Serial No. 502,713; published Jan. 14, 1947. Class 39.

Reinsberg, Ad, Company: *See—*
Reinsberg, Ad.

Rock, Sidney, New York, N. Y. Radio transmitting sets and/or receiving sets and parts therefor. 429,852; May 20; Serial No. 502,597; published Feb. 25, 1947. Class 21.

Roma Wine Company, New York, N. Y., and Fresno, Calif., assignor to Schenley Distillers Corporation, New York, N. Y. Wines. 429,765; May 20; Serial No. 477,623; published Jan. 21, 1947. Class 47.

Roma Wine Company, New York, N. Y., and Fresno, Calif., assignor to Schenley Distillers Corporation, New York, N. Y. Wines. 429,766; May 20; Serial No. 477,626; published Feb. 18, 1947. Class 47.

Rombro Brothers Inc., Baltimore, Md. Work pants, jackets, dungarees, etc. 429,857; May 20; Serial No. 503,003; published Jan. 14, 1947. Class 39.

Roslund Mfg., Co., Tonawanda, N. Y. Gaff hooks. 429,820; May 20; Serial No. 496,666; published Feb. 25, 1947. Class 22.

Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. 429,881; May 20; Serial No. 505,165; published Jan. 21, 1974. Class 39.

Rubel, Jack, New York, N. Y. Fur coats, fur capes, fur scarfs, etc. 429,779; May 20; Serial No. 486,277; published Mar. 4, 1947. Class 39.

Russell, Ben, Inc., New York, N. Y. Men's wearing apparel. 429,787; May 20; Serial No. 488,776; published Feb. 25, 1947. Class 39.

Ryan Distributing Corporation, Brookline, Mass. Flexible wavers and curlers not electrical. 429,802; May 20; Serial No. 492,468; published Mar. 4, 1947. Class 40.

Schachter, Phil, Dress Corp., New York, N. Y. Dresses. 429,846; May 20; Serial No. 501,688; published Nov. 12, 1946. Class 39.

Schenley Distillers Corporation, assignee: *See—*
Roma Wine Company.

Sekine, I., Company, Inc., New York, N. Y. Toothbrushes. 429,842; May 20; Serial No. 501,014; published Mar. 4, 1947. Class 29.

Seminole Flavor Company, Chattanooga, Tenn. Carbonated non-alcoholic, non-cereal, maltless beverages, and flavoring therefor. 429,772; May 20; Serial No. 483,118; published Jan. 21, 1947. Class 45.

Sentinel Radio Corporation, Evanston, Ill. Radio receiving sets, intercommunicating radio apparatus, radio-phonograph combinations, etc. 429,781; May 20; Serial No. 486,726; published Mar. 4, 1947. Class 21.

Short, Sidney D., doing business as National Metal Products, Detroit, Mich. Artificial bait, fish lures, and parts thereof. 429,908; May 20; Serial No. 514,716; published Mar. 11, 1947. Class 22.

Sidele Fashions, Inc., Philadelphia, Pa. Women's, misses', and girls' blouses. 429,859; May 20; Serial No. 503,533; published Jan. 14, 1947. Class 39.

Siegel, Jacob, Company, Philadelphia, Pa. Men's and young men's topcoats and overcoats. 429,755; May 20; Serial No. 467,576; published Nov. 20, 1945. Class 39.

Simmon Brothers, Inc., Long Island City, N. Y. Light intensity measuring apparatus and time switches. 429,835; May 20; Serial No. 499,665; published Feb. 25, 1947. Class 26.

Snyder Manufacturing Company, Philadelphia, Pa. Radio antennas. 429,897; May 20; Serial No. 505,775; published Feb. 25, 1947. Class 21.

Spartan Company, The: *See—*
Davis, Ronald G.

Spiegel, Inc., Chicago, Ill. Electric flatirons. 429,799; May 20; Serial No. 492,287; published Feb. 25, 1947. Class 21.

Spiro, Jack, & Co., Inc., New York, N. Y. Children's dresses. 429,843; May 20; Serial No. 501,022; published Feb. 4, 1947. Class 39.

Sponge Rubber Products Company, The, Shelton, Conn. Sponge rubber. 429,795; May 20; Serial No. 490,338; published May 7, 1946. Class 1.

Stelzer Bros. Inc., New York, N. Y. Apparel belts. 429,873; May 20; Serial No. 504,457; published Jan. 21, 1947. Class 39.

Stiassny Ltd., London, England. Ladies' dresses, coats, costumes, etc. 429,874; May 20; Serial No. 504,587; published Feb. 11, 1947. Class 39.

Stoffel Sales Company, Inc., New York, N. Y. Safety seal caps and parts thereof, shipping case seals, safety seals for securing goods. 429,803; May 20; Serial No. 492,530; published Feb. 18, 1947. Class 25.

Submarine Signal Company, Boston, Mass., now by change of name Raytheon Manufacturing Company, assignor to Submarine Signal Company. Electronic control apparatus. 429,780; May 20; Serial No. 486,439; published Mar. 4, 1947. Class 21.

Subway Tailors: *See—*
Addesso, Carmine.

Texite, Inc., New York, N. Y. Wearing apparel. 429,848; May 20; Serial No. 502,346; published Jan. 7, 1947. Class 39.

Tex-Rite Products Co., Detroit, Mich. Fountain pens. 429,849; May 20; Serial No. 502,348; published Mar. 4, 1947. Class 37.

Thomson Company, Thomson, Ga. Men's shirts and trousers. 429,827; May 20; Serial No. 497,509; published Feb. 18, 1947. Class 39.

United States Envelope Company, doing business under the name and style of one of its divisions, P. P. Kellogg & Co., Springfield, Mass. Correspondence paper and envelopes. 429,805; May 20; Serial No. 493,902; published Mar. 4, 1947. Class 37.

Universal Mfg. Co. Inc., New York, N. Y. Men's and boys' pajamas and nightshirts. 429,889; May 20; Serial No. 505,460; published Jan. 14, 1947. Class 39.

Universal Microphone Company: *See—*
Fouch, James L.

Vestal Mills, Incorporated, Athens, Tenn. Hosiery. 429,893; May 20; Serial No. 505,674; published Jan. 21, 1947. Class 39.

Viking Yarn Mills, Inc., Philadelphia, Pa. Yarn. 429,885; May 20; Serial No. 505,372; published Mar. 4, 1947. Class 43.

Vingeorge Fashions, Inc., New York, N. Y. Misses' dresses. 429,862; May 20; Serial No. 504,015; published Jan. 7, 1947. Class 39.

Viz, Inc., Wichita, Kans. Projecting apparatus for slides and strip film; motion picture film for projectors; etc. 429,834; May 20; Serial No. 498,960; published Mar. 4, 1947. Class 26.

Waite, John K., doing business as John K. Waite Co., Seattle, Wash. Prepared foods. 429,879; May 20; Serial No. 505,090; published Feb. 25, 1947. Class 46.

Waite, John K., Co.: *See—*
Waite, John K.

Weissman, Beth, New York, N. Y. Electric lamps. 429,845; May 20; Serial No. 501,426; published Mar. 4, 1947. Class 21.

Well-Made Dress Company, Philadelphia, Pa. Women's dresses. 429,877; May 20; Serial No. 504,725; published Feb. 18, 1947. Class 39.

Whitehall Food Mfg. Corp., Brooklyn, N. Y. Food flavoring extracts. 429,769; May 20; Serial No. 479,961; published Feb. 25, 1947. Class 46.

White Oak Coal Company, assignor to The New River Company, Mount Hope, W. Va. Coal. 429,753; May 20; Serial No. 454,617; published Mar. 4, 1947. Class 1.

White Oak Coal Company, assignor to The New River Company, Mount Hope, W. Va. Coal. 429,754; May 20; Serial No. 454,750; published Mar. 4, 1947. Class 1.

Willard, Frances, Candy Company, The: *See—*
Young, Robert.

World Broadcasting System, Inc., New York, N. Y. Electrical transcriptions in the form of plastic disc sound records. 429,768; May 20; Serial No. 479,909; published Feb. 18, 1947. Class 21.

Yampol, Paul M., doing business as Jane Juniors, New York, N. Y. Ladies' and young ladies' dresses, suits, skirts, etc. 429,819; May 20; Serial No. 496,291; published Feb. 11, 1947. Class 39.

Young, Robert, doing business as The Frances Willard Candy Company, Columbus, Ohio. Candy. 429,778; May 20; Serial No. 486,187; published Dec. 25, 1945. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. White Oak Coal Company. 429,753; May 20; Serial No. 454,617; published Mar. 4, 1947.

Coal. White Oak Coal Company. 429,754; May 20; Serial No. 454,750; published Mar. 4, 1947.

Flowers. Natural. Elmhurst Flower Growers, Inc. 429,832–3; May 20; Serial No. 498,343–4; published Mar. 4, 1947.

Leather, Upper. Beggs & Cobb, Incorporated. 429,817; May 20; Serial No. 495,948; published Mar. 4, 1947.

Leather, Upper. Beggs & Cobb, Incorporated. 429,818; May 20; Serial No. 496,127; published Mar. 4, 1947.

Leather, Upper. Beggs & Cobb, Incorporated. 429,826; May 20; Serial No. 497,445; published Mar. 4, 1947.

Leather, Upper. Beggs & Cobb, Incorporated. 429,838; May 20; Serial No. 500,204; published Mar. 4, 1947.

Rods, tubes and partly prepared articles. Industrial Synthetics Corporation. 429,759; May 20; Serial No. 471,308; published Aug. 7, 1945.

Rubber padding, sheets, and blocks of sponge rubber and rubber substitutes, Partly prepared. Firestone Tire & Rubber Company. 429,801; May 20; Serial No. 492,433; published Sept. 24, 1946.

Seed, Cotton planting. T. A. Gibson. 429,824; May 20; Serial No. 497,238; published Mar. 4, 1947.

Seed, Cotton planting.; T. A. Gibson. 429,825; May 20; Serial No. 497,239; published Mar. 4, 1947.

Sponge rubber. Sponge Rubber Products Company. 429,795; May 20; Serial No. 490,338; published May 7, 1946.

CLASS 2

Bags, Open-mesh. Bemis Bro. Bag Company. 429,910–11; May 20; Serial Nos. 515,480–1; published Feb. 25, 1947.

Compacts and lipsticks cases. Elizabeth Arden Sales Corporation. 429,905; May 20; Serial No. 513,961; published Mar. 11, 1947.

Holders, Unfilled lipstick. Associated Products, Inc. 429,907; May 20; Serial No. 514,680; published Mar. 11, 1947.

CLASS 5

Adhesives for household and industrial uses, rubber products, starches, or glues. Miracle Adhesives Corporation. 429,906; May 20; Serial No. 514,556; published Mar. 4, 1947.

Cement, Rubber. Brunswick-Balke-Collender Company. 429,909; May 20; Serial No. 514,797; published Mar. 4, 1947.

Size, Wall. Keever Starch Company. 429,841; May 20; Serial No. 500,985; published Oct. 8, 1946.

Tape and gummed cloth tape, Gummed paper. General Gummed Products, Inc. 429,797; May 20; Serial No. 491,641; published Mar. 4, 1947.

CLASS 12

Asbestos sheets, asbestos cement flat sheets and asbestos shingles, Corrugated. R. J. Dorn Company. 429,814; May 20; Serial No. 495,597; published Mar. 4, 1947.

Roofing, Roll. Hill-Behan Lumber Company. 429,763; May 20; Serial No. 475,849; published Mar. 4, 1947.

CLASS 17

Cigars. Primate Cigar Co. 429,860; May 20; Serial No. 503,753; published Mar. 4, 1947.

CLASS 21

Apparatus for producing high frequency electric currents, etc., and apparatus for utilizing such currents and fields. Girdler Corporation. 429,828; May 20; Serial No. 497,855; published Mar. 4, 1947.

Automatic arc welding heads and fixtures. Auto Arc-Weld Manufacturing Co. 429,791; May 20; Serial No. 489,930; published Mar. 4, 1947.

Electric motors, electric record changers, and electric phonograph recorders. General Industries Company. 429,756; May 20; Serial No. 469,006; published Aug. 22, 1944.

Electrical transcriptions in the form of plastic disc sound records. World Broadcasting System, Inc. 429,768; May 20; Serial No. 479,909; published Feb. 18, 1947.

Electronic control apparatus. Submarine Signal Company. 429,780; May 20; Serial No. 486,439; published Mar. 4, 1947.

Flatirons, Electric. Spiegel, Inc. 429,799; May 20; Serial No. 492,287; published Feb. 25, 1947.

Generators, Elecctronic high frequency. Radio Receptor Company, Inc. 429,776; May 20; Serial No. 485,922; published Sept. 10, 1946.

Heaters, Electric immersion water. Acme Laboratory Equipment Co. 429,864; May 20; Serial No. 504,083; published Feb. 18, 1947.

Housing units for radio apparatus, Temperature controlled crystal. Gasket Engineering Company, Inc. 429,892; May 20; Serial No. 505,642; published Feb. 18, 1947.

Lamps, China electric table. Norman Mfg. Co., Inc. 429,861; May 20; Serial No. 503,827; published Feb. 25, 1947.

Lamps, Electric. B. Weissman. 429,845; May 20; Serial No. 501,426; published Mar. 4, 1947.

Lamps, Fluorescent. Duro-Test Corporation. 429,789; May 20; Serial No. 489,259; published Feb. 25, 1947.

Light fixtures, Electric. J. R. Marsh. 429,898; May 20; Serial No. 505,939; published Feb. 18, 1947.

Machine for drying engraved stationery. Cronite Co., Inc. 429,836; May 20; Serial No. 499,768; published Feb. 18, 1947.

Plates for switches, Electrically lighted wall. J. L. Fouch. 429,867; May 20; Serial No. 504,171; published Feb. 18, 1947.

Radio antennas. Snyder Manufacturing Company. 429,897; May 20; Serial No. 505,775; published Feb. 25, 1947.

Radio receiving sets. Hallicrafters Co. 429,813; May 20; Serial No. 495,381; published Feb. 25, 1947.

Radio receiving sets, intercommunicating radio apparatus, radio-phonograph combinations, etc. Sentinel Radio Corporation. 429,781; May 20; Serial No. 486,726; published Mar. 4, 1947.

Radio receiving sets, Small table model. Hoffman Radio Corporation. 429,863; May 20; Serial No. 504,046; published Feb. 25, 1947.

Radio transmitting sets and/or receiving rets and parts therefor. S. Rock. 429,852; May 20; Seral No. 502,597; published Feb. 25, 1947.

CLASS 22

Archery equipment. Metal-Lite Products Specialty Manufacturing Company. 429,854; May 20; Serial No. 502,652; published Feb. 25, 1947.

Bait, fish lures, and parts thereof, Artificial. S. D. Short. 429,908; May 20; Serial No. 514,716; published Mar. 11, 1947.

Bubble blowers, Soap. S. Johanson. 429,902; May 20; Serial No. 509,580; published Feb. 25, 1947.

Doll wigs. M. Jacoby. 429,830; May 20; Serial No. 498,144; published Mar. 4, 1947.

Dolls. Gardel Industries. 429,810; May 20; Serial No. 494,834; published Mar. 4, 1947.

Dolls. Gardel Industries. 429,811; May 20; Serial No. 494,835; published Mar. 11, 1947.

Gaff hooks. Roslund Mfg., Co. 429,820; May 20; Serial No. 496,666; published Feb. 25, 1947.

Golf clubs. J. J. Jakosky. 429,796; May 20; Serial No. 490,886; published Feb. 25, 1947.

Skate wheels. Howard Manufacturing Corporation. 429,822; May 20; Serial No. 496,966; published Mar. 4, 1947.

Toy bubble kits. W. E. Albright. 429,808; May 20; Serial No. 494,476; published Mar. 4, 1947.

Toy sails for toy boats. Petoskey Tool and Engineering Company. 429,903; May 20; Serial No. 511,573; published Mar. 4, 1947.

CLASS 24

Equipment for dry cleaning and commercial laundry. E. L. Chrisman. 429,793; May 20; Serial No. 490,285; published Mar. 4, 1947.

CLASS 25

Caps and parts thereof, shipping case seals, safety seals for securing goods, Safety seal. Stoffel Sales Company, Inc. 429,803; May 20; Serial No. 492,530; published Feb. 18, 1947.

CLASS 26

Film, Sensitized photographic. General Aniline & Film Corporation. 429,890; May 20; Serial No. 505,574; published Mar. 4, 1947.

Measuring apparatus and time switches, Light intensity. Simmon Brothers, Inc. 429,835; May 30; Serial No. 499,665; published Feb. 25, 1947.

Micrometers, Remote-reading. F. M. Poole. 429,782; May 20; Serial No. 487,862; published Feb. 25, 1947.

Motion pictures, Sound. Castle Films, Inc. 429,858; May 20; Serial No. 503,186; published Feb. 25, 1947.

Optical goods. C. H. Foster. 429,891; May 20; Serial No. 505,640; published Mar. 4, 1947.

Projecting apparatus for slides strip film; motion picture film for projectors; etc. Viz, Inc. 429,834; May 20; Serial No. 498,960; published Mar. 4, 1947.

Sunglasses, eyeglasses, spectacles and parts thereof. Comptone Company, Ltd. 429,870; May 20; Serial No. 504,332; published Mar. 4, 1947.

Tables, Adjustably rotatable. Machine Products Corporation. 429,757; May 20; Serial No. 469,162; published Jan. 15, 1946.

Thermostatic apparatus. E. E. Griffiths. 429,807; May 20; Serial No. 494,444; published Mar. 4, 1947.

CLASS 29

Brushes, Household. A. G. Jacobus' Sons, Inc. 429,887–8; May 20; Serial Nos. 505,417–18; published Mar. 4, 1947.

Janitorial supplies. Dohrmann Hotel Supply Co. 429,839; May 20; Serial No. 500,745; published Mar. 4, 1947.

Mops, Sponge. R. G. Davis. 429,866; May 20; Serial No. 504,161; published Mar. 4, 1947.

Puffs, Powder. Columbia Products Corporation. 429,790; May 20; Serial No. 489,315; published Feb. 25, 1947.

Toothbrushes. I. Sekine Company, Inc. 429,842; May 20; Serial No. 501,014; published Mar. 4, 1947.

CLASS 34

Heating apparatus. E. E. Oyster. 429,798; May 20; Serial No. 491,767; published Apr. 23, 1946.

CLASS 37

Envelopes, Correspondence. Carpenter Paper Company. 429,775; May 20; Serial No. 484,666; published Mar. 4, 1947.

Paper and envelopes, Correspondence. United States Envelope Company. 429,805; May 20; Serial No. 493,902; published Mar. 4, 1947.

Paper and foil wrapping paper, Fancy wrapping. Gift Wrappings, Inc. 429,804; May 20; Serial No. 493,759; published Mar. 4, 1947.

Pens, Fountain. Tex-Rite Products Co. 429,849; May 20; Serial No. 502,348; published Mar. 4, 1947.

CLASS 39

Apparel, Wearing. Texite, Inc. 429,848; May 20; Serial No. 502,346; published Jan. 7, 1947.

Bath robes, buntings, sleeping robes, etc., Baby. Famous Bathrobe Co., Inc. 429,829; May 20; Serial No. 497,927; published Feb. 18, 1947.

Belts, Apparel. Stelzer Bros. Inc. 429,873; May 20; Serial No. 504,457; published Jan. 21, 1947.

Blouses, aprons, scarfs, etc., Ladies'. Associated Products, Inc. 429,871; May 20; Serial No. 504,419; published Jan. 7, 1947.

Blouses, Women's, misses' and girls'. Sidele Fashions, Inc. 429,859; May 20; Serial No. 503,533; published Jan. 14, 1947.

Braces and suspenders. Pioneer Suspender Company. 429,868; May 20; Serial No. 504,207; published Feb. 18, 1947.

Brassières and bandeaux. Even-Pul Foundations, Inc. 429,812; May 20; Serial No. 494,965; published Mar. 4, 1947.

Brassières, bandeaux, corsets, etc. Maiden Form Brassiere Company, Inc. 429,876; May 20; Serial No. 504,681; published Feb. 18, 1947.

Coats and suits for misses and women. Braff, Leidner & Eisenstadt. 429,865; May 20; Serial No. 504,087; published Jan. 7, 1947.

Coats, fur capes, fur scarfs, etc., Fur. J. Rubel. 429,779; May 20; Serial No. 486,277; published Mar. 4, 1947.

Coats, jackets, and scarves, Fur. Sol Raphael, Inc. 429,815; May 20; Serial No. 495,691; published Feb. 18, 1947.

Corsets, brassières, girdles, and foundations. Fondé Youth. 429,856; May 20; Serial No. 502,889; published Feb. 4, 1947.

Dresses. Phil Schachter Dress Corp. 429,846; May 20; Serial No. 501,688; published Nov. 12, 1946.

Dresses and frocks, Children's. Jacobs, Grossman and Rosenberg, Inc. 429,764; May 20; Serial No. 477,354; published May 28, 1946.

Dresses, Children's. Jack Spiro & Co., Inc. 429,843; May 20; Serial No. 501,022; published Feb. 4, 1947.

Dresses, coats, costumes, etc., Ladies'. Stiassny Ltd. 429,874; May 20; Serial No. 504,587; published Feb. 11, 1947.

Dresses for women, misses and girls, Wash. Bellmore Dress Co. Inc. 429,872; May 20; Serial No. 504,425; published Feb. 11, 1947.

Dresses, Misses'. Vingeorge Fashions, Inc. 429,862; May 20; Serial No. 504,015; published Jan. 7, 1947.

Dresses, skirts, etc., Ladies' and young ladies'. P. M. Yampol. 429,819; May 20; Serial No. 496,291; published Feb. 11, 1947.

Dresses, slips, playsuits, etc., Ladies', misses' and girls'. Meadtex Fabrics Co. 429,761; May 20; Serial No. 475,009; published Feb. 25, 1947.

Dresses, Women's. Well-Made Dress Company. 429,877; May 20; Serial No. 504,725; published Feb. 18, 1947.

Dresses, Women's, misses', and juniors'. Buck's Corporation. 429,901; May 20; Serial No. 509,200; published Feb. 11, 1947.

Garments, Outer. C. Addesso. 429,821; May 20; Serial No. 496,880; published Feb. 25, 1947.

Hosiery. National Hosiery Mills, Inc. 429,784–5; May 20; Serial Nos. 488,660–1; published Feb. 18, 1947.

Hosiery. National Hosiery Mills, Inc. 429,786; May 20; Serial No. 488,664; published Feb. 18, 1947.

Hosiery. Penn Hosiery Mills, Inc. 429,878; May 20; Serial No. 504,927; published Jan. 7, 1947.

Hosiery. Phoenix Hosiery Company. 429,773; May 20; Serial No. 484,030; published Jan. 14, 1947.

Hosiery. Chester H. Roth Co., Inc. 429,881; May 20; Serial No. 505,165; published Jan. 21, 1947.

Hosiery. Vestal Mills, Incorporated. 429,893; May 20; Serial No. 505,674; published Jan. 21, 1947.

Outer garments, Men's, boys' and children's. Cohen, Goldman & Co. Inc. 429,882; May 20; Serial No. 505,285; published Jan. 21, 1947.

Overalls, jumpers, work jackets, etc. Blue Bell, Inc. 429,760; May 20; Serial No. 472,413; published Mar. 4, 1947.

Overalls, jumpers, work jackets, etc. Blue Bell, Inc. 429,770; May 20; Serial No. 480,643; published July 24, 1945.

Pajamas and night robes, Men's and ladies'. Kaylon Incorporated. 429,758; May 20; Serial No. 469,934; published Dec. 3, 1946.

Pajamas and nightshirts, Men's and boys'. Universal Mfg. Co. Inc. 429,889; May 20; Serial No. 505,460; published Jan. 14, 1947.

Pajamas, two piece pajamas suits, nightshirts, and nightgowns, One piece. H. Levenson. 429,806; May 20; Serial No. 494,089; published Feb. 18, 1947.

Pants, jackets, dungarees, etc., Work. Rombro Brothers Inc. 429,857; May 20; Serial No. 503,003; published Jan. 14, 1947.

Rainhats. A. Reinsberg. 429,855; May 20; Serial No. 502,713; published Jan. 14, 1947.

Robes, Bath and lounging. Auerbach Bath Robe Corp. 429,840; May 20; Serial No. 500,938; published Feb. 4, 1947.

Shirts and blouses, Work, dress and sport. Onyx Blouse Co., Inc. 429,851; May 20; Serial No. 502,401; published Feb. 25, 1947.

Shirts and sweaters, Polo. Carl Gutmann & Co., Inc. 429,894; May 20; Serial No. 505,701; published Feb. 18, 1947.

Shirts and trousers, Men's. Thomson Company. 429,827; May 20; Serial No. 497,509; published Feb. 18, 1947.

Shoes, Men's casual and play shoes. I. B. Kleinert Rubber Company. 429,883; May 20; Serial No. 505,306; published Mar. 4, 1947.

Slacks, short slacks, long-short slacks, pants, etc. Davenshire, Incorporated. 429,884; May 20; Serial No. 505,341; published Feb. 18, 1947.

Snow suits, Women's and children's. North Shore Manufacturing Company. 429,774; May 20; Serial No. 484,422; published Feb. 25, 1947.

Suits and coats, Women's. Nob Hill of California. 429,880; May 20; Serial No. 505,161; published Jan. 14, 1947.

Suits, coats, and raincoats, Women's and misses'. Ellis Coat Co., Inc. 429,794; May 20; Serial No. 490,299; published June 25, 1946.

Suits, trousers, vests and slacks, Men's and boys'. Harbor Hills Sportswear, Inc. 429,844; May 20; Serial No. 429,844; May 20; Serial No. 501,182; published Feb. 25, 1947.

Sweaters, Children's. Majestic Knitting Mills. 429,800; May 20; Serial No. 492,411; published Oct. 1, 1946.

Topcoats and overcoats, Men's and young men's. Jacob Siegel Company. 429,755; May 20; Serial No. 467,576; published Nov. 20, 1945.

Wash dresses, Misses' and women's. Bellmore Dress Co. Inc. 429,886; May 20; Serial No. 505,386; published Feb. 25, 1947.

Wearing apparel, Men's. Ben Russell Inc. 429,787; May 20; Serial No. 488,776; published Feb. 25, 1947.

CLASS 40

Curlers, Non-electric hair. American Beauty Aids Mfg. Co. Inc. 429,783; May 20; Serial No. 488,559; published Mar. 4, 1947.

Wavers and curlers not electrical, Flexible. Ryan Distributing Corporation. 429,802; May 20; Serial No. 492,468; published Mar. 4, 1947.

CLASS 43

Yarn. Viking Yarn Mills, Inc. 429,885; May 20; Serial No. 505,372; published Mar. 4, 1947.

Yarn, Viscose rayon. Hartford Rayon Corporation. 429,900; May 20; Serial No. 506,524; published Mar. 4, 1947.

CLASS 44

Applicators for placing measured dosages of medication in various body cavities. Durex Products, Incorporated. 429,777; May 20; Serial No. 485,990; published Mar. 4, 1947.

Dental alloy. W. Nameroff. 429,899; May 20; Serial No. 505,977; published Mar. 11, 1947.

Dental materials. Coralite Dental Products Company. 429,762; May 20; Serial No. 475,247; published Dec. 5, 1944.

Gum massaging attachments. Pycopé, Inc. 429,823; May 20; Serial No. 496,981; published Mar. 4, 1947.

Supporters, hot water bottles, catamenial bandages, etc., Abdominal. Arkwright, Incorporated. 429,816; May 20; Serial No. 495,856; published Mar. 11, 1947.

Surgical sutures. Gudebrod Brothers Silk Company, Incorporated. 429,809; May 20; Serial No. 494,674; published Mar. 4, 1947.

CLASS 45

Beverages, and flavoring therefor, Carbonated non-alcoholic, non-cereal, maltless. Seminole Flavor Company. 429,772; May 20; Serial No. 483,118; published Jan. 21, 1947.

CLASS 46

Candies. Mason, Au & Magenheimer Conf. Mfg. Co. 429,895–6; May 20; Serial Nos. 505,708–9; published Mar. 4, 1947.

Candy. Imported Delicacies Co. 429,792; May 20; Serial No. 489,964; published Feb. 11, 1947.

Candy. R. Young. 429,778; May 20; Serial No. 486,187; published Dec. 25, 1945.

Canned peas and corn. Minnesota Valley Canning Company. 429,904; May 20; Serial No. 512,516; published Mar. 4, 1947.

Canned tomatoes, grapefruit juice, a blend of grapefruit and orange juices, etc. Bennett-Ray Canning Company. 429,788; May 20; Serial No. 488,988; published Mar. 4, 1947.

Corn chips. J. P. Bush. 429,853; May 20; Serial No. 502,620; published Mar. 4, 1947.

Culture preparation, the principal ingredients of which are flour, butter, buttermilk, water etc. Brolite Company. 429,837; May 20; Serial No. 500,053; published Feb. 25, 1947.

Food flavoring extracts. Whitehall Food Mfg. Corp. 429,769; May 20; Serial No. 479,961; published Feb. 25, 1947.

Frozen foods and food products. Frozen Food Products, Inc. 429,767; May 20; Serial No. 479,790; published Feb. 25, 1947.

Fruit jellies, fruit jams, fruit preserves, and mince meat. Old Virginia Packing Company, Inc. 429,831; May 20; Serial No. 498,248; published Feb. 25, 1947.

Fruits, Fresh citrus. Braden & Company. 429,869; May 20; Serial No. 504,323; published Feb. 25, 1947.

Ice cream mix. Master Industries, Inc. 429,850; May 20; Serial No. 502,386; published Feb. 25, 1947.

Milk and cream. Irvindale Farms, Inc. 429,875; May 20; Serial No. 504,672; published Feb. 25, 1947.

Olive oil, bottled peppers, bottled pimentos, etc. L and S. Packing Co., Inc. 429,847; May 20; Serial No. 501,745; published Mar. 4, 1947.

Prepared foods. J. K. Waite. 429,879; May 20; Serial No. 505,090; published Feb. 25, 1947.

CLASS 47

Wines. Roma Wine Company. 429,765; May 20; Serial No. 477,623; published Jan. 21, 1947.

Wines. Roma Wine Company. 429,766; May 20; Serial No. 477,626; published Feb. 18, 1947.

CLASS 49

Beverages, Alcoholic. Crown Cordial Company. 429,771; May 20; Serial No. 482,565; published Dec. 17, 1946.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Allen, Kent, assignee: *See*—
Del Riccio, Lorenzo.

Del Riccio, Lorenzo, assignor of one-half to K. Allen, Los Angeles, Calif. Photographically recording the order of passage of moving objects. Re. 22,881; May 20.

Kendall Company, The, assignee: *See*—
Morrison, Dana E., and Ziegler.

McGill Manufacturing Company, assignee: *See*—
Popp, Rudolf.

Morrison, Dana E., Kenilworth, and P. F. Ziegler, Winnetka, assignors to The Kendall Company, Chicago, Ill. Bonded joint or section of elastic fabric. Re. 22,880; May 20.

Popp, Rudolf, assignor to McGill Manufacturing Company, Valparaiso, Ind. Housing for electric switches. Re. 22,882; May 20.

Ziegler, Paul F.: *See*—
Morrison, Dana E., and Ziegler.

LIST OF DESIGN PATENTEES

Baranow, Lewis, Los Angeles, Calif. Finger ring. 146,783; May 20.

Best, John H., & Sons, Inc., assignee: *See*—
Best, Leon H.

Best, Leon H., assignor to John H. Best & Sons, Inc., Galva, Ill. Combination article carrying and display device. 146,784; May 20.

Billings, Everett W., Jr., Los Angeles, Calif. Tripod. 146,785; May 20.

Camp, Dewey W., Jackson, and O. B. Loper, Hattiesburg, Miss. Game board. 146,786; May 20.

Carter, Jess W., and A. E. Saunders, Los Angeles, Calif. Marble-game toy. 146,787; May 20.

Crane, Claude B., Kansas City, Mo. Combined ash tray and holder for smokers' articles. 146,788; May 20.

Dailey, Donald E., Bryn Mawr, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerator cabinet. 146,789; May 20.

Drell, William, New York, N. Y. Button or similar article. 146,790; May 20.

Drell, William, New York, N. Y. Button or similar article. 146,791; May 20.

Etkin, Simon, New York, N. Y. Jacket. 146,792; May 20.

Freedman, Jules, New York, N. Y. Coat. 146,793; May 20.

Hartnett, Paul L., Leominster, Mass. Scarf holder. 146,794; May 20.

Hood, George M., Glendale, Calif. Closure for a jar or similar article. 146,795; May 20.

International Standard Electric Corporation, assignee: *See*—
Lens, Georges X.

Johnson, Carl S., Eugene, Oreg. Combined baby chair and end table. 146,796; May 20.

Kastner, Mortimer M., Montreal, Quebec, Canada. Game board. 146,797; May 20.

Kenyon Instrument Co., Inc., assignee: *See*—
Newell, Arthur T.

Kitzmiller, Richard D., assignee: *See*—
Schaub, Gordon A.

Larsen, Agnew E., Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md. Helicopter. 146,798; May 20.

Larsen, Agnew E., Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md. Helicopter. 146,799; May 20.

Larson, Raymond T., Chicago, Ill. Camera. 146,800; May 20.

Lens, Georges X., Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Combined keyboard and tape printer for electrical computing apparatus. 146,801; May 20.

Leventhal, Leon, New York, N. Y. Jacket. 146,802; May 20.

Little, John M., assignor to Toledo Scale Company, Toledo, Ohio. Meat chopper. 146,803; May 20.

Loper, Oscar B.: *See*—
Camp, Dewey W., and Loper.

Martin, Glenn L., The, Company, assignee: *See*—
Larsen, Agnew E.

McKee, Joseph B., Los Angeles, Calif. Condiment shaker or similar article. 146,804; May 20.

Millhauser, Eugene K., assignor to M. Oedekerk, Jr., Los Angeles, Calif. Card and poker chip rack. 146,805; May 20.

Moholy-Nagy, Laszlo, Chicago, Ill., assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 146,806; May 20.

Molded Products Company, assignee: *See*—
Zegel, William P.

National Instrument Corporation, assignee: *See*—
Robinson, Marshall M.

Newell, Arthur T., Huntington, assignor to Kenyon Instrument Co., Inc., Hunting Station, N. Y. Signal light. 146,807; May 20.

Oedekerk, Martin, Jr., assignee: *See*—
Millhauser, Eugene K.

Parker Pen Company, The, assignee: *See*—
Moholy-Nagy, Laszlo.

Philco Corporation, assignee: *See*—
Dailey, Donald E.

Restifo, Gaetano, Jackson Heights, N. Y. Box or similar article. 146,808; May 20.

Robinson, Marshall M., assignor to National Instrument Corporation, Houston, Tex. Photographic spotlight. 146,809; May 20.

Rufel, John, New York, N. Y. Bowl or similar article. 146,810; May 20.

Saunders, Arthur E.: *See*—
Carter, Jess W., and Saunders.

Schaub, Gordon A., Freeland, assignor to R. D. Kitzmiller, Swarthmore, Pa. Stroller. 146,811; May 20.

Stevens, Clifford B., Milwaukee, assignor to Wheary Incorporated, Racine, Wis. Hand luggage case. 146,812; May 20.

Strait, Adelaid, Hawthorne, Calif. Pin or similar article. 146,813; May 20.

Summers, Richard F., New York, N. Y. Whirling toy. 146,814; May 20.

Tandy, David L., Fort Worth, Tex. Chain tie clasp. 146,815; May 20.

Toledo Scale Company, assignee: *See*—
Little, John M.

Treuting, Frank L., assignor to H. R. Treuting, Sr., Newark, N. J. Articulated animal figure. 146,816; May 20.

Treuting, Herbert R., Sr., assignee: *See*—
Treuting, Frank L.

Walker, Jane, New York, N. Y. Suit. 146,817; May 20.

Walker, Jane, New York, N. Y. Coat. 146,818; May 20.

Wheary, George H., Jr., assignor to Wheary Incorporated, Racine, Wis. Textile fabric or similar article. 146,819; May 20.

Wheary Incorporated, assignee: *See*—
Stevens, Clifford B.
Wheary, George H., Jr.

Zegel, William P., assignor to Molded Products Company, New York, N. Y. Toy high chair. 46,820; May 20.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

- Acteson, John J., Auburn, Wash. Demountable pallet crib. 2,420,640; May 20.
- Agins, George: *See*—
  - Davis, Arthur P., and Agins.
- Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
  - McKennon, Forrest L., and Lindquist.
- Albertson, Noel F., East Greenbush, and S. Archer, Albany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Preparing dl-histidine, and intermediates therefor. 2,420,641; May 20.
- Allied Chemical & Dye Corporation, assignee: *See*—
  - Weber, Edward.
- Allied Shoe Machinery Corp., assignee: *See*—
  - Perri, Angelo.
- Almgren, August E., Hillside, N. J., assignor to American Can Company, New York, N. Y. Treating machine for opening hinged closure members on containers. 2,420,642; May 20.
- American Can Company, assignee: *See*—
  - Almgren, August E.
- American Car and Foundry Company, assignee: *See*—
  - Pancake, Herman H.
- American Cyanamid Company, assignee: *See*—
  - Nies, Abby W.
- American Machine & Foundry Company, assignee: *See*—
  - Wells, James D.
- American Seal-Kap Corporation of Delaware, assignee: *See*—
  - Dorsch, William C.
- American Smelting and Refining Company, assignee: *See*—
  - Olsen, Thue C.
- Anderson, Carl E., Newark, N. J. Pump. 2,420,806, May 20.
- Anderson, Gilbert R., Chattanooga, Tenn., assignor to Hercules Powder Company, Wilmington, Del. Polypentaerythritol esters of rosin acids. 2,420,926; May 20.
- Anderson, Raymond T., Lakewood, assignor, by mesne assignments, to The V. D. Anderson Company, Cleveland, Ohio. Screening and conveying solids of an oil separating tank. 2,420,927; May 20.
- Anderson, V. D., Company, The, assignee: *See*—
  - Anderson, Raymond T.
- Annis, Robert B., Indianapolis, Ind. Dynamic balancer. 2,420,765; May 20.
- Archer, Sydney: *See*—
  - Albertson, Noel F., and Archer.
- Archibald, Frederick R., Beverly, Mass., assignor to Nepheline Products Limited, Lakefield, Ontario, Canada. Recovery of alumina from ores. 2,420,852; May 20.
- Arma Corporation, assignee: *See*—
  - Davis, Arthur P.
  - Davis, Arthur P., and Agins.
- Artzt, Maurice, Princeton, N. J., assignor to Radio Corporation of America. Facsimile apparatus. 2,420,731; May 20.
- Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,420,643; May 20.
- Athy, Lyman C., and P. C. Stufft, Baltimore, Md., assignors to Pemco Corporation. Flameproofing of fabrics and composition therefor. 2,420,644; May 20.
- Attorney General of the United States, assignee: *See*—
  - Maillet, Raymond.
- Aufiero, John M., Plandome, N. Y. Electric horn control system. 2,420,807; May 20.
- Austinal Laboratories, Inc., assignee: *See*—
  - Zahn, Eric H., and Feagin.
- Automatic Electric Laboratories, Inc., assignee: *See*—
  - McCreary, Harold J.
- Babcock & Wilcox Company, The, assignee: *See*—
  - Boland, Edward L.
  - Coykendall, Leon H., and Rowand.
- Bakelite Corporation, assignee: *See*—
  - Barthel, Rudolf.
- Baker, Harold L., Clovis, Calif. Section mold. 2,420,766; May 20.
- Barras, Herbert, Baldwin, La. Clutch controlling device. 2,420,767; May 20.
- Barthel, Rudolf, Berlin-Karlshorst, Germany, assignor to Bakelite Corporation, New York, N. Y. Air drying mixed esters and preparing the same. 2,420,694; May 20.
- Bausch & Lomb Optical Company, assignee: *See*—
  - Peterson, Stanley V., and Turner.
  - Rice, Richard M.
- Bay State Abrasive Products Company, assignee: *See*—
  - Buckner, Orello S.
- Beeler, Earl C., Baggs, Wyo. Sickle grinder. 2,420,645; May 20.
- Bell Telephone Laboratories, Incorporated, assignee: *See*—
  - Little, John B.
- Beloit Iron Works, assignee: *See*—
  - Hornbostel, Lloyd, and Goodwillie.
- Bendix Aviation Corporation, assignee: *See*—
  - Crosby, Lawrence E.
  - MacDuff, Stanley I.
  - Price, Harold W.
  - Sutton, Robert W., and Winkler.
  - Wirth, Emil O.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,420,695; May 20.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,420,696; May 20.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,420,697; May 20.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine support. 2,420,698; May 20.
- Beveridge, David D., Jr., Boston, Mass. Electric switch. 2,420,768; May 20.
- Bichsel, Suzanne, and B. Isaacson, New York, N. Y. Portable hair drier. 2,420,732; May 20.
- Biggs, George A., assignor to The James Leffel & Co., Springfield, Ohio. Hydraulic turbine. 2,420,853; May 20.
- Birtman Electric Company, assignee: *See*—
  - Lanter, Clarence W.
- Black, James J., assignor to The Trailmobile Company, Cincinnati, Ohio. Tire carrier. 2,420,854; May 20.
- Bliss, Harvey N., Windsor, assignor to Veeder-Root Incorporated, Hartford, Conn. Registering mechanism. 2,420,808; May 20.
- Bloom, Ralph, Jr., and E. N. Klemgard, U. S. Navy, Washington, D. C., and B. Ronay and R. W. Miller, Annapolis, Md. Detecting flaws in metal articles. 2,420,646; May 20.
- Boardman, Harry D., assignee, trustee: *See*—
  - Merriman, Henry H.
- Bock, Louis H.: *See*—
  - Hager, Onslow B., and Bock.
- Bogart, Fred H., South Euclid, assignor to The Warner & Swasey Company, Cleveland, Ohio. Chuck electric motor control. 2,420,855; May 20.
- Bohn Aluminum & Brass Corporation, assignee: *See*—
  - Look, Henry J.
- Boland, Edward L., East Orange, assignor to The Babcock & Wilcox Company, Jersey City, N. J. Vapor generator. 2,420,647; May 20.
- Bolton, Robert M., U. S. Navy. Apparatus for determining the water vapor content of aviation breathing oxygen. 2,420,648; May 20.
- Borg-Warner Corporation, assignee: *See*—
  - Neumann, George R., Farrell, and Davis.
- Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Activators for terpene thiocyanoacylate insecticides. 2,420,809; May 20.
- Boston Wire Stitcher Company, assignee: *See*—
  - Maynard, Arthur H.
- Bonsquet, Euclid W., Wilmington, and A. H. Goddin, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dialkoxyaryl trichloromethyl methane compounds as insecticides. 2,420,928; May 20.
- Boye Needle Company, The, assignee: *See*—
  - Carlson, Gustav A.
- Bray, Richard I., Gloucester, J. Gabry, Saugus, and C. B. Wendell, Jr., Needham, assignors to Godfrey L. Cabot, Inc., Boston, Mass. Manufacture of high volatile carbon black. 2,420,810; May 20.
- Breedlove, Harry B., Springfield, Ohio. Hydraulic torque amplifier. 2,420,649; May 20.
- Brewster, Sol, and W. Miller, New York, N. Y. Glass-lifting or carrying device. 2,420,811; May 20.
- Bridgman, Henry: *See*—
  - Moore, Marlin C., and Bridgman.
- Brill, William E., Cleveland, Ohio, and E. R. Gasser, Buffalo, N. Y., assignors to General Motors Corporation, Detroit, Mich. Ship drive and control system. 2,420,856; May 20.
- Bristol Company, The, assignee: *See*—
  - Koester, Herman.
- British Celanese Limited, assignee: *See*—
  - Drewitt, James G. N., and Young.

- Brooks, John L.: *See*—
  - Harrison, T., and Brooks.
- Brown, George M., Scotia, N. Y., assignor to General Electric Company. Electric discharge device oscillator with nonlinear grid leak resistor. 2,420,857; May 20.
- Brownell, Dean H., Rocky River, Ohio. Coupling. 2,420,858; May 20.
- Brunner, Frank A., Ridgewood, N. Y. Toothpick dispenser. 2,420,812; May 20.
- Buckner, Orello S., Northboro, assignor to Bay State Abrasive Products Company, Westboro, Mass. Aluminum phosphate bonded diamond abrasive. 2,420,859; May 20.
- Buda Company, The, assignee: *See*—
  - Richards, Dwight.
- Buffington, Malcolm R., Millburn, and E. G. Jegge, Montclair, assignors to Lea Fabrics, Inc., Newark, N. J. Chevron packing ring. 2,420,929; May 20.
- Burch, Roy F., Sr., Denver, Colo. Self-sharpening shears. 2,420,650; May 20.
- Burner, Bingham F., Arlington, Va. High chair and tie for reenforcing rods. 2,420,860; May 20.
- Burrows, Lawton A., Woodbury, N. J., G. H. Loving, Huntington, W. Va., and R. R. Nydegger and G. H. Smith, Wilmington, Del. Ignition device. 2,420,651; May 20.
- Burt, F. N., Company, Inc., assignee: *See*—
  - Dickerman, Harry K.
- Bush, Arthur G., Davenport, Iowa. Reciprocating blade type slicing machine. 2,420,930; May 20.
- Cabot, Godfrey L., Inc., assignee: *See*—
  - Bray, Richard I., Gabry, and Wendell.
- Calvin, Kate H., Los Angeles, Calif. Maternity skirt. 2,420,769; May 20.
- Camerota, Louis A., Burlington, assignor to Florence Pipe-Foundry & Machine Company, Florence, N. J. Multiplaten press and loading means therefor. 2,420,813; May 20.
- Camloc Fastener Corporation, assignee: *See*—
  - Cannova, George.
- Cannova, George, Flushing, assignor to Camloc Fastener Corporation, New York, N. Y. Fastener receptacle. 2,420,733; May 20.
- Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Tatting shuttle. 2,420,861; May 20.
- Chambers, Thomas S., Newark, N. J., assignor to Standard Oil Development Company. Stabilization of vinyl aromatic compounnds with gaseous diolefins or acetylenes. 2,420,862; May 20.
- Charles, Glen W., assignor to A. P. Green Fire Brick Company, Mexico, Mo. Dry press insulating fire brick. 2,420,863; May 20.
- Chilowsky, Constantin, New York, N. Y. Method and apparatus for making artificial piezoelectric elements. 2,420,652; May 20.
- Chilowsky, Constantin, New York, N. Y. Piezoelectric plastic material and making same. 2,420,864; May 20.
- Chiodo, Ned, Des Moines, Iowa. Shoe heel insert and heel. 2,420,770; May 20.
- Churchill, Charles H., Cortland, N. Y. Toilet soap novelty. 2,420,734; May 20.
- Cinch Manufacturing Corporation, assignee: *See*—
  - MacFadden, Wilford C.
- Clark, Avery A., assignor to The Great Western Sugar Company, Denver, Colo. Kiln charging means and method. 2,420,653; May 20.
- Clark, Earl W., Stuart, Fla. Knife sharpening apparatus. 2,420,814; May 20.
- Coe, Clarence S.: *See*—
  - Doumani, Thomas F., and Coe.
- Coffman, John R., St. Paul, Minn., and H. F. Lewis, Appleton, Wis., assignors, by mesne assignments, to General Mills, Inc. Treatment of protein with acids and product resulting therefrom. 2,420,735; May 20.
- Coffman, John R., St. Paul, Minn., and H. F. Lewis, Appleton, Wis., assignors, by mesne assignments, to General Mills, Inc. Treatment of protein with acids and furfuryl alcohol and product resulting therefrom. 2,420,736; May 20.
- Cohen, Jacob B., Brighton, and H. E. Hanson, Dorchester, Mass. Microarea precision locator. 2,420,654; May 20.
- Conlan, David, assignor to Conlan Electric Corporation, Brooklyn, N. Y. Plug and switch box. 2,420,865; May 20.
- Conlan Electric Corporation, assignee: *See*—
  - Conlan, David.
- Cooke, Ernest A., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Apparatus for generating involutes. 2,429,931; May 20.
- Cooper, Lester, Milford, Conn., and H. Pfleumer, New Brunswick, N. J., assignors to Rubatex Products, Inc., New York, N. Y. Producing expanded rubber material. 2,420,815; May 20.
- Cornelius, George W., assignor of one-half to E. H. Johnson, Dayton, Ohio. Control system for airplanes. 2,420,932; May 20.
- Coss, George R., Detroit, Mich., assignor to Eureka Williams Corporation. Coupling for suction cleaners. 2,420,866; May 20.
- Cox, Ivan, Paoli, Ind. Mail box. 2,420,699; May 20.
- Coykendall, Leon H., Westfield, and W. H. Rowand, Madison, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Fluid circulating heat exchanger. 2,420,655; May 20.
- Crane, Carl J., U. S. Army, Sacramento, Calif. Efficiency measuring device. 2,420,656; May 20.
- Crawford, Cecil: *See*—
  - Crawford, Herman E. and C.
- Crawford, Frederick G., and E. A. Stroschein, Oshkosh, Wis., assignors to The Rudolph Wurlitzer Company, Chicago, Ill. Automatic volume control. 2,420,933; May 20.
- Crawford, Herman E., Kernersville, and C. Crawford, Durham, N. C. Knitting machine and method. 2,420,771; May 20.
- Criner, Harry E.: *See*—
  - McCann, Gilbert D., Jr., and Criner.
- Crompton & Knowles Loom Works, assignee: *See*—
  - Turner, Richard G.
- Crosby, Lawrence E., assignor to Bendix Aviation Corporation, South Bend, Ind. Transfer apparatus. 2,420,867; May 20.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Diversity combining circuit. 2,420,868; May 20.
- Curphy, William C., Des Moines, Iowa. Exhaust pipe attachment. 2,420,700; May 20.
- Dalkin, A., Company, assignee: *See*—
  - Yuza, Rudolph.
- Dalton, Thomas L., Kansas City, Mo. Combination signal and radio aerial. 2,420,772; May 20.
- Danciger Oil & Refineries, Inc., assignee: *See*—
  - Isham, Robert M.
- Danner, Edward, Newark, Ohio. Manufacture of glassware. 2,420,934; May 20.
- D'Aquin, George A., Houston, Tex. Evaporating set. 2,420,935; May 20.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Buffer. 2,420,701; May 20.
- Dauster, John F., Wilkinsburg, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Protective headgear. 2,420,937; May 20.
- Davis, Arthur P., New York, N. Y., assignor to Arma Corporation. Position control system. 2,420,816; May 20.
- Davis, Arthur P., Stamford, Conn., and G. Agins, assignors to The Arma Corporation, Brooklyn, N. Y. Remote control apparatus for electric motors. 2,420,817; May 20.
- Davis, Charles S., Jr.: *See*—
  - Neumann, George R., Farrell, and Davis.
- Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Sleeve press. 2,420,818; May 20.
- Davis, Floyd E., Gary, Ind. Flying coiler. 2,420,936; May 20.
- Davis, Ira D., Fort Worth, Tex. Nail and tack holder and finger guard. 2,420,869; May 20.
- De Boer, Jan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Granulated carbon microphone. 2,420,737; May 20.
- De Forest's Training, Inc., assignee: *See*—
  - Thompson, Orville I.
- Del Llano, Jose S., assignor of one-fourth to R. M. Ferrer, Habana, Cuba. Closure for nonrefillable containers. 2,420,870; May 20.
- Derr, Willard A., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system and telemetering circuit. 2,420,871; May 20.
- De Stefano, John, Jackson Heights, N. Y. Portable sea water still. 2,420,819; May 20.
- Dickerman, Harry K., assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Paper powder can. 2,420,738; May 20.
- Dodds, John M., Timperley, and J. H. Ludlow, Bowdon, England. Tuner. 2,420,657; May 20.
- Dominion Tar & Chemical Company Limited, assignee: *See*—
  - Sturrock, Murray G., and Lawe.
- Dorfman, Irving, assignor to Federal Carton Corporation, New York, N. Y. Display box with adjustable bottom. 2,420,773; May 20.
- Dorsch, William C., Jamaica, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Drying unit using steam jets. 2,420,739; May 20.
- Douma, Tjiske, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Frequency-donbling device for high-frequency oscillations. 2,420,740; May 20.
- Doumani, Thomas F., Los Angeles, and C. S. Coe, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Nitric acid as selective solvent in oxidation of naphthenes. 2,420,938; May 20.
- Drewitt, James G. N., London, and D. P. Young, Spondon, near Derby, assignors to British Celanese Limited, London, England. Amino-aliphatic hydrazines and making same. 2,420,702; May 20.
- Du Pont, E. I. de Nemours, & Company, assignee: *See*—
  - Bonsquet, Euclid W., and Goddin.
  - Burrows, Lawton A., Loving, Nydegger, and Smith.
  - Woodward, David W.

- Easley, Gilbert J., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,420,872 ; May 20.
- Eastburg, Clifford L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller bearing. 2,420,820 ; May 20.
- Eberhart, Arthur H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air conditioning apparatus. 2,420,939 ; May 20.
- Eclipse Aviation Corporation, assignee : *See—*
  - Mock, Frank C.
- Ehrke, Louis F. : *See—*
  - Slack, Charles M., and Ehrke.
- Eiriksson, Holger, Groton, Conn. Device for handling flanged objects. 2,420,658 ; May 20.
- Eldridge, James W., Pasadena, Calif. Culinary vessel and rack therefor. 2,420,940 ; May 20.
- Ellingson, Rudolph C., assignor to Mead Johnson & Company, Evansville, Ind. 2-sulfanilamidopyrazine. 2,420,703 ; May 20.
- Elliott, H. W., assignee : *See—*
  - Lorraine, David G.
- Eriksson, Erik E., Detroit, Mich. Nut driver. 2,420,741 ; May 20.
- Erran, Heinz, Mount Vernon, N. Y. Combination garment hanger. 2,420,742 ; May 20.
- Errath, Edward O. : *See—*
  - Frentzel, Herman C., Jr., and Errath.
- Eureka William Corporation, assignee : *See—*
  - Coss, George R.
- Everlasting Valve Company, assignee : *See—*
  - Wilson, Wylie G.
- Ewald, Raymond L., and H. A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg. Processing fruit. 2,420,659 ; May 20.
- Falter, Urban M., assignor to The Standard Register Company, Dayton, Ohio. Manifolding assembly. 2,420,660 ; May 20.
- Farrell, Eugene F. : *See—*
  - Neumann, George R., Farrell, and Davis.
- Feagin, Roy C. : *See—*
  - Zahn, Eric H., and Feagin.
- Federal Carton Corporation, assignee : *See—*
  - Dorfman, Irving.
- Ferrer, Ricardo M., assignee : *See—*
  - Del Llano, Jose S.
- Fidelity Machine Company, Inc., assignee : *See—*
  - Larkin, Walter.
- Fies, Milton H., Birmingham, Ala. Combined picking table and screen of the drag-conveyor type. 2,420,941 ; May 20.
- Finch, Harry D. : *See—*
  - Morris, Rupert C., and Finch.
- Fleming, Charles L., Jr. : *See—*
  - McNab, John G., and Fleming.
- Flex-O-Tube Company, assignee : *See—*
  - Milton, Thomas W.
- Florence Pipe-Foundry & Machine Company, assignee : *See—*
  - Camerota, Louis A.
- Florence Stove Company, assignee : *See—*
  - Reeves, Herbert M.
- Flory, Leslie E. : *See—*
  - Morton, George A., and Flory.
- Food Machinery Corporation, assignee : *See—*
  - Peterson, Robert E.
- Formhals, William H. : *See—*
  - King, George E., and Formhals.
- Formhals, William H., Forest Hills, Pa., and S. H. Hanville, Jr., Huron, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. "Rectox" motor control system. 2,420,873 ; May 20.
- Foulke, Ted E., Mayfield Village, Ohio, assignor to General Electric Company. Electric discharge device and circuit therefor. 2,420,942 ; May 20.
- Fowler, Herman J., Chicago, Ill. Clock-actuated electric control means. 2,420,874 ; May 20.
- Fox, William M., Havre de Grace, Md. Grenade adapter. 2,420,661 ; May 20.
- Freeman, Harry, Providence, R. I. Lighting equipment. 2,420,943 ; May 20.
- Frentzel, Herman C., Jr., and E. O. Errath, assignors to The Heil Co., Milwaukee, Wis. Heating apparatus. 2,420,875 ; May 20.
- Freud, Ernest, Hartford, Conn. Machine for surface finishing action on materials. 2,420,876 ; May 20.
- Fruendt, Richard J., assignor of one-half to F. P. Smith Wire and Iron Works, Chicago, Ill. Lock. 2,420,743 ; May 20.
- Gabry, Jacob : *See—*
  - Bray, Richard I., Gabry, and Wendell.
- Garric, Jean, assignor to Societe Industrielle De Bonneterie, Troyes, France. Device for the manufacture of stockings. 2,420,821 ; May 20.
- Gaspro, Dominick G. : *See—*
  - Gaspro, Sam F. and D. G.
- Gaspro, Sam F. and D. G., Portland, Oreg. Weed remover. 2,420,944 ; May 20.
- Gasser, Emil R. : *See—*
  - Brill, William E., and Gasser.
- Gaylord, Roland C., Newport News, Va. Combination toolholder and steady arm. 2,420,945 ; May 20.
- Gegner, Paul J. : *See—*
  - Pechukas, Alphonse, and Gegner.
- General Electric Company, assignee : *See—*
  - Brown, George M.
  - Foulke, Ted E.
  - Hurd, Dallas T.
  - Potter, Wentworth M.
  - Roedel, George F.
- General Mills, Inc., assignee : *See—*
  - Coffman, John R., and Lewis.
- General Motors Corporation, assignee : *See—*
  - Brill, William E., and Gasser.
  - Schjolin, Hans O.
- General Time Instruments Corporation, assignee : *See—*
  - Kennedy, Jesse J.
- Geren, Philip, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Broaching machine. 2,420,877 ; May 20.
- Gilbert, Vincent C. : *See—*
  - Heath, Louis T., and Gilbert.
- Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Flying hood release system. 2,420,946 ; May 20.
- Given, Richard A. : *See—*
  - Packie, John W., and Given.
  - Small, James K., and Given.
- Goddin, Avery H. : *See—*
  - Bousquet, Euclid W., and Goddin.
- Goldsborough, Shirley L., Basking Ridge, and H. P. Sleeper, Short Hills, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Loss-of-load relay. 2,420,878 ; May 20.
- Goldsholl, Abraham, New York, N. Y. Garment with adjustable cup sizes. 2,420,774 ; May 20.
- Goodspeed, Everett E., Falmouth, Maine. Holder for charts. 2,420,947 ; May 20.
- Goodwillie, John E. : *See—*
  - Hornbostel, Lloyd, and Goodwillie.
- Gouly, Ruby E., Tacoma, Wash. Bobbie pin holder. 2,420,704 ; May 20.
- Great Western Sugar Company, The, assignee : *See—*
  - Clark, Avery A.
- Green, A. P., Fire Brick Company, assignee : *See—*
  - Charles, Glen W.
- Greenhalgh, James, Burnley, assignor to Lambert Howarth and Sons Limited, Waterfoot, Lancaster, England. Machine for relasting shoes and slippers. 2,420,948 ; May 20.
- Griffith, William B., Stone Harbor, N. J. Thermostatic switch. 2,420,775 ; May 20.
- Gurney, Dayton A. : *See—*
  - Joy, Joseph F., and Gurney.
- Hager, Onslow B., Glenside, and L. H. Bock, Huntingdon Valley, assignors to Röhm & Haas Company, Philadelphia, Pa. Carboxyalkyl cellulose ether fibers and films of good wet strength. 2,420,949 ; May 20.
- Hale, Frank B., Bel Air, Md. Fuse. 2,420,662 ; May 20.
- Hallwood, Harold S., administrator : *See—*
  - Hallwood, Nathan A.
- Hallwood, Nathan A., deceased, Columbus, Ohio ; H. S. Hallwood, administrator. Air filter for carburetors. 2,420,822 ; May 20.
- Hanna, Waldo E., Mount Cory, Ohio. Grading and cutting machine for preparing seed potatoes for planting. 2,420,776 ; May 20.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. High-frequency oscillator of the secondary electron-emission type. 2,420,744 ; May 20.
- Hansen, Klaus L., Milwaukee, Wis. Commutated transformer. 2,420,950 ; May 20.
- Hanson, Herbert E. : *See—*
  - Cohen, Jacob B., and Hanson.
- Hanville, Scott H., Jr. : *See—*
  - Formhals, William H., and Hanville.
- Harman, Frank B., Grand Rapids, Mich. Posture chair. 2,420,745 ; May 20.
- Harrison, Thomas, Colindale, London, and J. L. Brooks, Walford, Wimborne, England. Bookbinding machine. 2,420,705 ; May 20.
- Harshaw Chemical Company, The, assignee : *See—*
  - Kremers, Harry C., and Price.
- Hartford National Bank and Trust Company, assignee : *See—*
  - De Boer, Jan.
  - Douma, Tjiske.
  - Strutt, Maximiliaan J. O., and van der Ziel.
  - Van den Berg, Antonius C., and Kenyon.
- Haven, Dwight E., and C. W. Soderblom, Detroit, Mich. Shroud for machines. 2,420,706 ; May 20.
- Hays, Russell R., Lawrence, Kans. Helicopter. 2,420,823 ; May 20.
- Hazeltine Research, Inc., assignee : *See—*
  - Loughren, Arthur V.
- Heath, Louis T., and V. C. Gilbert, Fort Knox, Ky. Water-cooled ammunition rack. 2,420,663 ; May 20.
- Heidman, William A., Jr. : *See—*
  - Heidman, William A. and W. A., Jr.
- Heidman, William A. and W. A., Jr., Grand Rapids, Mich. Automatic load releasing coupling or clutch for parachutes and the like. 2,420,746 ; May 20.
- Heil Co., The, assignee : *See—*
  - Frentzel, Herman C., Jr., and Errath.

- Hendra, Henry J., Montreal, Quebec, Canada. Trimming machine. 2,420,747 ; May 20.
- Henningfield, Roland F., Racine, Wis. Thermostatic switch for hot-water supply. 2,420,777 ; May 20.
- Hercules Powder Company, assignee : *See—*
  - Anderson, Gilbert R.
  - Borglin, Joseph N.
- Herold, Robert E., assignor to The Weatherhead Company, Cleveland, Ohio. Tube coupling. 2,420,778 ; May 20.
- Herter, Charles H., New York, N. Y. Transparent thermal insulation. 2,420,879 ; May 20.
- Hetherington, Robert, Sharon Hill, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del. Snap switch. 2,420,880 ; May 20.
- Hetherington, Robert, & Son, Inc., assignee : *See—*
  - Hetherington, Robert.
  - Schellman, Joseph H.
- Hinger, Theodore R., Farmington, Mich. Dehumidifier. 2,420,707 ; May 20.
- Hoeber, Barbara D. W., executrix, et al. : *See—*
  - Hoeber, Harold.
- Hoeber, Harold, deceased, South Dartmouth, Mass ; B. O. W. Hoeber and W. T. Read, executors, assignors to Textile Research Co. Loom selvage needle. 2,420,952 ; May 20.
- Holmes, Carl L., Glendale, Calif. Opposed piston engine. 2,420,779 ; May 20.
- Hooker Electrochemical Company, assignee : *See—*
  - Stratton, George B.
- Horeczy, Joseph T. : *See—*
  - Pfennig, Reuben F., and Horeczy.
- Hornbostel, Lloyd, and J. E. Goodwillie, assignors to Beloit Iron Works, Beloit, Wis. Fluid removal device for drying drums. 2,420,824 ; May 20.
- Hoskins, Chester E., Springfield, Mass. Belt loading device for subcaliber ammunition. 2,420,664 ; May 20.
- Howard, George M., Cincinnati, Ohio. Tumbling mill. 2,420,748 ; May 20.
- Howarth, Lambert, and Sons Limited, assignee : *See—*
  - Greenhalgh, James.
- Hunt, Russell A., Jr., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Lubricant. 2,420,953 ; May 20.
- Hurd, Dallas T., Schenectady, N. Y., assignor to General Electric Company. Preparation of alkenyl-substituted chlorosilanes. 2,420,912 ; May 20.
- Hutsell, Clifford S., Seattle, Wash. Beer meter. 2,420,708 ; May 20.
- Hutton, Paul C., Washington, D. C. Mechanical power unit. 2,420,825 ; May 20.
- I-T-E Circuit Breaker Company, assignee : *See—*
  - Schymik, Walter H.
- Ideal Novelty & Toy Co., assignee : *See—*
  - Stelz, Frank F.
- Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of monocyclic olefinic hydrocarbons. 2,420,749 ; May 20.
- Irrgang, Louis J., Jersey City, N. J. Strain relief for electrical conductors. 2,420,826 ; May 20.
- Isaacson, Bernard : *See—*
  - Bichsel, Suzanne, and Isaacson.
- Isham, Robert M., Okmulgee, Okla., assignor to Danciger Oil & Refineries, Inc., Fort Worth, Tex. Electrolytic production of succinic acid from butyrolactone. 2,420,954 ; May 20.
- Ivers-Lee Company, assignee : *See—*
  - Salfisberg, Leroy L.
- Jegge, Emil G. : *See—*
  - Buffington, Malcolm R., and Jegge.
- Jenks, Harold C., Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Regulating system. 2,420,881 ; May 20.
- Johns, Henry S., Cleveland Heights, Ohio. Basket. 2,420,882 ; May 20.
- Johnson, Ava J., Oakland, M. Souders, Jr., Piedmont, and J. E. Marsland, Sausalito, assignors to Shell Development Company, San Francisco, Calif. Production of toluene. 2,420,883 ; May 20.
- Johnson, E. H., assignee : *See—*
  - Cornelius, George W.
- Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,420,665 ; May 20.
- Josefowitz, David, New York, N. Y., assignor to Publicker Industries Inc. Polymerizing conjugated butadienes in the presence of a hexa-aryl ethane and products thereof. 2,420,750 ; May 20.
- Joy, Joseph F., Claremont, N. H., and D. A. Gurney, Cheverly, Md. Hydro-pneumatic recuperator for guns. 2,420,666 ; May 20.
- Joy Manufacturing Company, assignee : *See—*
  - Mavor, John B.
- Kamborian, Jacob S., West Newton, Mass. Pulling-on machine. 2,420,667 ; May 20.
- Keldsen, Knud G., assignee : *See—*
  - Kjeldsen, Axel R.
- Kelley, Gilbert A., assignor to Surface Combustion Corporation, Toledo, Ohio. Air-conditioning apparatus. 2,420,993 ; May 20.
- Kennedy, Jesse J., La Salle, Ill., assignor to General Time Instruments Corporation, New York, N. Y. Electric clock. 2,420,827 ; May 20.
- Kenyon, Harold : *See—*
  - Van den Berg, Antonius C., and Kenyon.
- King, George E., Swissvale, and W. H. Formhals, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Variable voltage motor control system. 2,420,884 ; May 20.
- King, Walter J., Yakima, Wash. Stacking machine. 2,420,828 ; May 20.
- Kjeldsen, Axel R., Kearney, N. J., assignor of one-half to K. G. Keldsen, New York, N. Y. Combination clothes hanger. 2,420,885 ; May 20.
- Klein, Gustav, Melrose Park, Pa. Dual time control device. 2,420,780 ; May 20.
- Klein, Gustav, Atlantic City, N. J., and P. S. Martin, Harrisonburg, Va. Magazine heating stove with gas combustion chamber. 2,420,781 ; May 20.
- Klemgard, Edwin N. : *See—*
  - Bloom, Ralph, Jr., Klemgard, Ronay, and Miller.
- Klie, Frank H., deceased, by L. E. Klie, Paris, Ill., executrix. Hand fan. 2,420,782 ; May 20.
- Klie, Lillian E., executrix : *See—*
  - Klie, Frank H.
- Knight, Thomas F., Rockaway, N. J. Filler fixture having a wear ring and a support ring. 2,420,668 ; May 20.
- Koester, Herman, assignor to The Bristol Company, Waterbury, Conn. Belt hook package. 2,420,783 ; May 20.
- Kopplin, Karl J., St. Louis, Mo. Self-locking mold. 2,420,709 ; May 20.
- Kremers, Harry C., Cleveland Heights, and R. E. Price, Cleveland, assignors to The Harshaw Chemical Company, Elyria, Ohio. Making optical bodies. 2,420,955 ; May 20.
- Kremers, Harry C., Cleveland Heights, and R. E. Price, Cleveland, assignors to The Harshaw Chemical Company, Elyria, Ohio. Optical bodies composed of silver chloride and silver sulfide and making same. 2,420,956 ; May 20.
- Laffoon, Carthrae M., Jr., Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Application of solid lubricant coatings to surfaces. 2,420,886 ; May 20.
- Lakeland, Henry, Frenchwood, Preston, England. Warp let-off motion of looms for weaving. 2,420,957 ; May 20.
- Landauer, Fred, Rockville Centre, N. Y. Electrode structure. 2,420,669 ; May 20.
- Landreth, William L., Tucson, Ariz. Irrigator. 2,420,958 ; May 20.
- Lane, Kingdon, New York, N. Y. Audible timer. 2,420,887 ; May 20.
- Lanese, Donald C., Scarsdale, N. Y. Combined drink mixer and dispenser. 2,420,959 ; May 20.
- Languirand, William, New Bedford, Mass., assignor to Textile Research Co. Shuttle box binder for looms. 2,420,994 ; May 20.
- Lanter, Clarence W., Du Page County, Ill., assignor to Birtman Electric Company. Disintegrator screen. 2,420,670 ; May 20.
- Larkin, Walter, Norristown, assignor to Fidelity Machine Company, Inc., Philadelphia, Pa. Making and finishing stockings. 2,420,960 ; May 20.
- Larsen, Agnew E., Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md. Helicopter with antitorque propeller. 2,420,784 ; May 20.
- Lawe, Thomas : *See—*
  - Sturrock, Murray G., and Lawe.
- Lea Fabrics, Inc., assignee : *See—*
  - Buffington, Malcolm R., and Jegge.
- Lear, Incorporated, assignee : *See—*
  - Geren, Philip.
- Leeds, Winthrop M., Wilkinsburg, assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Oil circuit interrupter. 2,420,888 ; May 20.
- Leeds, Winthrop M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,420,889 ; May 20.
- Leffel, James, & Co., The, assignee : *See—*
  - Biggs, George A.
- Lenzlinger, Werner, Zurich, Switzerland. Phase calculating device. 2,420,751 ; May 20.
- Less, Joseph W., Clinton, Iowa. Collar attachment. 2,420,752 ; May 20.
- Lewis, Harry F. : *See—*
  - Coffman, John R., and Lewis.
- Lifner, Eric J., Newark, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Pilot controlled steam distributing valve for reciprocating expansible chamber motors. 2,420,961 ; May 20.
- Lindquist, John R. : *See—*
  - McKennon, Forrest L., and Lindquist.
- Little, John B., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic recorder. 2,420,671 ; May 20.
- Livingston, Seymour, New York, N. Y. Ejector fork. 2,420,710 ; May 20.
- Loftus, Fred H., Mount Lebanon, Pa. Industrial furnace. 2,420,962 ; May 20.
- Look, Henry J., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Gage for measuring the wall thickness of annular bearing members. 2,420,711 ; May 20.

- Lorraine, David G., La Canyada, assignor of seven and one-half per cent to H. W. Elliott, Los Angeles, Calif. Valve. 2,420,785; May 20.
- Loughren, Arthur V., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave-signal translating system. 2,420,753; May 20.
- Loving, George H.: *See*—
  - Burrows, Lawton A., Loving, Nydegger, and Smith.
- Ludlow, John H.: *See*—
  - Dodds, John M., and Ludlow.
- MacDuff, Stanley I., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid pressure control system. 2,420,890; May 20.
- MacFadden, Wilford C., Philadelphia, Pa., assignor to Cinch Manufacturing Corporation, Chicago, Ill. Terminal panel. 2,420,754; May 20.
- Magnus, Eric S., assignee: *See*—
  - Monrad, Robert T.
- Maillet, Raymond, Paris 16 E, France; vested in the Attorney General of the United States. Geophysical prospecting. 2,420,672; May 20.
- Mallory, Marion, Detroit, Mich. Degasser for internal-combustion engines. 2,420,786; May 20.
- Malo, Edward J., Benton Harbor, Mich. Closing flap for envelopes and the like. 2,420,963; May 20.
- Mample, Adolph Z., Glen Rock, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Coaxial cable and making same. 2,420,712; May 20.
- Marshall, Donald E., Allwood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ignitron, seal, and making. 2,420,829; May 20.
- Marsland, John E.: *See*—
  - Johnson, Ava J., Souders, and Marsland.
- Martin, Glenn L., Company, The, assignee: *See*—
  - Larsen, Agnew E.
  - Miller, Leslie T., Salmon, and Zitza.
- Martin, Perry S.: *See*—
  - Klein, Gustav, and Martin.
- Mavor, John B., Glasgow, Scotland, assignor to Joy Manufacturing Company, Franklin, Pa. Apparatus for mining. 2,420,755; May 20.
- Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,420,830; May 20.
- McCann, Gilbert D., Jr., Pittsburgh, and H. E. Criner, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Analyzer. 2,420,891; May 20.
- McClellan, Cyril E., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency modulation detector. 2,420,892; May 20.
- McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Impulsing circuit. 2,420,713; May 20.
- McCullough, Paul J.: *See*—
  - Steuber, Charles H., and McCullough.
- McFall, Thurlow E., assignor to Michigan Artcraft Company, Sparta, Mich. Extension table. 2,420,787; May 20.
- McGowan, Michael E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric lamp and bulb. 2,420,831; May 20.
- McKennon, Forrest L., New Orleans, La., and J. R. Lindquist, Los Angeles, Calif., assignors to United States of America, as represented by the Secretary of Agriculture. Compounding of rubber. 2,420,788; May 20.
- McNab, John G., Cranford, and C. L. Fleming, Jr., Roselle Park, N. J., assignors to Standard Oil Development Company. Compounded lubricating oil. 2,420,893; May 20.
- Mead Johnson & Company, assignee: *See*—
  - Ellingson, Rudolph C.
- Mead, Lawrence C., Turlock, Calif. Releasable locking means for pivoting-traveling outer jaw wrenches. 2,420,714; May 20.
- Mee, William A., Springfield, Ohio. Collision guard. 2,420,894; May 20.
- Merkur, Irving I., Bronx, N. Y. Reel end alarm. 2,420,832; May 20.
- Merriman, Henry H., assignor to H. D. Boardman, Jackson, Mich., as trustee. Ground clamp. 2,420,895; May 20.
- Meyers, Sidney E., New York, N. Y., assignor to Vulcan Soot Blower Corporation. Reciprocating expansible chamber motor with pilot controlled distributing valve. 2,420,896; May 20.
- Michigan Artcraft Company, assignee: *See*—
  - McFall, Thurlow E.
- Millard, James F., Seattle, Wash. Tube construction. 2,420,715; May 20.
- Miller Engineering Corporation, assignee: *See*—
  - Miller, Raymond J.
- Miller, Leslie T., Stoneleigh, B. T. Salmon, Towson, and C. L. Zitza, assignors to The Glenn L. Martin Company, Baltimore, Md. Exhaust conduit. 2,420,964; May 20.
- Miller, Raymond J., assignor, by mesne assignments, to Miller Engineering Corporation, Detroit, Mich. Making patterns. 2,420,756; May 20.
- Miller, Rudolph W.: *See*—
  - Bloom, Ralph, Jr., Klemgard, Ronay, and Miller.
- Miller, William: *See*—
  - Brewster, Sol, and Miller.
- Milton, Thomas W., assignor to Flex-O-Tube Company, Detroit, Mich. Shielded spark plug connector. 2,420,897; May 20.
- Mine Safety Appliances Company, assignee: *See*—
  - Dauster, John F.
- Miner, Amos B., assignee: *See*—
  - Miner, Amos T.
- Miner, Amos T., Chicago, Ill., assignor to A. B. Miner, Williamsville, N. Y. Foldable shelter tent. 2,420,898; May 20.
- Miner, W. H., Inc., assignee: *See*—
  - Dath, George E.
- Mininberg, Nathan D., New York, N. Y. Vibrating motor-driven exercising machine that causes waist bending. 2,420,965; May 20.
- Minneapolis-Honeywell Regulator Company, assignee: *See*—
  - Gille, Willis H.
- Mobley, Alonzo L., Houston, Tex. Flame damper and muffler. 2,420,789; May 20.
- Mock, Frank C., Montclair, assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Engine fuel control. 2,420,899; May 20.
- Moeller, Morris A., Long Beach, Calif. Stonecutting clamp. 2,420,790; May 20.
- Moise, James E., Baton Rouge, La., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,420,900; May 20.
- Molz, August W., and J. H. Parvin, Wichita, Kans. Grain and roughage cutter and grinder. 2,420,966; May 20.
- Monnot, Edward L., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Instrument holder construction for dental units and the like. 2,420,901; May 20.
- Monrad, Robert T., Little Falls, N. Y., assignor of forty per cent to E. S. Magnus, Philadelphia, Pa. Navigation device. 2,420,673; May 20.
- Monroe, Benjamin C., Tuscola, Ill. Railway roadbed. 2,420,833; May 20.
- Moore, Marlin C., Xenia, and H. Bridgman, Springfield, Ohio. Vertical gyro erection controller. 2,420,674; May 20.
- Moore, Robert C., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Turnstile antenna. 2,420,967; May 20.
- Morris, Rupert C., and H. D. Finch, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of cyclic mono-sulfones. 2,420,834; May 20.
- Morrison, James, Honolulu, Hawaii. Drawing board and straightedge. 2,420,835 May 20.
- Morton, George A., and L. E. Flory, Princeton, N. J., assignors to Radio Corporation of America. Reading aid for the blind. 2,420,716; May 20.
- Morway, Arnold J., Clark Township, Union County, and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Lubricating composition. 2,420,902; May 20.
- Muklerick, John O., Monaca, Pa., assignor to S. G. Taylor Chain Company, Hammond, Ind. Cross chain for antiskid tire chains. 2,420,717; May 20.
- Nash-Kelvinator Corporation, assignee: *See*—
  - Ulrich, Theodore.
- Nathan Manufacturing Company, assignee: *See*—
  - Shepard, Ralph H.
- National Sewing Machine Company, assignee: *See*—
  - Best, Clarence S.
- Nelson, Charles, Jr., Lucas, Kans. Tractor-mounted log-holding power-operater saw. 2,420,836; May 20.
- Nepheline Products Limited, assignee: *See*—
  - Archibald, Frederick R.
- Neumann, George R., St. Clair Shores, E. F. Farrell, Grosse Point Woods, and C. S. Davis, Jr., Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Heat exchange assembly. 2,420,757; May 20.
- Newell, George K., near Pitcairn, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hot journal alarm apparatus. 2,420,968; May 20.
- Newell, George K., near Pitcairn, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hot journal alarm apparatus. 2,420,969; May 20.
- Nies, Abby W., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Diazo compounds of the pyrazolone series. 2,420,791; May 20.
- Nissen, Henry C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Clutch mechanism. 2,420,995; May 20.
- Noble, Roy A., Buffalo, N. Y. Scaffold. 2,420,903; May 20.
- Noll, Henry D., Denville, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Conversion of hydrocarbons. 2,420,904; May 20.
- Nordin, Charles E., Comox, British Columbia, Canada. Log carrier. 2,420,792; May 20.
- Nydegger, Roland R.: *See*—
  - Burrows, Lawton A., Loving, Nydegger, and Smith.
- O'Connor, John C., Dayton, Ohio. Vibratory drilling apparatus. 2,420,793; May 20.

- O'Connor, Thomas R., Baltimore, Md. Fuse plug. 2,420,837; May 20.
- Odelius, Oscar G., Chicago, Ill. Seal construction. 2,420,718; May 20.
- Olsen, Thue C., Woodbridge, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Drill sampling device. 2,420,905; May 20.
- O'Neill, Charles J., Manteno, Ill. Offset wheel construction for trailers. 2,420,794; May 20.
- Osborn, Alden E., Mount Vernon, N. Y. Pipe joint. 2,420,838; May 20.
- Osgood Company, The, assignee: *See*—
  - White, Fred L.
- Ostrom, Charles T., Base Line, Mich. Adjustable skein holder. 2,420,839; May 20.
- Owings, Joseph F., Coulee City, Wash. Antiskid chain. 2,420,758; May 20.
- Packie, John W., Green Village, and R. A. Given, Elizabeth, N. J., assignors to Standard Oil Development Company. Butadiene extraction. 2,420,906; May 20.
- Page Engineering Company, assignee: *See*—
  - Page, John W.
- Page, John W., Chicago, Ill., assignor to Page Engineering Company. Driving shaft and bearing support therefor in walking dragline machine. 2,420,675; May 20.
- Pancake, Herman H., Huntington, W. Va., assignor to American Car and Foundry Company, New York, N. Y. Spring bumper and draft gear. 2,420,907; May 20.
- Park, Paul, Campo, Calif. Camera light protecting sleeve. 2,420,719; May 20.
- Parker, Harry, Kings Heath, Birmingham, and T. C. E. Rowland, Solihull, England. Apparatus for delivering liquids and viscous materials. 2,420,970; May 20.
- Parvin, James H.: *See*—
  - Molz, August W., and Parvin.
- Patchogue-Plymouth Mills Corporation, assignee: *See*—
  - Petroske, John J.
- Pavelka, Joseph: *See*—
  - Steuber, Charles H., and McCullough.
- Pechukas, Alphonse, Akron, and P. J. Gegner, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Preparing coated compositions. 2,420,720; May 20.
- Peltier, Frank D., Horsham, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Multitemperature refrigerator. 2,420,971; May 20.
- Pemco Corporation, assignee: *See*—
  - Athy, Lyman C., and Stufft.
- Pennella, Samuel, East Orange, N. J. Condenser tube packing. 2,420,721; May 20.
- Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
  - Plump, Ralph E.
- Perri, Angelo, Groveland, assignor to Allied Shoe Machinery Corp., Haverhill, Mass. Shoe sole press. 2,420,972; May 20.
- Persson, Per O., Chicago, Ill., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Metallic cartridge belt link. 2,420,908; May 20.
- Petersen, Christian, South Windsor, Conn. Cultivator plow. 2,420,973; May 20.
- Peterson, Frank R.: *See*—
  - Sabin, John, and Peterson.
- Peterson, Ralph G., Long Beach, Calif. Fender pile. 2,420,677; May 20.
- Peterson, Robert E., Danvers, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Submarine signaling apparatus. 2,420,676; May 20.
- Peterson, Robert E., Los Angeles, assignor to Food Machinery Corporation, San Jose, Calif. Method of and apparatus for extracting juice from whole citrus fruit. 2,420,681; May 20.
- Peterson, Stanley V., Rochester, and A. F. Turner, Brighton, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Apparatus for coating surfaces. 2,420,722; May 20.
- Petroske, John J., Methuen, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Seat covering. 2,420,974; May 20.
- Pfennig, Reuben F., Goose Creek, and J. T. Horeczy, Cedar Bayou, Tex., assignors to Standard Oil Development Company. Manufacture of hydrogen chloride. 2,420,909; May 20.
- Pfleumer, Hans: *See*—
  - Cooper, Lester, and Pfleumer.
- Philco Corporation, assignee: *See*—
  - Moore, Robert C.
  - Peltier, Frank D.
- Phillips, Philip H., Farmington, Conn. Carbonating apparatus. 2,420,795; May 20.
- Pilkington Brothers Limited, assignee: *See*—
  - Waldron, Frederic B.
- Pines, Herman: *See*—
  - Ipatieff, Vladimir N., and Pines.
- Pipkin, Wilbur A., Safety Harbor, Fla. Citrus peel oil extraction. 2,420,678; May 20.
- Pipkin, Wilbur A., Safety Harbor, Fla. Method of and apparatus for extracting juice and peel oil from whole citrus fruit. 2,420,679; May 20.
- Pipkin, Wilbur A., Safety Harbor, Fla. Peel oil and juice extraction by fluid pressure. 2,420,680; May 20.
- Piquerez, Emile, St. Cloud, France. Gas purifier and compressor. 2,420,840; May 20.
- Pittsburgh Plate Glass Company, assignee: *See*—
  - Pechukas, Alphonse, and Gegner.
- Plump, Ralph E., Haddonfield, N. J., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Producing a solid pentachloropropane. 2,420,975; May 20.
- Potter, Wentworth M., Lyndhurst, Ohio, assignor to General Electric Company. Illuminated sign. 2,420,976; May 20.
- Powell, Francis F., Kirkland, Wash. Chain wrench. 2,420,682; May 20.
- Price, Harold W., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,420,996; May 20.
- Price, Harold W., assignor to Bendix Aviation Corporation, South Bend, Ind. Switch mechanism. 2,420,997; May 20.
- Price, Robert E.: *See*—
  - Kremers, Harry C., and Price.
- Prosperity Company, Inc., The, assignee: *See*—
  - Davis, Ernest.
- Publicker Industries Inc., assignee: *See*—
  - Josefowitz, David.
- Pye, Walter W., Richmond, Va. Adjustable window shade and curtain bracket. 2,420,977; May 20.
- Radio Corporation of America, assignee: *See*—
  - Artzt, Maurice.
  - Crosby, Murray G.
  - Hansell, Clarence W.
  - Morton, George A., and Flory.
- Raschke, William L., Fort Worth, Tex. Helicopter with laterally disposed lift. 2,420,796; May 20.
- Rasero, Lawrence J., assignor to The Russell Manufacturing Company, Middletown, Conn. Ladder tape. 2,420,978; May 20.
- Ratchford, Harry L., Muncie, Ind. Electric trap. 2,420,723; May 20.
- Raymond, Ray, Sacramento, Calif. Excavation angle. 2,420,797; May 20.
- Read, William T., executor, et al.: *See*—
  - Hoeber, Harold.
- Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Operating knob and escutcheon plate assembly. 2,420,979; May 20.
- Reise, William, Ottawa, Canada. Tongs. 2,420,980; May 20.
- Rice, Richard M., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Depositing films of material. 2,420,724; May 20.
- Richards, Dwight, assignor to The Buda Company, Harvey, Ill. Hydraulic jack. 2,420,910; May 20.
- Richter, Aura A., assignee: *See*—
  - Richter, Herman F.
- Richter, Herman F., Los Angeles, Calif., assignor, by decree of distribution, to A. A. Richter. Rod or pipe coupling. 2,420,683; May 20.
- Riggins, Glen L., Greene, Iowa. Coupling. 2,420,725; May 20.
- Rivers, Thomas D., Portsmouth, Va. Fuel oil burner. 2,420,981; May 20.
- Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of shoes. 2,420,684; May 20.
- Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting machine. 2,420,685; May 20.
- Roedel, George F., Schenectady, N. Y., assignor to General Electric Company. Methyl vinyl polysiloxane-methyl methacrylate copolymers. 2,420,911; May 20.
- Röhm & Haas Company, assignee: *See*—
  - Hager, Onslow B., and Bock.
- Roig, Juan E., Barcelona, Spain. Picker-stick driving mechanism for looms. 2,420,841; May 20.
- Ronay, Bela: *See*—
  - Bloom, Ralph, Jr., Klemgard, Ronay, and Miller.
- Rowand, Will H.: *See*—
  - Coykendall, Leon H., and Rowand.
- Rowland, Thomas C. E.: *See*—
  - Parker, Harry, and Rowland.
- Rubatex Products, Inc., assignee: *See*—
  - Cooper, Lester, and Pfleumer.
- Rudolph Wurlitzer Company, The, assignee: *See*—
  - Crawford, Frederick G., and Stroschein.
- Russell Manufacturing Company, The, assignee: *See*—
  - Rasero, Lawrence J.
- Sabin, John, and F. R. Peterson, Los Angeles, Calif. Photographer's film numbering box. 2,420,726; May 20.
- Saltisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Article-feeding mechanism. 2,420,982; May 20.
- Saltisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Method of and machine for packaging. 2,420,983; May 20.
- Salmon, Benjamin T.: *See*—
  - Miller, Leslie T., Salmon, and Zitza.
- Schellman, Joseph H., Ridley Park, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del. Taper snap switch. 2,420,913; May 20.

Schjolin, Hans O., Birmingham, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Converter construction and control. 2,420,914; May 20.
Schymik, Walter H., Oreland, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Enclosed circuit breaker position indicator. 2,420,842; May 20.
Shaper, Harry B.: *See—*
Shapiro, Harry B.
Shapiro, Harry B., Cleveland, Ohio, now by judicial change of name H. B. Shaper, assignor to Sonotone Corporation, Elmsford, N. Y. Hearing aid amplifier. 2,420,686; May 20.
Shell Development Company, assignee: *See—*
Johnson, Ava J., Souders, and Marsland.
Morris, Rupert C., and Finch.
Shepard, Ralph H., assignor to Nathan Manufacturing Company, New York, N. Y. Hydraulic pump. 2,420,984; May 20.
Shepherd, Judson O., Atlanta, Ga. Apparatus for and process of taking and showing sound motion pictures. 2,420,798; May 20.
Shuey, Robert L., Ellensburg, Wash. Wheel truck. 2,420,843; May 20.
Simpson, Ray, River Forest, Ill. Indicating knob for switches and the like. 2,420,985; May 20.
Singer Manufacturing Company, The, assignee: *See—*
Nissen, Henry C.
Siteman, Lee, Los Angeles, Calif. Shoulder pad for garments. 2,420,799; May 20.
Skog, Henry A.: *See—*
Ewald, Raymond L., and Skog.
Slack, Charles M., Glen Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Short exposure X-ray apparatus. 2,420,844; May 20.
Slack, Charles M., Glen Ridge, and L. F. Ehrke, South Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Short exposure X-ray apparatus. 2,420,845; May 20.
Sleeper, Harvey P.: *See—*
Goldsborough, Shirley L., and Sleeper.
Small, Arthur D., U. S. Army, Washington, D. C. Dehydration of emulsions. 2,420,687; May 20.
Small, James K., Westfield, N. J., and R. A. Given, Lake Charles, La., assignors to Standard Oil Development Company. Butadiene extraction. 2,420,915; May 20.
Smith, Alva T., Milwaukee, Wis. Article for simulating animation. 2,420,986; May 20.
Smith, F. P., Wire and Iron Works, assignee: *See—*
Fruendt, Richard J.
Smith, Gilbert H.: *See—*
Burrows, Lawton A., Loving, Nydegger, and Smith.
Smith, Trafton D., Pontiac, Mich. Shipping block. 2,420,800; May 20.
Societe Industrielle De Bonneterie, assignee: *See—*
Garric, Jean.
Socony-Vacuum Oil Company, Incorporated, assignee: *See—*
Noll, Henry D.
Soderblom, Carl W.: *See—*
Haven, Dwight E., and Soderblom.
Sonotone Corporation, assignee: *See—*
Shapiro, Harry B.
Sorge, Agnes C., Manitowoc, Wis. Protector shield for neckline, shoulders, and hair. 2,420,916; May 20.
Souders, Mott, Jr.: *See—*
Johnson, Ava J., Souders, and Marsland.
Special Equipment Company, assignee: *See—*
Ewald, Raymond L., and Skog.
Standard Oil Company, assignee: *See—*
Hunt, Russell A., Jr.
Standard Oil Development Company, assignee: *See—*
Chambers, Thomas S.
McNab, John G., and Fleming.
Moise, James E.
Morway, Arnold J., and Zimmer.
Packie, John W., and Given.
Pfennig, Reuben F., and Horeczy.
Small, James K., and Given.
Standard Register Company, The, assignee: *See—*
Falter, Urban M.
Steger Products Manufacturing Corporation, assignee: *See—*
Trabucco, Vincent R.
Stelz, Frank F., Sunnyside, Long Island, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Shaping machine. 2,420,759; May 20.
Stenning, Albert E.: *See—*
Williams, Joseph H., and A. E. and R. H. Stenning.
Stenning, Reginald H.: *See—*
Williams, Joseph H., and A. E. and R. H. Stenning.
Steuber, Charles H., and P. J. McCullough, assignors to J. Pavelka, St. Louis, Mo. Quick circuit change for electrically actuated devices. 2,420,727; May 20.
Stratton, George B., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of hexachlorethane. 2,420,801; May 20.
Stroschein, Edgar A.: *See—*
Crawford, Frederick G., and Stroschein.
Strutt, Maximiliaan J. O., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn. Cathode ray tube for generating oscillations. 2,420,846; May 20.
Stufft, Paul C.: *See—*
Athy, Lyman C., and Stufft.
Sturrock, Murray G., and T. Lawe, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada. Production of styrenes and other products. 2,420,688; May 20.
Sturrock, Murray G., and T. Lawe, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada. Producing nuclear substituted dimethyl styrenes from asymmetric dixylyl ethanes. 2,420,689; May 20.
Submarine Signal Company, assignee: *See—*
Peterson, Robert E.
Sullivan, Frances J., Los Angeles, Calif. Gravity projector. 2,420,760; May 20.
Surface Combustion Corporation, assignee: *See—*
Kelley, Gilbert A.
Sutton, Robert W., and A. H. Winkler, assignors to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,420,917; May 20.
Tatham, Willard L., Decatur, Ill. Piston packing ring assembly. 2,420,690; May 20.
Taylor, S. G., Chain Company, assignee: *See—*
Mulderick, John O.
Taylor, Taylor & Hobson Limited, assignee: *See—*
Cooke, Ernest A.
Temple, Robert, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc. Mine cable cutter. 2,420,987; May 20.
Temple Velocity Equipment, Inc., assignee: *See—*
Temple, Robert, Jr.
Textile Research Co., assignee: *See—*
Hoeber, Harold.
Languirand, William.
Tholen, Albert H., Clara City, Minn. Bowling ball cleaner and polisher. 2,420,988; May 20.
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Treating a liquid with a suspension of solids by passage thereof through a separator, regenerating the separated solids for re-use with untreated liquid. 2,420,761; May 20.
Thompson, Orville I., assignor to De Forest's Training, Inc., Chicago, Ill. Selective-speed telegraph code instruction system. 2,420,802; May 20.
Timken Roller Bearing Company, The, assignee: *See—*
Eastburg, Clifford L.
Titanium Alloy Manufacturing Company, The, assignee: *See—*
Wainer, Eugene.
Tobin, William B., Los Angeles, Calif. Movable combination derrick floor and engine base. 2,420,803; May 20.
Torrence, George W., Peoria, Ill. Means for adding values. 2,420,762; May 20.
Trabucco, Vincent R., assignor to Steger Products Manufacturing Corporation, Steger, Ill. Vehicle axle mounting. 2,420,847; May 20.
Trailmobile Company, The, assignee: *See—*
Black, James J.
Trinaistich, John, Trinidad, Colo. Material excavating and loading machine. 2,420,848; May 20.
Turner, Arthur F.: *See—*
Peterson, Stanley V., and Turner.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Spent bobbin receiver for weft replenishing looms. 2,420,918; May 20.
Ulrich, Theodore, Milwaukee, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Seat stabilizer. 2,420,728; May 20.
Undy, Gustav E., Detroit, assignor, by mesne assignments, to Weltronic Company, Oakland County, Mich. Timing control system. 2,420,919; May 20.
Union Oil Company of California, assignee: *See—*
Doumani, Thomas F., and Coe.
United Shoe Machinery Corporation, assignee: *See—*
Ashworth, Fred.
Jorgensen, Bernhardt.
Robinson, Charles A.
Universal Oil Products Company, assignee: *See—*
Ipatieff, Vladimir N., and Pines.
Thomas, Charles L.
Van den Berg, Antonius C., and H. Kenyon, Blackburn, England, assignors to The Hartford National Bank and Trust Company, as trustee. Diamond die drilling machine. 2,420,920; May 20.
Van der Ziel, Aldert: *See—*
Strutt, Maximiliaan J. O., and van der Ziel.
Vang, Alfred, New York, N. Y. Evaporator. 2,420,691; May 20.
Veeder-Root Incorporated, assignee: *See—*
Bliss, Harvey N.
Vulcan Soot Blower Corporation, assignee: *See—*
Meyers, Sidney E.
Wainer, Eugene, assignor to The Titanium Alloy Manufacturing Company, Niagara Falls, N. Y. Ceramic dielectric composition. 2,420,692; May 20.
Waldes, Harry K., Jackson Heights, assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Retaining ring. 2,420,921; May 20.
Waldes Koh-I-Noor, Inc., assignee: *See—*
Waldes, Harry K.
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, Liverpool, England. Method and apparatus for polishing flat glass. 2,420,989; May 20.
Walley, Omar C., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,420,922; May 20.

War, United States of America, as represented by the Secretary of, assignee: *See—*
Persson, Per O.
Warner & Swasey Company, The, assignee: *See—*
Bogart, Fred H.
Weatherhead Company, The, assignee: *See—*
Herold, Robert E.
Weber Dental Manufacturing Company, The, assignee: *See—*
Monnot, Edward L.
Weber, Edward, Winchester, Mass., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Dyeing with indigoid vat dyestuffs. 2,420,729; May 20.
Wells, James D., Floral Park, N. Y., assignor to American Machine & Foundry Company. Hot seal cooling mechanism. 2,420,763; May 20.
Weltronic Company, assignee: *See—*
Undy, Gustav E.
Wendell, Charles B., Jr.: *See—*
Bray, Richard I., Gabry, and Wendell.
Wenzel, Joseph L., Kansas City, Mo. Tire chain. 2,420,804; May 20.
West, Mack A., Paragould, Ark. Hay baler for forming perforated bales. 2,420,923; May 20.
Western Union Telegraph Company, The, assignee: *See—*
Mample, Adolph Z.
Westinghouse Air Brake Company, The, assignee: *See—*
Newell, George K.
Westinghouse Electric Corporation, assignee: *See—*
Derr, Willard A.
Easley, Gilbert J.
Eberhart, Arthur H.
Formhals, William H., and Hanville.
Goldsborough, Shirley L., and Sleeper.
Jenks, Harold C.
King, George E., and Formhals.
Laffoon, Carthrae M., Jr.
Leeds, Winthrop M.
Marshall, Donald E.
McCann, Gilbert D., and Criner.
McClellan, Cyril E.
McGowan, Michael E.
Slack, Charles M.
Walley, Omar C.
Whittaker, Charles C.
Westover, Claude O., Orlando, Fla. Pack stand. 2,420,805; May 20.
White, Fred L., assignor to The Osgood Company, Marion, Ohio. Portable excavator. 2,420,990; May 20.
White, Fred L., assignor to The Osgood Company, Marion, Ohio. Portable excavator. 2,420,991; May 20.
White, Stanley B., Dayton, Ohio. Modulated radio pulse remote control system. 2,420,693; May 20.
Whittaker, Charles C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pneumatic bearing protective system for train pipes and signal lines. 2,420,924; May 20.
Williams, Joseph H., Carshalton, A. E. Stenning, Beckenham, and R. H. Stenning, Thorndene, England. Optical apparatus for determining angles. 2,420,951; May 20.
Wilson, Wayne E., Grant Park, Ill. Tool for removing cartridge core tubes in radiators. 2,420,992; May 20.
Wilson, Wylie G., Elizabeth, assignor to Everlasting Valve Company, Jersey City, N. J. Valve. 2,420,849; May 20.
Winkler, Albert H.: *See—*
Sutton, Robert W., and Winkler.
Winthrop Chemical Company, Inc., assignee: *See—*
Albertson, Noel F., and Archer.
Wirth, Emil O., assignor to Bendix Aviation Corporation, South Bend, Ind. Charge forming device. 2,420,925; May 20.
Woodward, David W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of polymers with acylamides and aldehydes. 2,420,730; May 20.
Worthington Pump and Machinery Corporation, assignee: *See—*
Lifner, Eric J.
Young, Donald P.: *See—*
Drewitt, James G. N., and Young.
Yuza, Rudolph, assignor to A. Dalkin Company, Chicago, Ill. Mixing faucet for dispensing beverages. 2,420,850; May 20.
Zahn, Eric H., Pound Ridge, and R. C. Feagin, assignors to Austinal Laboratories, Inc., New York, N. Y. Making patterns and use thereof. 2,420,851; May 20.
Zimmer, John C.: *See—*
Morway, Arnold J., and Zimmer.
Zitza, Curt L.: *See—*
Miller, Leslie T., Salmon, and Zitza.
Zuck, Daniel R., Los Angeles, Calif. Directional propeller control. 2,420,764; May 20.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Housing for electric switches. R. Popp. Re. 22,882; May 20.
Joint or section of elastic fabric, Bonded. D. E. Morrison and P. F. Ziegler. Re. 22,880; May 20.
Recording the order of passage of moving objects, Photographically. L. Del Riccio. Re. 22,881; May 20.

LIST OF DESIGN INVENTIONS

Ash tray and holder for, smokers' articles, Combined. C. B. Crane. 146,788; May 20.
Bowl or similar article. J. Rubel. 146,810; May 20.
Box or similar article. G. Restifo. 146,808; May 20.
Button or similar article. W. Drell. 146,790–1; May 20.
Cabinet, Refrigerator. D. E. Dailey. 146,789; May 20.
Camera. R. T. Larson. 146,800; May 20.
Carrying and display device, Combination. L. H. Best. 146,784; May 20.
Case, Hand luggage. C. B. Stevens. 146,812; May 20.
Chair and end table, Combined baby. C. S. Johnson. 146,796; May 20.
Closure for a jar or similar article. G. M. Hood. 146,795; May 20.
Coat. J. Freedman. 146,793; May 20.
Coat. J. Walker. 146,818; May 20.
Fabric or similar article, Textile. G. H. Wheary, Jr. 146,819; May 20.
Figure, Articulated animal. F. L. Treuting. 146,816; May 20.
Game board. D. W. Camp and O. B. Loper. 146,786; May 20.
Game board. M. M. Kastner. 146,797; May 20.
Helicopter. A. E. Larsen. 146,798–9; May 20.
Holder, Scarf. P. L. Hartnett. 146,794; May 20.
Jacket. S. Etkin. 146,792; May 20.
Jacket. L. Leventhal. 146,802; May 20.
Keyboard and tape printer for electrical computing apparatus, Combined. G. X. Lens. 146,801; May 20.
Light, Signal. A. T. Newell. 146,807; May 20.
Meat chopper. J. M. Little. 146,803; May 20.
Pen, Fountain. L. Moholy-Nagy. 146,806; May 20.
Pin or similar article. A. Strait. 146,813; May 20.
Rack, Card and poker chip. E. K. Millhauser. 146,805; May 20.
Ring, Finger. L. Baranow. 146,783; May 20.
Shaker or similar article, Condiment. J. B. McKee. 146,804; May 20.
Spotlight, Photographic. M. M. Robinson. 146,809; May 20.
Stroller. G. A. Schaub. 146,811; May 20.
Suit. J. Walker. 146,817; May 20.
Tie clasp, Chain. D. L. Tandy. 146,815; May 20.
Toy high chair. W. P. Zegel. 146,820; May 20.
Toy, Marble-game. J. W. Carter and A. E. Saunders. 146,787; May 20.
Toy, Whirling. R. F. Summers. 146,814; May 20.
Tripod. E. W. Billings, Jr. 146,785; May 20.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid as selective solvent in oxidation of naphthenes, Nitric. T. F. Doumani. 2,420,938; May 20.
Acid from butyrolactone, Electrolytic production of succinic. R. M. Isham. 2,420,954; May 20.
Activators for terpene thiocyanoacylate insecticides. J. N. Borglin. 2,420,809; May 20.
Adding values. G. W. Torrence. 2,420,762; May 20.
Adjustable skein holder. C. T. Ostrom. 2,420,839; May 20.
Air conditioning apparatus. A. H. Eberhart. 2,420,939; May 20.
Air conditioning apparatus. G. A. Kelley. 2,420,993; May 20.
Alarm, Reel end. I. I. Merkur. 2,420,832; May 20.
Alkenyl-substituted chlorosilanes, Preparation of. D. T. Hurd. 2,420,912; May 20.
Alumina from ores, Recovery of. F. R. Archibald. 2,420,852; May 20.
Aluminum phosphate bonded diamond abrasive. O. S. Buckner. 2,420,859; May 20.
Amino-aliphatic hydrazines and making same. J. G. N. Drewitt and D. P. Young. 2,420,702; May 20.
Amplifier, Hearing aid. H. B. Shapiro. 2,420,686; May 20.
Amplifier, Hydraulic torque. H. B. Breedlove. 2,420,649; May 20.
Analyzer. G. D. McCann, Jr., and H. E. Criner. 2,420,891; May 20.
Antenna, Turnstile. R. C. Moore. 2,420,967; May 20.
Antiskid chain. J. F. Owings. 2,420,758; May 20.
Apparatus for coating surfaces. S. V. Peterson and A. F. Turner. 2,420,722; May 20.
Apparatus for delivering liquids and viscous materials. H. Parker and T. C. E. Rowland. 2,420,970; May 20.
Apparatus for determining the water vapor content of aviation breathing oxygen. R. M. Bolton. 2,420,648; May 20.
Apparatus for generating involutes. E. A. Cooke. 2,420,931; May 20.
Apparatus for mining. J. B. Mavor. 2,420,755; May 20.
Article-feeding mechanism. L. L. Salfisberg. 2,420,982; May 20.
Article for simulating animation. A. T. Smith. 2,420,986; May 20.
Artificial piezoelectric elements, Method and apparatus for making. C. Chilowsky. 2,420,652; May 20.
Balancer, Dynamic. R. B. Annis. 2,420,765; May 20.
Baler for forming perforated bales, Hay. M. A. West. 2,420,923; May 20.
Basket. H. S. Johns. 2,420,882; May 20.
Bearing: *See*—
  Roller bearing.
Beer meter. C. S. Hutsell. 2,420,708; May 20.
Belt hook package. H. Koester. 2,420,783; May 20.
Belt link, Metallic cartridge. P. O. Persson. 2,420,908; May 20.
Binder for looms, Shuttle box. W. Languirand. 2,420,994; May 20.
Block: *See*—
  Shipping block.
Board and straightedge, Drawing. J. Morrison. 2,420,835; May 20.
Bobbie pin holder. R. E. Gonld. 2420,704; May 20.
Bobbin receiver for weft replenishing looms, Spent. R. G. Turner. 2,420,918; May 20.
Bookbinding machine. T. Harrison and J. L. Brooks. 2,420,705; May 20.
Box: *See*—
  Mail box.
  Photographer's film numbering box.
  Plug and switch box.
Box with adjustable bottom, Display. I. Dorfman. 2,420,773; May 20.
Broaching machine. P. Geren. 2,420,877; May 20.
Buffer. G. E. Dath. 2,420,701; May 20.
Bumper and draft gear, Spring. H. H. Pancake. 2,420,907; May 20.
Burner: *See*—
  Fuel oil burner.
Butadiene extraction. J. W. Packie and R. A. Given. 2,420,906; May 20.
Butadiene extraction. J. K. Small and R. A. Given. 2,420,915; May 20.
Butadienes in the presence of a hexa-aryl ethane and products thereof, Polymerizing conjugated. D. Josefowitz. 2,420,750; May 20.
Cable and making same, Coaxial. A. Z. Mample. 2,420,712; May 20.
Calculating device, Phase. W. Lenzlinger. 2,420,751; May 20.
Camera light protecting sleeve. P. Park. 2,420,719; May 20.
Can: *See*—
  Paper powder can.
Carbon black, Manufacture of high volatile. R. I. Bray, J. Gabry, and C. B. Wendell. 2,420,810; May 20.
Carbonating apparatus. P. H. Phillips. 2,420,795; May 20.
Carboxyalkyl cellulose ether fibers and films of good wet strength. O. B. Hager and L. H. Bock. 2,420,949; May 20.
Carrier: *See*—
  Log carrier.
  Tire carrier.
Carburetor. R. W. Sutton and A. H. Winkler. 2,420,917; May 20.
Ceramic dielectric composition. E. Wainer. 2,420,692; May 20.
Chain: *See*—
  Antiskid chain.
  Tire chain.
Chain for antiskid tire chains, Cross. J. O. Mulderick. 2,420,717; May 20.
Chain wrench. F. F. Powell. 2,420,682; May 20.
Chair: *See*—
  Posture chair.
Chair and tie for reenforcing rods, High. B. F. Burner. 2,420,860; May 20.
Charge forming device. E. O. Wirth. 2,420,925; May 20.
Chevron packing ring. M. R. Buffington and E. G. Jegge. 2,420,929; May 20.
Circuit: *See*—
  Control system and telemetering circuit.
  Diversity combined circuit.
  Impulsing circuit.
Circuit breaker. G. J. Easley. 2,420,872; May 20.
Circuit change for electrically actuated devices, Quick. C. H. Steuber and P. J. McCullough. 2,420,727; May 20.
Circuit interrupter. W. M. Leeds. 2,420,889; May 20.
Circuit interrupter, Oil. W. M. Leeds. 2,420,888; May 20.
Clamp: *See*—
  Ground clamp.
  Stonecutting clamp.
Cleaner and polisher, Bowling ball. A. H. Tholen. 2,420,988; May 20.
Clock, Electric. J. J. Kennedy. 2,420,827; May 20.
Closure for nonrefillable containers. J. S. del Llano. 2,420,870; May 20.
Clutch control mechanism. H. W. Price. 2,420,996; May 20.
Clutch controlling device. H. Barras. 2,420,767; May 20.
Clutch mechanism. H. G. Nissen. 2,420,995; May 20.
Coated compositions, Preparing. A. Pechukas and P. J. Gegner. 2,420,720; May 20.
Coiler, Flying. F. E. Davis. 2,420,936; May 20.
Collar attachment. J. W. Less. 2,420,752; May 20.
Combination clothes hanger. A. R. Kjeldsen. 2,420,885; May 20.
Combination garment hanger. H. Erran. 2,420,742; May 20.
Conduit, Exhaust. L. T. Miller, B. T. Salmon, and C. L. Zitza. 2,420,964; May 20.
Connecter: *See*—
  Shielded spark plus connecter.
Connector: *See*—
  Shielded spark plug connector.
Control apparatus for electric motors, Remote. A. P. Davis and G. Agins. 2,420,817; May 20.
Control device, Dual time. G. Klein. 2,420,780; May 20.
Control system. O. C. Walley. 2,420,922; May 20.
Control system and telemetering circuit. W. A. Derr. 2,420,871; May 20.
Control system, Electric horn. J. M. Aufiero. 2,420,807; May 20.
Control system for airplanes. G. W. Cornelius. 2,420,932; May 20.
Control system, Position. A. P. Davis. 2,420,816; May 20.
Control system, Timing. G. E. Undy. 2,420,919; May 20.
Converter construction and control. H. O. Schjolin. 2,420,914; May 20.
Coupling: *See*—
  Rod or pipe coupling.
  Tube coupling.
Coupling. D. H. Brownell. 2,420,858; May 20.
Coupling. G. L. Riggins. 2,420,725; May 20.
Coupling for suction cleaners. G. R. Coss. 2,420,866; May 20.
Coupling or clutch for parachutes and the like, Automatic load releasing. W. A. Heidman and W. A. Heidman, Jr. 2,420,746; May 20.

Covering, Seat. J. J. Petroske. 2,420,974 ; May 20.
Crib, Demountable pallet. J. J. Acteson. 2,420,640 ; May 20.
Cutter : *See—*
  Mine cable cutter.
Cutter and grinder, Grain and roughage. A. W. Molz and J. H. Parvin. 2,420,966 ; May 20.
Cyclic mono-sulfones, Production of. R. C. Morris and H. D. Finch. 2,420,834 ; May 20.
Damper and muffler, Flame. A. L. Mobley. 2,420,789 ; May 20.
Degasser for internal-combustion engines. M. Mallory. 2,420,786 ; May 20.
Dehumidifier. T. R. Hinger. 2,420,707 ; May 20.
Detector, Frequency modulation. C. E. McClellan. 2,420,892 ; May 20.
Device for handling flanged objects. H. Eiriksson. 2,420,658 ; May 20.
Device for the manufacture of stockings. J. Garric. 2,420,821 ; May 20.
Dialkoxyaryl trichloromethyl methane compounds as insecticides. E. W. Bousquet and A. H. Goddin. 2,240,928 ; May 20.
Diazo compounds of the pyrazolone series. A. W. Nies. 2,420,791 ; May 20.
Discharge device and circuit therefor, Electric. T. E. Foulke. 2,420,942 ; May 20.
Disintegrator screen. C. W. Lanter. 2,420,670 ; May 20.
Dispenser : *See—*
  Toothpick dispenser.
Diversity combining circuit. M. G. Crosby. 2,420,868 ; May 20.
Di-histidine, and intermediates therefor, Preparing. N. F. Albertson and S. Archer. 2,420,641 ; May 20.
Drier : *See—*
  Portable hair drier.
Drill sampling device. T. C. Olsen. 2,420,905 ; May 20.
Drilling apparatus, Vibratory. J. C. O'Connor. 2,420,793 ; May 20.
Drilling machine, Diamond die. A. C. van den Berg and H. Kenyon. 2,420,920 ; May 20.
Drive and control system, Ship. W. E. Brill and E. R. Gasser. 2,420,856 ; May 20.
Driving mechanism for looms, Picker-stick. J. E. Roig. 2,420,841 ; May 20.
Dryer : *See—*
  Portable hair dryer.
Drying unit using steam jets. W. C. Dorsch. 2,420,739 ; May 20.
Dyeing with indigoid vat dyestuffs. E. Weber. 2,420,729 ; May 20.
Electric control means, Clock-actuated. H. J. Fowler. 2,420,874 ; May 20.
Electric switch. D. D. Beveridge, Jr. 2,420,768 ; May 20.
Electric trap. H. L. Ratchford. 2,420,723 ; May 20.
Electrode structure. F. Landauer. 2,420,669 ; May 20.
Emulsions, Dehydration of. A. D. Small. 2,420,687 ; May 20.
Enclosed circuit breaker position indicator. W. H. Schymik. 2,420,842 ; May 20.
Engine : *See—*
  Opposed piston engine.
Esters and preparing the same, Air drying mixed. R. Barthel. 2,420,694 ; May 20.
Evaporating set. G. A. D'Aquin. 2,420,935 ; May 20.
Evaporator. A. Vang. 2,420,691 ; May 20.
Excavating and loading machine, Material. J. Trinaistich. 2,420,848 ; May 20.
Excavation angle. R. Raymond. 2,420,797 ; May 20.
Excavator, Portable. F. L. White. 2,420,990–1 ; May 20.
Extension table. T. E. McFall. 2,420,787 ; May 20.
Facsimile apparatus. M. Artzt. 2,420,731 ; May 20.
Fan, Hand. F. H. Klie. 2,420,782 ; May 20.
Fastener receptacle. G. Cannova. 2,420,733 ; May 20.
Fastening inserting machine. C. A. Robinson. 2,420,685 ; May 20.
Faucet for dispensing beverages, Mixing. R. Yuza. 2,420,850 ; May 20.
Fender pile. R. G. Peterson. 2,420,677 ; May 20.
Films of material, Depositing. R. M. Rice. 2,420,724 ; May 20.
Filter for carburetors, Air. N. A. Hallwood. 2,420,822 ; May 20.
Fixture having a wear ring and a support ring, Filler. T. F. Knight. 2,420,668 ; May 20.
Flameproofing of fabrics and composition therefor. L. C. Athy and P. C. Stufft. 2,420,644 ; May 20.
Flap for envelopes and the like, Closing. E. J. Malo. 2,420,963 ; May 20.
Flat glass, Method and apparatus for polishing. F. B. Waldron. 2,420,989 ; May 20.
Floor and engine base, Movable combination derrick. W. B. Tobin. 2,420,803 ; May 20.
Fluid pressure control system. S. I. MacDuff. 2,420,890 ; May 20.
Fork, Ejector. S. Livingston. 2,420,710 ; May 20.
Frequency-doubling device for high-frequency oscillations. T. Douma. 2,420,740 ; May 20.
Fruit, Processing. R. L. Ewald and H. A. Skog. 2,420,659 ; May 20.
Fuel control, Engine. F. C. Mock. 2,420,899 ; May 20.
Fuel oil burner. T. D. Rivers. 2,420,981 ; May 20.

Furnace : *See—*
  Industrial furnace.
Fuse. F. B. Hale. 2,420,662 ; May 20.
Fuse plug. T. R. O'Connor. 2,420,837 ; May 20.
Gage for measuring the wall thickness of annular bearing members. H. J. Look. 2,420,711 ; May 20.
Garment with adjustable cup sizes. A. Goldsholl. 2,420,774 ; May 20.
Generator : *See—*
  Vapor generator.
Geophysical prospecting. R. Maillet. 2,420,672 ; May 20.
Glass-lifting or carrying device. S. Brewster and W. Miller. 2,420,811 ; May 20.
Glassware, Manufacture of. E. Danner. 2,420,934 ; May 20.
Grenade adapter. W. M. Fox. 2,420,661 ; May 20.
Ground clamp. H. H. Merriman. 2,420,895 ; May 20.
Guard, Collision. W. A. Mee. 2,420,894 ; May 20.
Gyro erection controller, Vertical. M. C. Moore and H. Bridgman. 2,420,674 ; May 20.
Hanger : *See—*
  Combination clothes hange   Combination garment hang
Headgear, Protective. J. F. Dauster. 2,420,937 ; May 20.
Heat exchange assembly. G. R. Neumann, E. F. Farrell, and C. S. Davis, Jr. 2,420,757 ; May 20.
Heat exchanger, Fluid circulating. L. H. Coykendall and W. H. Rowand. 2,420,655 ; May 20.
Heating apparatus. H. C. Frentzel, Jr., and E. O. Errath. 2,420,875 ; May 20.
Heel insert and heel, Shoe. N. Chiodo. 2,420,770 ; May 20.
Helicopter. R. R. Hays. 2,420,823 ; May 20.
Helicopter with antitorque propeller. A. E. Larsen. 2,420,784 ; May 20.
Helicopter with laterally disposed lift rotors. W. L. Raschke. 2,420,796 ; May 20.
Hexachlorethane, Production of. G. B. Stratton. 2,420,801 ; May 20.
Holder : *See—*
  Adjustable skein holder.   Bobbie pin holder.
Holder and finger guard, Nail and tack. I. D. Davis. 2,420,869 ; May 20.
Holder and steady arm, Combination tool. R. C. Gaylord. 2,420,945 ; May 20.
Holder for charts. E. E. Goodspeed. 2,420,947 ; May 20.
Hot journal alarm apparatus. G. K. Newell. 2,420,968–9 ; May 20.
Hydraulic jack. D. Richards. 2,420,910 ; May 20.
Hydraulic pump. R. H. Shepard. 2,420,984 ; May 20.
Hydrocarbon fluids, Treating. J. E. Moise. 2,420,900 ; May 20.
Hydrocarbons, Conversion of. H. D. Noll. 2,420,904 ; May 20.
Hydrocarbons, Treatment of monocyclic olefinic. V. N. Ipatieff and H. Pines. 2,420,749 ; May 20.
Hydrogen chloride, Manufacture of. R. F. Pfennig and J. T. Horeczy. 2,420,909 ; May 20.
Ignition device. L. A. Burrows, G. H. Loving, R. R. Nydegger, and G. H. Smith. 2,420,651 ; May 20.
Illuminated sign. W. M. Potter. 2,420,976 ; May 20.
Implement, Fastening-applying. A. H. Maynard. 2,420,830 ; May 20.
Impulsing circuit. H. J. McCreary. 2,420,713 ; May 20.
Indicator : *See—*
  Enclosed circuit breaker
    position indicator.
Industrial furnace. F. H. Loftus. 2,420,962 ; May 20.
Instrument holder construction for dental units and the like. E. L. Monnot. 2,420,901 ; May 20.
Insulating fire brick, Dry press. G. W. Charles. 2,420,863 ; May 20.
Irrigator. W. L. Landreth. 2,420,958 ; May 20.
Jack : *See—*
  Hydraulic jack.
Joint : *See—*
  Pipe joint.
Juice from whole citrus fruit, Method of and apparatus for extracting. R. E. Peterson. 2,420,681 ; May 20.
Kiln charging means and method. A. A. Clark. 2,420,653 ; May 20.
Knife sharpening apparatus. E. W. Clark. 2,420,814 ; May 20.
Knitting machine and method. H. E. and C. Crawford. 2,420,771 ; May 20.
Knob and escutcheon plate assembly, Operating. H. M. Reeves. 2,420,979 ; May 20.
Knob for switches and the like, Indicating. R. Simpson. 2,420,985 ; May 20.
Lamp and bulb, Electric. M. E. McGowan. 2,420,831 ; May 20.
Let-off motion of looms for weaving, Warp. H. Lakeland. 2,420,957 ; May 20.
Lighting equipment. H. Freeman. 2,420,943 ; May 20.
Liquid with a suspension of solids by passage thereof through a separator, regenerating the separated solids for re-use with untreated liquid, Treating a. C. L. Thomas. 2,420,761 ; May 20.
Loading device for subcaliber ammunition, Belt. C. E. Hoskins. 2,420,664 ; May 20.
Locator, Microarea precision. J. B. Cohen and H. E. Hanson. 2,420,654 ; May 20.
Lock. R. J. Fruendt. 2,420,743 ; May 20.

Locking means for pivoting-traveling outer jaw wrenches, Releasable. L. C. Mead. 2,420,714 ; May 20.
Log carrier. C. E. Nordin. 2,420,792 ; May 20.
Loss-of-load relaying. S. L. Goldsborough and H. P. Sleeper. 2,420,878 ; May 20.
Lubricant. R. A. Hunt, Jr. 2,420,953 ; May 20.
Lubricant coatings to surfaces, Application of. C. M. Laffoon, Jr. 2,420,886 ; May 20.
Lubricating composition. A. J. Morway and J. C. Zimmer. 2,420,902 ; May 20.
Machine for opening hinged closure members on containers, Treating. A. E. Almgren. 2,420,642 ; May 20.
Machine for preparing seed potatoes for planting, Grading and cutting. W. E. Hanna. 2,420,776 ; May 20.
Machine for relasting shoes and slippers. J. Greenhalgh. 2,420,948 ; May 20.
Machine for surface finishing action on materials. E. Freud. 2,420,876 ; May 20.
Machine for use in the manufacture of shoes. C. A. Robinson. 2,420,684 ; May 20.
Machine that causes waist bending, Vibrating motor-driven exercising. N. D. Mininberg. 2,420,965 ; May 20.
Mail box. I. Cox. 2,420,699 ; May 20.
Manifolding assembly. U. M. Falter. 2,420,660 ; May 20.
Measuring device, Efficiency. C. J. Crane. 2,420,656 ; May 20.
Mechanical power unit. P. C. Hutton. 2,420,825 ; May 20.
Metal articles, Detecting flaws in. R. Bloom, Jr., E. N. Klemgard, B. Ronay, and R. W. Miller. 2,420,646 ; May 20.
Meter : *See—*
  Beer meter.
Methyl vinyl polysiloxane-methyl methacrylate copolymers. G. F. Roedel. 2,420,911 ; May 20.
Microphone, Granulated carbon. J. de Boer. 2,420,737 ; May 20.
Mill : *See—*
  Tumbling mill.
Mine cable cutter. R. Temple, Jr. 2,420,987 ; May 20.
Mixer and dispenser, Combined drink. D. C. Lanese. 1,420,959 ; May 20.
Mold : *See—*
  Section mold.   Self-locking mold.
Motor control, Chuck electric. F. H. Bogart. 2,420,855 ; May 20.
Motor control system, Variable voltage. G. E. King and W. H. Formhals. 2,420,884 ; May 20.
Motor with pilot controlled distributing valve, Reciprocating expansible. S. E. Meyers. 2,420,896 ; May 20.
Mould : *See—*
  Section mould.   Self-locking mould.
Mounting : *See—*
  Vehicle axle mounting.
Navigation device. R. T. Monrad. 2,420,673 ; May 20
Needle, Loom selvage. H. Hoeber. 2,420,952 ; May 20.
Nuclear substituted dimethyl styrenes from asymmetric dixylyl ethanes, Producing. M. G. Sturrock and T. Lawe. 2,420,689 ; May 20.
Nut driver. E. E. Eriksson. 2,420,741 ; May 20.
Oil and juice extraction by fluid pressure, Peel. W. A. Pipkin. 2,420,680 ; May 20.
Oil, Compounded lubricating. J. G. McNab and C. L. Fleming, Jr. 2,420,893 ; May 20.
Oil extraction, Citrus peel. W. A. Pipkin. 2,420,678 ; May 20.
Oil from whole citrus fruit, Method of and apparatus for extracting. W. A. Pipkin. 2,420,679 ; May 20.
Opposed piston engine. C. L. Holmes. 2,420,779 ; May 20.
Optical apparatus for determining angles. J. H. Williams, and A. E. and R. H. Stenning. 2,420,951 ; May 20.
Optical bodies composed of silver chloride and silver sulfide and making same. H. C. Kremers and R. E. Price. 2,420,956 ; May 20.
Optical bodies, Making. H. C. Kremers and R. E. Price. 2,420,955 ; May 20.
Oscillator of the secondary electron-emission type, High-frequency. C. W. Hansell. 2,420,744 ; May 20.
Oscillator with nonlinear grid leak resistor, Electric discharge device. G. M. Brown. 2,420,857 ; May 20.
Pack stand. C. O. Westover. 2,420,805 ; May 20.
Packaging, Method of and machine for. L. L. Salfisberg. 2,420,983 ; May 20.
Pad for garments, Shoulder. L. Siteman. 2,420,799 ; May 20.
Panel, Terminal. W. C. MacFadden. 2,420,754 ; May 20.
Paper powder can. H. K. Dickerman. 2,420,738 ; May 20.
Patterns and use thereof, Making. E. H. Zahn and R. C. Feagin. 2,420,851 ; May 20.
Patterns, Making. R. J. Miller. 2,420,756 ; May 20.
Pentachloropropane, Producing a solid. L. E. Plump. 2,420,975 ; May 20.
Photographer's film numbering box. J. Sabin and F. R. Peterson. 2,420,726 ; May 20.
Piezoelectric plastic material and making same. C. Chilowsky. 2,420,864 ; May 20.
Pipe attachment, Exhaust. W. C. Curphy. 2,420,700 ; May 20.
Pipe joint. A. E. Osborn. 2,420,838 ; May 20.

Piston packing ring assembly. W. L. Tatham. 2,420,690 ; May 20.
Plow, Cultivator. C. Petersen. 2,420,973 ; May 20.
Plug : *See—*
  Fuse plug.
Plug and switch box. D. Conlan. 2,420,865 ; May 20.
Polymers with acylamides and aldehydes. D. W. Woodward. 2,420,730 ; May 20.
Polypentaerythritol esters of rosin acids. G. R. Anderson. 2,420,926 ; May 20.
Portable hair drier. S. Bichsel and B. Isaacson. 2,420,732 ; May 20.
Posture chair. F. B. Harman. 2,420,745 ; May 20.
Press : *See—*
  Shoe sole press.   Sleeve press.
Press and loading means therefor, Multiplaten. L. A. Camerota. 2,420,813 ; May 20.
Projector, Gravity. F. J. Sullivan. 2,420,760 ; May 20.
Propeller control, Directional. D. R. Zuck. 2,420,764 ; May 20.
Protective system for train pipes and signal lines, Pneumatic bearing. C. C. Whittaker. 2,420,924 ; May 20.
Protein with acids and furfuryl alcohol and product resulting therefrom, Treatment of. J. R. Coffman and H. F. Lewis. 2,420,736 ; May 20.
Protein with acids and product resulting therefrom, Treatment of. J. R. Coffman and H. F. Lewis. 2,420,735 ; May 20.
Pulling-on machine. J. S. Kamborian. 2,420,667 ; May 20.
Pump : *See—*
  Hydraulic pump.
Pump. C. E. Anderson. 2,420,806 ; May 20.
Purifier and compressor, Gas. E. Piquerez. 2,420,840 ; May 20.
Rack : *See—*
  Water-cooled ammunition
    rack.
Reading aid for the blind. G. A. Morton and L. E. Flory. 2,420,716 ; May 20.
Receptacle : *See—*
  Fastener receptacle.
Recorder, Magnetic. J. B. Little. 2,420,671 ; May 20.
"Rectox" motor control system. W. H. Formhals and S. H. Hanville, Jr. 2,420,873 ; May 20.
Recuperator for guns, Hydro-pneumatic. J. F. Joy and D. A. Gurney. 2,420,666 ; May 20.
Refrigerator, Multitemperature. F. D. Peltier. 2,420,971 ; May 20.
Registering mechanism. H. N. Bliss. 2,420,808 ; May 20.
Regulating system. H. C. Jenks. 2,420,881 ; May 20.
Release system, Flying hood. W. H. Gille. 2,420,946 ; May 20.
Remote control, Modulated radio pulse. S. B. White. 2,420,693 ; May 20.
Removable device for drying drums, Fluid. L. Hornbostel and J. E. Goodwillie. 2,420,824 ; May 20.
Retaining ring. H. K. Waides. 2,420,921 ; May 20.
Ring : *See—*
  Chevron packing ring.   Retaining ring.
Roadbed, Railway. B. C. Monroe. 2,420,833 ; May 20.
Rod or pipe coupling. H. F. Richter. 2,420,683 ; May 20.
Roller bearing. C. L. Eastburg. 2,420,820 ; May 20.
Rubber, Compounding of. F. L. McKennon and J. R. Lindquist. 2,420,788 ; May 20.
Rubber material, Producing expanded. L. Cooper and H. Pfleumer. 2,420,815 ; May 20.
Saw, Tractor-mounted, log-holding, power-operated. C. Nelson, Jr. 2,420,836 ; May 20.
Scaffold. R. A. Noble. 2,420,903 ; May 20.
Screen : *See—*
  Disintegrator screen.
Seal, and making, Ignitron. D. E. Marshall. 2,420,829 ; May 20.
Seal construction. O. G. Odelius. 2,420,718 ; May 20.
Seal cooling mechanism, Hot. J. D. Wells. 2,420,763 ; May 20.
Seat stabilizer. T. Ulrich. 2,420,728 ; May 20.
Section mold. H. L. Baker. 2,420,766 ; May 20.
Self-locking mold. K. J. Kopplin. 2,420,709 ; May 20.
Sewing machine. F. Ashworth. 2,420,643 ; May 20.
Sewing machine. C. S. Best. 2,420,695–7 ; May 20.
Sewing machine support. C. S. Best. 2,420,698 ; May 20.
Shaft and bearing support therefor in walking dragline machine, Driving. J. W. Page. 2,420,675 ; May 20.
Shaping machine. F. F. Stelz. 2,420,759 ; May 20.
Shears, Self-sharpening. R. F. Burch, Sr. 2,420,650 ; May 20.
Shield for neckline, shoulders and hair. A. C. Sorge. 2,420,916 ; May 20.
Shielded spark plug connector. T. W. Milton. 2,420,897 ; May 20.
Shipping block. T. D. Smith. 2,420,800 ; May 20.
Shoe machine. B. Jorgensen. 2,420,665 ; May 20.
Shoe sole press. A. Perri. 2,420,972 ; May 20.
Shroud for machines. D. E. Haven and C. W. Soderblom. 2,420,706 ; May 20.
Shuttle, Tatting. G. A. Carlson. 2,420,861 ; May 20.
Sickle grinder. E. C. Beeler. 2,420,645 ; May 20.
Sign : *See—*
  Illuminated sign.
Signal and radio aerial, Combination. T. L. Dalton. 2,420,772 ; May 20.

Signaling apparatus, Submarine. R. E. Peterson. 2,420,676; May 20.
Skirt, Maternity. K. H. Calvin. 2,420,769; May 20.
Sleeve press. E. Davis. 2,420,818; May 20.
Slicing machine, Reciprocating blade type. A. G. Bush. 2,420,930; May 20.
Snap switch. R. Hetherington. 2,420,880; May 20.
Soap novelty, Toilet. C. H. Churchill. 2,420,734; May 20.
Solids of an oil separating tank, Screening and conveying. R. T. Anderson. 2,420,927; May 20.
Sound motion pictures, Apparatus for and process of taking and showing. J. O'D. Shepherd. 2,420,798; May 20.
Stacking machine. W. J. King. 2,420,828; May 20.
Stand: *See*—
  Pack stand.
Still, Portable sea water. J. De Stefano. 2,420,819; May 20.
Stockings, Making and finishing. W. Larkin. 2,420,960; May 20.
Stonecutting clamp. M. A. Moeller. 2,420,790; May 20.
Stove with gas combustion chamber, Magazine heating. G. Klein and P. S. Martin. 2,420,781; May 20.
Strain relief for electrical conductors. L. J. Irrgang. 2,420,826; May 20.
Styrenes and other products, Production of. M. G. Sturrock and T. Lawe. 2,420,688; May 20.
Support: *See*—
  Sewing machine support.
Switch: *See*—
  Electric switch.
  Snap switch.
  Taper snap switch.
  Thermostatic switch.
Switch for hot-water supply, Thermostatic. R. F. Henningfield. 2,420,777; May 20.
Switch mechanism. H. W. Price. 2,420,997; May 20.
Table: *See*—
  Extension table.
Table and screen of the drag-conveyer type, Combined picking. M. H. Fies. 2,420,941; May 20.
Tape, Ladder. L. J. Rasero. 2,420,978; May 20.
Taper snap switch. J. H. Schellman. 2,420,913; May 20.
Telegraph code instruction, Selective-speed. O. I. Thompson. 2,420,802; May 20.
Tent, Foldable shelter. A. T. Miner. 2,420,898; May 20.
Thermal insulation, Transparent. C. H. Herter. 2,420,879; May 20.
Thermostatic switch. W. B. Griffith. 2,420,775; May 20.
Timer, Audible. K. Lane. 2,420,887; May 20.
Tire carrier. J. J. Black. 2,420,854; May 20.
Tire chain. J. L. Wenzel. 2,420,804; May 20.
Toluene, Production of. A. J. Johnson, M. Souders, Jr., and J. E. Marsland. 2,420,883; May 20.
Tongs. W. Reise. 2,420,980; May 20.
Tool for removing cartridge core tubes in radiators. W. E. Wilson. 2,420,992; May 20.
Toothpick dispenser. F. A. Brunner. 2,420,812; May 20.
Transfer apparatus. L. E. Crosby. 2,420,867; May 20.
Transformer, Commutated. K. L. Hansen. 2,420,950; May 20.
Trap: *See*—
  Electric trap.
Trimming machine. H. J. Hendra. 2,420,747; May 20.
Truck, Wheel. R. L. Shuey. 2,420,843; May 20.
Tube construction. J. F. Millward. 2,420,715; May 20.
Tube coupling. R. E. Herold. 2,420,778; May 20.
Tube for generating oscillations, Cathode-ray. M. J. O. Strutt and A. van Der Ziel. 2,420,846; May 20.
Tube packing, Condenser. S. Pennella. 2,420,721; May 20.
Tumbling mill. G. M. Howard. 2,420,748; May 20.
Tuner. J. M. Dodds and J. H. Ludlow. 2,420,657; May 20.
Turbine, Hydraulic. G. A. Biggs. 2,420,853; May 20.
2-Sulfanilamidopyrazine. R. C. Ellingson. 2,420,703; May 20.
Valve. D. C. Lorraine. 2,420,785; May 20.
Valve. W. G. Wilson. 2,420,849; May 20.
Valve for reciprocating expansible chamber motors, Pilot controlled steam distributing. E. J. Lifner. 2,420,961; May 20.
Vapor generator. E. L. Boland. 2,420,647; May 20.
Vehicle axle mounting. V. R. Trabucco. 2,420,847; May 20.
Vessel and rack therefor, Culinary. J. W. Eldridge. 2,420,940; May 20.
Vinyl aromatic compounds with gaseous diolefins or acetylines, Stabilization of. T. S. Chambers. 2,420,862; May 20.
Volume control, Automatic. F. G. Crawford and E. A. Stroschein. 2,420,933; May 20.
Water-cooled ammunition rack. L. T. Heath and V. C. Gilbert. 2,420,663; May 20.
Wave-signal translating system. A. V. Loughren. 2,420,753; May 20.
Weed remover. S. F. and D. G. Gaspro. 2,420,944; May 20.
Wheel construction for trailers, Offset. C. J. O'Neill. 2,420,794; May 20.
Window shade and curtain bracket, Adjustable. W. W. Pye. 2,420,977; May 20.
Wrench: *See*—
  Chain wrench.
X-ray apparatus, Short exposure. C. M. Slack. 2,420,844; May 20.
X-ray apparatus, Short exposure. C. M. Slack and L. F. Ehrke. 2,420,845; May 20.

CLASSIFICATION OF PATENTS

ISSUED MAY 20, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1—	2:	2,420,660
	3:	2,420,830
	20:	2,420,685
	47:	2,420,869
	56:	2,420,783
2—	3:	2,420,937
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318—	30:	2,420,816
	31:	2,420,817
	143:	2,420,884
	154:	2,420,873

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,420,645:	51—258
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2,420,732:	219— 39
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2,420,756:	22—191
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CLASSIFICATION OF DESIGNS

D 3— 4:	Des. 146,792
	Des. 146,793
	Des. 146,802
	Des. 146,817
	Des. 146,818
D14— 3:	Des. 146,784
	Des. 146,811
D15— 1:	Des. 146,796
D17— 2:	Des. 146,790
	Des. 146,791
10:	Des. 146,794
	Des. 146,815
D34— 2:	Des. 146,816
5:	Des. 146,786
D34— 5:	Des. 146,797
	Des. 146,805
15:	Des. 146,787
	Des. 146,814
	Des. 146,820
D44—15:	Des. 146,810
22:	Des. 146,804
D45—10:	Des. 146,783
19:	Des. 146,813
D55— 1:	Des. 146,803
D57— 1:	Des. 146,785
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D61— 1:	Des. 146,800
D61— 1:	Des. 146,809
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D72— 1:	Des. 146,807
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D85— 2:	Des. 146,788
D87— 5:	Des. 146,812
D92— 1:	Des. 146,819

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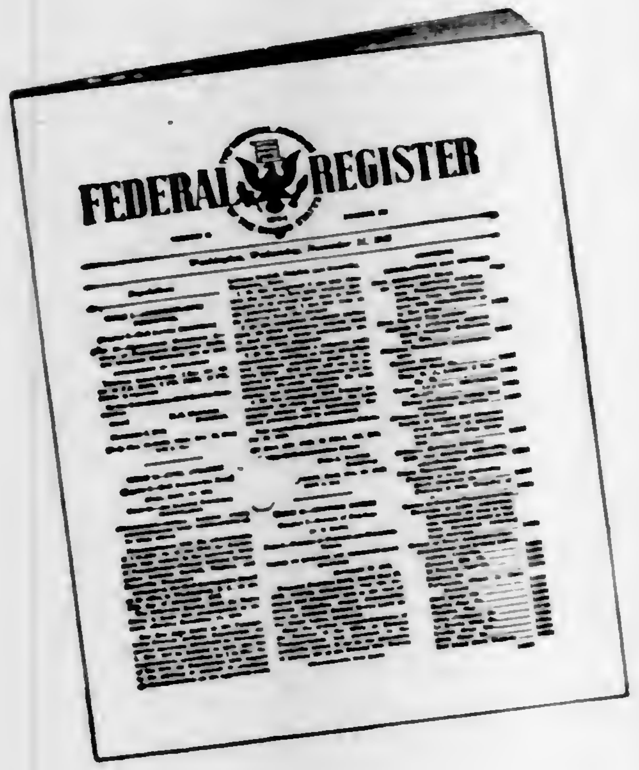

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DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE CROSSLEY ET AL.

No. 5,181. Decided January 7, 1947. Petition for rehearing denied February 7, 1947

[158 F.(2d) 993; 72 USPQ 325]

PATENTABILITY—PROCESS—APPLICATION TO OTHER MATERIAL.

Claims to a method of producing pulp suitable for the manufacture of white paper, which depend for novelty upon the character of the material selected rather than upon any new cooking or pulping treatment *Held* unpatentable in view of the disclosure of the art cited.

PRACTICE—AFFIDAVITS.

Where appellant files affidavits of persons skilled in the art and urges that the attitude of skepticism and incredulity on the part of those skilled in the art toward what appellant finally proved to be true is evidence of invention, *Held* that, in view of all the suggestions of the art cited, it would not be inventive to use an old process on the particular material claimed, "regardless of any showing of surprise upon making the experiment" and finding that the particular material was suitable.

APPEAL from the Patent Office. Affirmed.

Mr. Sol Shappiro (*Mr. Paul Kolisch* of counsel) for Crossley et al.

Mr. W. W. Cochran (*Mr. H. B. Ledman* and *R. F. Whitehead* of counsel) for the Commissioner of Patents.

BLAND, *J.:*

The Primary Examiner of the United States Patent Office rejected all of appellants' claims, 14, 15, 16, 17, and 18, in their application for a patent on "improvements in the production of chemical pulp." Upon appeal to the Board of Appeals the Examiner's decision was affirmed and appellants have here appealed from the Board's decision.

The alleged invention described and claimed in appellants' application relates to the production of chemical pulp for the manufacture of white paper from unbarked wood, which is that portion of trees such as twigs or shoots not exceeding one and one-half inches in diameter, which process comprises cooking such wood under superatmospheric pressure in a chemical pulping liquor.

It is stated in appellants' application that at present the principal raw material for chemical pulp is the wood of forest trees and that in cutting these trees, which are usually about twenty-five years of age, the branches are lopped off and are left lying in the woods or are burned; that the logs, and sometimes the larger peeled branches, are transported to mills for use in making pulp; that the "loppings" of the trees are considered waste material and, if used at all, are used for fuel, and that the same is true of the annual prunings of domestic trees, including orchard trees. Owing to the fact that it was believed necessary to remove the bark from these small pieces of wood if chemical pulp suitable for use in making white paper was desired, it was thought that the only utility of such loppings, aside from fuel, would be to make a low grade paper and that the bark would form a discoloration that could not be economically bleached.

Appellants, for the most part, base their claimed invention upon the alleged discovery that the stated objection to the use of bark applied only to bark of a certain age and that the objectionable bark contained living cells known as cork cells which are absent in the young shoots or twigs of the size heretofore referred to.

While appellants seem to prefer twigs of about three-eighths of an inch in diameter, it is stated that it is safe to use twigs having a diameter up to one and one-half inches without removing the bark, it being explained that "the permissible variations in the application of this general rule can be determined in particular circumstances by analyses of the bark of which it is proposed to make use." Two of the claims limit the diameter of the unbarked wood to not over one and one-half inches and one of the claims calls for a maximum diameter of three-eighths of an inch, while the others mention no definite diameter measurement of the twigs.

Appellants state in their application that twigs having a maximum thickness of about three-eighths of one inch are separated from other wood and treated alone and that the claimed process comprises "any one of those now ordinarily used, namely, the sulphite, soda or sulphate process, depending on the character of the pulp desired, or any other one found suitable," and that "The conditions under which the raw material is acted on by the treating liquor may be substantially the same as those now used in commercial practice with the liquor in question, although variations in these conditions may be found possible." After cooking is completed, the pulp is blown from the digester and is then "washed, refined, bleached and otherwise subsequently treated in the same manner as ordinary soda pulp."

Claim 14 is regarded as illustrative of the appealed subject matter and follows:

> 14. The method of producing pulp suitable for the manufacture of white paper, which comprises reducing to pulp a material including a substantial proportion of unbarked wood of coniferous or deciduous trees, which wood has a

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> diameter before splitting or crushing of not over one and one-half inches and a bark free from scale, solely by cooking said material including said unbarked wood in a chemical pulping liquor under superatmospheric pressure.

Claim 15 substitutes "caustic soda liquor" for the "chemical pulping liquor" of claim 14. Claim 16 omits the size limitation and calls for "unbarked wood * * * the bark of which wood contains substantially no cork." Claim 17 is specific to "unbarked fruit tree prunings," and claim 18 to "unbarked twigs * * *, which twigs have a maximum diameter of about three-eighths of an inch."

The Examiner based his rejection of the claims upon the following patents: Vautier, 33,551, October 22, 1861; Allen, 323,771, August 4, 1885; Johnson (British), 437, of 1861; Balmanno (British), 7,794, of 1838; Duda (British), 17,803, of 1911; and called attention to two publications, to wit: Pruning Book by Bailey, published 1898 by MacMilian Co., New York, N. Y., pages 35 to 37; The Manufacture of Pulp and Paper, Vol. 3, 3rd Ed., 1937, published by McGraw-Hill Book Co., New York, N. Y., pages 37 and 38 of Section 1.

The Vautier patent discloses a process of extracting the filamentous matter of a silky, cottony and the like nature which is contained in the bark and leaves of mulberry and other trees and shrubs so as to render the product thus obtained convertible into yarns and tissue.

Allen taught the making of paper pulp of the limbs and bark of trees previously thought to be useless for pulping, by boiling the wood which had been split and crushed. This was done in water, acid or alkalies, and the material was then crushed, ground, and pulped. No mention is made of the size of the limbs nor of the nature of the bark thereof.

The British patent to Johnson discloses the making of pulp from "the young green shoots of all kinds of trees and shrubs."

The British patent to Balmanno discloses the making of paper pulp from the "bark of trees and young shoots of trees." There is nothing in this patent that suggests that the bark of trees can be generally used for making white paper and the reference is cited solely for the reason that it discloses the use of young shoots of trees in making pulp.

The British patent to Duda speaks of utilizing the bark of osiers and evidently was cited to meet the term "twigs," in claim 18 at bar, it being noted that the term "shoots" instead of "twigs" is used by the first two British patents.

In addition to rejecting claim 14 as being unpatentable over British Patent 437, the Examiner rejected this claim on the U. S. patent to Allen, in view of any of the British patents or Vautier, and pointed out that Allen pulps the limbs and bark of various trees by boiling in water, acid, or alkalies. The Examiner held that no invention is seen in selecting limbs with bark having no "fiberless part."

Twenty-four affidavits, embracing about sixty pages of the record, were submitted by appellants and considered by the tribunals below. Affidavits are often very helpful to the Patent Office tribunals and the courts in considering a patent application. A German trade publication and a Russian article, both relating to the pulp-making industry, are also found in the record, having been submitted to the Examiner by appellants.

The affidavits are chiefly to the effect that affiants, as men skilled in the art, believed that unbarked prunings or twigs or shoots could not be used for making pulp suitable for white paper and that upon experimentation and trial it was a source of surprise that a satisfactory result was obtained.

Appellants stress this affidavit evidence as important since it is alleged to show that it never before occurred to anyone in the industry as being possible to use unbarked twigs to make pulp for white paper. Appellants urge that the "attitude of scepticism and incredulity on the part of those skilled in the art" towards what appellants finally proved to be true is a proper matter for the consideration of this court in determining whether or not what appellants have done amounted to invention.

The Board, in affirming the action of the Examiner in rejecting the appealed claims, said in part:

> It is our opinion that the term "young green shoots" of the above British patent is a disclosure of material not over one and one half inches. The Examiner cites the reference Pruning Book in support of definition of tree shoot. We agree with the Examiner's view of the situation.
>
> The publication Manufacture of Pulp & Paper, while confirming applicant's theory of reason for avoiding older branches also equally confirms the reason for Johnson's particular specification to use the "young green shoots" of trees. The publication discloses that bark on parts of a tree other than that formed during the first years of the life of the tree (or obviously, its shoots and branches) has cork cells and is unsuitable for paper and must be removed.
>
> From the prior art it would seem to be no more than an obvious feature that older branches having cork cells in their bark should be discarded if any attempt is to be made of using branches, shoots or twigs. However, we regard Johnson as fully anticipatory of the matter of the appealed claims.
>
> The additional rejection of claim 14 on Allen with British Patents 437, 7794, 17,803 and Vautier is also affirmed. That patent states that in making pulp
>
> "I take for example the chestnut tree using both limbs and bark if desired and reduce the same to convenient length and size for use, generally removing the ross or fiberless part of the bark by hand or proper machinery."
>
> It appears that the last part of the quoted sentence does not apply in case one wishes to utilize the bark suggested in the first part of the sentence. In respect to this reference it would be assumed, in view of the known characteristics of bark, that branches having older or cork component bark would not be used directly but only younger branches or shoots. This ground of rejection is affirmed.
>
> The rejection of the remaining claims by the Examiner is found to be warranted. It appears that the minor features presented by these claims are not of patentable importance if the principal conception fails.
>
> We are not impressed by the affidavits of record. It is not surprising that practical paper manufacturers generally would not come upon any conception of using small branches and twigs as a source of paper pulp. We believe this would be largely because it would seem not commercially feasible or profitable to try to collect, transport and use such generally bulky material. This is a condition known to be frequenly prohibitive of use of straw, a good paper material but often not economically feasible. We cannot agree that it would be unobvious that paper pulp might not be prepared from shoots to small branches. It is regarded as at least suggestive of being possible and to be only a matter of commercial practicability rather than technical or inventive matter.

The Board also stated:

> It is conceded by applicant that the process of digestion employed is not important. While claims 15 and 17 broadly refer to caustic soda as the digesting agent it seems that patentable novelty is not attributed to it.

Appellants have challenged this statement in a reason of appeal to this court and assert that no such concession was made. However, they offer no convincing argument that such a concession would not have been proper. Appellants' application states that the chemical treatment for preparing the pulp

> may be any one of those now ordinarily used, namely the sulphite, soda or sulphate process, depending on the character of the pulp desired, or any other one found suitable.

This is also quoted in part in appellants' brief. In view of this statement we think it is immaterial whether appellants did or did not before the Board concede that the process of digestion employed is not important.

For novelty in the claims it seems to us that appellants depend upon the character of the material selected rather than upon any new cooking or pulping treatment.

We agree with the conclusions reached by the Board. In view of all the suggestions of the art cited we feel certain that it would not be inventive to use an old process on unbarked twigs less than one and one-half inches in diameter which contain no cork cells in the bark, regardless of any showing of surprise upon making the experiment and finding that suitable pulp for white paper could be produced.

Appellants take exception to the remark of the Board that paper manufacturers would not use small branches and twigs as a source of paper pulp "largely because it would seem not commercially feasible or profitable to try to collect, transport and use such generally bulky material," and contend that the affidavits of record disclose, in substance, that the reason why those skilled in the art have not seen fit to utilize small branches for making white paper pulp was because it would be too expensive to remove the bark and it was thought that the physical properties of the paper would be unsatisfactory if made from immature woods. This fact does not show that the Board was in error in its conclusion. Even though those skilled in the art of paper pulp making had in mind the removal of the bark and doubted the value of using immature wood it does not necessarily follow, in view of the availability of large quantities of more satisfactory material, that paper pulp makers regarded the handling of such bulky material to be a commercially feasible and profitable enterprise.

The Board pointed out that:

> The publication Manufacture of Pulp and Paper * * * discloses that bark on parts of a tree other than that formed during the first years of the life of the tree (or obviously, its shoots and branches) has cork cells and is unsuitable for paper and must be removed.

So it was not appellants who discovered that the absence of cork cells or fiberless portions was found in the bark of young shoots, and certainly the disclosures of the prior art justify the conclusion that, knowing these facts, it would not involve invention, when it became commercially profitable for any reason, to use small shoots and to pulp them in the usual manner and arrive at a satisfactory result.

In view of our conclusions above stated, it is not deemed necessary to answer any of the other contentions on the part of appellants, and the decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

LICHTENWALTER *v.* CARON

No. 5,228. Decided January 7, 1947

[158 F.(2d) 1011; 72 USPQ 271]

INTERFERENCE—PATENT AND APPLICANT—BURDEN OF PROOF.

Since appellant is the junior party and his application was filed subsequent to the issuance of appellee's patent, the burden was upon him to establish priority of invention beyond a reasonable doubt.

SAME—SAME—CORROBORATING TESTIMONY.

For the purpose of proper corroboration, a corroboration, a corroborating witness need not observe every act, but it is necessary that he observe the essential steps of the process involved, otherwise he can only testify from what he considers as authentic hearsay reports of what took place.

SAME—SAME—PRIORITY.

The alleged corroboration of appellant's evidence being considered not sufficient to warrant a holding that appellant reduced the invention to practice prior to the patentee's filing date and the question of diligence not being raised by appellant, *Held*, priority properly awarded the senior party (patentee).

APPEAL from the Patent Office. Affirmed.

Hammond & Littell (*Charles P. Pollard* and *Francis G. Cole* of counsel) for Lichtenwalter.

Samuel Z. Gordon of counsel for Caron.

HATFIELD, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention of the subject matter defined in the counts in issue, Nos. 1 and 2, to appellee Martinus H. Caron.

The interference is between appellee's patent, No. 2,290,313, issued July 21, 1942, on an application filed May 28, 1941, and appellant's application No. 458,136, filed September 12, 1942.

Appellant is the junior party and as his application was filed subsequent to the issuance of appellee's patent, the burden was upon him to establish priority of invention beyond a reasonable doubt.

The invention relates to a process of separating nickel and cobalt from certain solutions, both the solutions and the process being sufficiently defined in the counts in issue, which read:

> 1. In the separation of nickel and cobalt from solutions containing, in addition to these metals and to unavoidable impurities, ammonia and carbon dioxide only, the process which comprises heating and concentrating such a solution, thereby causing the initial precipitation of basic nickel carbonate, stopping the heating and concentration substantially as soon as cobalt begins to precipitate in insoluble form, then separating the resulting basic nickel carbonate precipitate in substantially pure form.
>
> 2. The process of count 1 wherein the said heating and concentration is conducted under vacuum conditions.

The counts in the interference are claims 1 and 2 of appellee's patent and were copied by appellant for interference purposes. The counts differ from the claims of appellee's patent in that each contain the term "carbon dioxide" instead of the term "carbon monoxide." The Board stated that the use of the term "carbon monoxide" in the claims of the patent was an obvious mistake and that the claims should have contained the term "carbon dioxide." No claim is made hereby counsel for appellant that the Board was in error in that regard and the case has been tried upon the theory that the claims in the patent contained the words "carbon dioxide" instead of "carbon monoxide."

Appellee submitted no testimony but relies upon the filing date (May 28, 1941) of his application, which matured into his patent, (July 21, 1942) for conception and constructive reduction to practice.

Appellant submitted testimony in the form of affidavits for the purpose of establishing that he conceived the invention and reduced it to practice during the months of March, April, and May 1941.

The record contains the affidavit of appellant, a research chemist in the employ of the Freeport Sulphur Company which had offices in the city of New York, at Grande Ecaille Sulphur Mine near Port Sulphur, La., and at Hoskins Mound Sulphur Mine near Freeport, Tex.; that of Donald B. Mason, employed as "Technical Director" in the New York office of the Freeport Sulphur Company; of Robert C. Hills, who was employed as a chemist by the Freeport Sulphur Company at Grande Ecaille Sulphur Mine near Port Sulphur, La., and Hoskins Mound Sulphur Mine near Freeport, Tex.; and the affidavit of Rapheal Matson, who was also employed as an analytical chemist by the Freeport Sulphur Company at the Grande Ecaille Sulphur Mine near Port Sulphur, La., and at Hoskins Mound Sulphur Mine near Freeport, Tex.

It is conceded by counsel for appellee that appellant's Exhibit 8, dated March 18, 1941, which is a report made to the witness Robert C. Hills, discloses the invention defined by count 1, and his Exhibit 4, dated May 17, 1941, which is a report addressed to Mr. C. O. Lee, assistant to the general manager of the Freeport Sulphur Company, and the witness Robert C. Hills, discloses the invention defined by count 2. Accordingly, appellant is entitled to those dates, which are prior to appellee's filing date, May 28, 1941, for conception of the invention defined by the counts in issue.

The sole issue in the case is whether the evidence submitted by appellant is sufficient to establish that he reduced the invention to practice prior to appellee's filing date, May 28, 1941.

In its decision, the Board stated that even if it be assumed that appellant's affidavit and the reports of his experiments were sufficient to indicate that he was in possession of the invention prior to appellee's filing date, his evidence was not corroborated, as required by law, and that, therefore, appellant failed to establish that he had reduced the invention to practice prior to his filing date, September 12, 1942. In support of its decision, the Board cited the decisions of this court in the cases of *Collins* v. *Olsen*, 26 C. C. P. A. (Patents) 1017, 102 F.(2d) 828, 41 USPQ 220, 503 O. G. 3; *Kear* v. *Roder*, 28 C. C. P. A. (Patents) 774, 115 F.(2d) 810, 47 USPQ 458, 526 O. G. 293; and *Crane et al.* v. *Carlson*, 29 C. C. P. A. (Patents) 879, 125 F.(2d) 709, 52 USPQ 495, 540 O. G. 707.

The Board pointed out in its decision that the witness Donald B. Mason was employed in the New York office of the Freeport Sulphur Company, whereas all of the experiments of appellant were at Grande Ecaille Sulphur Mines near Port Sulphur, La., and that the statements contained in the Mason affidavit were obtained from reports from the witness Robert C. Hills. The Board quoted in its decision from the affidavit of the witness Mason, in which it was stated that: "On several occasions during this period, I visited the laboratory at said mine and know that such work was being done."

It was correctly pointed out in the Board's decision that the witness Mason did not state in his affidavit that he actually saw any of the experiments performed by appellant; that he relied solely upon reports made by appellant to the witness Hills, which the affiant received in the usual course of procedure of the Freeport Sulphur Company; and that his testimony, therefore, did not tend to corroborate the testimony of appellant that the invention defined by the counts in issue had been successfully reduced to practice prior to his filing date.

The Board next considered the affidavit of the witness Robert C. Hills, who was in charge of "new development work in the research laboratories" of his company at the Grande Ecaille Sulphur Mine near Port Sulphur, La., and the Hoskins Mound Sulphur Mine near Freeport, Tex., "as to all experimentation and testing in a program to develop a commercial process for the recovery of nickel from nickeliferous ores." (It may be stated at this point that it appears from the record that a considerable portion, how much is not stated, of the work involved in carrying out appellant's experiments was performed by chemists other than appellant, employed by the Freeport Sulphur Company, and that those chemists were not called as witnesses.) The Board quoted a portion of the following statement contained in the affidavit of Robert C. Hills:

> I exercised close supervision of the work conducted by him and his associates and kept myself well informed by personal observation as to the work conducted in the laboratories as the same was being carried out. Through close contact with the work done in the laboratories and frequent conferences and discussions with Myri Lichtenwalter during February, March, April and May of 1941, as well as later, I know that during this period he originated and carried out a fractional and selective precipitation process for separation of nickel and cobalt from ammonium carbonate leach solutions containing cobalt and nickel and various unavoidable impurities, by a series of steps involving distilling off ammonia, sometimes under partial vacuum and sometimes not, until a substantial proportion of the nickel had precipitated as basic nickel carbonate, stopping the heating just before any substantial proportion of cobalt had precipitated, separating the nickel precipitate from the solution and impurities therein, again distilling to precipitate the cobalt and the remaining nickel, and separating the precipitate obtained.

The Board further quoted the following from the affidavit of witness Hills: "From these reports [appellant's written reports] and from conferences with Myrl Lichtenwalter [appellant] and *his associates* as well as from personal observations of work in the laboratory, I prepared the following periodical reports, * * *." [Italics ours.]

The Board concluded from the witness Hills' affidavit that some, at least, of the information acquired by him was obtained from appellant and that as the witness failed to specify any particular experiments or portions thereof which he personally observed, it was impossible to determine from his affidavit what part of his alleged information was obtained from personal observation of appellant's experiments, and that, therefore, the testimony of the witness was not sufficient to corroborate the testimony of appellant. The Board further quoted from the Hills affidavit to the effect that the experiments on behalf of appellant were carried out day and night for a period of several days; that notations on the work sheets were made by several different chemists; and that only a portion of the experiments was carried out by appellant.

The Board further correctly stated in its decision that the witness Rapheal Matson stated in his affidavit that he had analyzed certain samples submitted to him by appellant and appellant's associates during the period from March 3, 1941, to May 27, 1941. The witness stated that he had analyzed samples submitted to him and that they contained certain percentages of nickel and cobalt, however, there is nothing in his affidavit to indicate that he had any knowledge whatsoever of the process by which the samples which he analyzed was obtained. Accordingly, his testimony does not corroborate the testimony of appellant that the process defined by the counts in issue was reduced to practice. It may be that the samples analyzed by him might have been produced by a process other than that defined by the counts in issue.

It is evident from the decision of the Board that it carefully considered all of the testimony submitted by appellant. The Board concluded that, in view of the authorities hereinbefore cited, appellant failed to establish by corroborating testimony that he had reduced the invention to practice prior to appellee's filing date, May 28, 1941.

In the case of *Kear* v. *Roder*, supra, we stated:

> The only witness whose testimony tends to corroborate appellant's testimony as to reduction to practice of the invention is Diamond; *but the difficulty with that testimony is that it is not clear whether his corroborating testimony is based wholly upon his personal knowledge or in part upon conversations with appellant and upon reports, entries in appellant's notebook, and the time cards of appellant.* [Italics ours.]

In the case of *Collins* v. *Olsen*, supra, we said:

> We must conclude that statements in reports by Olsen, no matter how clear, as to what he used, what he did and what the results were, cannot be accepted as proof of reduction to practice, unless fully corroborated, *even though such reports were made to an official who had such confidence in their accuracy that he was willing to act upon them without complete and independent investigation.* While they constitute good evidence of conception, they are self-serving on the question of reduction to practice. See *Petrie* v. *De Schweinitz,* 19 App. D. C. 386; *Sundberg et al.* v. *Schmitt,* 58 App. D. C. 292, 29 F.(2d) 880; *Fausek et al.* v. *Vincent,* 25 C. C. P A. (Patents) 770, 92 F.(2d) 909; *Janette* v. *Folds et al.,* 17 C. C. P. A. (Patents) 879, 38 F.(2d) 361; *Rolfe* v. *Hoffman,* 1905 C. D. 356; *Daggett* v. *Kaufman,* 33 App. D. C. 450; and *Robinson* v. *Thresher,* 28 App. D. C. 22. [Italics ours.]

In addition to the cases hereinbefore cited, see *Patterson et al.* v. *Clements et al.*, 30 C. C. P. A. (Patents) 1262, 136 F.(2d) 1002, 58 USPQ 539, 557 O. G. 7.

It should be understood, of course, that for the purpose of proper corroboration, a corroborating witness need not observe every act of an appellant in a case of the character of that here involved. However, it is necessary in view of the decisions hereinbefore cited, that he observe the essential steps of the process involved, otherwise he can only testify from what he considers as authentic hearsay reports of what took place.

We have given most careful consideration to the evidence of record and to the arguments presented by counsel for appellant, but are of opinion, as was the Board of Interference Examiners, that the alleged corroboration of appellant's evidence is not sufficient to warrant a holding that appellant reduced the invention to practice prior to appellee's filing date, May 28, 1941.

The question of diligence is not raised by appellant and, therefore, need not be considered.

Owing to the views we hold, it is unnecessary that we consider the supplemental briefs filed by counsel for the parties.

For the reasons stated, the decision of the Board of Interference Examiners is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WILLIFORD

No. 5,214. Decided December 9, 1946. Petition for rehearing denied February 7, 1947

[158 F.(2d) 997; 72 USPQ 321]

1. PRACTICE—STATEMENTS OF FACT.

When the validity of the statements of a scientific principle relied upon by the tribunals of the Patent Office is challenged in appellant's brief, *Held* that "the fact in issue is one that the court may not decide upon statements made in the briefs of counsel."

2. SAME—SAME—RULES 66 AND 76.

When applicant desires to challenge a statement of scientific principle relied upon as a fact by a tribunal of the Patent Office, "it is incumbent upon the applicant to establish his position by a proper showing in the record under the procedure authorized by rules 66 and 76 of the Patent Office by requiring the citation of authority or the submission of affidavits by the personnel of the Patent Office in support of the challenged statement." Otherwise, "there is nothing in the record before the court upon which it may render a decision one way or another as to the correctness of the involved statement; under these circumstances, the statement must be accepted by the court as correct."

3. PATENTABILITY—INVENTION—CHANGE IN DISPOSITION.

Certain claims to a process and apparatus for testing light fastness of materials which distinguish only in the vertical curvature of the sample holders *Held* unpatentable, since no invention was involved in curving the sample vertically as appellant has done instead of horizontally as was previously done by the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Charles C. Scheffler and *Eugene L. Greenewald* (*Mr. Donald C. Harrison* of counsel) for Williford.

Mr. W. W. Cochran for the Commissioner of Patents.

O'CONNELL, *J.:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in rejecting claims 24, 25, 26, and 27 in appellant's application for a patent for "certain new and useful improvements in Accelerated Light Fastness Testing Method and Apparatus."

Claims 24 and 25, which recite the method, and claims 26 and 27, the apparatus for performing it, were rejected on the ground that they defined no patentable distinction over the disclosure of the art of record. Six claims, 11 to 15, inclusive, and 21, which recite structure, were allowed.

The references relied upon are—Lorilleux et al., British, 204,587, October 4, 1923; Buttolph, 1,558,786, October 27, 1925.

Claim 24 is illustrative of the two claims drawn to method—

> 24. A method of subjecting a sample of material to an accelerated test, such method comprising revolving said sample in a closed path of revolution about a vertical axis and around a concentrated source of radiant energy while continually exposing a surface of said sample to radiant energy from said source and while continually maintaining said sample and such exposed surface thereof vertically curved on a radius of curvature substantially equal to the distance of said exposed surface from the center of said source of radiant energy.

Claim 26 is illustrative of the two claims drawn to apparatus—

> 26. Apparatus for subjecting a sample of material to an accelerated test, such apparatus comprising, in combination, a concentrated source of radiant energy; a framework rotatable around said source and about a vertical axis extending through said source; and a sample holder secured to said framework and including a plate having an apertured portion vertically curved on a radius of curvature substantially equal to the distance of said apertured portion from the center of said source of radiant energy, said holder also including means to clamp a sample of material against said apertured portion, to conform said sample to the vertical curvature thereof and to expose a vertically curved surface of said sample to said source of radiant energy.

Claim 25 added to claim 24 the limitations that the source of radiant energy shall comprise "at least one electric arc between two carbon electrodes" and that only vertically curved surface portions of such vertically curved samples which are above and below a horizontal plane and extending through such arc shall be exposed to its rays.

Claim 27 is dependent on claim 26 and, like claim 25, adds the limitation that the carbon arc light shall be employed. Other limitations are included in claim 27 which relate to the mounting of the lamp and arranging the sample-carrying framework.

Omitting references to the record, the Solicitor for the Patent Office describes the subject matter defined by the claims on appeal—

> The application relates to the testing of samples of material to ascertain the amount of fading thereof due to exposure to light. Appellant's apparatus consists of a holder for holding the sample, and an electric arc light. In practice a series of holders is supported on a horizontal circular bracket, the arrangement being such that the light is at the center of the circle. The bracket is carried by a framework. No means is disclosed for mounting the framework in relation to the light but appellant's specification states that the framework is rotated about a vertical axis passing through the light source.
>
> During the prosecution of his application appellant submitted a sketch to show that if a flat sample is exposed to light from a point source which is located opposite the center of the sample, more light will be received at the center of the sample than at the edges thereof.
>
> * * * * * * *
>
> As shown the holder is interposed between the sample and the light, and has two windows which admit light to the portions of the sample which are exposed.

Buttolph discloses an apparatus for subjecting colored articles to the influence of ultra violet rays for the purpose of comparing and predetermining the life of the color under the influence of sunlight or other light. A multi-paneled holding drum is disclosed mounted on a standard and having a fused quartz mercury vapor arc lamp mounted therein as a source of ultra violet light. Openings in the sides of the drum are provided with flatwise surface sample holders with colored fabrics exposed therethrough. "The lamp casing is rotatably movable on the standard, * * * the movement in either direction being controlled by stop pin."

The patent to Lorilleux et al. relates to apparatus "which will give quick, accurate and comparable results" in testing the effect of light on colors or colored fabrics. It comprises a cylindrical casing with an electric arc light arranged within. The material to be tested is placed in grooved frames or sample holders surrounding the openings formed about the middle of the casing at a level lower than the source of light. The surface of the individual sample holders, as depicted in the drawings, are curved horizontally about the axis of the cylinder. The casing is described as supported on rollers and "may be mounted so as to be rotated about the lamp."

The Examiner in rejecting claims 24 and 26 stated, among other things, that the only distinction defined by such claims over either of the cited references "is the vertical curvature of the sample holders with the light source as the center of curvature, so that the entire area of each sample will receive the same intensity of light." Such limitation, the Examiner held, presented "no material effect, if any, on the specimen."

Claim 25 was rejected as unpatentable over Lorilleux et al. for the reasons given in rejecting claims 24 and 26, and for the reason that the reference disclosed a carbon arc lamp. Claim 27 was rejected as unpatentable over Buttolph in view of Lorilleux et al. on the ground that the ordinary skill of a mechanic would be exercised exclusively in substituting the mercury vapor lamp of one for the arc lamp of the other.

The holdings upon which the Examiner relied in making his final decision were discussed and passed upon by the Board of Appeals which made the following pertinent statement regarding its position:

> The principal issue presented appears to us to be whether the vertical curvature defined in the appealed claims involves invention over the prior art when, as the Examiner points out, it is a matter of common knowledge that surfaces equidistant from a source of radiant energy will receive the same intensity of energy. This principle has been so commonly used in many relations that we are unable to find invention in its use in this particular field. The Examiner ventures the opinion that for such short distances as those involved in the testing of dyed samples, for instance, the exactness with which the samples receive the same intensity of light at all points on their surfaces would present no material effect on the specimen. Assuming that a critical difference could be noted in appellant's samples over those of Buttolph or the British patent, it is our opinion that appellant has resorted to a known principle to produce an obvious result.
>
> The decision of the Examiner is affirmed.

Summarizing his position here, appellant vigorously contends "that his apparatus and method provide a substantial advance toward greater accuracy and reliability in the field of testing materials," that "The speculative opinion of the Patent Office, unsupported by factual evidence, does not disprove this fact"; and that the alleged scientific principle

relied upon by the tribunals of the Patent Office, even had it been accurately defined by them, does not suffice to negative invention in the absence of a concrete example or pertinent instance of its use.

Appellant also contends that none of the cited references is capable of performing his claimed method; that the teachings of the such references do not anticipate the combination of elements defined by the appealed claims, and that invention was involved in the combining of the elements therein defined.

Appellant contends that the equipment defined by the appealed claims "is superior to prior equipment because it provides a more accurate and dependable fading test."

In support of that contention appellant relies upon a printed statement used in advertising the sale of such equipment and introduced into the record together with a diagram and a mathematical computation designed to prove that there is "approximately 12% greater intensity of radiation" due to the maintenance of the sample by appellant's apparatus and process in a vertically curved position during its revolution around an electric arc.

The difficulty with appellant's position is that the alleged superiority of the equipment defined by the appealed claims is not supported by a proper showing in the record as required by law. *In re Herthel*, 33 C. C. P. A. (Patents) 1202, 156 F.(2d) 170, 70 USPQ 234; *In re Selmi et al.*, 33 C. C. P. A. (Patents) 1187, 156 F.(2d) 96, 70 USPQ 197.

There is no actual showing by the cited statement or the comparative computation relied upon by appellant of reasons why his equipment provides any superior results over the equipment disclosed by the art of record.

The comparative computation recited by appellant represents a comparison between the results obtained by his disclosure and the disclosure of the patent to Tucker, No. 2,182,325. That patent relates to the art of printing photographic negatives and is clearly not pertinent as the basis of comparison with the art here involved.

Moreover, having been cited against the appealed claims early in the prosecution of the application, Tucker was withdrawn by the Examiner. Thereafter that reference was not cited nor relied upon either by the Examiner or the Board of Appeals in the rejection of any of the appealed claims. Under the facts presented the certification of Tucker as a part of the record and appellant's use thereof as a basis of comparison with the art of record is without merit. *In re Brogden et al.*, 33 C. C. P. A. (Patents) 1181, 156 F.(2d) 82, 70 USPQ 187.

It is pointed out in the brief of the Solicitor that, considered in the proper light, the tribunals of the Patent Office properly stated and applied the scientific principle the validity of which is challenged in the brief of appellant.

The fact in issue is one that the court may not decide upon statements made in the briefs of counsel, although it is well settled that the court is empowered to take judicial notice of facts which are not disclosed in the record but which are matters of common knowledge.

The validity of the statement recited herein as a scientific principle and relied upon by the tribunals of the Patent Office as an influential fact in rendering the decision from which appeal was taken to this court is not a fact of which the court in the exercise of its jurisdiction may take judicial notice.

In that event it was incumbent upon appellant to establish his position by a proper showing in the record under the procedure authorized by rules 66 and 76 of the Patent Office by requiring the citation of authority or the submission of affidavits by the personnel of the Patent Office in support of the challenged statement.

Having failed to thus raise the issue before the tribunals of the Patent Office, there is nothing in the record before the court upon which it may render a decision one way or another as to the correctness of the involved statement. Under those circumstances, the statement must be accepted by the court as correct. *In re Lewis*, 25 C. C. P. A. (Patents) 1273, 96 F.(2d) 1009, 37 USPQ 786; *In re Selmi et al.*, supra.

The court upon a careful comparison of the involved disclosures is obliged to concur in the view expressed by the tribunals of the Patent Office to the effect that the only distinction over the cited references defined by the appealed claims is the vertical curvature of the sample holders with the light source as the center of curvature.

The horizontal curvature of the sample holders disclosed by the British patent while not explicitly described in the specification is clearly depicted and suggested by the accompanying drawings, and upon the facts presented no invention was involved in curving the sample holders vertically as appellant has done instead of horizontally as was previously done by Lorilleux et al. *In re Stover*, 32 C. C. P. A. (Patents) 823, 146 F.(2d) 299, 64 USPQ 186.

Moreover, as stated by the Board of Appeals, appellant in defining his alleged invention has but resorted to the application of a well known principle of science generally used in the arts to produce an obvious result.

Appellant contends that his method claims are not anticipated by the apparatus disclosed by the references because alterations are required to adapt the mechanism thereof to carry out the method defined by the rejected claims. It clearly appears, however, that the alterations required to adapt the disclosure of such references to carry out appellant's method are of a character such as would have occurred to any person skilled in the art.

Moreover, the elements of the patented apparatus here disclosed in their normal and usual operations, so far as the record is concerned, will perform the function that is defined by appellant's claims. Therefore no invention was involved in doing the thing that was done by the method defined by them. *In re Earl Ackenbach*, 18 C. C. P. A. (Patents) 769, 45 F.(2d) 437, 7 USPQ 268; *In re Ernst*, 32 C. C. P. A. (Patents) 1106, 150 F.(2d) 133, 66 USPQ 71.

In view of the conclusion hereinbefore expressed no useful purpose would be served in discussing and passing upon other arguments presented by appellant.

The decision of the Board of Appeals is accordingly affirmed.

Affirmed.

GARRETT, *P. J.*, did not participate in the hearing or decision of this case.

U. S. Court of Customs and Patent Appeals

IN RE HANEY ET AL.

No. 5,202. Decided December 9, 1946

[158 F.(2d) 296; 72 USPQ 445]

PATENTABILITY—PROCESS.

Claims to a process for the clarification of a solution of a cellulose derivative *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. I. Seltzer and *C. W. Levinson* for Haney et al.

Mr. W. W. Cochran (*Mr. Pasquale J. Federico* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in rejecting claims 1 to 8, inclusive, 15, and 16, being all the claims in appellants' application for a patent for a process whereby solutions of organic derivatives of cellulose, including cellulose esters and cellulose acetate, may be clarified "by a simple filtration procedure" and used in the production particularly of articles in which a high degree of transparency is desired.

The references are—Copland, 2,066,141, December 29, 1936; Tinsley, 2,214,943, September 17, 1940.

Claims 1 and 8 are illustrative—

> 1. A process for the clarification of solutions or organic substitution derivatives of cellulose, which comprises dissolving an organic substitution derivative of cellulose in a solvent therefor, adding a filter aid and filtering the solution at elevated pressure in a plurality of stages, the first stage being carried out by filtering a portion of the solution containing a relatively high concentration of filter aid, and continuing the filtration with the solution at a temperature higher than the temperature of said first portion and containing a lower concentration of filter aid.
>
> 8. A process for the clarification of solutions of cellulose acetate, which comprises dissolving the cellulose acetate in acetone, adding a diatomaceous earth filter aid and filtering the solution at elevated pressure in a plurality of stages, the first stage being carried out by filtering a portion of the solution containing a relatively high concentration of filter aid, and continuing the filtration with the solution at a temperature of at least 50° C. and containing a lower concentration of filter aid.

The involved subject matter was described by the Examiner—

> The present application is directed to a process for filtering solutions of cellulose derivatives, particularly solutions of cellulose acetate. More specifically the process comprises dissolving the cellulose derivative in a solvent, adding a filter aid, such as diatomaceous earth, or a fibrous material such as disintegrated wood. The filtration is then carried out in two stages by first passing through the filter a minor portion of the solution containing a high percentage of filter aid in order to form a relatively thick coating or precoat of the filter aid on the filter pads, and then passing the remainder or bulk of the solution, containing a lower concentration of filter aid, at a higher temperature. It is stated that by following this procedure, the filtration capacity of existing filtration units may be considerably increased.

The patent to Copland discloses a process for the clarification of sugar, or glucose, solutions in a plurality of stages to reduce the cost and increase the efficiency of the filtration by using a filter aid, such as corn hulls, fibrous material, and kieselguhr.

Assuming the use of filter equipment old in the art and employing a filter cloth, such as employed by appellants, through which the solution is passed, Copland describes two stages in his preferred process: first, pre-coating the filter cloth with certain proportions of the filter aid and passing that mixture through the filter; second, mixing a lower proportion of the filter aid with the remaining solution to be filtered and passing that mixture through the filter.

The patent to Tinsley discloses a process for the clarification of solutions of cellulose esters, more particularly cellulose acetate, for use in the production of photographic films, safety glass, and other articles in which "transparency and high clarity are necessary or desirable." Cellulose fiber and diatomaceous earth are mentioned by Tinsley as suitable filter aids, but he describes no steps to be followed in effecting the clarification.

The appealed claims were all rejected by the Examiner as lacking invention over Copland in view of Tinsley. The action of the Examiner was affirmed by the Board of Appeals which after pointing out, among other things, that neither Tinsley nor Copland mentions filtering temperatures, made the following pertinent statement:

> It seems to us it would not involve invention to carry on the pre-coating step at the temperature most effective to obtain pre-coating and to carry on the filtering step at the temperature most effective for filtering; * * *

Appellants petitioned the Board to reconsider the decision rendered for the alleged reason that it was based upon a misapprehension of the involved facts and issues. After granting the petition, the Board adhered to its original decision but pointed out, in answer to one of appellants' arguments, that no patentable significance over other solvents listed as suitable in Tinsley appeared to attach to acetone as mentioned in claim 8 by appellants.

The arguments presented in appellants' petition for reconsideration are substantially the same arguments upon which they rely here. They urge that the patent to Copland is not relevant because it relates to a "wholly nonanalogous art" of the clarification of sugar solutions; that the patent to Tinsley is not relevant because the patent merely shows a very special type of solution of cellulose acetate without showing how it may be used with the filter aid, and without showing that the cellulose acetate is dissolved in acetone as defined by claim 8.

There is no merit in the foregoing contention of appellants. The appealed claims are directed not to a material but to a process, and the concurring decisions of the tribunals of the Patent Office have properly held that there is no patentable difference between the process defined by the appealed claims and the process defined by Copland so far as the steps of using the involved material is concerned. See *In re McKee*, 22 C. C. P. A. (Patents) 1010,

75 F.(2d) 635, 24 USPQ 414; *In re Saunders et al.*, 33 C. C. P. A. (Patents) 1001, 154 F.(2d) 693, 69 USPQ 341, and authorities therein cited.

Appellants further urge that any person skilled in the art having both Copland and Tinsley before him would not "reach" appellants' invention, for the reason that all the appealed claims call for using a higher temperature in the filtration of the second solution than in the first, and such limitation is not disclosed by either reference.

Appellants' contention that no person skilled in the art would "reach" their invention after an examination of the disclosures of Copland and Tinsley, is not a valid objection to the consideration of those references. In considering more than one reference, or references alleged not to be in the art involved, the question always is whether they suggest to a person skilled in the art to do the thing that the applicant has done. *In re Fridolph*, 30 C. C. P. A. (Patents) 939, 134 F.(2d) 414, 57 USPQ 122; *In re Stover*, 32 C. C. P. A. (Patents) 823, 146 F.(2d) 299, 64 USPQ 186.

Appellants allege in their brief that there is nothing in the record to support the conclusion of the Board that it would not involve invention to carry out the respective steps of the process defined by the appealed claims at the temperature most effective to obtain the desired result. The fact that neither Copland nor Tinsley discloses the temperature at which to carry out the steps of his patented process does not necessarily mean that the temperature called for by the appealed claims would define patentable subject matter over the disclosure of such references.

The law is well settled that a reference patent need not describe in detail that which is obvious to a person skilled in the art. *Loom Company* v. *Higgins*, 105 U. S. 580, 586; *In re Beach*, 33 C. C. P. A. (Patents) 815; 152 F.(2d) 981, 68 USPQ 196. Moreover, it was part of appellants' burden to establish that the decisions of the Patent Office were erroneous.

Although the point was not mentioned by the Examiner in his statement on appeal, the Board held that there was no patentable significance in dissolving the solution in acetone, as defined by claim 8, over other solvents listed by Tinsley as suitable for that purpose. No reason here appears calling for the reversal of that holding.

The record discloses that appellants have done nothing that would not be obvious to any person skilled in the art after an examination of the cited references and in the absence of a proper showing of a new and unexpected result, the decision of the Board of Appeals is affirmed.

Affirmed.

TRADE-MARK REGISTRATIONS CANCELED

334,413. Men's shirts, specifically men's work shirts. Sweet-Orr & Co., Inc., Wappingers Falls, N. Y. Registered May 5, 1936. Canceled Apr. 18, 1947.

374,853. Antiseptic recommended particularly for cuts, abrasions, bruises, sprains, etc., Buick W. Woodley, doing business as Carolina Medicine Co., Asheboro, N. C. Registered Jan. 30, 1940. Canceled Apr. 18, 1947.

394,762. Table cloths, napkins, bed spreads, towels, etc. California Piece Dye Works, Los Angeles, Calif. Registered Apr. 28, 1942. Canceled Apr. 22, 1947.

414,582. Silver plated flatware. Home Decorators, Inc., Newark, N. Y. Registered June 12, 1945. Canceled Apr. 22, 1947.

415,905. Piece goods and shirtings of cotton and rayon and combinations thereof. Cluett, Peabody & Co., Inc., Troy, N. Y. Registered Aug. 21, 1945. Canceled Apr. 22, 1947.

416,322. Cosmetic epilator, skin balm, antiseptic skin lotion, etc. Harold Stillman, doing business as Gayla Cosmetics, Chicago, Ill. Registered Sept. 4, 1945. Canceled Apr. 22, 1947.

416,455. Perfumes. Bonwit Teller, Inc., New York, N. Y. Registered Sept. 11, 1945. Canceled Apr. 23, 1947.

416,856. Garment bags, blanket bags, etc., A. L. Siegel Co., Inc., New York, N. Y. Registered Oct. 2, 1945. Canceled Apr. 25, 1947.

417,523. Liqueur. The Overbrook Company, Inc., Baltimore, Md. Registered Oct. 30, 1945. Canceled Apr. 23, 1947.

423,875. Automotive specialties. Sinko Tool & Manufacturing Company, Chicago, Ill. Registered Sept. 10, 1946. Canceled Apr. 18, 1947.

425,320. Face soaps, bath soaps, and shaving creams. Golden Arrow Toiletries, New York, N. Y. Registered Nov. 12, 1946. Canceled Apr. 18, 1947.

NOTICES

Adjudicated Patents

(C. C. A. Wis.) Fink patent, No. 1,581,188, for chromium plating, *Held* invalid. *United Chromium* v. *Kohler Co.*, 159 F.(2d) 979; 72 USPQ 303.

(C. C. A. Wis.) Fink patent, No. 1,802,463, for chromium plating, *Held* invalid. *Id.*

(C. C. A. Ill.) Bronaugh and Potter patent, No. 2,056,165, for a refrigerator, claims 10, 11, 12, 14, 16, and 18 *Held* invalid and not infringed. *Refrigeration Patents Corp.* v. *Stewart-Warner Corp.*, 159 F.(2d) 972; 72 USPQ 255.

(C. C. A. Ill.) Potter patent, No. 2,171,712, for a refrigerator, claim 8 *Held* invalid and not infringed. *Id.*

(C. C. A. Ill.) Potter patent, No. 2,258,959, for a refrigerator, *Held* invalid and not infringed. *Id.*

(C. C. A. N. C.) Sherman patent, No. 2,369,415, for method of repairing cracked cylinder heads and blocks, *Held* not infringed. *Anthony* v. *Sherman*, 159 F.(2d) 995; 72 USPQ 338.

Disclaimers

2,191,746.—*Jean A. H. Barkeij,* Altadena, Calif. Combustion Chamber in Cylinder Heads of Internal Combustion Engines. Patent dated Feb. 27, 1940. Disclaimer filed Mar. 24, 1947, by the inventor.

Hereby enters disclaimer whereby the scope of the disclaimed fourth, and fifth object, and claim 4, is emphatically applied, i. e. eliminated from the entire patent or specification, drawings, description and claims.

Therefore the fifth object, i. e. simultaneous firing has been already eliminated by the first disclaimer of 15 Nov. 1946 from the explanatory or descriptive matter in lines 27 to 32 on page 2, column 2, and from the lines 50 to 56 in the same column, and therefore also from the claims.

Therefore the fourth object, i. e. two sparkplugs closer to the edge of the exhaust valve than to the edge of the inlet valve, has been already disclaimed by the first disclaimer of 15 Nov. 1946, from the scope of the claims with two sparkplugs.

The condenser in Fig. 1*a* is disclaimed.

2,391,170.—*Harold S. Labombarde,* Nashua, N. H. Stacker Accumulator. Patent dated Dec. 18, 1945. Disclaimer filed Apr. 16, 1947, by the assignee, *The International Paper Box Machine Company.*

Hereby enters disclaimer to claims 21, 22, 23, and 24 of said patent.

2,393,307.—*Edgar E. Brosius,* Pittsburgh, Pa. Mounting and Operating Mechanism for Mud Guns. Patent dated Jan. 22, 1946. Disclaimer filed Apr. 10, 1947, by the inventor, the assignee, *Edgar E. Brosius Company, Inc.,* consenting and concurring.

Hereby enters this disclaimer to claims 5, 6, 7, 8, 10, 11, 12, 13, and 15 in said specification.

Interference Notices

U. S. Patent Office, *Washington, D. C., Apr. 18, 1947.*

Chas. Douglis-Mack Co. Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Rosenbloom, Inc., 12–14 North Paca Street, Baltimore 1, Md., for registration of a trade-mark and trade-marks registered March 22, 1927 and December 17, 1929, No. 225,465 and No. 265,219, respectively, to Chas. Douglis-Mack Co. Inc., 826 Broadway, New York, N. Y., and the notice of such declaration sent by registered mail to said Chas. Douglis-Mack Co. Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Chas. Douglis-Mack Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., Apr. 18, 1947.*

Sultzer-Henderson Co. Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Rosenbloom, Inc., 12–14 North Paca Street, Baltimore 1, Md., for registration of a trade-mark and trade-mark registered March 22, 1927, No. 225,628, to Sultzer-Henderson Co. Inc., 64–70 W. 36th St., New York, N. Y., and the notice of such declaration sent by registered mail to said Sultzer-Henderson Co. Inc. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Sultzer-Henderson Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. Patent Office, *Washington, D. C., Apr. 18, 1947.*

Max Krakow, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Walter H. McKenna & Co., Inc., 700 Prairie Ave., Providence 5, R. I., to effect the cancellation of trademark registration of Max Krakow, Room 942, Marshall Field Annex Bldg., 25 E. Washington St., Chicago, Ill., No. 257,671, dated June 18, 1929, and the notice of such proceeding sent by registered mail to the said Krakow at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Krakow, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,414,079. Railroad Track Switch Position Indicator System and Car Actuated Circuit Controller Therefor. Patented Jan. 7, 1947. An electric signalling system which flashes a series of lights on and off ahead of engineer giving warning to bring train to a stop. When rail switch is thrown to open siding the contact point on switch rod moves into contact with contact in switch box. The magnetic coils at the advanced position become energized and the arm attached to coils is thrown into a position to contact the wheels of car passing over the rail. As each wheel passes the arm, the arm is raised to meet the next wheel resulting in a rapid flashing on and off of the signal lights. (Owner) Theodore R. White, 220 Fifth Ave., New York, N. Y. Group 36—62. Reg. No. 5,609.

Pat. 1,875,686. Safety Hand Brake Locking Device for Automobiles and Trucks. Patented Sept. 6, 1932. A device for locking the emergency brake of an automobile. Attached to ignition switch so ignition and emergency brake are locked simultaneously. Prevents brake from jarring loose or being tampered with. A notched segment is engageable with a sliding hand lever rod mounted upon emergency brake lever with a support attached to floor board. Support carries a pivoted shaft with a lever which moves through slot in support and engages with brake lever and prevents further movement of brake lever. (Owner) Theodore R. White, 220 Fifth Ave., New York, N. Y. Group 38—31. Reg. No. 5,610.

Pat. 2,135,990. Dashboard Tire Pressure Gauge. Patented Nov. 8, 1938. Indicates air pressure change in any of the tires as well as excessive inflation. The gauge mechanism is operatively connected to the front and rear axles. It utilizes a flexible diaphragm which is actuated by the tilting of an axle only in response to prolonged

unbalanced condition of opposite tires. The diaphragm acts upon a column of liquid to change the level of the liquid appearing in a sight glass upon the dash. The mechanism is not affected by vehicle traveling over uneven road surfaces. (Owner) Oscar T. Nelson, 102—1651 East 93rd St., Cleveland 6, Ohio. Group 38—31. Reg. No. 5,611.

Pat. 2,410,887. Sawmill. Patented Nov. 12, 1946. This invention relates to a sawmill which materially reduces man power heretofore necessary in cutting pulp wood. May be set up for operation within a forest. Comprises a power operated device which feeds tree length logs into position for sawing and then conveys the cut logs to an elevated chute where they gravitate into a conveyance for transportation to a pulp mill. (Co-owner) Mrs. Miriam Austin Locke, Jasper, Ala. Group 24—21. Reg. No. 5,612.

Pat. 2,411,278. Bed-Type Chair. Patented Nov. 19, 1946. A bed-type chair for invalids and bedridden persons. Comprises a frame composed of spaced rails which rest firmly on mattress of a bed. Patient sits on mattress between the rails. Provided with arm rests and an adjustable back-rest. A board slidably fits in channels of side rails and serves as a table. A U strap is secured to base rails and back rest. (Owner) Lillie M. Leavitt, 429 Elm St., Lakeport, N. H. Group 25—32. Reg. No. 5,613.

Pat. 2,409,087. Woven Cloth. Patented Oct. 8, 1946. A thick woven cloth with great impact cushioning properties as well as high resistance to penetration. Especially useful for soldiers and others exposed to bullets, shrapnel, etc. Comprises a number of courses of large gauge weftwise extending staggered fillers crushed together by intersecting woven binding fabrics. The fabrics are trained around the fillers so that each fabric repeatedly crosses each of the remaining fabrics at a plurality of points of intersection and extends in zig-zag fashion from one face to the opposite face of the finished cloth. (Owner) Jan V. Weinberger, Truro, Nova Scotia, Canada. Group 22—31. Reg. No. 5,614.

Pat. 2,204,411. Curtain Rod Device. Patented June 11, 1940. A device for clamping on the end of a curtain rod to prevent tearing curtain when running rod through hem. A spring in casing causes a tight fit on rods of various sizes. May be inexpensively made of plastic, Celluloid, or the like. (Owner) Joseph R. Guildford, 22 Groveland St., Buffalo 14, N. Y. Groups 39—81; 40. Reg. No. 5,615.

Pat. 2,402,803. Steam Generator. Patented June 25, 1946. A tank, partially filled with water, has an elongated oil or gas furnace disposed longitudinally therein slightly above the water level. The forward end of furnace is provided with a tubular housing projecting outwardly through the end of the tank in which fuel and air pipes controlled by needle valves are suitably arranged. The furnace has a target wall and baffles therein so that the flame will follow a longitudinal tortuous path before the products of combustion pass out through apertures in the bottom rear end of the furnace and impinge against the surface of the water. Aligned sight glasses in the tank and furnace are provided for viewing the flame in the furnace. A perforated water pipe for cooling the furnace is disposed longitudinally near the top of the tank. (Owner) Clarence C. Chandler, 1066 Yoakum Ave., De Quincy, La. Group 33—62—65. Reg. No. 5,616.

Pat. 2,225,041. Tire Grooving Apparatus. Patented Dec. 17, 1940. With this invention tires may be regrooved without removing them from the vehicle. The vehicle is slightly elevated to permit the wheels to be rotated during the grooving operations. The apparatus is provided with a rotary cutter comprising an elongated hollow cylindrical body having a tapered forward end constituting the cutting edge. The rear end of the cutter is removably threaded into a hollow shaft, which carries a pulley intermediate its ends, and the whole assembly rotates as a unit in suitable bearings operatively associated with a cutter base. The cutter base and carriage of the apparatus may be independently reciprocated in different directions to properly position the cutter preparatory to the grooving operation. A guide wheel which frictionally engages the tread of the tire may be longitudinally adjusted to gauge the depth of the groove. As groove is being formed cut material passes rearwardly through the bore of the cutter and through a sleeve on the inside of the hollow shaft. (Owner) Carl Edinger, 701 North Lincoln Ave., Kent, Wash. Groups 35—59—69; 38—31. Reg. No. 5,617.

Pat. 2,411,212. Apparatus for Fumigating Buildings. Patented Nov. 19, 1946. Fumigating apparatus includes a gas generating container which may be placed within or exteriorly of the building and fed exteriorly of the building at intervals with gas producing ingredients. A sectionalized sealed pipe line including a vertical portion to create a draft has one end connected to a neck on the lid of the container and the other end connected to an elongated flattened nozzle which fits into the window opening. The opening through which the gas forming ingredients are fed normally remains open. Generation of the gas produces ample pressure for forcing the same into the building and due to the draft created by the vertical pipe section very little gas will escape through the feed inlet opening so that it is not necessary for an operator to don a gas mask. Several containers may be suitably connected to the vertical pipe line and used depending upon the size of the building. (Owner) Fred D. Hubbell, Sr., 3718 Yosemite Ave., Baltimore 15, Md. Group 35—61. Reg. No. 5,618.

Pat. 2,406,074. Ice Creeper. Patented Aug. 20, 1946. Sandal type creeper may be quickly attached to or detached from shoes or overshoes. The sole comprises two hinged sections with suitable prongs for engaging slippery surfaces. The front of the sole is provided with a loop while several short strap sections, each having a loop or ring at its free end, are riveted to opposite sides of the sole. A strap is interlaced through the various loops with its free ends adapted to be fastened around the instep and heel of the wearer. (Owner) Michael L. Georgopoulos. Address all correspondence to Lester L. Sargent, 1115 K St., N. W., P. O. Box 3156, Washington, D. C. Groups 31—41; 40. Reg. No. 5,619.

Pat. 2,343,373. Detachable Antislipping Device for Use on Either Shoes or Overshoes. Patented Mar. 7, 1944. Creeper is made of short bars having saw-teeth for engaging slippery surfaces. It comprises a shank section and a sole section detachably connected together. The sole section also comprises two hinged sections which may be folded when not in use. Each section is provided with a strap for attaching or detaching the creeper to the wearer's shoes or overshoes. (Owner) Michael L. Georgopoulos. Address all correspondence to Lester L. Sargent, 1115 K St., N. W., P. O. Box 3156, Washington, D. C. Groups 31—41; 33—73; 40. Reg. No. 5,620.

Pat. 2,210,568. Clothesline Support. Patented Aug. 6, 1940. Support may be clamped to and suspended from an exposed floor joist or I-beam in a cellar, basement, or the like. A conventional U-shaped clamp is utilized from which an inverted triangular shaped extension (comprising a metal strap and a brace rod or strut) is suspended. A hook or eye on the lower end of the strap is provided for engaging the clothesline. Several supports may be used for the line. One may constitute a tensioning support for the line by replacing the hook or eye with a lever pivoted intermediate its ends to the strap so that it will cooperate with the strap to form gripping jaws for the line after it has been tensioned. (Owner) H. E. Dennis, 443 Austin Ave., Mount Lebanon 16, Pa. Groups 33—59; 40. Reg. No. 5,621.

Pat. 2,158,078. Fastener Element and Method of Producing It. Patented May 16, 1939. Group 39—99. Reg. No. 5,622.

Pat. 2,158,079. Slide Fastener and Method of Making It. Patented May 16, 1939. Group 39—99. Reg. No. 5,623.

Pat. 2,275,454. Interlocking Fastener Element. Patented Mar. 10, 1942. Group 39—99. Reg. No. 5,624.

These three patents relate to a simplified procedure for the manufacture and assembly of slide fastener parts. In previous practice individual fastener elements were stamped from strip or sheet material and the recesses, apertures, etc., formed later in separate operations on the individual elements. In these patents the individual elements are sheared from a block, rod or bar, the outer dimensions of which conform to the outer edges of the finished fastener element, all recesses, apertures, clamping legs and other portions having been formed prior to the cutting operation. Other features and modifications are fully described in the patents. (Owner) Thomas G. Miller, 205 Fourth St., McDonald, Pa.

Pat. 2,396,018. Piston Construction. Patented Mar. 5, 1946. Piston is provided with a laterally extending flange on its interior wall for catching and uniformly distributing lubricating oil to the cylinder walls through suitably shaped ports in the skirt of the piston. The piston is of conventional shape, with the exception that the skirt is thicker to permit the formation of longitudinally extending ducts therein at circumferentially spaced points, these ducts opening through the lower end of the skirt and communicating with the lowermost piston ring groove. The wall of the ring groove and the lower end of the skirt are provided with a plurality of circumferentially spaced ports. The ports in the lower end of the skirt which are disposed in staggered relation are conical shaped with their apexes directed inwardly. (Owner) John Mis, 2549 West Walton St., Chicago 22, Ill. Group 35—69. Reg. No. 5,625.

Pat. 2,402,375. Sealed Beam Flashlight Lamp. Patented June 18, 1946. A multiple filament flashlight. The filaments are all connected with a center contact pin. Each has a separate side terminal for engagement by a shiftable contact of the flashlight barrel. When filament in use burns out another filament is brought into position with the shiftable contact by rotating the bulb. (Owner) F. B. Dadisman, Independence, W. Va. Groups 34—81; 36—51. Reg. No. 5,626.

Pat. 2,412,048. Means for Grinding Small Holed Bushings. Patented Dec. 3, 1946. For use when performing external precision grinding of extremely small bushings or the like with very small central bores. The main feature of the invention is the provision of a wire or rod (held taut by two chucks) which acts as a stationary axis on which the bushing to be ground rotates. To prepare the bushing for grinding a small center bore is made therein and a transverse slot is milled in one end. When this bushing is placed on the wire, its slotted end engages a tongue of an auxiliary bushing which is held by the collar of a U-shaped dog, the legs of which fit into holes in a pulley. When the pulley is rotated, the dog, auxiliary bushing, and the bushing to be ground, all rotate. Grinding operations may be quickly performed by unskilled operators. (Owner) Joseph Kaplan, 640 East Second St., Brooklyn 18, N. Y. Group 35—41—43. Reg. No. 5,627.

Pat. 1,939,115. Watertight Joint. Patented Dec. 12, 1933. A water-tight joint for upper edge of a bath tub or other plumbing fixture and wall of a room. A metallic strip provided with openings for plaster extends full length of wall engaging tub and is secured to vertical uprights of building. A flange on metal strip projects over and above top lip of tub and forms a water-tight seal along tub. Held to tub by a number of clips fastened to downwardly extending top flange of tub. (Owner) Bernard Schoch. Address all correspondence to John T. Fritsche, 16019 Madison Ave., Lakewood, Ohio. Group 33—61. Reg. No. 5,628.

Pat. 2,413,058. Multishutter Camera. Patented Dec. 24, 1946. A camera and a developing apparatus. The camera portion has a movable lens and an arrangement of shutters by which the size of the photograph produced can be varied depending upon the position of the lens and selection of the shutters. Includes a web of sensitized paper on a rotatable spool on which one or more exposures of various sizes can be made. Web cut by blades on bottom of camera casing is directed into a developing tank. After several exposed portions have been deposited in the tank, developing fluid is poured in the tank and the sheets removed. (Owner) J. A. London, Fredericktown, Mo. Group 39—12. Reg. No. 5,629.

Pat. 2,367,432. Surgical Saw. Patented Jan. 16, 1945. A motor driven tool for cutting through a surgical cast, bandage, etc. without injury to patient. Adjustable to many angles and positions. Comprises a rotary driven circular blade mounted in a housing of two movable sections. A guard member at base of tool enters beneath cast and supports the tool. The saw blade cuts almost through cast and then the sharpened edge of curved trailing portion of guard cuts the remaining thickness of cast. (Owner) Frank Reprogle. Address correspondence to Ben V. Zillman, 705 Olive St., St. Louis 1, Mo. Group 39—15. Reg. No. 5,630.

Government Owned Application

The following application for Letters Patent (Reg. No. 5,608) has been made available for license only. Licenses will be granted on a non-exclusive royalty-free, revocable basis.

The application is a result of research conducted under Government auspices for antimalarials.

Detailed information relative to licenses under this application must be secured from the Secretary of War, Office of the Judge Advocate General, Patent Section, War Department, Washington 25, D. C., and the inquiry should identify the application by CASE NUMBER.

Case No. 18. Antibiotic and Process for Producing Same.

This application discloses and claims the antibiotic known as "Bacitracin" and includes the preparation, standardization, and testing of the said antibiotic, obtained by the cultivation of *B. subtilis* Tracy I in a nutritive medium and the isolation of the antibiotic from the resulting culture.

Government Owned Patent

The following patent, owned by the United States Government, as represented by the Secretary of the Interior, is available for licensing upon a non-exclusive, royalty-free basis:

Pat. 2,415,416. Froth Flotation of Silica from Iron Ore with Anionic Collector. Patented Feb. 11, 1947. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) To prepare iron ore containing siliceous gangue for smelting a watery pulp of crushed iron ore is conditioned with hydrated lime to establish a pulp with a pH of at least 11. The pulp is then deslimed with fresh water and lye to secure a pulp as alkaline as pH 10, and a vegetable tannin extract such as quebracho then added. The pulp is then subjected to agitation and aeration in the presence of tallol, oleic acid or any other anion active collecting agent. The siliceous gangue is thus floated and the reduced iron ore settles so that it can be removed for smelting. Group 32—95. Reg. No. 5,631.

Regulations under which licenses are granted are issued by the Secretary of the Interior. Applications for licenses should be made to the Solicitor, Department of the Interior, Washington 25, D. C.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF FEBRUARY 20, 1905

OFFICIAL GAZETTE, MAY 20, 1947

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429,753. COAL. White Oak Coal Company, Mount Hope, W. Va., assignor to The New River Company, Mount Hope, W. Va., a corporation of West Virginia.
Filed July 30, 1942. Serial No. 454,617. PUBLISHED MARCH 4, 1947. Class 1.

429,754. COAL. White Oak Coal Company, Mount Hope, W. Va., assignor to The New River Company, Mount Hope, W. Va., a corporation of West Virginia.
Filed August 5, 1942. Serial No. 454,750. PUBLISHED MARCH 4, 1947. Class 1.

429,755. MEN'S AND YOUNG MEN'S TOPCOATS AND OVERCOATS. Jacob Siegel Company, Philadelphia, Pa.
Filed February 19, 1944. Serial No. 467,576. PUBLISHED NOVEMBER 20, 1945. Class 39.

429,756. ELECTRICALLY OPERATED PHONOGRAPHS OF THE DOMESTIC TYPE AND PARTS THEREOF, SUCH PARTS BEING ELECTRIC MOTORS, ELECTRIC AUTOMATIC RECORD CHANGERS AND ELECTRIC AUTOMATIC PHONOGRAPH RECORDERS. The General Industries Company, Elyria, Ohio.
Filed April 4, 1944. Serial No. 469,006. PUBLISHED AUGUST 22, 1944. Class 21.

429,757. ROTARY MOUNTING PLATES FOR MAKING ANGULAR MEASUREMENT. Machine Products Corporation, Detroit, Mich.
Filed April 8, 1944. Serial No. 469,162. PUBLISHED JANUARY 15, 1946. Class 26.

429,758. MEN'S AND LADIES' PAJAMAS AND NIGHT ROBES. Kaylon Incorporated, New York, N. Y.
Filed May 4, 1944. Serial No. 469,934. PUBLISHED DECEMBER 3, 1946. Class 39.

429,759. RODS, TUBES AND PARTLY PREPARED ARTICLES CONSISTING OF BENDABLE NON-METALLIC MATERIALS, ETC. Industrial Synthetics Corporation, Irvington, N. J.
Filed June 16, 1944. Serial No. 471,308. PUBLISHED AUGUST 7, 1945. Class 1.

429,760. MEN'S, WOMEN'S, BOYS' AND GIRLS' OVERALLS, JUMPERS, WORK JACKETS, WORK SHIRTS, WORK PANTS, ETC. Blue Bell, Inc., Greensboro, N. C.
Filed July 20, 1944. Serial No. 472,413. PUBLISHED MARCH 4, 1947. Class 39.

429,761. LADIES', MISSES', AND GIRLS' DRESSES, SLIPS, PLAYSUITS, BLOUSES, AND APRONS. The Meadtex Fabrics Co., New York, N. Y.
Filed October 6, 1944. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 475,009. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,762. DENTAL MATERIALS USED TO REBASE, LINE, RELINE, OR CORRECT FULL AND PARTIAL ARTIFICIAL DENTURES. Coralite Dental Products Company, Chicago, Ill.
Filed October 12, 1944. Serial No. 475,247. PUBLISHED DECEMBER 5, 1944. Class 44.

429,763. ROLL ROOFING COMPOSED OF A RAG FELT BASE SATURATED WITH ASPHALT FLUX OILS AND COATED WITH ASPHALT, PLASTER BOARD, CAULKING COMPOUND AND LOOSE ROCK WOOL FOR THERMAL INSULATION PURPOSES. Hill-Behan Lumber Company, St. Louis, Mo.
Filed October 30, 1944. Serial No. 475,849. PUBLISHED MARCH 4, 1947. Class 12.

429,764. CHILDREN'S DRESSES AND FROCKS. Jacobs, Grossman and Rosenberg, Inc., Philadelphia, Pa.
Filed December 12, 1944. Serial No. 477,354. PUBLISHED MAY 28, 1946. Class 39.

429,765. WINES. Roma Wine Company, New York, N. Y., and Fresno, Calif., assignor to Schenley Distillers Corporation, New York, N. Y., a corporation of Delaware.
Filed December 15, 1944. Serial No. 477,623. PUBLISHED JANUARY 21, 1947. Class 47.

429,766. WINES. Roma Wine Company, New York, N. Y., and Fresno, Calif., assignor to Schenley Distillers Corporation, New York, N. Y., a corporation of Delaware.
Filed December 15, 1944. Serial No. 477,626. PUBLISHED FEBRUARY 18, 1947. Class 47.

429,767. FROZEN FOODS AND FOOD PRODUCTS—NAMELY, FROZEN FRESH FRUITS TO WIT, PEACHES, APPLES, APRICOTS, BERRIES, CHERRIES, FROZEN FRESH VEGETABLES TO WIT, ASPARAGUS, BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER, COLLARDS, CORN, GREEN BEANS, KALE, LIMA BEANS, PEAS, PEAS AND CARROTS, PUMPKIN, SPINACH, SQUASH, SUCCOTASH, TURNIP GREENS, WAX BEANS, BEETS, CARROTS AND MIXED VEGETABLES, ETC. Frozen Food Products, Inc., New York, N. Y.
Filed February 14, 1945. Serial No. 479,790. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,768. ELECTRICAL TRANSCRIPTIONS IN THE FORM OF PLASTIC DISC SOUND RECORDS. World Broadcasting System, Inc., New York, N. Y.
Filed February 16, 1945. Serial No. 479,909. PUBLISHED FEBRUARY 18, 1947. Class 21.

429,769. FOOD FLAVORING EXTRACTS. Whitehall Food Mfg. Corp., Brooklyn, N. Y.
Filed February 17, 1945. Serial No. 479,961. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,770. MEN'S, WOMEN'S, BOYS', AND GIRLS' OVERALLS, JUMPERS, WORK JACKETS, WORK SHIRTS, ETC. Blue Bell, Inc., Greensboro, N. C.
Filed March 8, 1945. Serial No. 480,643. PUBLISHED JULY 24, 1945. Class 39.

429,771. ALCOHOLIC BEVERAGES—NAMELY, CORDIALS, LIQUEURS, AND FLAVORED BRANDY. Crown Cordial Company, Detroit, Mich.
Filed April 25, 1945. Serial No. 482,565. PUBLISHED DECEMBER 17, 1946. Class 49.

429,772. CARBONATED NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FLAVORING THEREFOR. Seminole Flavor Company, Chattanooga, Tenn.
Filed May 8, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 483,118. PUBLISHED JANUARY 21, 1947. Class 45.

429,773. HOSIERY. Phoenix Hosiery Company, Milwaukee, Wis.
Filed May 31, 1945. Serial No. 484,030. PUBLISHED JANUARY 14, 1947. Class 39.

429,774. WOMEN'S AND CHILDREN'S SNOW SUITS, MADE OF WOOL, RAYON, AND COTTON, WHOLE OR IN COMBINATION. North Shore Manufacturing Company, Duluth, Minn.
Filed June 11, 1945. Serial No. 484,422. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,775. CORRESPONDENCE ENVELOPES. Carpenter Paper Company, Omaha, Nebr.

Filed June 18, 1945. Serial No. 484,666. PUBLISHED MARCH 4, 1947. Class 37.

429,776. ELECTRONIC HIGH FREQUENCY GENERATORS FOR HEATING DIELECTRIC MATERIALS. Radio Receptor Company, Inc., New York, N. Y.

Filed July 17, 1945. Serial No. 485,922. PUBLISHED SEPTEMBER 10, 1946. Class 21.

429,777. APPLICATORS FOR PLACING MEASURED DOSAGES OF MEDICATION IN VARIOUS BODY CAVITIES. Durex Products, Incorporated, New York, N. Y.

Filed July 19, 1945. Serial No. 485,990. PUBLISHED MARCH 4, 1947. Class 44.

429,778. CANDY. Robert Young, doing business as The Frances Willard Candy Company, Columbus, Ohio.

Filed July 23, 1945. Serial No. 486,187. PUBLISHED DECEMBER 25, 1945. Class 46.

429,779. FUR COATS, FUR CAPES, FUR SCARFS, FUR MUFFS, AND FUR SUITS. Jack Rubel, New York, N. Y.

Filed July 25, 1945. Serial No. 486,277. PUBLISHED MARCH 4, 1947. Class 39.

429,780. ELECTRONIC CONTROL APPARATUS FOR REGULATING VOLTAGE, SPEED AND FREQUENCY OF ELECTRICAL GENERATORS AND MOTORS. Submarine Signal Company, Boston, Mass., now by change of name Raytheon Manufacturing Company, assignor to Submarine Signal Company, Boston, Mass., a corporation of Delaware.

Filed July 28, 1945. Serial No. 486,439. PUBLISHED MARCH 4, 1947. Class 21.

429,781. RADIO RECEIVING SETS, INTERCOMMUNICATING RADIO APPARATUS FOR HOMES AND OFFICES, ETC. Sentinel Radio Corporation, Evanston, Ill.

Filed August 4, 1945. Serial No. 486,726. PUBLISHED MARCH 4, 1947. Class 21.

429,782. REMOTE-READING MICROMETERS. Foster M. Poole, doing business as Poole Manufacturing Engineers, Dallas, Tex.

Filed August 31, 1945. Serial No. 487,862. PUBLISHED FEBRUARY 25, 1947. Class 26.

429,783. NON-ELECTRIC HAIR CURLERS. American Beauty Aids Mfg. Co. Inc., New York, N. Y.

Filed September 17, 1945. Serial No. 488,559. PUBLISHED MARCH 4, 1947. Class 40.

429,784. HOSIERY. National Hosiery Mills, Inc., Indianapolis, Ind.

Filed September 18, 1945. Serial No. 488,660. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,785. HOSIERY. National Hosiery Mills, Inc., Indianapolis, Ind.

Filed September 18, 1945. Serial No. 488,661. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,786. HOSIERY. National Hosiery Mills, Inc., Indianapolis, Ind.

Filed September 18, 1945. Serial No. 488,664. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,787. MEN'S WEARING APPAREL—NAMELY, SUITS, TOPCOATS, OVERCOATS, SPORT COATS, SLACKS, TUXEDOS, ETC. Ben Russell Inc., New York, N. Y.

Filed September 20, 1945. Serial No. 488,776. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,788. CANNED TOMATOES, GRAPEFRUIT JUICE, A BLEND OF GRAPEFRUIT AND ORANGE JUICES, TOMATO JUICE, AND TOMATO PURÉE. Bennett-Ray Canning Company, Pharr, Tex.

Filed September 26, 1945. Serial No. 488,988. PUBLISHED MARCH 4, 1947. Class 46.

429,789. FLUORESCENT LAMPS. Duro-Test Corporation, North Bergen, N. J.

Filed October 2, 1945. Serial No. 489,259. PUBLISHED FEBRUARY 25, 1947. Class 21.

429,790. POWDER PUFFS. Columbia Products Corporation, Brooklyn, N. Y.

Filed October 3, 1945. Serial No. 489,315. PUBLISHED FEBRUARY 25, 1947. Class 29.

429,791. AUTOMATIC ARC WELDING HEADS AND FIXTURES. The Auto Arc-Weld Manufacturing Co., Cleveland, Ohio.

Filed October 15, 1945. Serial No. 489,930. PUBLISHED MARCH 4, 1947. Class 21.

429,792. CANDY. Imported Delicacies Co., New York, N. Y., assignor to Imported Delicacies Co., Inc., New York, N. Y.

Filed October 15, 1945. Serial No. 489,964. PUBLISHED FEBRUARY 11, 1947. Class 46.

429,793. EQUIPMENT FOR DRY CLEANING AND COMMERCIAL LAUNDRY—NAMELY, VALVES, SPOTTING GUNS FOR SPOTTING CLOTHES WITH STEAM, ETC. Ernest L. Chrisman, doing business as E. L. Chrisman Company, Los Angeles, Calif.

Filed October 22, 1945. Serial No. 490,285. PUBLISHED MARCH 4, 1947. Class 24.

429,794. WOMEN'S AND MISSES' SUITS, COATS, AND RAINCOATS. The Ellis Coat Co., Inc., Manchester, Conn.

Filed October 22, 1945. Serial No. 490,299. PUBLISHED JUNE 25, 1946. Class 39.

429,795. SPONGE RUBBER. The Sponge Rubber Products Company, Shelton, Conn.

Filed October 22, 1945. Serial No. 490,338. PUBLISHED MAY 7, 1946. Class 1.

429,796. GOLF CLUBS. John J. Jakosky, Los Angeles, Calif.

Filed November 1, 1945. Serial No. 490,886. PUBLISHED FEBRUARY 25, 1947. Class 22.

429,797. GUMMED PAPER TAPE AND GUMMED CLOTH TAPE FOR GENERAL USE. General Gummed Products, Inc., New York and Richmond Hill, Long Island, N. Y.

Filed November 15, 1945. Serial No. 491,641. PUBLISHED MARCH 4, 1947. Class 5.

429,798. HEATING APPARATUS PARTICULARLY GAS BURNERS OF THE TYPE USED IN FIREPLACE HEATERS AND HEATING STOVES, SUCH AS ROOM HEATERS. Elbert E. Oyster, doing business as Guardian Appliance Company, East Cleveland, Ohio.

Filed November 17, 1945. Serial No. 491,767. PUBLISHED APRIL 23, 1946. Class 34.

429,799. ELECTRIC FLATIRONS. Spiegel, Inc., Chicago, Ill.

Filed November 27, 1945. Serial No. 492,287. PUBLISHED FEBRUARY 25, 1947. Class 21.

429,800. CHILDREN'S SWEATERS. Majestic Knitting Mills, New York, N. Y., assignor to Majestic Knitting Mills, Incorporated, New York, N. Y.

Filed November 28, 1945. Serial No. 492,411. PUBLISHED OCTOBER 1, 1946. Class 39.

429,801. PARTLY PREPARED SPONGE RUBBER PADDING, SHEETS, AND BLOCKS OF SPONGE RUBBER, AND RUBBER SUBSTITUTES (USED IN THE FURTHER FABRICATION OF COMPLETED ARTICLES). The Firestone Tire & Rubber Company, Akron, Ohio.

Filed November 30, 1945. Serial No. 492,433. PUBLISHED SEPTEMBER 24, 1946. Class 1.

429,802. FLEXIBLE WAVERS AND CURLERS NOT ELECTRICAL. Ryan Distributing Corporation, Brookline, Mass.

Filed November 30, 1945. Serial No. 492,468. PUBLISHED MARCH 4, 1947. Class 40.

429,803. SAFETY SEAL CAPS AND PARTS THEREOF, SHIPPING CASE SEALS, SAFETY SEALS FOR SECURING GOODS OF ANY DESCRIPTION AGAINST TAMPERING, ETC. Stoffel Sales Company, Inc., New York, N. Y.

Filed December 1, 1945. Serial No. 492,530. PUBLISHED FEBRUARY 18, 1947. Class 25.

429,804. FANCY WRAPPING PAPER AND FOIL WRAPPING PAPER SOLD IN SHEET AND ROLL FORM. Gift Wrappings, Inc., New York, N. Y.

Filed December 22, 1945. Serial No. 493,759. PUBLISHED MARCH 4, 1947. Class 37.

429,805. CORRESPONDENCE PAPER AND ENVELOPES. United States Envelope Company, doing business under the name and style of one of its divisions, P. P. Kellogg & Co., Springfield, Mass.

Filed December 26, 1945. Serial No. 493,902. PUBLISHED MARCH 4, 1947. Class 37.

429,806. MEN'S, WOMEN'S, AND CHILDREN'S ONE PIECE PAJAMAS, TWO PIECE PAJAMA SUITS, NIGHTSHIRTS, AND NIGHTGOWNS. Herbert Levenson, New York, N. Y.

Filed December 29, 1945. Serial No. 494,089. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,807. THERMOSTATIC APPARATUS, CONSISTING OF A STEAM PIPE LEADING TO A THERMOSTAT AND A HEAT CONTROLLER, ETC. Evelyn Edwin Griffiths, Willaston, Wirral, England.

Filed January 8, 1946. Serial No. 494,444. PUBLISHED MARCH 4, 1947. Class 26.

429,808. TOY BUBBLE KITS CONSISTING OF A BUBBLE FORMING LIQUID AND A WAND FOR MAKING BUBBLES. William E. Albright, doing business as Bubalot Company, Chicago, Ill.

Filed January 9, 1946. Serial No. 494,476. PUBLISHED MARCH 4, 1947. Class 22.

429,809. SURGICAL SUTURES. Gudebrod Brothers Silk Company, Incorporated, doing business as Gudebrod Bros. Silk Co., Incorporated, Philadelphia, Pa.

Filed January 12, 1946. Serial No. 494,674. PUBLISHED MARCH 4, 1947. Class 44.

429,810. DOLLS. Gardel Industries, New York, N. Y.

Filed January 16, 1946. Serial No. 494,834. PUBLISHED MARCH 4, 1947. Class 22.

429,811. DOLLS. Gardel Industries, New York, N. Y.

Filed January 16, 1946. Serial No. 494,835. PUBLISHED MARCH 11, 1947. Class 22.

429,812. BRASSIÈRES AND BANDEAUX. Even-Pul Foundations, Inc., New York, N. Y.

Filed January 18, 1946. Serial No. 494,965. PUBLISHED MARCH 4, 1947. Class 39.

429,813. RADIO RECEIVING SETS. The Hallicrafters Co., Chicago, Ill.

Filed January 25, 1946. Serial No. 495,381. PUBLISHED FEBRUARY 25, 1947. Class 21.

429,814. CORRUGATED ASBESTOS SHEETS USED FOR ROOFING AND SIDING, ASBESTOS CEMENT FLAT SHEETS, AND ASBESTOS SHINGLES FOR ROOFING AND SIDING. R. J. Dorn Company, New Orleans, La., assignor to Asbestone Corporation, New Orleans, La., a corporation of Louisiana.

Filed January 29, 1946. Serial No. 495,597. PUBLISHED MARCH 4, 1947. Class 12.

429,815. FUR COATS, JACKETS, AND SCARVES. Sol Raphael, Inc., New York, N. Y.

Filed January 30, 1946. Serial No. 495,691. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,816. ABDOMINAL SUPPORTERS USED FOR THERAPEUTIC PURPOSES, HOT WATER BOTTLES, CATAMENIAL BANDAGES, SANITARY NAPKINS, ETC. Arkwright, Incorporated, New York, N. Y.

Filed February 2, 1946. Serial No. 495,856. PUBLISHED MARCH 11, 1947. Class 44.

429,817. UPPER LEATHER. Beggs & Cobb, Incorporated, Boston, Mass.

Filed February 4, 1946. Serial No. 495,948. PUBLISHED MARCH 4, 1947. Class 1.

429,818. UPPER LEATHER. Beggs & Cobb, Incorporated, Boston, Mass.

Filed February 7, 1946. Serial No. 496,127. PUBLISHED MARCH 4, 1947. Class 1.

429,819. LADIES' AND YOUNG LADIES' DRESSES, SUITS, SKIRTS, BLOUSES, JACKETS, AND COATS. Paul M. Yampol, doing business as Jane Juniors, New York, N. Y.

Filed February 8, 1946. Serial No. 496,291. PUBLISHED FEBRUARY 11, 1947. Class 39.

429,820. GAFF HOOKS FOR FISHING. Roslund Mfg. Co., Tonawanda, N. Y.

Filed February 15, 1946. Serial No. 496,666. PUBLISHED FEBRUARY 25, 1947. Class 22.

429,821. MEN'S, WOMEN'S, BOYS' AND GIRLS' OUTER GARMENTS—NAMELY, SAILOR SUITS, BLOUSES, COATS, VESTS, ETC. Carmine Addesso, doing business as Subway Tailors, San Diego, Calif.

Filed February 19, 1946. Serial No. 496,880. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,822. SKATE WHEELS. Howard Manufacturing Corporation, Council Bluffs, Iowa.

Filed February 20, 1946. Serial No. 496,966. PUBLISHED MARCH 4, 1947. Class 22.

429,823. GUM MASSAGING ATTACHMENTS FOR TOOTHBRUSHES. Pycopé, Inc., Jersey City, N. J.

Filed February 20, 1946. Serial No. 496,981. PUBLISHED MARCH 4, 1947. Class 44.

429,824. COTTON PLANTING SEED. T. A. Gibson, doing business as Gibco Delta Pedigreed Seed Co., England, Ark.

Filed February 26, 1946. Serial No. 497,238. PUBLISHED MARCH 4, 1947. Class 1.

429,825. COTTON PLANTING SEED. T. A. Gibson, doing business as Gibco England Pedigreed Seed Co., England, Ark.

Filed February 26, 1946. Serial No. 497,239. PUBLISHED MARCH 4, 1947. Class 1.

429,826. UPPER LEATHER. Beggs & Cobb, Incorporated, Boston, Mass.

Filed March 1, 1946. Serial No. 497,445. PUBLISHED MARCH 4, 1947. Class 1.

429,827. MEN'S SHIRTS AND TROUSERS. Thomson Company, Thomson, Ga.

Filed March 1, 1946. Serial No. 497,509. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,828. APPARATUS FOR PRODUCING HIGH FREQUENCY ELECTRIC CURRENTS AND HIGH FREQUENCY ELECTRIC AND MAGNETIC FIELDS AND APPARATUS FOR UTILIZING SUCH CURRENTS AND FIELDS IN THE HEATING OR OTHER TREATMENT OF MATERIALS. The Girdler Corporation, Louisville, Ky.

Filed March 8, 1946. Serial No. 497,855. PUBLISHED MARCH 4, 1947. Class 21.

429,829. BABY BATH ROBES, BUNTINGS, SLEEPING ROBES, BOOTEE SETS, JACKETS, FLANNELETTE SLEEPING GARMENTS, NIGHTGOWNS, OVERALLS, PAJAMAS, DIAPERS, AND LAYETTES. Famous Bathrobe Co., Inc., New York, N. Y.

Filed March 9, 1946. Serial No. 497,927. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,830. DOLL WIGS. Meyer Jacoby, New York, N. Y.

Filed March 13, 1946. Serial No. 498,144. PUBLISHED MARCH 4, 1947. Class 22.

429,831. FRUIT JELLIES, FRUIT JAMS, FRUIT PRESERVES, AND MINCE MEAT. Old Virginia Packing Company, Inc., Front Royal, Va.

Filed March 14, 1946. Serial No. 498,248. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,832. NATURAL FLOWERS—NAMELY, ORCHIDS AND GARDENIAS. Elmhurst Flower Growers, Inc., Elmhurst, Ill.

Filed March 16, 1946. Serial No. 498,343. PUBLISHED MARCH 4, 1947. Class 1.

429,833. NATURAL FLOWERS—NAMELY, ORCHIDS AND GARDENIAS. Elmhurst Flower Growers, Inc., Elmhurst, Ill.

Filed March 16, 1946. Serial No. 498,344. PUBLISHED MARCH 4, 1947. Class 1.

429,834. PROJECTING APPARATUS FOR SLIDES AND STRIP FILM, MOTION PICTURE FILM FOR PROJECTORS, ETC. Viz, Inc., Wichita, Kans.

Filed March 25, 1946. Serial No. 498,960. PUBLISHED MARCH 4, 1947. Class 26.

429,835. LIGHT INTENSITY MEASURING APPARATUS AND TIME SWITCHES FOR PHOTOGRAPHIC ENLARGERS. Simmon Brothers, Inc., Long Island City, N. Y.

Filed April 4, 1946. Serial No. 499,665. PUBLISHED FEBRUARY 25, 1947. Class 26.

429,836. MACHINE FOR DRYING ENGRAVED STATIONERY AND INCLUDING AN ELECTRICALLY HEATED OVEN, ETC. The Cronite Co., Inc., New York, N. Y.

Filed April 6, 1946. Serial No. 499,768. PUBLISHED FEBRUARY 18, 1947. Class 21.

429,837. CULTURE PREPARATION, THE PRINCIPAL INGREDIENTS OF WHICH ARE FLOUR, BUTTER, BUTTERMILK, WATER, SYRUP, MONO CALCIUM PHOSPHATE AND SODIUM BICARBONATE, CERELOSE, SALT, NON-FAT DRY MILK SOLIDS AND YEAST, AND THE PRODUCT IS ADDED TO BATCHES OF BAKERY GOODS, IN WHICH FLOUR IS THE PRINCIPAL INGREDIENT, TO IMPROVE THE QUALITY AND TEXTURE OF THE BAKERY GOODS MADE THEREFROM. Bro-Lite Company, Chicago, Ill.

Filed April 12, 1946. Serial No. 500,053. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,838. UPPER LEATHER. Beggs & Cobb, Incorporated, Boston, Mass.

Filed April 15, 1946. Serial No. 500,204. PUBLISHED MARCH 4, 1947. Class 1.

429,839. JANITORIAL SUPPLIES—NAMELY, BROOMS, MOPS, FLOOR AND FURNITURE BRUSHES, AND FEATHER DUSTERS. Dohrmann Hotel Supply Co., San Francisco, Calif.

Filed April 23, 1946. Serial No. 500,745. PUBLISHED MARCH 4, 1947. Class 29.

429,840. BATH AND LOUNGING ROBES. Auerbach Bath Robe Corp., New York, N. Y.

Filed April 26, 1946. Serial No. 500,938. PUBLISHED FEBRUARY 4, 1947. Class 39.

429,841. WALL SIZE IN POWDERED FORM PREPARED FROM STARCH. The Keever Starch Company, Columbus, Ohio.

Filed April 26, 1946. Serial No. 500,985. PUBLISHED OCTOBER 8, 1946. Class 5.

429,842. TOOTHBRUSHES. I. Sekine Company, Inc., New York, N. Y.

Filed April 26, 1946. Serial No. 501,014. PUBLISHED MARCH 4, 1947. Class 29.

429,843. CHILDREN'S DRESSES. Jack Spiro & Co., Inc., New York, N. Y.

Filed April 26, 1946. Serial No. 501,022. PUBLISHED FEBRUARY 4, 1947. Class 39.

429,844. MEN'S AND BOYS' SUITS, TROUSERS, VESTS, AND SLACKS. Harbor Hills Sportswear, Inc., New York, N. Y.

Filed April 30, 1946. Serial No. 501,182. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,845. ELECTRIC LAMPS. Beth Weissman, New York, N. Y.

Filed May 3, 1946. Serial No. 501,426. PUBLISHED MARCH 4, 1947. Class 21.

429,846. DRESSES FOR WOMEN AND YOUNG WOMEN. Phil Schachter Dress Corp., New York, N. Y.

Filed May 8, 1946. Serial No. 501,688. PUBLISHED NOVEMBER 12, 1946. Class 39.

429,847. OLIVE OIL, BOTTLED PEPPERS, BOTTLED PIMENTOS, OLIVES, MARASCHINO CHERRIES, AND BOTTLED BELL PEPPERS. L. and S. Packing Co., Inc., Long Island City, N. Y.

Filed May 9, 1946. Serial No. 501,745. PUBLISHED MARCH 4, 1947. Class 46.

429,848. MEN'S, WOMEN'S, AND CHILDREN'S WEARING APPAREL—NAMELY, POLO SHIRTS, BLOUSES, PAJAMAS, PANTIES, CREEPERS, AND KNIT SUITS. Texite, Inc., New York, N. Y.

Filed May 17, 1946. Serial No. 502,346. PUBLISHED JANUARY 1947. Class 39.

429,849. FOUNTAIN PENS. Tex-Rite Products Co., Detroit, Mich.

Filed May 17, 1946. Serial No. 502,348. PUBLISHED MARCH 4, 1947. Class 37.

429,850. ICE CREAM MIX, THE PRINCIPAL INGREDIENTS OF WHICH ARE BUTTER FAT, MILK SOLIDS OTHER THAN BUTTER FAT, SUGAR, STABILIZER, EGG YOLKS AND EMULSIFIERS, FLAVORING AND MOISTURE. Master Industries, Inc., New York, N. Y.

Filed May 18, 1946. Serial No. 502,386. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,851. WORK, DRESS, AND SPORT SHIRTS AND BLOUSES FOR MEN, YOUNG MEN, AND BOYS AND FOR LADIES, MISSES, AND YOUNG GIRLS. Onyx Blouse Co., Inc., New York, N. Y.

Filed May 18, 1946. Serial No. 502,401. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,852. RADIO TRANSMITTING SETS AND/OR RADIO RECEIVING SETS AND PARTS THEREFOR. Sidney Rock, New York, N. Y.

Filed May 22, 1946. Serial No. 502,597. PUBLISHED FEBRUARY 25, 1947. Class 21.

429,853. CORN CHIPS. James P. Bush, doing business as Bush & Long Potato Chip Co., El Paso, Tex.

Filed May 23, 1946. Serial No. 502,620. PUBLISHED MARCH 4, 1947. Class 46.

429,854. ARCHERY EQUIPMENT—NAMELY, BOWS; AND FISHING TACKLE USED FOR FISHING THROUGH A HOLE IN ICE, AND COMPRISING A BASE ADAPTED TO REST ON THE ICE OR OTHER SUPPORT, WITH A POLE AND FISHING LINE DETACHABLY CONNECTED TO THE BASE. Metal-Lite Products Specialty Manufacturing Company, Bay City, Mich., assignor to Metal-Lite Products Co., Bay City, Mich.

Filed May 23, 1946. Serial No. 502,652. PUBLISHED FEBRUARY 25, 1947. Class 22.

429,855. MEN'S, WOMEN'S, BOYS', AND GIRLS' RAINHATS. Ad Reinsberg, doing business as Ad Reinsberg Company, Chicago, Ill.

Filed May 24, 1946. Serial No. 502,713. PUBLISHED JANUARY 14, 1947. Class 39.

429,856. CORSETS, BRASSIÈRES, GIRDLES, AND FOUNDATIONS. Fondé Youth, Jamaica, N. Y.

Filed May 28, 1946. Serial No. 502,889. PUBLISHED FEBRUARY 4, 1947. Class 39.

429,857. WORK PANTS, JACKETS, DUNGAREES, COVERALLS, WORK UNIFORMS, AND WORK SHIRTS. Rombro Brothers Inc., Baltimore, Md.

Filed May 29, 1946. Serial No. 503,003. PUBLISHED JANUARY 14, 1947. Class 39.

429,858. SOUND MOTION PICTURES. Castle Films, Inc., New York, N. Y.

Filed June 3, 1946. Serial No. 503,186. PUBLISHED FEBRUARY 25, 1947. Class 26.

429,859. WOMEN'S, MISSES', AND GIRLS' BLOUSES. Sidele Fashions, Inc., Philadelphia, Pa.

Filed June 8, 1946. Serial No. 503,533. PUBLISHED JANUARY 14, 1947. Class 39.

429,860. CIGARS. Primate Cigar Co., Brooklyn, N. Y.

Filed June 12, 1946. Serial No. 503,753. PUBLISHED MARCH 4, 1947. Class 17.

429,861. CHINA ELECTRIC TABLE LAMPS. Norman Mfg. Co., Inc., New York, N. Y.

Filed June 13, 1946. Serial No. 503,827. PUBLISHED FEBRUARY 25, 1947. Class 21.

429,862. MISSES' DRESSES. Vingeorge Fashions, Inc., New York, N. Y.

Filed June 15, 1946. Serial No. 504,015. PUBLISHED JANUARY 7, 1947. Class 39.

429,863. SMALL TABLE MODEL RADIO RECEIVING SET. Hoffman Radio Corporation, Los Angeles, Calif.

Filed June 17, 1946. Serial No. 504,046. PUBLISHED FEBRUARY 25, 1947. Class 21.

429,864. ELECTRIC IMMERSION WATER HEATERS. Acme Laboratory Equipment Co., New York, N. Y.

Filed June 18, 1946. Serial No. 504,083. PUBLISHED FEBRUARY 18, 1947. Class 21.

429,865. COATS AND SUITS FOR MISSES AND WOMEN. Braff, Leidner & Eisenstadt, New York, N. Y.

Filed June 18, 1946. Serial No. 504,087. PUBLISHED JANUARY 7, 1947. Class 39.

429,866. SPONGE MOPS. Ronald Gage Davis, doing business as The Spartan Company, Minneapolis, Minn.

Filed June 19, 1946. Serial No. 504,161. PUBLISHED MARCH 4, 1947. Class 29.

429,867. ELECTRICALLY LIGHTED WALL PLATES FOR SWITCHES. James L. Fouch, doing business as Universal Microphone Company, Inglewood, Calif.

Filed June 19, 1946. Serial No. 504,171. PUBLISHED FEBRUARY 18, 1947. Class 21.

429,868. BRACES AND SUSPENDERS. Pioneer Suspender Company, Philadelphia, Pa.

Filed June 19, 1946. Serial No. 504,207. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,869. FRESH CITRUS FRUITS—NAMELY, GRAPEFRUIT, FRESH VEGETABLES—NAMELY, TOMATOES AND CANNED CITRUS JUICES—NAMELY, GRAPEFRUIT JUICE FOR FOOD PURPOSES. Braden & Company, Mission, Tex.

Filed June 21, 1946. Serial No. 504,323. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,870. SUNGLASSES, EYEGLASSES, SPECTACLES AND PARTS THEREOF, INCLUDING LENSES. Comptone Company, Ltd., New York, N. Y.

Filed June 21, 1946. Serial No. 504,332. PUBLISHED MARCH 4, 1947. Class 26.

429,871. LADIES' BLOUSES, APRONS, SCARFS, PAJAMAS, PLAYSUITS, SKIRTS, AND HOUSECOATS. Associated Products, Inc., Chicago, Ill.

Filed June 22, 1946. Serial No. 504,419. PUBLISHED JANUARY 7, 1947. Class 39.

429,872. WASH DRESSES FOR WOMEN, MISSES, AND GIRLS. Bellmore Dress Co. Inc., New Brunswick, N. J.

Filed June 22, 1946. Serial No. 504,425. PUBLISHED FEBRUARY 11, 1947. Class 39.

429,873. APPAREL BELTS. Stelzer Bros. Inc., New York, N. Y.

Filed June 22, 1946. Serial No. 504,457. PUBLISHED JANUARY 21, 1947. Class 39.

429,874. LADIES' DRESSES, COATS, COSTUMES, BLOUSES, SWEATERS, SCARFS, AND APPAREL BELTS. Stiassny, Ltd., London, England.

Filed June 25, 1946. Serial No. 504,587. PUBLISHED FEBRUARY 11, 1947. Class 39.

429,875. MILK AND CREAM. Irvindale Farms, Inc., Atlanta, Ga.

Filed June 27, 1946. Serial No. 504,672. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,876. BRASSIÈRES, BANDEAUX, CORSETS, CORSELETS, PANTIES, PANTI-GIRDLES, GIRDLES, AND GARTER BELTS. Maiden Form Brassiere Company, Inc., New York, N. Y.

Filed June 27, 1946. Serial No. 504,681. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,877. WOMEN'S DRESSES. Well-Made Dress Company, Philadelphia, Pa.

Filed June 27, 1946. Serial No. 504,725. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,878. HOSIERY. Penn Hosiery Mills, Inc., Reading, Pa.

Filed July 1, 1946. Serial No. 504,927. PUBLISHED JANUARY 7, 1947. Class 39.

429,879. PREPARED FOODS—NAMELY, CANNED FISH, CANNED BERRIES, CANNED VEGETABLES, AND CANNED FRUIT JUICES FOR FOOD PURPOSES. John K. Waite, doing business as John K. Waite Co., Seattle, Wash.

Filed July 3, 1946. Serial No. 505,090. PUBLISHED FEBRUARY 25, 1947. Class 46.

429,880. WOMEN'S SUITS AND COATS. Nob Hill of California, San Francisco, Calif.

Filed July 6, 1946. Serial No. 505,161. PUBLISHED JANUARY 14, 1947. Class 39.

429,881. HOSIERY. Chester H. Roth Co., Inc., New York, N. Y.

Filed July 6, 1946. Serial No. 505,165. PUBLISHED JANUARY 21, 1947. Class 39.

429,882. MEN'S, BOYS', AND CHILDREN'S OUTER GARMENTS, CONSISTING OF COATS, VESTS, PANTS AND TROUSERS, ETC. Cohen, Goldman & Co. Inc., New York, N. Y.

Filed July 9, 1946. Serial No. 505,285. PUBLISHED JANUARY 21, 1947. Class 39.

429,883. MEN'S CASUAL AND PLAY SHOES. I. B. Kleinert Rubber Company, New York, N. Y.

Filed July 9, 1946. Serial No. 505,306. PUBLISHED MARCH 4, 1947. Class 39.

429,884. WOMEN'S, MEN'S, BOYS', MISSES' AND JUNIORS' SLACKS, SHORT SLACKS, LONG-SHORT SLACKS, PANTS, ETC. Davenshire, Incorporated, Davenport, Iowa.

Filed July 10, 1946. Serial No. 505,341. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,885. YARN. Viking Yarn Mills, Inc., Philadelphia, Pa.

Filed July 10, 1946. Serial No. 505,372. PUBLISHED MARCH 4, 1947. Class 43.

429,886. MISSES' AND WOMEN'S WASH DRESSES. Bellmore Dress Co. Inc., New Brunswick, N. J.

Filed July 11, 1946. Serial No. 505,386. PUBLISHED FEBRUARY 25, 1947. Class 39.

429,887. HOUSEHOLD BRUSHES—NAMELY, BATH BRUSHES, CLOTHES BRUSHES, DUST BRUSHES, FLOOR BRUSHES, ETC. A. G. Jacobus' Sons, Inc., Verona, N. J.

Filed July 11, 1946. Serial No. 505,417. PUBLISHED MARCH 4, 1947. Class 29.

429,888. HOUSEHOLD BRUSHES—NAMELY, BATH BRUSHES, CLOTHES BRUSHES, DUST BRUSHES, FLOOR BRUSHES, ETC. A. G. Jacobus' Sons, Inc., Verona, N. J.

Filed July 11, 1946. Serial No. 505,418. PUBLISHED MARCH 4 1947. Class 29.

429.889. MEN'S AND BOYS' PAJAMAS AND NIGHTSHIRTS. Universal Mfg. Co. Inc., New York, N. Y.

Filed July 11, 1946. Serial No. 505,460. PUBLISHED JANUARY 14, 1947. Class 39.

429,890. SENSITIZED PHOTOGRAPHIC FILM. General Aniline & Film Corporation, New York and Binghamton, N. Y.
Filed July 13, 1946. Serial No. 505,574. PUBLISHED MARCH 4, 1947. Class 26.

429,891. OPTICAL GOODS—NAMELY, LENSES, SPECTACLES, SUNGLASSES, EYE SHADES, AND PARTS THEREOF. Charles H. Foster, New York, N. Y.
Filed July 15, 1946. Serial No. 505,640. PUBLISHED MARCH 4, 1947. Class 26.

429,892. TEMPERATURE CONTROLLED CRYSTAL HOUSING UNITS FOR RADIO APPARATUS. Gasket Engineering Company, Inc., Kansas City, Mo.
Filed July 15, 1946. Serial No. 505,642. PUBLISHED FEBRUARY 18, 1947. Class 21.

429,893. HOSIERY. Vestal Mills, Incorporated, Athens, Tenn.
Filed July 15, 1946. Serial No. 505,674. PUBLISHED JANUARY 21, 1947. Class 39.

429,894. LADIES', MISSES', MEN'S, AND BOYS' POLO SHIRTS AND SWEATERS. Carl Gutmann & Co., Inc., New York, N. Y.
Filed July 16, 1946. Serial No. 505,701. PUBLISHED FEBRUARY 18, 1947. Class 39.

429,895. CANDIES. Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y.
Filed July 16, 1946. Serial No. 505,708. PUBLISHED MARCH 4, 1947. Class 46.

429,896. CANDIES. Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y.
Filed July 16, 1946. Serial No. 505,709. PUBLISHED MARCH 4, 1947. Class 46.

429,897. RADIO ANTENNAS. Snyder Manufacturing Company, Philadelphia, Pa.
Filed July 17, 1946. Serial No. 505,775. PUBLISHED FEBRUARY 25, 1947. Class 21.

429,898. ELECTRIC LIGHT FIXTURES. James R. Marsh, Essex Fells, N. J.
Filed July 11, 1946. Serial No. 505,939. PUBLISHED FEBRUARY 18, 1947. Class 21.

429,899. DENTAL ALLOY. William Nameroff, Philadelphia, Pa.
Filed July 20, 1946. Serial No. 505,977. PUBLISHED MARCH 11, 1947. Class 44.

429,900. VISCOSE RAYON YARN. The Hartford Rayon Corporation, Rocky Hill, Conn.
Filed July 30, 1946. Serial No. 506,524. PUBLISHED MARCH 4, 1947. Class 43.

429,901. WOMEN'S, MISSES', AND JUNIORS' DRESSES. Buck's Corporation, New York, N. Y.
Filed September 17, 1946. Serial No. 509,200. PUBLISHED FEBRUARY 11, 1947. Class 39.

429,902. SOAP BUBBLE BLOWERS. Sten Johanson, New York, N. Y.
Filed September 23, 1946. Serial No. 509,580. PUBLISHED FEBRUARY 25, 1947. Class 22.

429,903. TOY SAILS FOR TOY BOATS. Petoskey Tool and Engineering Company, Petoskey, Mich.
Filed October 26, 1946. Serial No. 511,573. PUBLISHED MARCH 4, 1947. Class 22.

429,904. CANNED PEAS AND CORN. Minnesota Valley Canning Company, Le Sueur, Minn.
Filed November 13, 1946. Serial No. 512,516. PUBLISHED MARCH 4, 1947. Class 46.

429,905. COMPACTS AND LIPSTICK CASES, MADE OF PLASTICS AND BASE METALS, SOLD EMPTY IN TRADE. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed December 10, 1946. Serial No. 513,961. PUBLISHED MARCH 11, 1947. Class 2.

429,906. ADHESIVES FOR HOUSEHOLD OR INDUSTRIAL USES MADE OF RESINOUS MATERIALS. RUBBER PRODUCTS, STARCHES, OR GLUES. Miracle Adhesives Corporation, Newark, N. J.
Filed December 19, 1946. Serial No. 514,556. PUBLISHED MARCH 4, 1947. Class 5.

429,907. UNFILLED LIPSTICK HOLDERS MADE OF PLASTIC MATERIALS. Associated Products, Inc., Chicago, Ill.
Filed December 23, 1946. Serial No. 514,680. PUBLISHED MARCH 11, 1947. Class 2.

429,908. ARTIFICIAL BAIT, FISH LURES, AND PARTS THEREOF. Sidney D. Short, doing business as National Metal Products, Detroit, Mich.
Filed December 23, 1946. Serial No. 514,716. PUBLISHED MARCH 11, 1947. Class 22.

429,909. RUBBER CEMENT. The Brunswick-Balke-Collender Company, Chicago, Ill.
Filed December 26, 1946. Serial No. 514,797. PUBLISHED MARCH 4, 1947. Class 5.

429,910. OPEN-MESH BAGS. Bemis Bro. Bag Company, St. Louis, Mo.
Filed January 9, 1947. Serial No. 515,480. PUBLISHED FEBRUARY 25, 1947. Class 2.

429,911. OPEN-MESH BAGS. Bemis Bro. Bag Company, St. Louis, Mo.
Filed January 9, 1947. Serial No. 515,481. PUBLISHED FEBRUARY 25, 1947. Class 2.

REISSUES

MAY 20, 1947

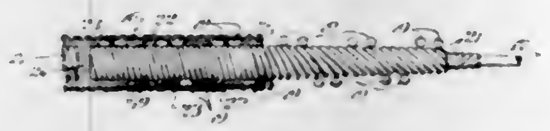
22,880

BONDED JOINT OR SECTION OF ELASTIC FABRIC

Dana E. Morrison, Kenilworth, and Paul F. Ziegler, Winnetka, Ill., assignors to The Kendall Company, Chicago, Ill., a corporation of Massachusetts

Original No. 2,380,365, dated July 10, 1945, Serial No. 340,008, June 12, 1940. Application for reissue June 21, 1946, Serial No. 678.206

19 Claims. (Cl. 128—159)



17. An athletic supporter including belt, pouch and leg-band sections of fabric at least the belt section of which is elastic fabric comprising non-elastic textile threads and elastic threads arranged among said non-elastic threads to form, in combination with said textile threads, an extensible structure, a butt joint of inverted V-shape between sections of said garment comprising a body of material thermo-adhesively bonded to and joining the ends of said belt section and the top portion of said pouch section edge to edge and pressed into the joint forming a matrix and rendering a portion of the elastic fabric adjacent and along said joint substantially non-elastic and free from internal changes such as normally occur in elastic fabric in the stretching and relaxing thereof, said leg-band sections connecting the bottom of the pouch section and respective side portions of said belt section.

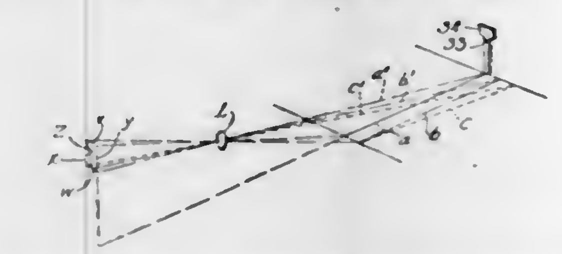
22,881

METHOD OF PHOTOGRAPHICALLY RECORDING THE ORDER OF PASSAGE OF MOVING OBJECTS

Lorenzo Del Riccio, Los Angeles, Calif., assignor of one-half to Kent Allen, Los Angeles, Calif.

Original No. 2,382,617, dated August 14, 1945, Serial No. 489,424, May 28, 1943, which is a division of Serial No. 262,891, March 20, 1939, now Patent No. 2,320,350, dated June 1, 1943. Application for reissue August 6, 1946, Serial No. 688,618

12 Claims. (Cl. 95—5)



7. The method of making a photographic record of contestants crossing a given line of a race upon a course, which comprises the steps of positioning a photographic camera to one side of and above said course with the optical axis of its objective in alignment with said given line, continuously projecting through said objective the images of said contestants upon a light sensitive surface in said camera and at the same time moving said sensitive surface in the same direction and at substantially the same speed as said images and masking the said sensitive surface so that the area of exposure thereof is continuously confined to a narrow strip extending transversely of the direction of movement of said sensitive surface which is in optical correspondence with the said given line and an area of said course adjoining said given line on only one side thereof.

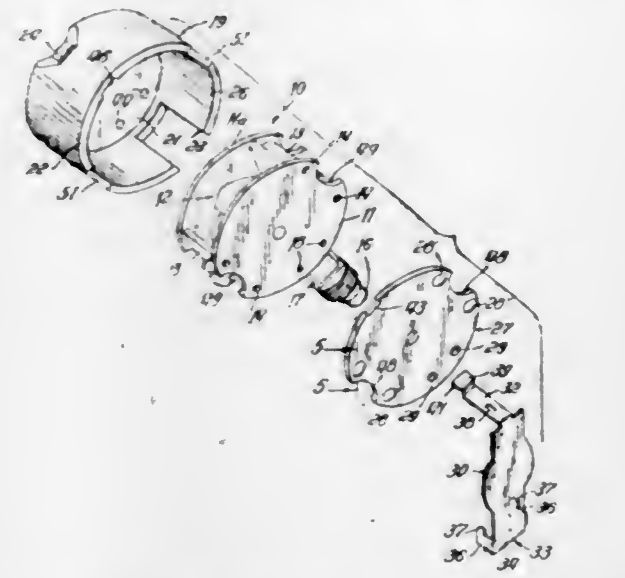
22,882

HOUSING FOR ELECTRIC SWITCHES

Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana

Original No. 2,368,679, dated February 6, 1945, Serial No. 433,657, March 6, 1942. Application for reissue March 14, 1945, Serial No. 582,614

15 Claims. (Cl. 200—168)



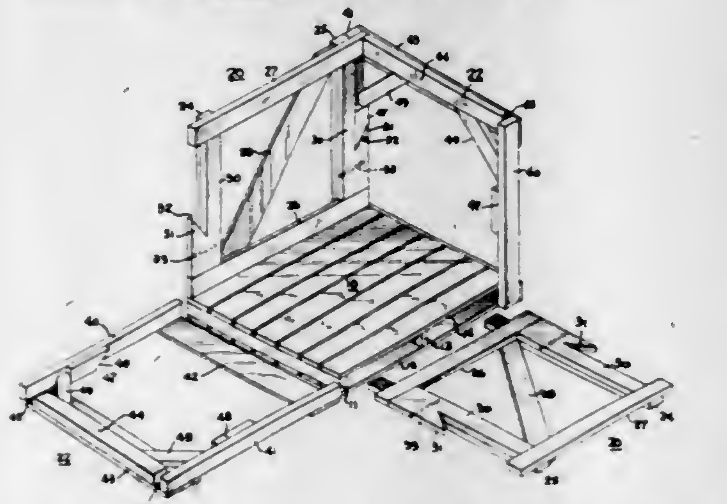
1. An insulating housing for a preassembled switch mechanism open at one side and having a catch portion on the inside thereof, said switch mechanism being insertable into said housing and having an insulating portion receivable within said open side to close the same when the mechanism is in position in the housing, and means carried on said switch mechanism for snap-engaging said housing to releasably retain the mechanism in the housing including a yieldable snap portion snapped into retaining position with said catch portion on insertion of said switch mechanism into said housing, and accessible on the outside of the housing for movement to release the mechanism from the housing for separation therefrom.

PATENTS

GRANTED MAY 20, 1947

2,420,640
DEMOUNTABLE PALLET CRIB

John J. Acteson, Auburn, Wash.
Application June 2, 1945, Serial No. 597,170
4 Claims. (Cl. 248—120)

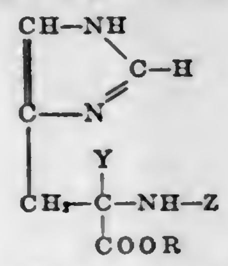


1. The combination with a pallet, of a demountable pallet crib, comprising: a pair of identical cheek frames, each including: a pair of first studs to stand alongside the edge but spaced inward from the corners of the pallet, a joist attached to the lower portions of said studs, said joist being coextensive with and to rest upon the pallet edge, means on each first stud forming a camming surface, and a tie member joining upper portions of the paired studs of each cheek frame; and a pair of identical end frames, each including: a post to stand at the corner of the pallet and alongside a stud of the cheek frame, a tie member to lie alongside the end of the pallet and secured to the lower ends of the posts of an end frame, a second tie member joining the upper ends of the posts of each frame, means forming a cam follower and carried by each post for interlocking cooperation with a camming surface of an adjacent stud, and at each upper corner of adjacent cheek and end frames interlocking means to prevent displacement of a cheek frame relative to an end frame.

2,420,641
PROCESS FOR PREPARING dl-HISTIDINE AND INTERMEDIATES THEREFOR

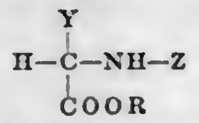
Noel F. Albertson, East Greenbush, and Sydney Archer, Albany, N. Y., assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 22, 1944, Serial No. 555,404
9 Claims. (Cl. 260—309)

5. A compound having the formula



where R is alkyl, Y is a member of the group consisting of cyano and carbalkoxy, and Z is lower aliphatic acyl.

8. A process for preparing dl-histidine which comprises condensing a 4-(halomethyl) imidazole with a compound having the formula

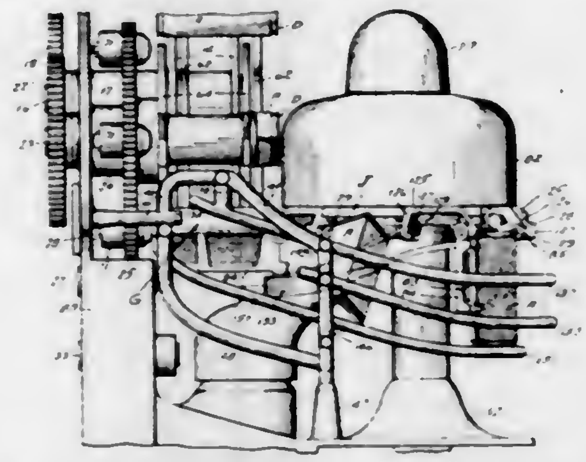


$$\mathrm{H{-}\overset{\displaystyle Y}{\underset{\displaystyle COOR}{C}}{-}NH{-}Z}$$

in which R is alkyl, Y is a member of the group consisting of cyano and carbalkoxy and Z is lower aliphatic acyl, in the presence of an alkaline condensing agent, heating the condensation product with sulfuric acid and isolating dl-histidine therefrom.

2,420,642
TREATING MACHINE FOR OPENING HINGED CLOSURE MEMBERS ON CONTAINERS

August E. Almgren, Hillside, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 19, 1944, Serial No. 545,703
7 Claims. (Cl. 226—129)

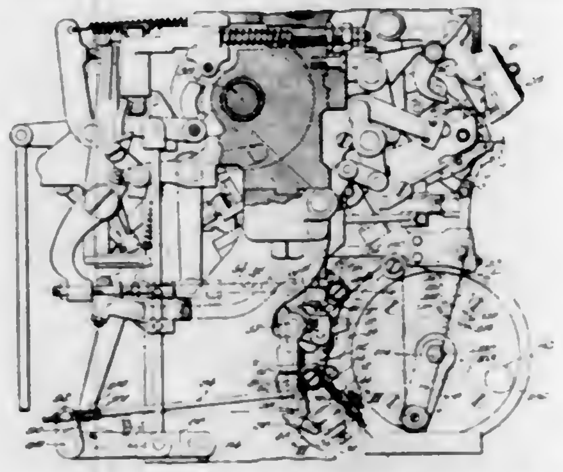


1. In a machine for treating a container having a filling opening and a hinged closure element covering the opening for sealing the container, the combination of a turret member for transferring a sealed container to a place of deposit, a suction cup carried on said turret member for engaging and holding an individual closure element while the container is being transferred, and means partially encircling said turret member for swinging the container on its closure hinge while said hinged closure element is held by said suction cup, to unseal the container by uncovering the filling opening.

2,420,643
SEWING MACHINE

Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 17, 1945, Serial No. 588,821
17 Claims. (Cl. 112—38)

1. A lockstitch shoe sewing machine having stitch forming devices including a curved hook needle, a locking thread case, and a loop taker acting to pass each loop of needle thread about the thread case without itself passing through the needle loop, in combination with a tension reducing step on one of the thread engaging surfaces of the loop taker acting at a time in the movement of the needle loop about the thread case when the loop is in a position of maximum extension, to insure certain release of the loop from the thread case at a uniform time in each sewing cycle.



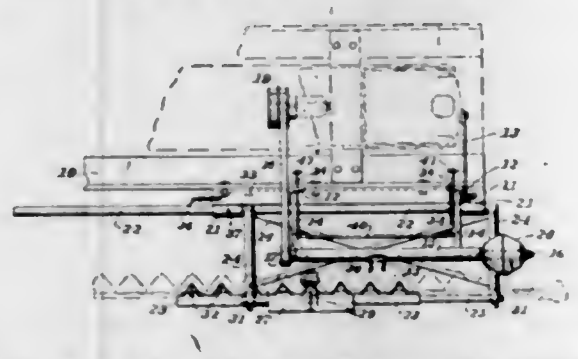
2,420,644
FLAMEPROOFING OF FABRICS AND COMPOSITION THEREFOR

Lyman C. Athy and Paul C. Stufft, Baltimore, Md., assignors to Pemco Corporation, a corporation of Maryland
No Drawing. Application June 16, 1942, Serial No. 447,272
13 Claims. (Cl. 117—138)

1. A fabric base material of cellulosic origin flameproofed with a solid vitreous enamel silicate which fuses adjacent the combustion temperature of the base material to a viscosity which enables it to be retained on the base material, said solid enamel silicate having been formed by smelting the components thereof at a temperature above its melting point to produce a homogeneous vitreous enamel silicate.

2,420,645
SICKLE GRINDER

Earl C. Beeler, Baggs, Wyo.
Application July 13, 1943, Serial No. 494,519
20 Claims. (Cl. 51—96)



19. In a sickle grinder, the combination of a supporting structure mounted on a tractor frame, a grinder shaft supporting arm pivoted at its inner end to said structure and carrying the grinder shaft at its outer end, a sickle grinding element on said shaft, a sickle seat supporting arm pivoted at its inner end to said structure and carrying the sickle seat at its outer end, said sickle seat being mounted for adjustment longitudinally with respect to said grinder shaft, said grinder shaft supporting arm being located for movement between the tractor and said sickle seat supporting arm, means for supporting said grinder shaft arm in operative position with the grinder shaft moved outwardly from the tractor and in housed position when moved inwardly toward the tractor, and means to support the sickle seat arm in operative position with the sickle seat moved outwardly from the tractor and in housed position when moved inwardly toward the tractor.

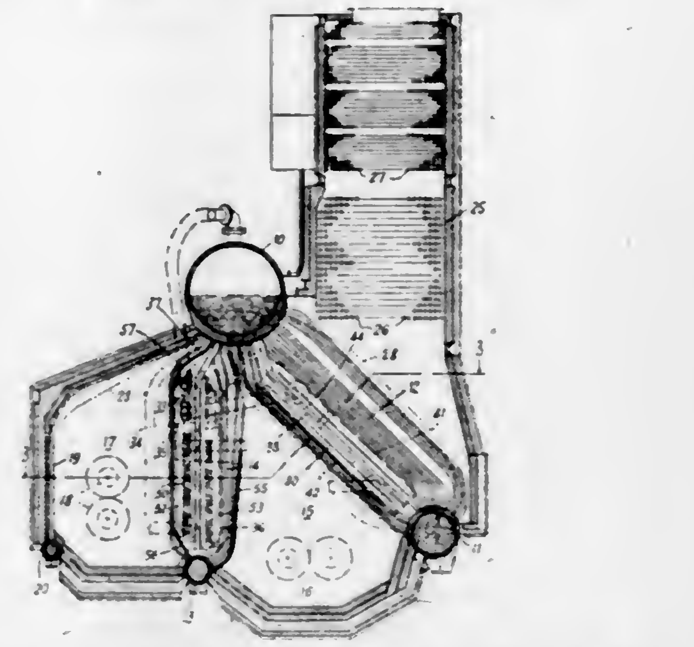
2,420,646
METHOD OF DETECTING FLAWS IN METAL ARTICLES

Ralph Bloom, Jr., and Edwin N. Klemgard, United States Navy, Washington, D. C., and Bela Ronay and Rudolph W. Miller, Annapolis, Md.
No Drawing. Application January 25, 1945, Serial No. 574,601
3 Claims. (Cl. 73—104)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a method of detecting the presence of flaws in the surface layers of a metallic article, the steps comprising applying to the surface of said article a solution containing an oil and a coloring material, maintaining the solution in contact with the surface for a period of time of sufficient duration that the solution may penetrate said flaws, removing from the surface the solution which has not penetrated said flaws, and applying to the surface a finely divided absorbent material, the presence of flaws in the surface layers of said metallic article being visibly indicated by a coloring of the absorbent material lying adjacent said flaws by the coloring material contained in the solution upon the seeping of the latter out of said flaws onto the surface of the article.

2,420,647
VAPOR GENERATOR

Edward L. Boland, East Orange, N. J., assignor to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey
Application July 8, 1942, Serial No. 450,109
3 Claims. (Cl. 122—478)



1. A steam generating unit comprising a setting, an upper steam and water drum, a laterally offset lower water drum, an inclined bank of steam generating tubes connecting said drums, a second lower water drum below said upper drum, a vertical bank of steam generating tubes connecting said upper drum and second water drum, said tube banks defining opposite sides of a main furnace chamber therebetween, means forming an auxiliary furnace chamber at the outer side of said vertical tube bank, means for independently firing said furnace chambers, a heating gas outlet at the outer side of said inclined tube bank

for receiving all of the heating gases from both of said furnace chambers after flowing over the tubes of said inclined tube bank, a primary superheater section arranged in the upper part of said vertical tube bank, a secondary superheater screened from said main furnace chamber by tubes of said inclined tube bank and arranged to be traversed by heating gases from both of said furnace chambers, a steam reheater arranged in the lower part of said vertical tube bank, and means forming a partition extending between said reheater and main furnace chamber and arranged to shield said reheater from flame radiation from said main furnace chamber.

2,420,648

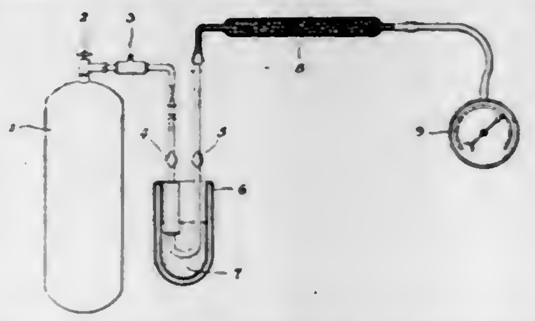
APPARATUS FOR DETERMINING THE WATER VAPOR CONTENT OF AVIATION BREATHING OXYGEN

Robert M. Bolton, United States Navy

Application October 2, 1943, Serial No. 504,706

2 Claims. (Cl. 73—29)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. Apparatus for field testing oxygen in a portable oxygen bottle comprising a U shaped transparent glass oxygen tube, a glass stop cock in each leg of the U tube spaced from the bight thereof, an insulating tube concentrically enveloping a part of one leg of the U tube from below its stop cock to a point somewhat above the bight, said insulated leg forming the oxygen entrance leg to said U tube, conduit and pressure reduction means for connecting the oxygen bottle being tested to said U tube entrance leg, a refrigerant containing vacuum insulated cup into which the U tube bight including the lower end of the insulating tube is inserted for cooling the oxygen passing therethrough, a moisture absorber adapted to be connected to the other leg of said U tube, and an oxygen measuring means connected to said water absorber, whereby oxygen may be passed from the oxygen bottle through the U tube to said measuring means and be exposed to such a temperature drop in passing from the insulated leg to the bight within the refrigerant containing cup that dew will collect along the bight if an undesirable amount of moisture is present in the oxygen being tested, the passage of oxygen being closed by said stop cocks when the U tube is removed from the refrigerant so that any collected dew will be undisturbed and may be visibly observed.

2,420,649

HYDRAULIC TORQUE AMPLIFIER

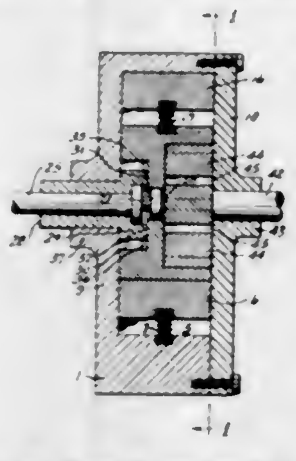
Harry B. Breedlove, Springfield, Ohio

Application June 14, 1944, Serial No. 540,288

10 Claims. (Cl. 60—52)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

9. In a torque amplifier, a liquid filled housing, a rotary pump immersed therein comprising a rotor and a casing, barrier means comprising said casing dividing said housing into two chambers, means providing communication between said rotor and said chambers for reversible flow between said chambers, means for positioning said casing into concentric or eccentric relationship with said rotor for controlling the quantity and direction of liquid interchange between said chambers, said barrier means being displaced responsive to said liquid interchange to cause expansion of one chamber and contraction of the other whereby external force is derived from the displacement of said barrier means.



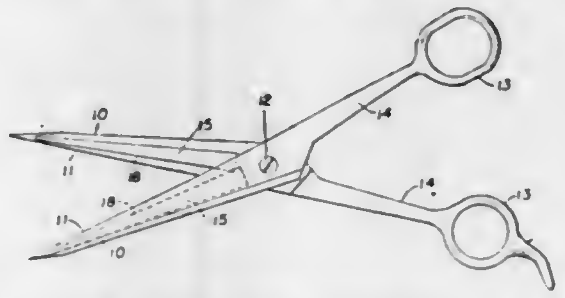
2,420,650

SELF-SHARPENING SHEARS

Roy F. Burch, Sr., Denver, Colo.

Application December 15, 1944, Serial No. 568,246

15 Claims. (Cl. 30—138)



1. A cutting instrument, comprising a pair of opposed blades each movable with respect to a predetermined point of said instrument and having cutting edges movable past each other, at least one blade having a recess therein; and abrasive material in said recess for contacting the opposite blade to maintain a cutting edge thereon.

2,420,651

IGNITION DEVICE

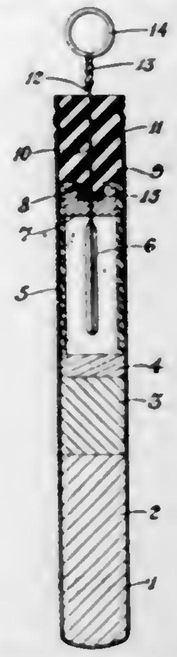
Lawton Arthur Burrows, Woodbury, N. J., George Henry Loving, Huntington, W. Va., and Roland Roswell Nydegger and Gilbert Havens Smith, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application December 9, 1942, Serial No. 468,364

5 Claims. (Cl. 102—27)

2. An ignition device comprising a charged cylindrical metal shell; a plug of rubber-like material closing the open end of said shell, said plug having an elongation of lesser dimensions at the end within said shell; a metal capsule adapted to fit over said elongation, with the base of said capsule adjacent to said plug to be secured firmly thereby; said capsule being charged with a flash-producing agent; a wire passing through said plug, said plug being molded about said wire, and through said capsule in movable relationship therewith and a portion of its surface supporting a friction-producing agent; said

capsule and friction-supporting end of said wire being so constructed as to maintain a fixed relationship therebetween, said wire being capable, when pulling force is applied thereto, of effecting ignition of the flash-producing agent.



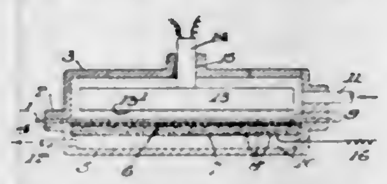
2,420,652

METHOD AND APPARATUS FOR MAKING ARTIFICIAL PIEZOELECTRIC ELEMENTS

Constantin Chilowsky, New York, N. Y.

Application April 8, 1944, Serial No. 530,137

29 Claims. (Cl. 171—327)



1. The method of making an artificial piezoelectric element which comprises, providing a quantity of finely divided piezoelectric material, suspending said material in a fluid medium, orienting said material with respect to its piezoelectric axes, and substantially separating said material and medium while the material is maintained in its oriented condition.

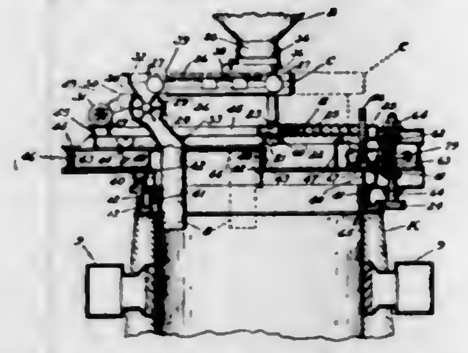
2,420,653

KILN CHARGING MEANS AND METHOD

Avery A. Clark, Denver, Colo., assignor to The Great Western Sugar Company, Denver, Colo., a corporation of New Jersey

Application February 5, 1944, Serial No. 521,237

17 Claims. (Cl. 214—18)



1. Apparatus for charging a kiln or the like with divided material, comprising a rotating platform; a carriage mounted for radial movement on said platform and carrying a feed spout; and a screw having a varying pitch for reciprocating said carriage at a variable rate on said platform.

2,420,654

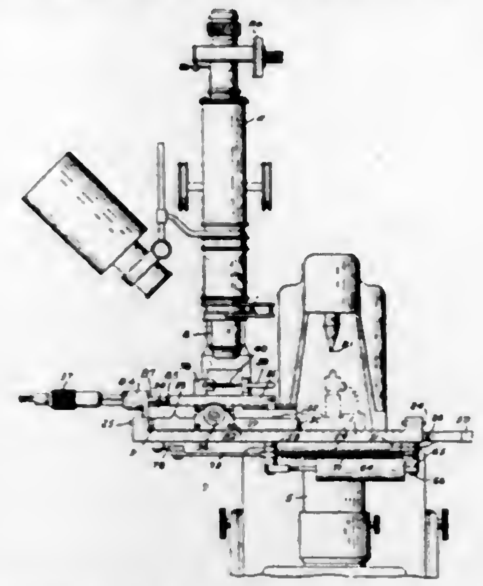
MICROAREA PRECISION LOCATOR

Jacob B. Cohen, Brighton, and Herbert E. Hanson, Dorchester, Mass.

Application September 23, 1944, Serial No. 555,569

7 Claims. (Cl. 73—81)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An apparatus for making a precision location of a previously determined area in a workpiece with respect to a tool member of a machine comprising in combination, a platen arranged to be attached to the machine, said platen being provided with spaced cam recesses therein, a transfer stage mounted on said platen for movement between a first position relatively remote from the tool member and a second position adjacent the tool member, said transfer stage having projections which extend into said recesses, a micrometer locating stage assembly on said transfer stage including workpiece holding means, spring pressed locking cams in said recesses respectively engageable with said projections to impart biasing forces to said transfer stage relative to said platen in directions respectively toward said first and second positions, and adjustable stop means on said platen for determining said positions of said transfer stage whereby said transfer stage may be repeatedly accurately located in said first or second position.

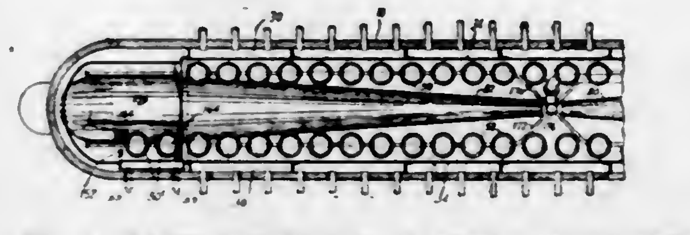
2,420,655

FLUID CIRCULATING HEAT EXCHANGER

Leon H. Coykendall, Westfield, and Will H. Rowand, Madison, N. J., assignors to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

Application January 15, 1943, Serial No. 472,434

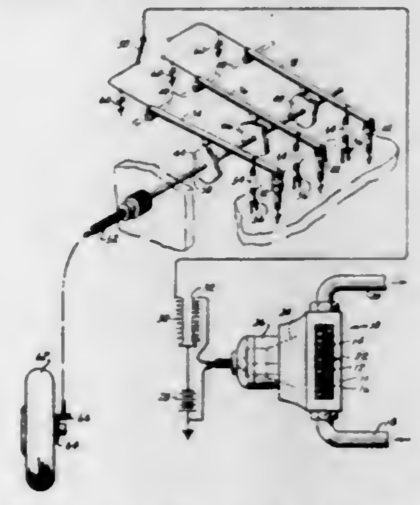
6 Claims. (Cl. 122—428)



1. In a steam generator, a steam and water drum in which there is a water level, a plurality of steam generating tubes directly communicating with the drum and distributed throughout its effective length, a plurality of large diameter downcomers leading downwardly from the water space of the drum, means connecting the lower ends of the downcomers to the inlet ends of the steam generator tubes, and an intake manifold

for each downcomer, the intake manifolds being disposed within the water space of the drum, each manifold having an outlet directly communicating with the inlet of a downcomer of a similar flow area, each manifold also tapering from its outlet and having a plurality of inlet openings distributed along its length and in direct communication with the water space of the drum, the arrangement of intake manifolds serving to minimize surging of the water within the drum due to endwise flow of the water from the positions of the inlets of the steam generating tubes toward the downcomers.

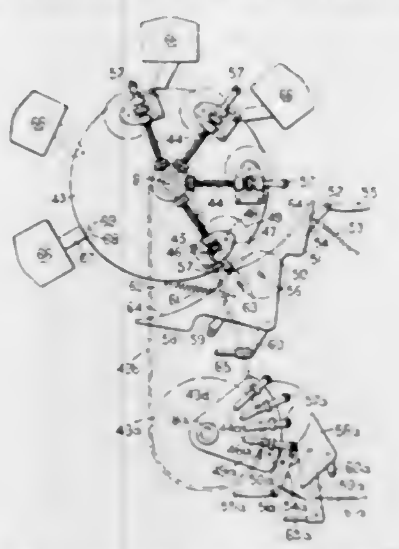
2,420,656
EFFICIENCY MEASURING DEVICE
Carl J. Crane, Sacramento, Calif.
Application February 14, 1944, Serial No. 522,829
8 Claims. (Cl. 73—114)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



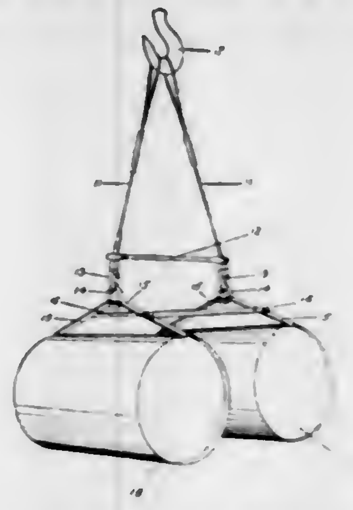
1. An efficiency indicating device for a vehicle having a fuel consuming power source, a fuel reservoir means, and a conduit for conducting the fuel from said reservoir means to said power source, said device comprising an impeller rotatably mounted within said conduit so as to be rotated by the flow of fuel from said reservoir means to said power source, a window in said conduit through which said impeller may be viewed, a glow lamp adapted to illuminate said impeller, an electrical circuit for energizing said glow lamp, a make-and-break mechanism actuted by said power source for periodically interrupting said electrical circuit, and means for controlling the rate at which said make-and-break mechanism operates in accordance with the speed of operation of said vehicle.

2,420,657
TUNER
John Mathieson Dodds, Timperley, and John Heywood Ludlow, Bowdon, England
Application December 29, 1943, Serial No. 516,105
In Great Britain May 13, 1938
1 Claim. (Cl. 250—40)

In an apparatus of the character described, a rotatable shaft, a plurality of inductances positioned about said shaft, switch means fixed to said shaft and adapted to be rotated with the latter into selective engagement with the inductances, a plurality of abutments extending radially from said shaft and by different radial distances, a pivotally mounted cam positioned in the path of movement of said abutments with said shaft, said cam including a central apex extending toward said shaft, and a variable condenser having its movable element operatively connected to said cam whereby the position of the movable element of the condenser will be determined by rotation of said abutments with said shaft.



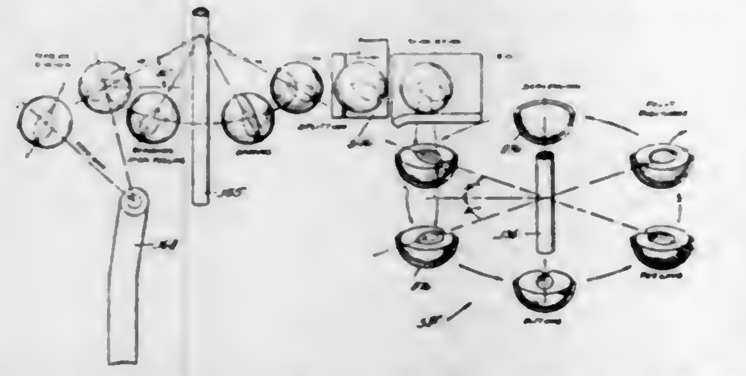
2,420,658
DEVICE FOR HANDLING FLANGED OBJECTS
Holger Eiriksson, Groton, Conn.
Application August 20, 1945, Serial No. 611,678
1 Claim. (Cl. 294—87)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



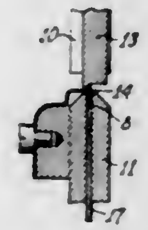
A handling device comprising two pairs of chime hooks, a ring passing through the ends of each pair of said chime hooks, a shackle connected to each ring, a cable pendant connected to each shackle, a spreader bar having an eye on each end, said cables passing through said eyes and slidably mounting said spreader bar, and generally parallel rigid bars fixed to one of each pair of said chime hooks.

2,420,659
METHOD OF PROCESSING FRUIT
Raymond L. Ewald and Henry A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Original application October 31, 1940, Serial No. 363,596. Divided and this application December 3, 1942, Serial No. 467,681
21 Claims. (Cl. 146—222)

1. The herein described process which comprises holding a whole fruit having a suture plane, with its suture plane vertical and with its longitudinal stem axis inclined substantially thirty degrees with respect to the horizontal and with the stem cavity end lower than the opposite end of the peach, halving the peach while so held and then swinging each half peach ninety degrees about parallel horizontal axes lying parallel to the plane of severance whereby to position each half peach with its cut face horizontal and with the projections of their longitudinal stem axes intersecting at an angle of sixty degrees.



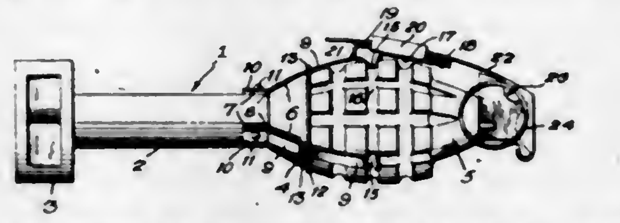
2,420,660
MANIFOLDING ASSEMBLY
Urban M. Falter, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application May 28, 1941, Serial No. 395,629
21 Claims. (Cl. 1—2)



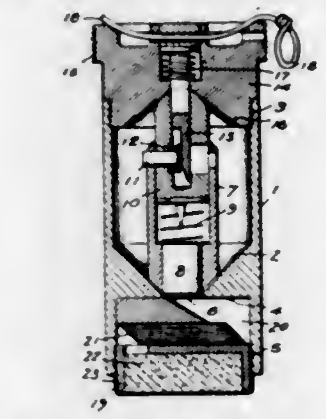
1. In a stapling apparatus for loose sheets, a staple driving device for thrusting the legs of a staple through a sheet assembly in substantially parallel relation, a removable spacer member disposed in the path of the staple and straddled thereby simultaneously with its engagement with the sheets, a forming die engaged by the staple legs beyond the sheet assembly tending to bend the legs of the staple toward each other and enclose therein the spacer member, said forming die operating upon further advance of the staple to contract the spacing between the staple legs coincident with the sheet assembly and thereby inwardly enlarge the holes in the sheet assembly through which the legs are thrust, means for applying closing pressure to the staple in a direction perpendicular to the sheet assembly by which the staple is laterally expanded and thereby outwardly enlarge the holes through which the staple legs are thrust, the resiliency of the staple being sufficient to effect a partial lateral contraction of the staple upon release of pressure whereby the staple will assume a position medially of the enlarged holes in the sheet assembly, the subsequent withdrawal of the spacer and staple one from the other enabling relative movement of the staple and sheet assembly both perpendicular to and in the plane of the latter.

2,420,661
GRENADE ADAPTER
William Mervin Fox, Havre de Grace, Md.
Application July 3, 1945, Serial No. 603,103
3 Claims. (Cl. 102—65.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An adapter for mounting on a weapon a grenade of the type having a safety lever, comprising a tubular body, a vane assembly on said body, circumferentially spaced spring clamping fingers fixed to said body and extending forwardly thereof, one of said fingers having means for engaging said safety lever, and a ring member carried by said body and surrounding said spring fingers at a point substantially forward of said body, whereby the tendency of said fingers to distort on setback is minimized.



2,420,662
FUZE
Frank B. Hale, Bel Air, Md.
Application May 31, 1944, Serial No. 538,171
6 Claims. (Cl. 102—81.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

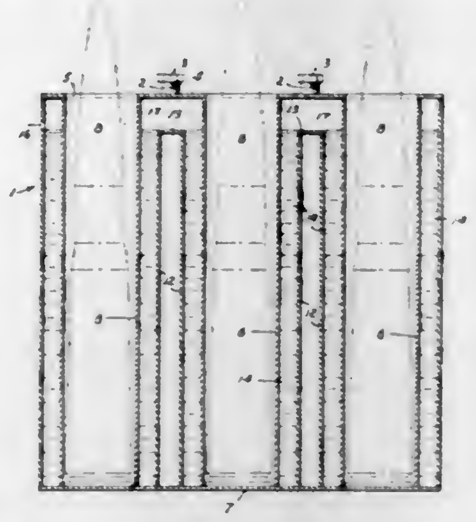


1. A fuze adapted to function at all angles of impact, comprising, within an elongated hollow body interiorly having conical end surfaces, a primer-holder slidably coupled to a striker with ends resting normally at apices of the conical end surfaces, a locking pin plunger normally protruding through a side of the striker for locking the striker against movement toward a primer in the primer-holder, an arming pin extending through the apex of one conical end surface into the striker to hold the striker and primer-holder in their normal unarmed position while locking the locking pin in its normal position, and a coiled spring resisting movement of the striker toward the primer when the fuze is armed until adequate impact imparts an overcoming force to effect movement of the striker and primer-holder within the hollow body.

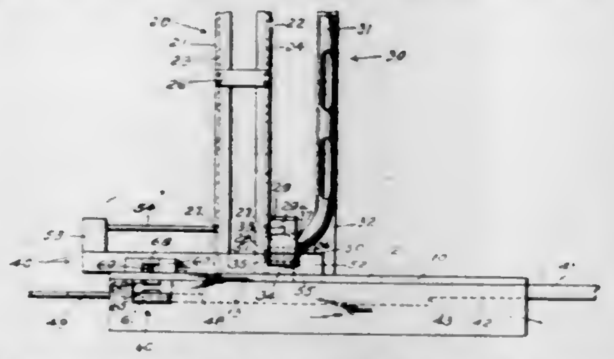
2,420,663
WATER-COOLED AMMUNITION RACK
Louis T. Heath and Vincent C. Gilbert, Fort Knox, Ky.
Application July 15, 1944, Serial No. 545,169
2 Claims. (Cl. 220—13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An ammunition rack comprising a unitary, box-like, water-tight container having walls at the sides, top and bottom thereof preferably of armor plate, a filler fitting in said top wall to permit the flow of liquid into said container, spaced openings in said top wall, vertically extending ammunition-receiving tubes supported in and sealed from said container, each of said ammunition-receiving tubes being sealingly attached at one end thereof to said top wall at said openings and at the other end thereof to said bottom wall, the top ends of said ammunition-re-

ceiving tubes being open through said openings in said top wall, a sealing plate inside said container spaced laterally from and substantially parallel to said top wall and extending to said side walls, said sealing plate having cutout portions corresponding to said openings in said top wall but of a size substantially larger than the diameter of said ammunition-receiving tubes which pass therethrough, and vertically extending sleeves surrounding said ammunition-receiving tubes and spaced therefrom inside said container, each of said sleeves being sealingly attached at one end thereof to said sealing plate at said cutout portions and at the other end thereof to said bottom wall, the top ends of said sleeves being open through said cutout portions in said sealing plate to the common space between said sealing plate and said top wall.

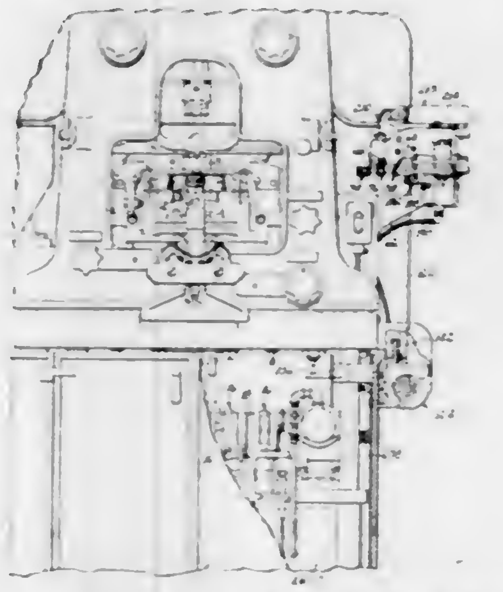


2,420,664
BELT LOADING DEVICE FOR SUBCALIBER AMMUNITION
Chester E. Hoskins, Springfield, Mass.
Application October 17, 1945, Serial No. 622,914
14 Claims. (Cl. 86—48)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



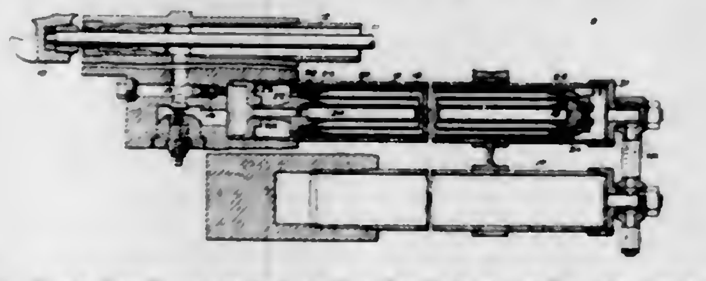
1. A machine for loading subcaliber ammunition in a belt comprising a reciprocable loading member, a feed chute adapted to receive a row of hollow cartridge holders, said feed chute having a discharging end disposed adjacent the path of said loading member whereby the foremost cartridge holder in said chute is positioned in the path of forward movement of said loading member, means for successively positioning a fresh cartridge in alignment with and behind a cartridge holder following the foremost cartridge holder, said loading member having a portion thereof arranged to engage such fresh cartridge to move it forwardly into assembly in said aligned cartridge holder concurrently as the foremost cartridge holder is moved forwardly by said loading member, a belt carrier movably mounted on the machine and adapted to successively position the cartridge receiving pockets of an ammunition belt in front of the foremost cartridge holder and in alignment with the path of said loading member, and means for operating said belt carrier in response to reciprocal movement of said loading member whereby each reciprocation of said loading member inserts said foremost cartridge holder in the ammunition belt and assembles a fresh cartridge in a following cartridge holder.

2,420,665
SHOE MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 26, 1945, Serial No. 584,763
6 Claims. (Cl. 12—1)



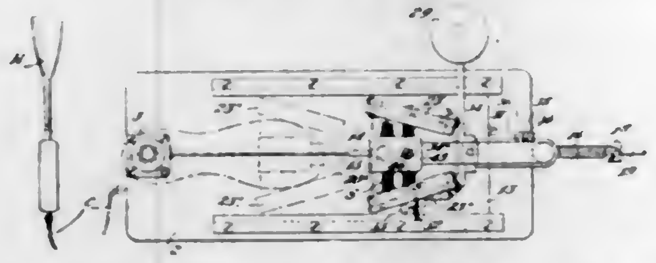
1. In a shoe machine, the combination with fluid-operated means for operating on shoes including uppers and insoles mounted on lasts, a source of supply of operating fluid, and means for maintaining the fluid under pressure at said source only intermittently at the times required for operating on successive shoes, of additional fluid-operated means for forming an indentation in the insole of each shoe for use thereafter in positioning the shoe relatively to said first-named means, and an accumulator arranged to receive fluid from said source when the fluid is under pressure and to store the fluid for use in operating said additional means.

2,420,666
HYDRO-PNEUMATIC RECUPERATOR FOR GUNS
Joseph F. Joy, Claremont, N. H., and Dayton A. Gurney, Cheverly, Md.
Application September 12, 1941, Serial No. 410,614
7 Claims. (Cl. 89—43)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



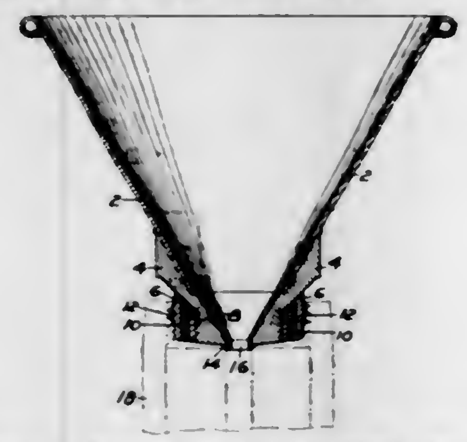
1. In a hydro-pneumatic device, a cylinder containing a first fluid, an apertured member in said cylinder in communication with a supply of second fluid, flexible, tubular separating means on said member in fluid-tight engagement therewith, and supporting means exterior to said separating means extending substantially coextensive therewith and engaging said member whereby the expansion of said separating means by the second fluid is limited, said supporting means being provided with apertures whereby the first fluid may have access to the exterior of said separating means, said apertures being of insufficient size to allow the separating means to be displaced therethrough by pressure of the second fluid in the interior of said separating means.

2,420,667
PULLING-ON MACHINE
Jacob S. Kamborian, West Newton, Mass.
Application March 24, 1944, Serial No. 527,890
6 Claims. (Cl. 12—1)



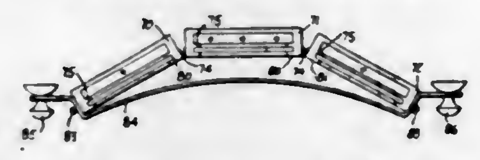
1. In a machine of the class described, a base and a last support fixedly mounted therein, a slide mounted in guides on the base for movement toward and from the last support, means for moving the slide forwardly away from the last support, and means whereby the slide may be moved rearwardly toward the last support, a pair of spaced rigid wings hinged at their lower edges to the slide, the wing axes being substantially parallel to the direction of movement of the slide, but the upper portions of the wings diverging rearwardly, an upper-pulling element carried by each wing, spring means urging the upper ends of the wings toward each other, a lever carried by the slide, the pivotal axis of the lever extending transversely of the slide, a pressure pad carried by one arm of the lever, and adjustable spring means acting upon the opposite arm of the lever to urge the pad downwardly toward the bottom of a last mounted on the last support.

2,420,668
FILLER FIXTURE HAVING A WEAR RING AND A SUPPORT RING
Thomas F. Knight, Rockaway, N. J.
Application September 18, 1942, Serial No. 458,881
4 Claims. (Cl. 86—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



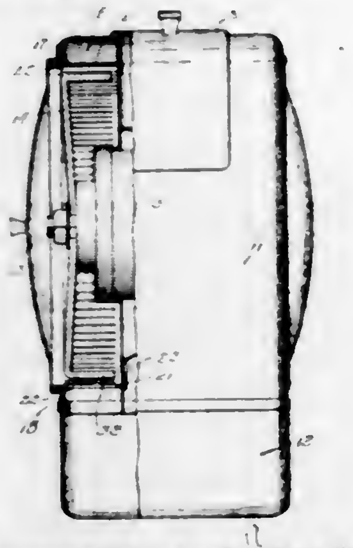
1. A filler fixture for loading an explosive charge into shell having an internally threaded opening, comprising an internally and externally threaded wear ring, said external threads being arranged for assembly in the threaded opening of said shell, a support ring internally tapered for the receipt of a funnel and having an externally threaded dependent hollow extension with a discharge opening at its lower end, said support ring being constructed and arranged to be screwed into said wear ring and extend therethrough into the opening in said shell, and releasable locking means carried by said wear ring and engaging said support ring above said extension whereby the joint rotation of said wear ring and said support ring is assured in the assembly or disassembly of said fixture and said shell.

2,420,669
ELECTRODE STRUCTURE
Fred Landauer, Rockville Centre, N. Y.
Application March 15, 1944, Serial No. 526,608
3 Claims. (Cl. 128—365)



3. A therapeutic device of the character described comprising at least one electrode, a housing adapted to receive said electrode and provided with passageways to permit flow of liquid through said housing and past said electrode, suction means for attaching said housing to a support and for removal therefrom, and electrically insulated flexible band means forming guarding means against which the body of a patient may abut and arranged externally of said housing and spaced from said electrode, said suction means being disposed at the ends of said band means and laterally of said housing.

2,420,670
DISINTEGRATOR SCREEN
Clarence W. Lanter, Du Page County, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application February 23, 1944, Serial No. 523,513
8 Claims. (Cl. 241—86)

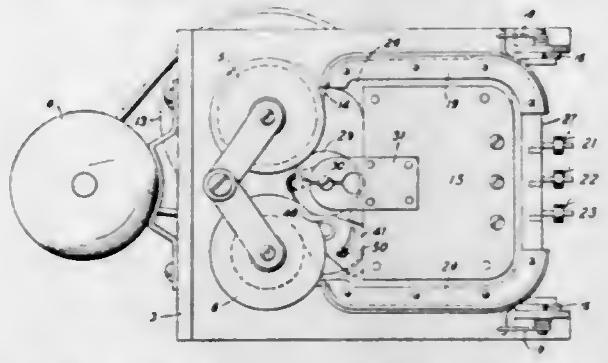


1. In a disintegrator, a shaft adapted to be rotated, a hammer mounted on the shaft, a housing defining a disintegrating chamber about the path of the hammer, said housing including a side wall adjacent the hammer, a substantially circular groove in the wall slightly outside the path of the hammer and having a substantial width, a light-weight resilient disintegrator screen of sheet metal in ring form and having a thickness less than the width of the groove, and a flange upon one edge only of the screen of a height sufficient to secure the screen in said

groove, said screen being normally of slightly greater diameter than the mounting groove and held in said spaced relationship at least partially by the resiliency of the ring.

2,420,671
MAGNETIC RECORDER

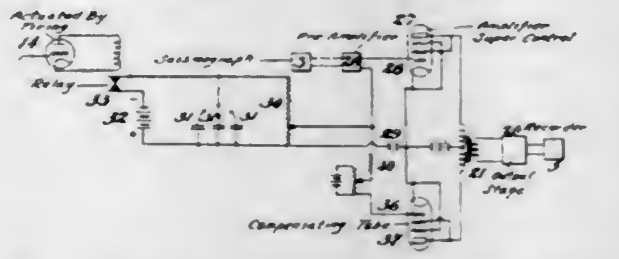
John B. Little, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 27, 1944, Serial No. 560,699
10 Claims. (Cl. 179—100.2)



1. In a magnetic recorder, the combination with two reels, a record member on the reels and driving means therefor, a guiding distributor, a sound head mounted thereon, means for conducting the member from one reel to the other through said sound head, said distributor including loop-forming means, a pivot axis for the distributor extending through the sound head and means for oscillating the distributor about the axis to spool the member from one reel to the other.

2,420,672
GEOPHYSICAL PROSPECTING

Raymond Maillet, Paris 16E, France; vested in the Attorney General of the United States
Application February 4, 1939, Serial No. 254,743
In France January 5, 1939
9 Claims. (Cl. 177—352)

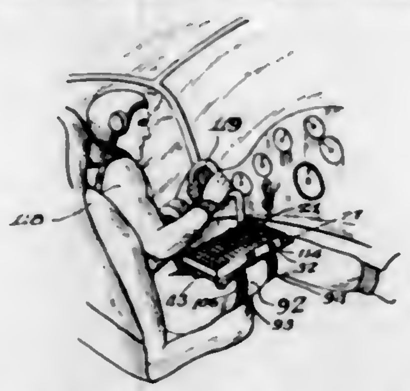


1. An underground prospecting apparatus which comprises, in combination, means for detonating a charge of explosive, seismographs for detecting elastic waves in the ground, amplifiers coupled with said seismographs, one stage of said amplifiers including a thermionic tube with a variable grid polarization, and means connected to be placed into operation by said detonating means, for automatically varying said polarization in a gradual manner as a function of time, in such manner as to vary both the range of frequencies adapted to pass through said amplifiers and the sensitiveness of the apparatus.

2,420,673
NAVIGATION DEVICE

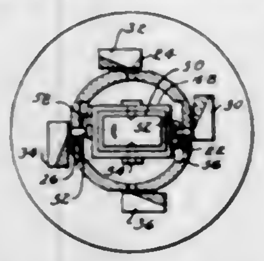
Robert T. Monrad, Little Falls, N. Y., assignor of forty per cent to Eric S. Magnus, Philadelphia, Pa.
Application March 20, 1945, Serial No. 583,819
4 Claims. (Cl. 40—28)

1. A navigation device comprising a mounting section having a forward face and a rearward portion; a platform; means to secure said platform to the forward thigh portion of a human body; means to secure said mounting section to said platform and operable longitudinally to reverse said forward face and said rearward portion with respect to said platform; a strip map positioned in proximity to said forward face; means operable to dispose selected portions of said map in viewable position in proximity to said forward face, said means including manually operated means positioned in proximity to the end of the mounting section which is disposed away from the torso of said human body when said rearward portion is in juxtaposition to said platform.



2,420,674
VERTICAL GYRO ERECTION CONTROLLER

Marlin C. Moore, Xenia, and Henry Bridgman, Springfield, Ohio
Application December 8, 1944, Serial No. 567,292
10 Claims. (Cl. 74—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

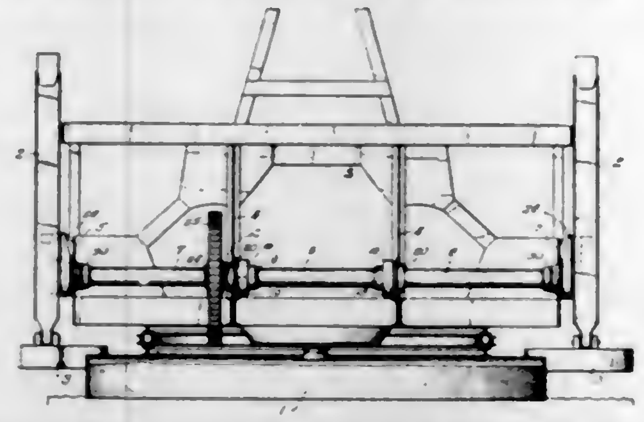


1. In a gyro having a housing containing a main rotor with its axis normally vertical, a hollow valve body depending from said gyro, a plurality of erecting ports extending laterally through said hollow body, and pendulum controlled vanes adjacent said ports for opening said ports, the improvement which comprises an auxiliary gyro within said hollow valve body comprising a gimbal, an auxiliary rotor, pivot means for supporting said auxiliary rotor in said gimbal with the auxiliary rotor axis normal to the main rotor axis, means yieldably constraining said gimbal to maintain said auxiliary rotor in the position with its axis normal to the main rotor axis, and vanes controlled by precession of said auxiliary rotor to close certain of said ports when said pendulum controlled vanes have opened them.

2,420,675
DRIVING SHAFT AND BEARING SUPPORT THEREFOR IN WALKING DRAGLINE MACHINE

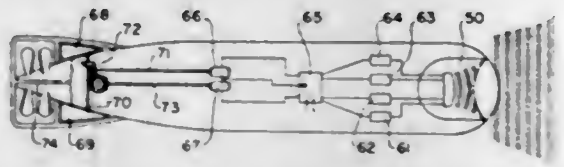
John W. Page, Chicago, Ill., assignor to Page Engineering Company, a corporation of Illinois
Application August 2, 1945, Serial No. 608,453
12 Claims. (Cl. 180—8)

2. Walking mechanism for dragline machines and the like, comprising: a main base; a machinery supporting superstructure mounted thereon and having trusses and outriggers; a driving shaft rotatably mounted in said trusses and outriggers, and having at least two sections normally in alinement with each other; means for operatively connecting the adjacent ends of the sections of said shaft; a walking leg operatively connected with the outer ends of said sections; and a universal joint bearing between said shaft and one of said trusses near the means connecting said sections together to accommodate distortion between the superstructure and the shaft due to heavy stresses set up in the walking mechanism.



2,420,676
SUBMARINE SIGNALING APPARATUS

Robert E. Peterson, Danvers, Mass., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass., a corporation of Delaware
Original application January 23, 1943, Serial No. 473,415. Divided and this application December 13, 1943, Serial No. 514,149
4 Claims. (Cl. 114—23)

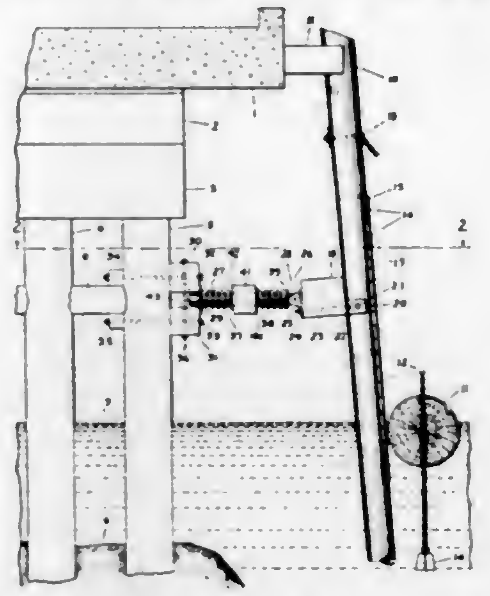


1. In combination with a vessel adapted to move through a sound propagating medium, a sound pickup device positioned in one portion thereof having a sound lens adapted to directively receive sound in the propagating medium, means for controlling the direction of the course of said vessel including a group of sound pickup units extending over the focal surface of said lens, said pickup units being connected together in groups, each extending over a quarter of the focal surface of said lens and means operative by said groups for controlling the course of the vessel.

2,420,677
FENDER PILE

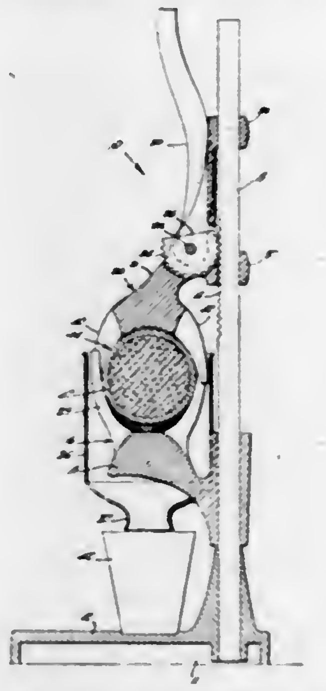
Ralph G. Peterson, Long Beach, Calif.
Application April 7, 1945, Serial No. 587,193
3 Claims. (Cl. 61—48)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination with a pier having an understructure, fender piles connected to the pier at their upper ends and embedded in the earth below a water line at their lower ends, means for reducing stresses on the fender piles comprising a transversely scored wear plate on the outer faces of the fender piles, angle brackets, means extending through the neutral axes of the fender piles connecting one of the flanges of the angle brackets thereto, a waler arranged transversely of the fender piles having the other flanges of the angle brackets secured thereto, at least one pivot bracket on the side of the waler opposite the angle brackets, a shaft having one end pivoted to said pivot bracket, spaced bearing plates on the shaft, a spacing block on the shaft between the bearing plates, pre-stressed springs on the shaft having ends bearing against the bearing plates and spacing block respectively, and walers mounted on the pier understructure in substantially parallel relation to the first named waler, said walers having one of said bearing plates mounted thereon and being spaced to provide a recess into which said shaft may extend against pressure of said springs responsive to stresses applied to said fender piles in the direction of the pier understructure.



2,420,678
CITRUS PEEL OIL EXTRACTION

Wilbur A. Pipkin, Safety Harbor, Fla.
Application July 3, 1944, Serial No. 543,394
3 Claims. (Cl. 100—42)



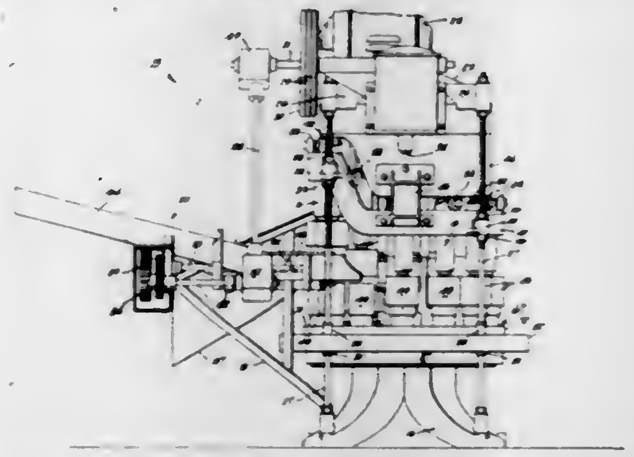
1. A method of extracting peel oil from a whole citrus fruit which comprises providing support for all areas of the rind of said fruit which is adequate to prevent local outward bursting of the juice-bearing structure when said structure is subjected to relatively high pressure; and while maintaining said support, compressively reducing the volume of the space within the boundaries

of said support to produce such a high internal pressure in said structure as to compress said rind and force peel oil therefrom; and collecting said peel oil.

2,420,679

METHOD OF AND APPARATUS FOR EXTRACTING JUICE AND PEEL OIL FROM WHOLE CITRUS FRUIT

Wilbur A. Pipkin, Safety Harbor, Fla.
Application July 11, 1944, Serial No. 544,424
43 Claims. (Cl. 100—39)

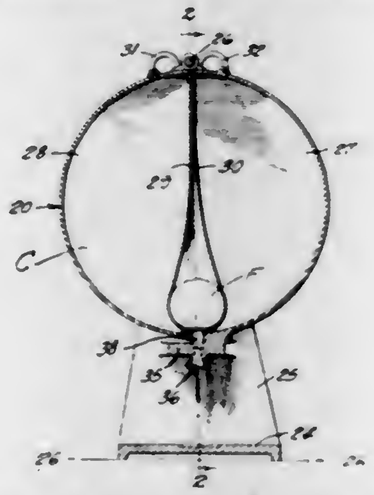


1. In a citrus fruit juice extractor the combination of: a pair of fruit supporting and compressing cups the walls of which are slotted to permit interdigitation when said cups are brought together; means for bringing said cups together to enclose and support and compress a whole fruit, said cups being shaped to cause said fruit to conform thereto whereupon said cups support the rind of said fruit at a multiplicity of points sufficiently closely spaced to prevent outward bursting of the juice-bearing structure excepting in a given restricted area; and juice passage means adapted to provide within the aforesaid area a passageway from said fruit through which juice may flow out of said fruit when said fruit is enclosed and compressed as aforesaid.

2,420,680

PEEL OIL AND JUICE EXTRACTION BY FLUID PRESSURE

Wilbur A. Pipkin, Safety Harbor, Fla.
Application July 11, 1944, Serial No. 544,425
6 Claims. (Cl. 100—50)

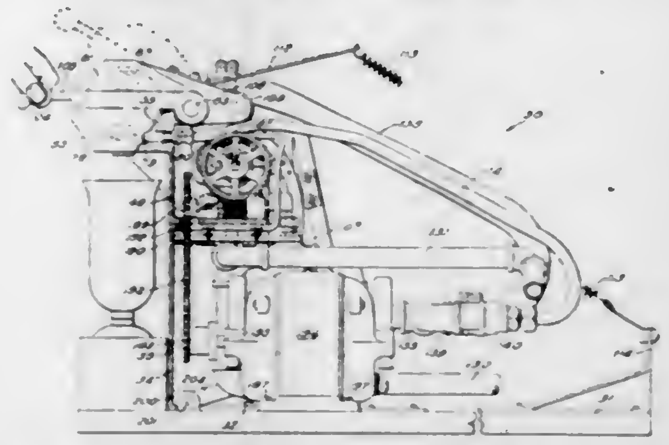


1. A method of extracting juice and peel oil from a whole citrus fruit which comprises: forming an opening in the rind of the fruit for the escape of juice therefrom, substantially surrounding said fruit with a fluid medium, applying compressive forces through said medium uniformly to closely spaced areas of the entire surface of said rind outside the area of said opening to squeeze the juice therefrom out of said opening and to press peel oil from the exterior surface of the rind, and separately collecting said juice and peel oil.

2,420,681

METHOD OF AND APPARATUS FOR EXTRACTING JUICE FROM WHOLE CITRUS FRUIT

Robert E. Peterson, Los Angeles, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application October 8, 1945, Serial No. 621,153
30 Claims. (Cl. 100—50)

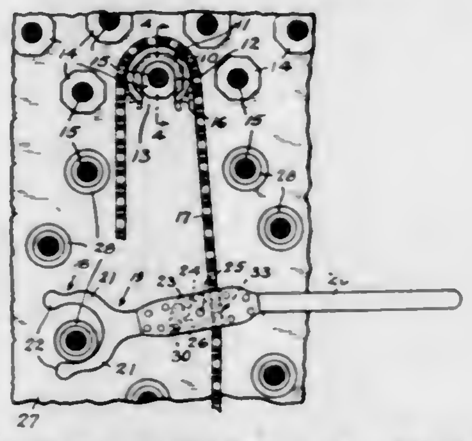


1. A method of extracting juice from a whole citrus fruit which comprises: forming a hole in the rind of said fruit, applying uniform compressive forces through a fluid medium to closely spaced points in all areas of said rind outside the area of said hole, to support the rind of said fruit against local outward bursting, and increasing the pressure of said fluid medium to decrease the volume of the space within the boundaries of said support and thereby force the juice from said fruit out of said hole.

2,420,682

CHAIN WRENCH

Francis Foster Powell, Kirkland, Wash.
Application June 9, 1945, Serial No. 598,547
5 Claims. (Cl. 81—53)

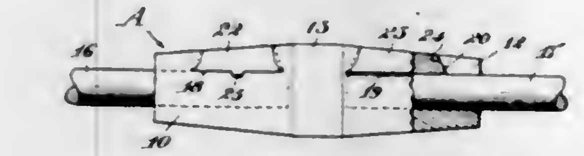


1. A wrench comprising a wrench jaw; sprocket teeth on the periphery of said wrench jaw; a wrench handle separate from said wrench jaw and having an end portion shaped for direct engagement with a fixed fulcrum; a link belt adapted to engage with the teeth on said wrench jaw and having two loose and unattached end portions; and ratchet means carried by said wrench handle adapted to engage with one end portion of said link belt, whereby angular oscillation of said handle will progressively move said link belt in one direction and thereby rotate said wrench jaw.

2,420,683

ROD OR PIPE COUPLING

Herman F. Richter, Los Angeles, Calif., assignor, by decree of distribution, to Aura Alice Richter
Application April 27, 1944, Serial No. 533,043
6 Claims. (Cl. 287—119)

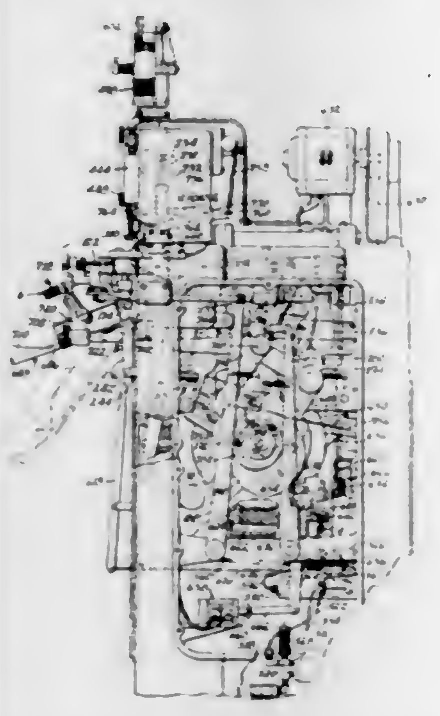


1. In a rod or pipe coupling, a body member substantially circular in cross section and formed with a longitudinally extending channel contoured on a side thereof for the reception and locking against longitudinal displacement of a correspondingly contoured curved end portion of a rod or pipe, the side walls of said channel having portions extending outwardly from the outer side of the rod or pipe in the channel, the said portions of the channel side walls being formed with opposed grooves having undercut side walls, and a slide block insertable in each of said grooves to overlie the curved end portion of the rod or pipe in said channel to hold it in place, said slide block being plano-convex in cross section.

2,420,684

MACHINE FOR USE IN THE MANUFACTURE OF SHOES

Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 20, 1944, Serial No. 568,964
131 Claims. (Cl. 12—4)

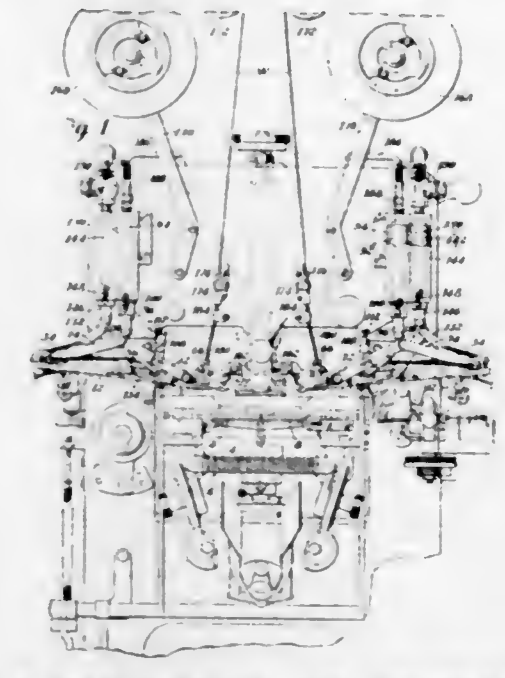


1. In a lasting machine, wipers for wiping the toe-end portion of an upper on a last into lasted position, a wiper carrier supporting said wipers and movable relatively to the last in the lasting operation, slides supported by said wiper carrier to move rectilinearly lengthwise of the last relatively to said carrier, and means on said slides for engaging the opposite end portions of a toe binder and for pulling the binder against the toe end of the upper in response to such movements of the slides.

2,420,685

FASTENING INSERTING MACHINE

Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application December 20, 1944, Serial No. 568,964. Divided and this application August 3, 1945, Serial No. 608,704
25 Claims. (Cl. 1—20)

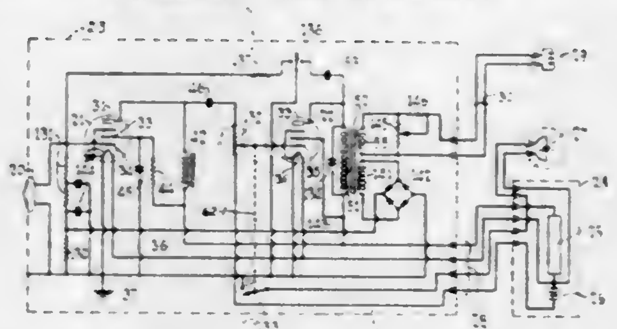


1. In a shoe machine, the combination with means for positioning a shoe having an insole provided with a lip arranged to be engaged by the margin of the lasted upper, of mechanism for inserting a fastening in the margin of the upper and the lip of the insole in a direction widthwise of the lip, and power-operated means for moving said mechanism heightwise of the shoe in a direction transverse to the direction of fastening insertion to bring it into positioning engagement with the shoe and for thereafter operating it first to press the upper against the lip and then to insert the fastening.

2,420,686

HEARING AID AMPLIFIER

Harry B. Shapiro, Cleveland, Ohio, now by judicial change of name Harry Bryant Shaper, assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York
Application March 3, 1943, Serial No. 477,895
9 Claims. (Cl. 179—171)



1. In an electron tube amplifier, such as used in an inconspicuously wearable hearing aid designed to be energized from a direct-current source for amplifying the output of a microphone and supplying amplified output to a receiver; amplifier circuits including at least one voltage amplifier stage and a power amplifier stage having an output circuit; said voltage amplifier stage including a multi-electrode amplifier tube having a cathode, a control electrode and an additional electrode operated at a positive electrode

potential the magnitude of which affects the magnitude of the gain; said amplifier circuits including an impedance element serially connected between said source and said additional electrode so that the D. C. voltage drop across said impedance determines said positive electrode potential; the elements of said amplifier being designed to impress on said output circuit an output of predetermined maximum output level when actuated by an input of a predetermined intermediate input level; a biasing circuit for deriving from said output circuit and impressing on said control electrode a rectified negative bias voltage which increases over a predetermined bias range when said output is increased to about said maximum level; the elements of said biasing circuit being so designed and correlated to the other elements of said amplifier circuit and the negative bias voltage being so correlated to the output voltage impressed on said output circuit—that for input levels up to said intermediate input level the amplifier shall operate without any substantial change in the sensitivity—and that for input levels in the range above said intermediate level an increase in the input shall increase said negative bias so as to substantially prevent a rise of the output above said maximum level.

2,420,687

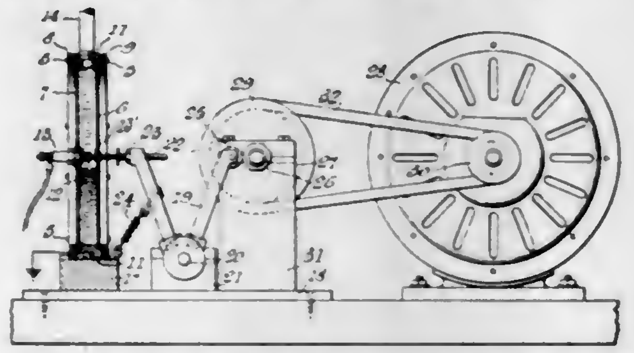
DEHYDRATION OF EMULSIONS

Arthur D. Small, United States Army, Washington, D. C.

Application December 21, 1942, Serial No. 469,729

1 Claim. (Cl. 204—304)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



An apparatus of the continuous flow type for separating the phases of an emulsion comprising a dehydrator including opposed diaphragms spaced to define a narrow treating chamber, one of said diaphragms being formed of an insulating material, the other of metal, means for delivering a supply of emulsion to said treating chamber, said means including a supply conduit extending from a source of emulsion supply to the interior of said chamber and terminating with its outlet orifice disposed between and approximately centrally of said diaphragms, means attached to the center of said metallic diaphragm for imparting vibratory movement thereto for the purpose of effecting rarefaction and condensation of the constituent particles of the emulsion, an electrode mounted in said diaphragm of insulating material and provided with a discharge end disposed immediately in advance of said outlet orifice, said discharge end being spaced from the center of said metallic diaphragm whereby to form an electrical discharge area across the mouth of said outlet orifice, means in electrical relation with said electrode and said metallic diaphragm for establishing a difference of potential between said electrode discharge end and said metallic diaphragm and across said discharge area, whereby, as said emulsion emerges from said outlet orifice and enters the discharge area extending thereacross, the intensity of the electrical field in said area in connection with the condensation and rarefaction action of said vibratory diaphragm effects coalescence of the water phase of said emulsion into masses which will collect in the lower portion of said treating chamber beneath the oil phase therein, and means in connection with said dehydrator for separately removing the oil and water phases of the emulsion as the respective masses thereof collect in the upper and lower portions of said treating chamber whereby to provide an uninterrupted flow through said chamber.

2,420,688

PRODUCTION OF STYRENES AND OTHER PRODUCTS

Murray Gray Sturrock and Thomas Lawe, Montreal, Quebec, Canada, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada

No Drawing. Application October 9, 1944, Serial No. 557,936. In Canada September 29, 1944

8 Claims. (Cl. 260—668)

1. In a method of producing mononuclear aromatic compounds, the steps which comprise heating one of a class of substances consisting of asymmetric diaryl substituted paraffins and their nuclear substituted derivatives having at least two carbon atoms in the paraffin chain at a temperature of at least 350° C., and passing the heated substance through a finely divided catalyst which promotes simple molecular decomposition at such a rate as to provide a contact time with the catalyst between about 0.004 second and about 0.4 second.

2,420,689

PROCESS FOR PRODUCING NUCLEAR SUBSTITUTED DIMETHYL STYRENES FROM ASYMMETRIC DIXYLYL ETHANES

Murray Gray Sturrock and Thomas Lawe, Montreal, Quebec, Canada, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada

No Drawing. Application November 14, 1944, Serial No. 563,452

10 Claims. (Cl. 260—669)

1. In a method of producing mono nuclear aromatic compounds including dimethyl styrene, a step which comprises heating an asymmetric dixylyl ethane in the presence of a finely divided catalyst which promotes simple molecular decomposition at a temperature of at least 350° C.

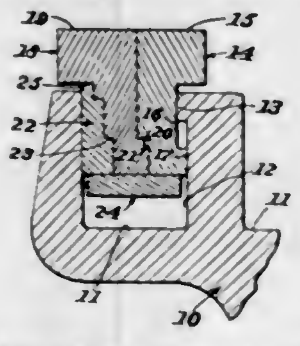
2,420,690

PISTON PACKING RING ASSEMBLY

Willard L. Tatham, Decatur, Ill.

Application October 12, 1944, Serial No. 558,352

6 Claims. (Cl. 309—44)



6. The combination with a piston having a ring receiving recess the inner side wall of which

is undercut, a ring segment having undercut faces radially movable in the recess of said piston and engaging with one of its faces the inner undercut side wall of the recess to limit outward radial movement, a second ring segment in lapped relation to said first segment and having an undercut wall to engage the opposite undercut face of said first segment and be held against independent outward radial movement and form with said first-named segment a continuous cylinder wall contact surface, a third ring segment in lapped relation to said first ring segment and having a recessed wall engaging said second ring segment to prevent independent outward radial movement of said third segment and hold the ring assembly against lateral shifting in the recess, and a spring engaging the lower faces of said segments to maintain them in interlocked relation and always in radially extended position.

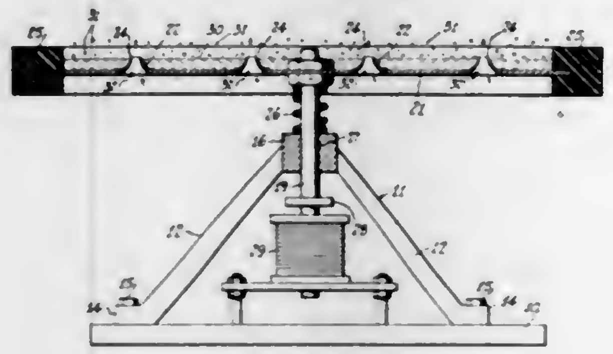
2,420,691

EVAPORATOR

Alfred Vang, New York, N. Y.

Application May 5, 1945, Serial No. 592,205

2 Claims. (Cl. 261—81)



1. An evaporator and humidifier comprising a mounting member, having an axially vertical bearing aperture, a vertical rod disposed through the aperture and adapted to reciprocate vertically therein, a vibratory pan fixedly secured on the upper end of the rod and above the mounting member, said pan comprising a disk of thin substantially rigid material, provided with upward indentations to form cones, each having a hole at the apex, the marginal portions of the hole being sharp and projecting substantially vertically, a thick upstanding rim of resilient material around the peripheral portion of the disk, a helical spring around the upper end portion of the rod and slightly compressed between the disk and mounting member, and means for reciprocating said rod, substantially as shown and described.

2,420,692

CERAMIC DIELECTRIC COMPOSITION

Eugene Wainer, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, Niagara Falls, N. Y.

No Drawing. Application April 10, 1943, Serial No. 482,613

8 Claims. (Cl. 106—39)

1. A dielectric composition having a controllable temperature coefficient of capacity comprising substantially entirely predetermined quantities of the titanates of at least two of the alkaline earth metals calcium, strontium and barium and having a dielectric constant greater than 144.

2,420,693

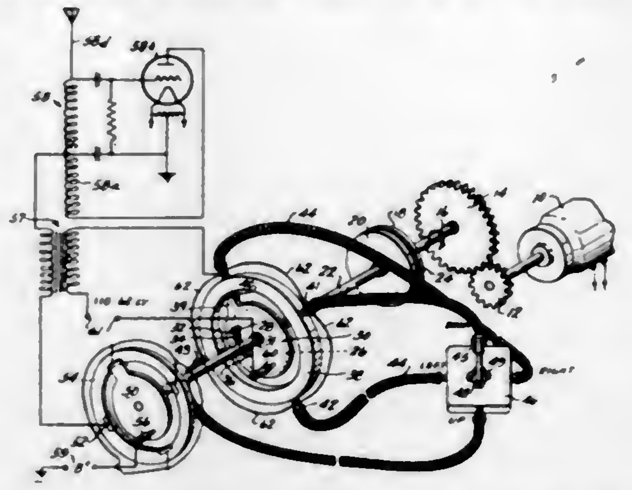
MODULATED RADIO PULSE REMOTE CONTROL SYSTEM

Stanley B. White, Dayton, Ohio

Application August 8, 1944, Serial No. 548,590

11 Claims. (Cl. 250—2)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A remote control system for enabling a distant mechanism to be operated from a control station comprising a radio transmitter located at the control station, means for causing said transmitter to repeatedly transmit a group of synchronizing pulses, means for disabling said first-mentioned means and causing a control signal to be transmitted after the transmission of any selected pulse of said group of pulses, a radio receiver located at the distant mechanism, means connected with said receiver for detecting said synchronizing pulses and said control signal, a movable control element adapted to be moved in sequence from one position to another, means connected with said detecting means for causing said control element to be moved to a different position each time one of the synchronizing pulses is received, one or more normally inactive reversible servomechanisms for controlling the operation of said distant mechanism, means for selectively conditioning said servomechanisms for operation in a forward or a reverse direction in accordance with the position of said control element, and means operably connected with said detecting means for rendering said servomechanisms effective to control the operation of said distant mechanism in a particular manner whenever a control signal is received.

2,420,694

AIR DRYING MIXED ESTERS AND PROCESS FOR PREPARING THE SAME

Rudolf Barthel, Berlin-Karlshorst, Germany, assignor to Bakelite Corporation, New York, N. Y., a corporation of New Jersey

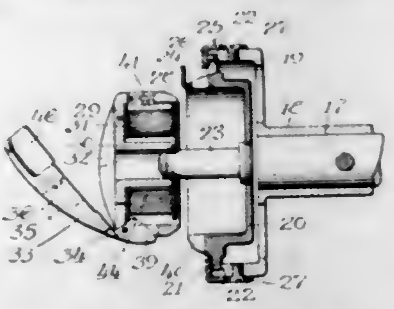
No Drawing. Application February 27, 1940, Serial No. 321,069. In Germany February 16, 1939

16 Claims. (Cl. 260—97.5)

4. Process of preparing a mixed ester which comprises reacting as essential ingredients a polyhydric alcohol with a monocarboxylic acid containing conjugated carbon-to-carbon double bonds and of a low molecular weight characterized by not more than about ten carbon atoms in the molecule and with a higher molecular unsaturated compound from the group consisting of drying oil monocarboxylic acids with at least two isolated double bonds in the molecule and of polyhydric alcohol esters of the acids, said mixed ester having an oily to viscous consistency and drying in air to form coatings.

2,420,695
SEWING MACHINE

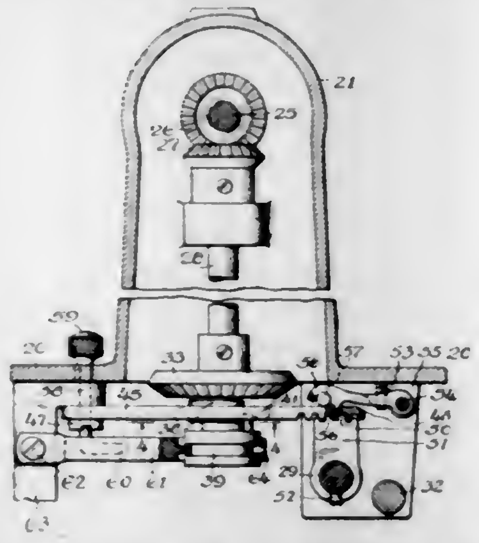
Clarence S. Best, Belvidere, Ill., assignor to National Sewing Machine Company, Belvidere, Ill., a corporation of Illinois
Application May 21, 1945, Serial No. 594,805
12 Claims. (Cl. 112—231)



1. In a sewing machine, a hook and bobbin case holder assembly, consisting essentially of a cup shaped holder provided with a notch in its cylindrical portion, a rotatable hook adapted to receive the holder, a holder-retaining cover connected directly to the hook, a bobbin case removably positioned in the holder, and a spool in the bobbin case, said bobbin case having a lever pivotally mounted near one end in the body portion of the bobbin case, the free end of the lever protruding beyond the peripheral wall of the bobbin case, the opposite end of the lever being engageable in said notch of the holder to guide and position the bobbin case in the holder when the lever is in locked position abutting the face of the bobbin case.

2,420,696
SEWING MACHINE

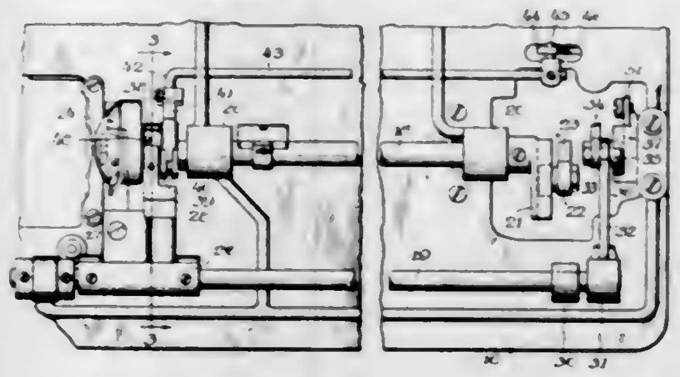
Clarence S. Best, Belvidere, Ill., assignor to National Sewing Machine Company, Belvidere, Ill., a corporation of Illinois
Application May 21, 1945, Serial No. 594,808
8 Claims. (Cl. 112—210)



1. A sewing machine comprising a bed plate, a feed dog movably mounted therein, a horizontal power shaft rotatably mounted above the bed plate, a rotatable vertical shaft driven by the power shaft, a reciprocating connecting rod also driven by the power shaft, a rotatable horizontal hook shaft journaled under the bed plate and geared to said vertical shaft, a feed dog lifter rock shaft operatively connected to the feed dog for imparting rise and fall motions to the feed dog, a feed rock shaft operatively connected to the feed dog for imparting feed and return motions to the feed dog, said lifter and feed rock shafts being journaled under the bed plate parallel with the hook shaft, operative connections between the feed rock shaft and said reciprocating connecting rod for imparting continuous rocking motion to said feed shaft, and operative connections between said lifter rock shaft and said rotatable vertical shaft for imparting rocking motion to the lifter shaft including drop feed mechanism for rendering the lifter shaft inactive.

2,420,697
SEWING MACHINE

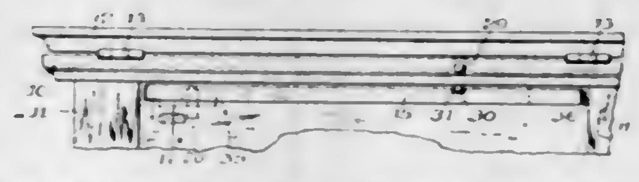
Clarence S. Best, Belvidere, Ill., assignor to National Sewing Machine Company, Belvidere, Ill., a corporation of Illinois
Application June 18, 1945, Serial No. 600,126
7 Claims. (Cl. 112—210)



1. A sewing machine provided with drop feed mechanism comprising a rotatable hook shaft, a bed plate, a feed dog movable in the bed plate, a rock shaft journaled under the bed plate, operative connections between the rock shaft and the feed dog for imparting reciprocating feed and return motions to the feed dog, means for rocking said rock shaft, a clutch-cam slidably mounted on the hook shaft, manually controlled means for slidably moving said clutch-cam on the hook shaft, cooperating means on the clutch-cam and hook shaft for causing the clutch-cam to rotate with the hook shaft when the clutch-cam has been moved to a predetermined position on said hook shaft, and means for holding the clutch-cam against rotation when the clutch-cam has been moved to another predetermined position on said hook shaft, said operative connections between the rock shaft and the feed dog for imparting reciprocating feed and return motions to the feed dog including a pivotally mounted member which engages the clutch-cam and imparts to the feed dog rise and fall movements while the clutch-cam rotates with the hook shaft and which holds the feed dog in dropped position while the clutch-cam is non-rotating.

2,420,698
SEWING MACHINE SUPPORT

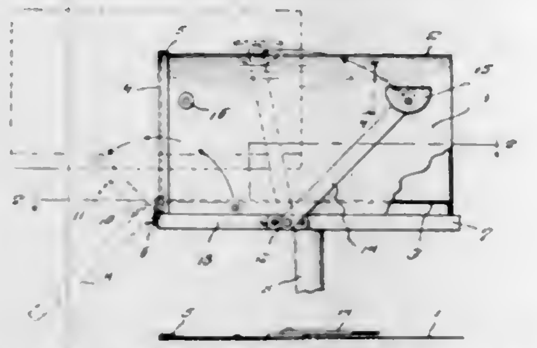
Clarence S. Best, Belvidere, Ill., assignor to National Sewing Machine Company, Belvidere, Ill., a corporation of Illinois
Application June 18, 1945, Serial No. 600,133
9 Claims. (Cl. 311—12)



1. A sewing machine support comprising a table top, a lid hingedly connected thereto, and lid actuated means for supporting the lid when in extended position, said means comprising a lid supporting arm, a fixed support under the table top on which the arm is pivotally mounted, means on the supporting arm and fixed support for automatically urging the arm to lid supporting position, latching means mounted in the table top adapted to engage the supporting arm in retracted position, and a bolt slidably mounted in the table top, the outer end of the bolt protruding from the edge of the table top when the latching means is in arm-engaging position, moving of the lid to extended position forcing said bolt inwardly and thereby releasing the latching means.

2,420,699
MAILBOX

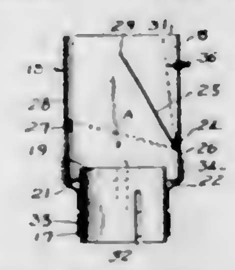
Ivan Cox, Paoli, Ind.
Application June 22, 1945, Serial No. 600,923
1 Claim. (Cl. 232—17)



A mail box and support therefor, said box comprising a body wholly enclosed except for an opening in the front end thereof, a door in association with said opening, ears on the sides of said box near the top thereof, rocker arms each having one end pivotally secured to each of said ears, the other end of each rocker arm being pivotally secured to said support on opposite sides thereof, said door being pivotally mounted on said support, arms extending from the base of said door interiorly of said body, pivotal connections between the extremities of said last-mentioned arms and the sides of said body adjacent the base thereof at a point forwardly of the pivot point of said rocker arms on said support, whereby upon forward movement of said body in a horizontal plane forward movement of the pivot point of said last-mentioned arms will effect opening of said door, and a handle member on the side of said body to facilitate forward movement thereof.

2,420,700
EXHAUST PIPE ATTACHMENT

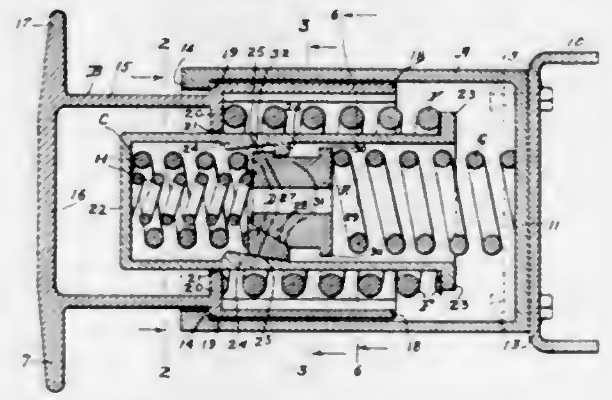
William C. Curphy, Des Moines, Iowa
Application October 18, 1944, Serial No. 559,327
4 Claims. (Cl. 98—59)



1. The combination with an upright exhaust pipe for an engine, of an attachment for keeping moisture from entering the upper end of said exhaust pipe when the engine is not operated, including a pair of tube members one of which is of a greater diameter than the other, with said other tube having its lower end adapted to be positioned about the upper end of said exhaust pipe, and said one tube having its lower end positioned about the upper end of said other tube, means supporting said one tube in a spaced relation on said other tube, a single pivoted valve member within said one tube, means pivotally supporting said valve adjacent one end on said one tube, said valve, in a closed position, being in a covering relation with the top of said other tube, and in an open position being extended upwardly within the confines of said one tube, with the marginal edge of said valve being in a spaced relation with the inner peripheral surface of said one tube whereby any moisture collected on the upper surface of said valve is gravity drained to the outside of said other tube, said valve being moved to an open position in response to the pressure of the exhaust gases discharged from said exhaust pipe, and a stop portion on said one tube for defining the open position of said valve to provide for the movement of the valve to a closed position by the action of gravity.

2,420,701
BUFFER

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 5, 1945, Serial No. 592,144
2 Claims. (Cl. 213—24)



1. In a buffer for railway cars, the combination with a housing secured to the end of the car; of a buffer head slidingly telescoped within the housing; a friction casing within the housing; a friction clutch slidable within said casing, said clutch including a wedge block; spring means within the casing yieldingly opposing relative movement of the clutch and casing toward each other; a follower flange on said casing; a spring opposing relative movement of the buffer head and casing, said spring surrounding the casing and bearing at its opposite ends on said buffer head and follower flange of the casing; and a second spring opposing relative movement of the wedge block and housing toward each other, said second spring being seated at one end on said wedge block and bearing at its other end on the housing, the resistance capacity of said last named spring when partly compressed exceeding the combined resistance capacity of said friction clutch and spring means.

2,420,702
AMINO-ALIPHATIC HYDRAZINES AND PROCESS FOR MAKING SAME

James Gordon Napier Drewitt, London, and Donald Peter Young, Spondon, near Derby, England, assignors to British Celanese Limited, London, England, a company of Great Britain
No Drawing. Application May 26, 1945, Serial No. 596,084. In Great Britain June 28, 1944
7 Claims. (Cl. 260—569)

1. In the production of an amino-hydrazine of the formula NH_2RNHNH_2, the step which comprises reacting a substituted ester of the formula

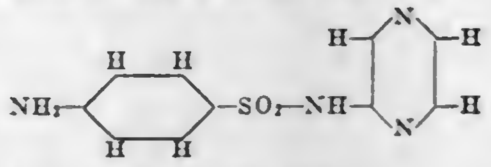
AN—R—X, AN being a diacyl imido group, X a negative radicle of a strong acid, and R an aliphatic radicle, with hydrazine.

7. 6-amino-hexyl hydrazine.

2,420,703
2-SULFANILAMIDOPYRAZINE

Rudolph Conrad Ellingson, Evansville, Ind., assignor to Mead Johnson & Company, Evansville, Ind., a corporation of Indiana
No Drawing. Application February 5, 1941, Serial No. 377,523
2 Claims. (Cl. 260—239.6)

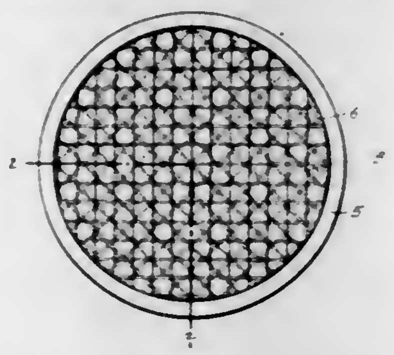
1. The sulfa pyrazine of the formula:



prepared for use as a therapeutic.

2,420,704
BOBBIE PIN HOLDER

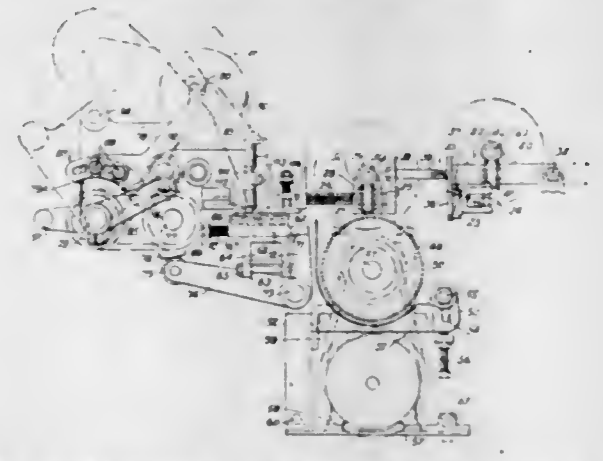
Ruby E. Gould, Tacoma, Wash.
Application September 21, 1945, Serial No. 617,802
3 Claims. (Cl. 223—109)



1. In a holder of the class described, the combination of a plurality of annular bodies, one above the other; with separate parallel filaments stretched across each said body and running in one direction only, the filaments of one said body being non-parallel with the filaments of its adjacent bodies.

2,420,705
BOOKBINDING MACHINE

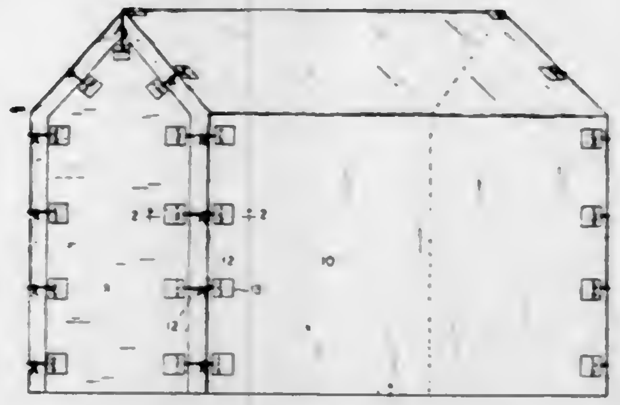
Thomas Harrison, Colindale, London, and John Luke Brooks, Walford, Wimborne, England
Application March 6, 1944, Serial No. 525,216
In Great Britain March 2, 1943
11 Claims. (Cl. 11—1)



1. A bookbinding machine for forming substantially T-shape slots through the back of a book and for passing a tape through the cross pieces of the T, including clamping means for holding the sheets of a book together, cutting means adapted to pass through the book to form the cross piece of the T-slot, a carrier for the cutting means movable relatively to the clamping means for passing the cutting means through the book, releasable means for maintaining an end of the tape against the back of the cutting means during the slot cutting operation so that the tape is drawn through the slot with the cutting means, and means for moving the releasable means relative to the cutting means upon completion of the slot cutting operation so as to leave the tape in the slot.

2,420,706
SHROUD FOR MACHINES

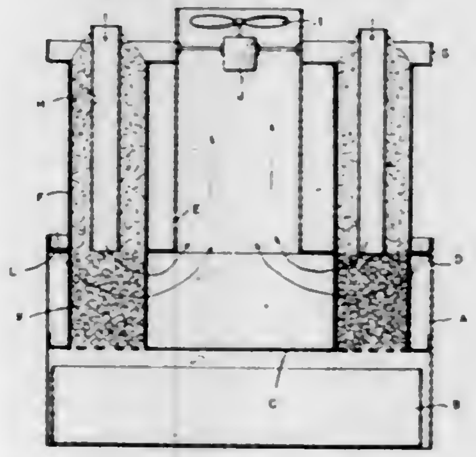
Dwight E. Haven and Carl W. Soderblom, Detroit, Mich.
Application October 9, 1944, Serial No. 557,888
3 Claims. (Cl. 135—15)



3. A shroud for machines or other objects consisting of a plurality of flat sections each having fixed ties thereon, whereby said sections may be secured together, said ties being adjacent to but spaced from the edges of said sections, whereby to provide for a considerable overlap when said sections are secured together.

2,420,707
DEHUMIDIFIER

Theodore R. Hinger, Farmington, Mich.
Application September 18, 1944, Serial No. 554,704
2 Claims. (Cl. 183—4.3)

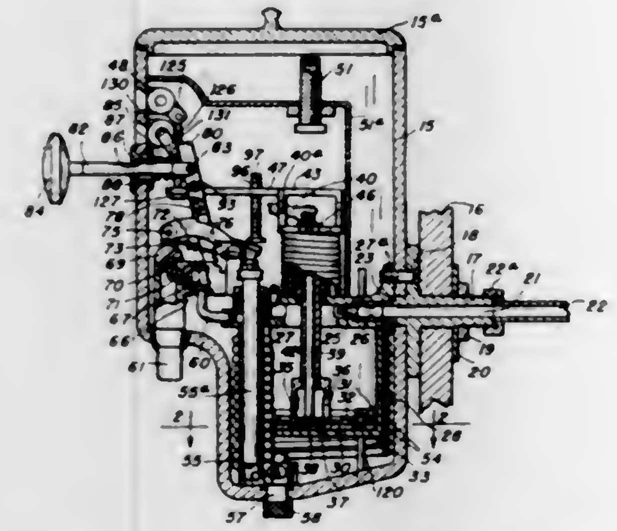


1. A dehumidifying apparatus comprising a casing, a removable tray in the bottom portion thereof, a horizontal partition within said casing above said tray, a series of foraminous tubes extending upward from said casing surrounding and communicating with apertures therein being open at their upper ends, tubes centrally within said foraminous tube extending downward therein to said casing and upward above the upper ends of said foraminous tubes, a tray connected to and communicating with the upper ends of said foraminous tubes for receiving deliquescent

material and feeding the same downward into the annular spaces between said inner tubes and said foraminous tubes, porous material supported on said horizontal partition within said casing beneath the deliquescent material within said foraminous tubes for supporting the same and receiving the drippings therefrom, and means for withdrawing air from said casing whereby air will be fed downward through said inner tubes and through the deliquescent material in said foraminous tubes to pass through the said porous material and to be further dehumidified by the drippings therein, the moisture thus removed diluting said drippings before the passing of the same into the lower tray.

2,420,708
BEER METER

Clifford S. Hutsell, Seattle, Wash.
Continuation of application Serial No. 368,311, December 3, 1940. This application February 9, 1944, Serial No. 521,691
5 Claims. (Cl. 225—10)

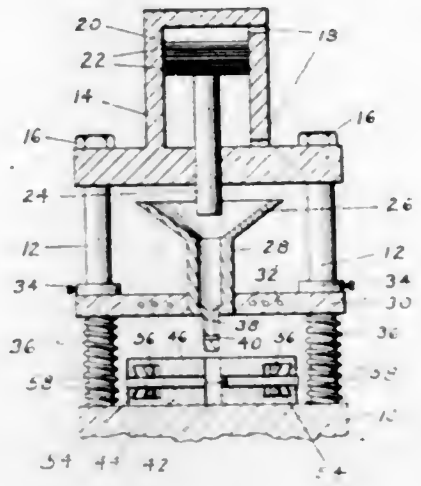


1. Dispensing mechanism for effervescent fluids, comprising: a receiving chamber having a valved reciprocal spring pressed piston therein and fluid supply and discharge means associated therewith to supply fluid to said chamber on one side of the said piston against the urgence of its spring and to discharge the fluid from the other side of said piston, valved dispensing means associated with the discharge means, manually operable adjustable link means to close the valve in said piston and to simultaneously open the valve in the dispensing means, and means movable with said piston and operable upon the adjustable link means to effect the closing of the valve in said dispensing means after a predetermined interval of the stroke of said piston, said manually operable means being operable at the cessation of the flow of fluid from said chamber to open the valve in said reciprocal piston to permit the piston to move under the urgence of its spring and to permit fluid to flow from the supply side to the discharge side of said piston.

2,420,709
SELF-LOCKING MOLD

Karl J. Kopplin, St. Louis, Mo.
Application April 21, 1943, Serial No. 483,970
6 Claims. (Cl. 18—43)

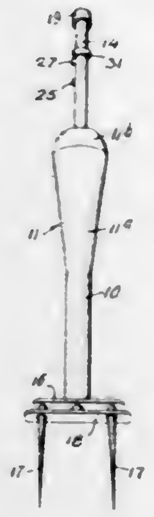
1. A substantially self-contained mold, adapted for use with machines that mold materials under pressure, that comprises a plurality of mold sections, said mold sections being engageable with each other to form at least one material-receiving cavity, an opening in the mold to permit the introduction of molding material into the mold, a passageway connecting said opening with said cavity whereby molding material introduced into said opening can move into said cavity, said mold having a recess in communication with said passageway, and mold-clamping means freely movable in said recess,



said mold-clamping means being movable to one position to clamp the mold sections together and being movable to another position to free said mold sections for independent movement, said mold-clamping means being so positioned in said recess that material moving into said passageway acts upon said mold-clamping means to force the same to move into said one position to clamp said mold sections together.

2,420,710
EJECTOR FORK

Seymour Livingston, New York, N. Y.
Application November 30, 1944, Serial No. 565,859
4 Claims. (Cl. 30—129)



1. An ejector fork comprising a body having a central bore, a plate secured to one end of said body having an orifice in line with said bore, a hollow plunger disposed in said bore and extending beyond said body and plate at its opposite ends, tines secured to said plate and extending away from said body, an ejector plate having orifices through which said tines extend secured to the adjacent end of said plunger, a coil spring in said bore urging said plunger in a direction holding said plates together, and means for holding said ejector plate at a position spaced from said body plate against the resistance of said spring.

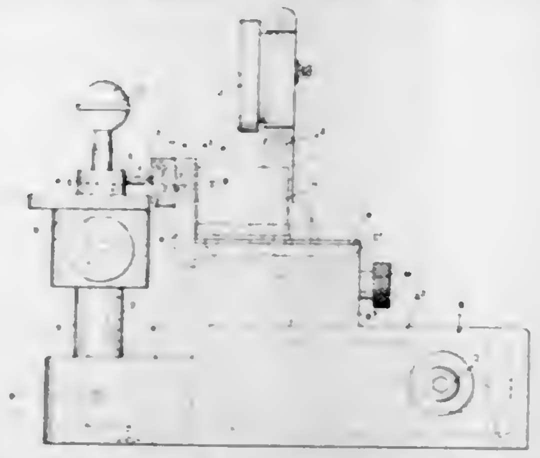
2,420,711

GAGE FOR MEASURING THE WALL THICKNESS OF ANNULAR BEARING MEMBERS

Henry J. Look, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan

Application May 1, 1944, Serial No. 533,555

7 Claims. (Cl. 33—147)



5. An instrument for measuring deviations in wall thickness of concavo-convex arcuate or annular members from a predetermined standard dimension; comprising a supporting frame, a hollow post rising from said frame, a carriage mounted on said frame to be movable towards or from said post and an electromagnetic gage mounted on said carriage including an actuator, an indicator and zero setting means, a table surrounding said post and vertically adjustable thereon on which table said annular members including a master member may be successively placed to surround the post, a rockable shaft journaled within said post, a radius arm or finger projecting from the upper end portion of said shaft to engage the inner surface of each annular member placed on said table and to move the same to an exact position thereon, means for limiting the angular movement of said shaft in one direction including a stop for exactly aligning said finger with said actuator, resilient means for normally holding said shaft and finger at the opposite limit of angular movement, and means for adjusting said carriage to contact said actuator with the outer surface of said master member when placed on said table and positioned by said finger whereupon said indicator may be set to zero and will measure plus or minus deviations from said standard in annular members successively placed on said table and positioned by said finger.

2,420,712

COAXIAL CABLE AND METHOD OF MAKING SAME

Adolph Z. Mample, Glen Rock, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application November 26, 1942, Serial No. 467,001

10 Claims. (Cl. 174—28)

9. A high frequency coaxial cable comprising a preformed flexible outer conducting tubing that forms one of the conductors of the coaxial circuit, the tubing substantially comprising a material that is capable of being uniformly stretched, said tubing being substantially free of bends, kinks and irregularities of a character which would cause signal distortion in excess of a predetermined permissible amount in the coaxial circuit and having a smooth inner circular configuration of uniform diameter substantially throughout the length thereof, said condition having been obtained by the application of a tensional force to the outer conductor sufficient to stretch the same uniformly and remove bends therefrom and by passage of a shaping device through said tubing to remove kinks and irregularities from the inner surface thereof, an inner conductor installed within said tubing, insulator pieces centrally supporting said inner conductor within the tubing, the inner conductor being substantially free of bends, kinks and irregularities of a character which would cause signal distortion in excess of a predetermined permissible amount in the coaxial circuit, said condition having been obtained by the application of a tensional force to the inner conductor sufficient to stretch the same uniformly after its installation in said outer tubing.

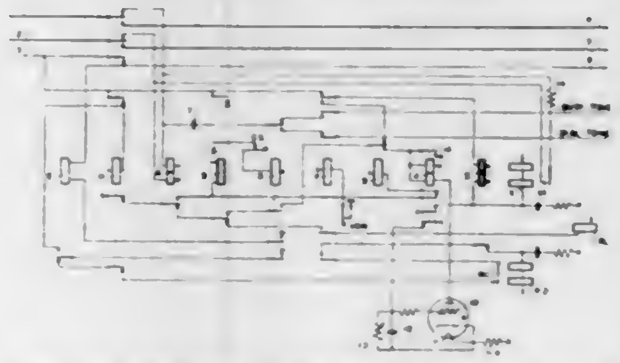
2,420,713

IMPULSING CIRCUIT

Harold J. McCreary, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application November 23, 1944, Serial No. 564,880

10 Claims. (Cl. 179—16)



1. In an automatic switch having a line relay, a holding relay controlled by contacts of said line relay, and stepping means for directing the operation of the switch; timing means controlled by contacts of said line relay operative to repeat impulses having a fixed desired duration to said stepping means in response to the receipt of impulses of an undesired duration by said line relay, and means controlled by said stepping means for pre-energizing said line relay to thereby increase the average current in said holding relay during impulsing.

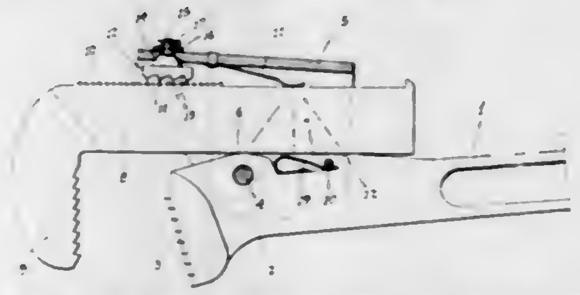
2,420,714

RELEASABLE LOCKING MEANS FOR PIVOTING-TRAVELING OUTER JAW WRENCHES

Lawrence C. Mead, Turlock, Calif.

Application December 14, 1943, Serial No. 514,271

3 Claims. (Cl. 81—103)



1. A wrench including a handle having a fixed jaw at one end, a yoke, means pivoting the yoke on the handle adjacent one edge thereof and adjacent the jaw; said edge being curved concentric with the pivot for a short arcuate extent and having a longitudinal recess therein on the side of the pivot opposite the jaw, a shank slidable in the yoke and having a jaw on its outer end, said shank being adapted to rock on one edge about said curved edge, a row of teeth along the opposite edge of the shank, a cooperating tooth in the yoke between the pivot and jaws, the shank being spaced from the top of the yoke, means including a spring mounted in the recess tending to rock the shank and yoke as a unit in one direction, and a relatively strong spring between the yoke and shank tending to rotate the yoke relative to the shank in a direction to hold the teeth in mesh; the first named spring being capable of compression sufficient to enable the adjacent edge of the shank to simultaneously engage points on the handle edge ahead of and immediately beyond the recess and the last named spring then engaging the shank at a point substantially midway between said two points of the handle edge.

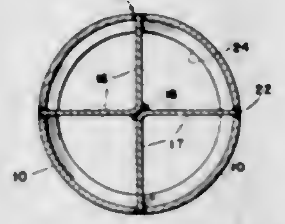
2,420,715

TUBE CONSTRUCTION

James F. Millward, Seattle, Wash.

Application August 26, 1944, Serial No. 551,293

2 Claims. (Cl. 189—34)



1. A structural member, comprising: a tubular shell pierced by chamfers throughout its length and having notches in said chamfers in spaced apart relation therealong, said chamfers dividing said shell into segments, interiorly of said tubular member radial webs having the outer edges thereof aligned with and closing the bottoms of the said chamfers, and tongues on said webs disposed in said notches, said assembly being integrated together along contacting edges by welding.

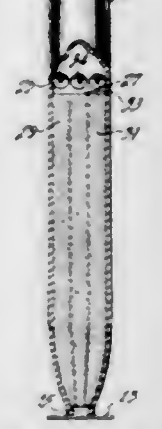
2,420,716

READING AID FOR THE BLIND

George A. Morton and Leslie E. Flory, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application November 4, 1944, Serial No. 561,897

7 Claims. (Cl. 250—41.5)



1. A reading device pick-up comprising a source of light, means for deriving a line-of-light from said source and for directing it upon a printed surface to illuminate said surface in a direction normal to the direction of extension of said print, means for picking-up light reflected from a first segmental area of said illuminated surface, separate means for picking up light reflected from a second segmental area of said illuminated surface, and means for converting said separately picked-up light into electrical signals representative of the light picked up from each of said segments.

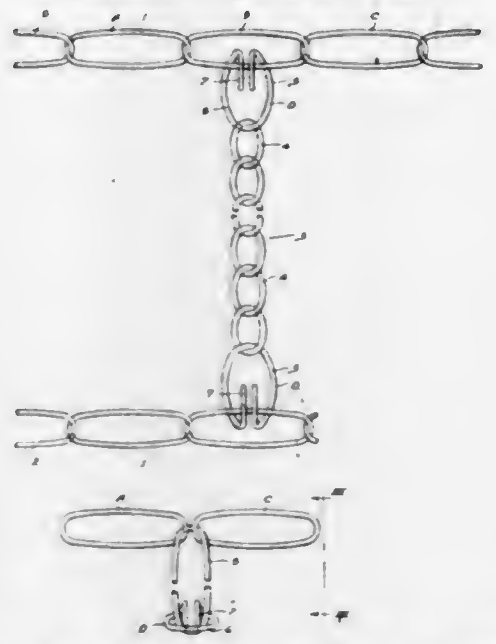
2,420,717

CROSS CHAIN FOR ANTISKID TIRE CHAINS

John O. Mulderick, Monaca, Pa., assignor to S. G. Taylor Chain Company, Hammond, Ind., a corporation

Application March 19, 1946, Serial No. 655,546

2 Claims. (Cl. 152—242)



1. In an anti-skid tire chain, the combination with a pair of side chains formed of elongate closed links adapted in service to lie on the opposite sides of a tire, said closed links being so formed and connected together that each can be turned to a position substantially at right angles to the adjoining side links, of a cross chain having end links connected to links of the side chains, the outer end of each of said end links being doubled back on itself to form a hook through which a side of one of the side links extends, the free end of said hook being disposed close enough to the plane of the end link to keep said side of the side link from passing under said free end under service conditions, and the width of the opening through said end link being great enough to receive said side link only when the latter is inserted endwise therein, whereby when the side link is turned at right angles to the adjoining side links its end portion can be inserted in said opening and passed under the free end of the hook to connect and disconnect the two links.

2,420,718

SEAL CONSTRUCTION

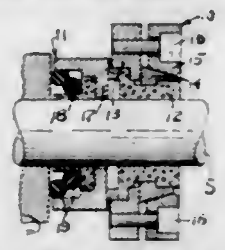
Oscar G. Odelius, Chicago, Ill.

Application September 1, 1944, Serial No. 552,233

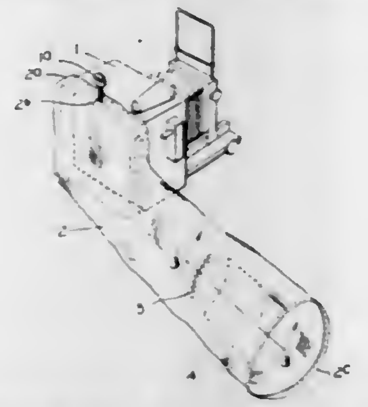
5 Claims. (Cl. 286—7)

1. A seal construction adapted to seal a shaft relative to a stationary part through which the shaft projects while accommodating relative axial movements between said shaft and part which comprises a plastic composition bushing having an active sealing end face, means sealingly clamping said plastic composition bushing on said shaft, a stationary seal member having an active end face for sliding sealing engagement with the active end face of the bushing, said stationary seal member receiving said shaft freely therethrough, a plastic composition sleeve slidably car-

rying said stationary seal member on said shaft, and a plurality of rubber O rings disposed around said sleeve in sealing engagement with each other and sealingly connecting said part and said sleeve, said rubber rings being loaded to urge the stationary seal member against the active end face of the bushing.



2,420,719
CAMERA LIGHT PROTECTING SLEEVE
Paul Park, Campo, Calif.
Application February 19, 1945, Serial No. 578,654
3 Claims. (Cl. 95—20)



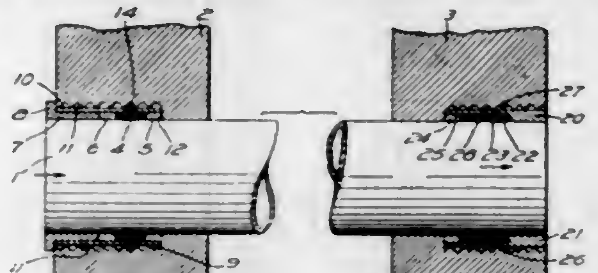
1. The combination with a camera, of a light protecting sleeve, and, an internal pocket positioned in said sleeve near its extended end for the temporary storage of photographic slides.

2,420,720
METHOD OF PREPARING COATED COMPOSITIONS
Alphonse Pechukas, Akron, and Paul J. Gegner, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 31, 1943, Serial No. 496,938
9 Claims. (Cl. 117—6)

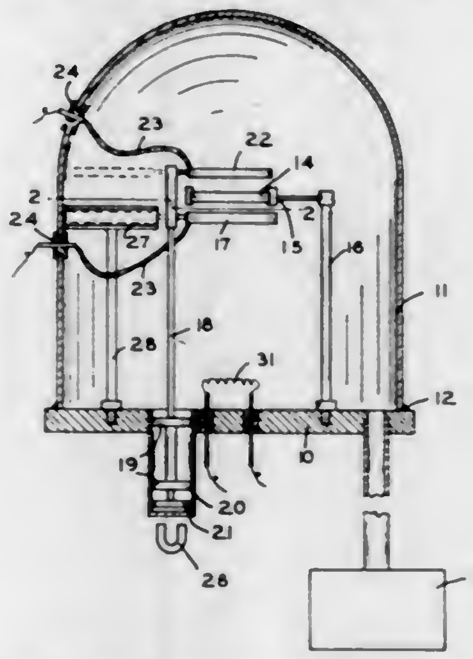
6. A method of providing a base with a synthetic resin surface, which comprises applying to a base a poly-unsaturated polymerizable ester which contains at least two polymerizable unsaturated carbon-carbon radicals separated by an ester linkage, said ester containing a polymerization catalyst for the ester, applying a coating of a water soluble film forming material to the ester, polymerizing the ester and removing the water soluble film from the polymerized ester.

2,420,721
CONDENSER TUBE PACKING
Samuel Pennella, East Orange, N. J.
Application January 7, 1944, Serial No. 517,316
18 Claims. (Cl. 285—45)

1. In a heat exchanger, tube sheets, fluid circulating tubes, said tube sheets provided with openings to receive the ends of said tubes and with countersinks about said openings terminating in internal annular shoulders, the walls of said countersinks being roughened, packing for forming a fluid-tight seal between the tubes and tube sheets, each tube packing including a thin fiber confining sleeve swellable when wetted which sleeve is distorted radially outwardly into the recesses of the roughened portion of the countersinks when driven thereinto.



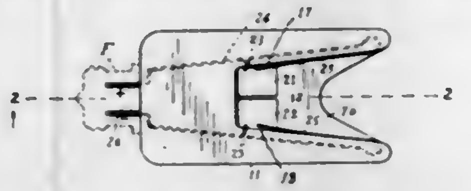
2,420,722
APPARATUS FOR COATING SURFACES
Stanley V. Peterson, Rochester, and Arthur F. Turner, Brighton, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application December 11, 1942, Serial No. 468,734
3 Claims. (Cl. 91—12.2)



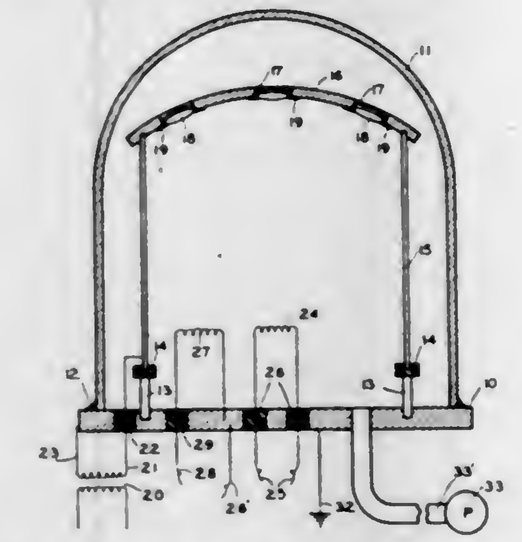
2. An apparatus of the type described comprising means providing an evacuated chamber, means for holding within the chamber a body having a surface to receive an evaporated material deposit, means facing said surface for vaporizing a source of material to be deposited, a pair of electrodes positioned, respectively, on opposite sides of the body, at least one of said electrodes being formed of a material which will not disintegrate when the electrodes are energized and having an area at least as great as said surface, said last named electrode being movably mounted near said body, means for selectively moving said last named electrode into an operative position so that it is close to and at least coextensive in area with said surface, and means for energizing the electrodes.

2,420,723
ELECTRIC TRAP
Harry L. Ratchford, Muncie, Ind.
Application May 15, 1945, Serial No. 593,786
5 Claims. (Cl. 43—98)

2. An electric trap, consisting of a dielectric body having a longitudinal recess, a compartment communicating with said recess and a floor interconnecting the opposite walls of said recess, spaced conductive plates each inset in said floor at a position adjacent to each other and adjacent to said compartment, a conductive strip arranged on the face of each of said walls and extending from the zone of said plates and to the outboard end of said recess thence being turned within the mass of said body and extending to the opposite end thereof and embodying a terminal connection, and a conductor interconnecting each of said strips and the floor plate adjacent thereto.

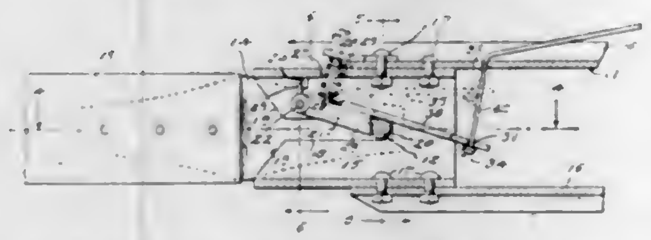


2,420,724
METHOD OF DEPOSITING FILMS OF MATERIAL
Richard M. Rice, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application September 21, 1944, Serial No. 555,097
8 Claims. (Cl. 117—54)



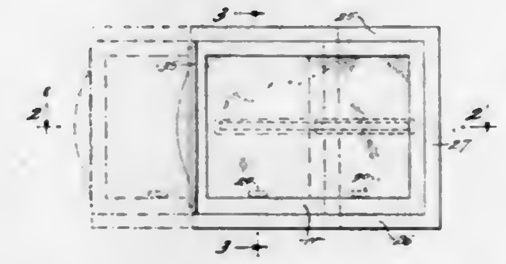
3. The method of depositing a film of material on a surface of a body in an evacuated chamber which comprises evacuating the chamber to a pressure of about 0.01–10 microns, creating and maintaining an electrical discharge within the chamber by applying a potential to electrodes in the chamber and providing a thermal source of electrons in the chamber and immediately after the discharge treatment depositing a film of the material on the surface within the chamber.

2,420,725
COUPLING
Glen L. Riggins, Greene, Iowa
Application August 11, 1944, Serial No. 549,076
5 Claims. (Cl. 280—33.15)



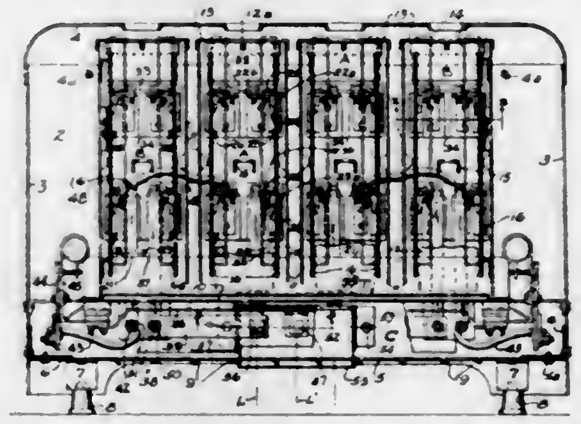
1. In a coupling for vehicles, the combination with a tongue pin supported on spaced plates and comprising the tongue of one of said vehicles, of a tubular coupling member secured to the draw bar of the other of said vehicles and adapted slidably and snugly to be received between said plates, said tubular member having longitudinal slots formed in opposite sides thereof and extended substantially throughout the length thereof for receiving said tongue pin into a position adjacent the closed ends of said slots, a substantially rectangularly shaped latch disposed within said member and adapted on one end thereof to engage said tongue pin in line contact therewith, means for pivotally supporting said latch at its opposite, forward end on the tubular member for vertical swinging movement as a lever of the second class about an axis disposed laterally of the slots and adjacent the open ends thereof, means for releasably maintaining the latch in line contact with the tongue pin, and means connected directly to said latch and operative from one of said vehicles for raising the latch out of engagement with the tongue pin whereby the pin may be removed from the tubular member upon movement of the vehicles with respect to each other.

2,420,726
PHOTOGRAPHER'S FILM NUMBERING BOX
John Sabin and Frank R. Peterson,. Los Angeles, Calif.
Application May 27, 1946, Serial No. 672,442
2 Claims. (Cl. 95—1.1)



1. A photographer's film numbering box comprising means providing an apertured panel on which a film or plate holder may be positioned, a number holder arranged opposite the aperture, a lens for projecting the number on the number holder through the aperture onto the portion of the plate or film exposed through the aperture, said panel being slidable between limits and having a second aperture adapted to be positioned opposite the lens.

2,420,727
QUICK CIRCUIT CHANGE FOR ELECTRICALLY ACTUATED DEVICES
Charles H. Steuber and Paul J. McCullough, St. Louis, Mo., assignors to Joseph Pavelka, St. Louis, Mo.
Application May 12, 1943, Serial No. 486,642
3 Claims. (Cl. 171—97)



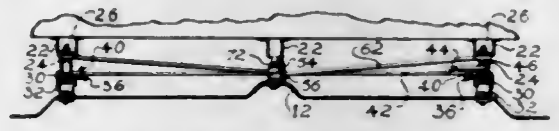
1. In a device having a plurality of electrically actuated units each having two terminal contacts,

posts for current supply wires, a conduit from one of said posts to one of said contacts on one unit and a connector from said contact to a contact on the other unit, a jumper from said other post to the other contact of said first mentioned unit, and a connector from said latter mentioned post to the remaining contact on said other unit, whereby said units are placed electrically in parallel in the device circuit, said jumper being readily disconnected and moved to non-functioning position, and said conduit being readily disconnected electrically from the contact to which it is connected and moved to the other contact of the same unit, whereby the units are placed electrically in series in the device circuit, and said jumper having a strip of stiff insulation secured thereto and projecting substantially beyond the boundaries of said jumper to insulate said jumper from accidental contact with all parts of the device after disconnecting said jumper and moving it to non-functioning position.

2,420,728
SEAT STABILIZER

Theodore Ulrich, Milwaukee, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application December 3, 1941, Serial No. 421,409
8 Claims. (Cl. 155—14)



4. In a vehicle, a seat, a floor, means for adjusting said seat relative to said floor longitudinally of the vehicle, a cushion element secured to said floor beneath said seat, and a stabilizer comprising a wire rigidly attached to said seat at each end of said wire adjacent the side edges of said seat and having its intermediate portion wound around said cushion element.

2,420,729
DYEING WITH INDIGOID VAT DYESTUFFS

Edward Weber, Winchester, Mass., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application March 30, 1944, Serial No. 528,771
12 Claims. (Cl. 8—25)

1. A method of producing full shades with an indigoid vat dyestuff on piece-goods comprising animal fibers which comprises dyeing the piece-goods in rope form in a vat of an indigoid vat dyestuff, the extent of the dyeing being less than sufficient to produce a full shade, and dyeing the piece-goods with a wool color to a sufficient extent to produce a full shade with the dyeing of the indigoid vat dyestuff.

2,420,730
TREATMENT OF POLYMERS WITH ACYLAMIDES AND ALDEHYDES

David W. Woodward, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

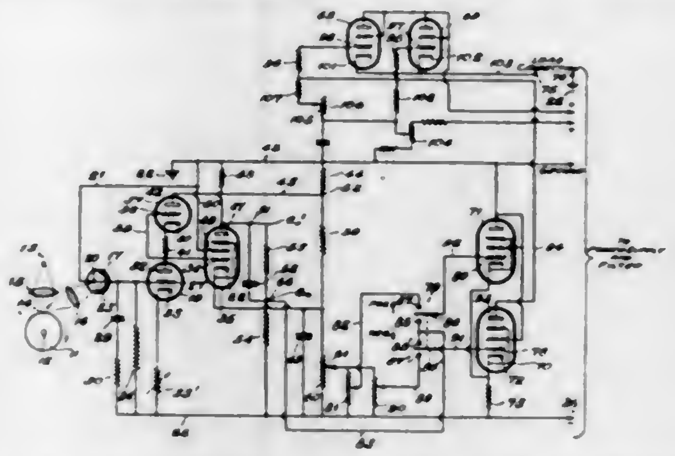
No Drawing. Application June 9, 1944, Serial No. 539,605
11 Claims. (Cl. 260—226)

1. Process which comprises reacting, at 20–60° C. for 0.5 to 3 hours in solution in a substantially anhydrous, inert, liquid, organic solvent and in the presence of an acidic catalyst, (1) formaldehyde and (2) an organic acid amide of a monoamine with an organic monobasic acid of the class consisting of carboxylic acids and sulfonic acids, said amide having hydrogen on the amido nitrogen, in the ratio of approximately one mol of aldehyde per mol of amide, with (3) an organic solvent soluble cellulose ester.

2,420,731
FACSIMILE APPARATUS

Maurice Artzt, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 18, 1942, Serial No. 465,977
7 Claims. (Cl. 250—41.5)

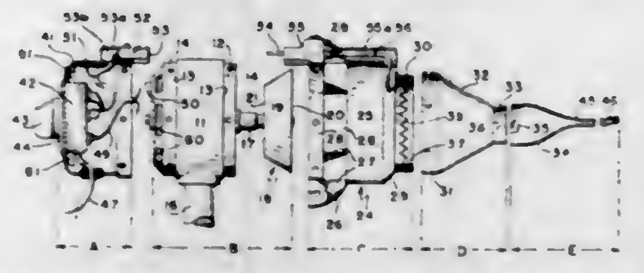


1. A direct-coupled amplifier for amplifying energy extending over a relatively wide frequency spectrum covering a range from substantially direct current or zero frequency to a relatively high frequency value comprising a signal energy source for deriving signal energy having low and high frequency components extending within the wide frequency spectrum, an amplifier for amplifying energy at the said frequencies, an input network comprising a series connected capacity and resistance element and a second resistance element shunting the series network for supplying energy from the signal energy source to the amplifier, said input network being adapted to energize the amplifier to accentuate the amplification of the low frequency energy substantially as compared with the higher frequency energy, an output network connected to the amplifier comprising capacity and resistance means for attenuating the amplified low frequency energy to re-establish a substantially uniform output response from the amplifier for all values of input frequencies within the limits supplied from the source.

2,420,732
PORTABLE HAIR DRIER

Suzanne Bichsel and Bernard Isaacson, New York, N. Y.

Application August 3, 1945, Serial No. 608,747
1 Claim. (Cl. 34—243)

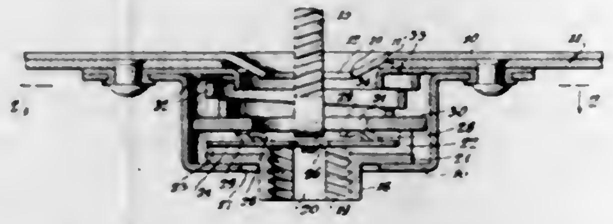


The combination in a portable hair drying apparatus of an electrically operated driving unit having a hand holding means thereon, an air propeller attached upon the shaft of said driving unit, the said air propeller having radially arranged fan blades and an annular conical air deflecting flange secured to the outer edges of the said radially arranged fan blades, a cylindrical housing unit detachably secured to the said driving unit and adapted to enclose the said air propelling unit, electrically energized heating elements within the said cylindrical housing unit, an air concentration unit detachably secured to the said housing unit, an outlet nozzle detachably secured to the said air concentration unit, a switch housing unit detachably secured to the rear of said driving unit, a switch in said switch housing unit connected in the circuit to the said driving unit and to the said heating element, a plug connecting element upon the said cylindrical housing unit, a plug receiving receptacle upon the said switch housing unit adapted to receive said plug connecting element to close electrical circuits to the said electrically energized heating units when the aforesaid switch is on and when the said cylindrical housing unit is connected to the said driving unit, and means for supplying electric current to the said driving unit and heating elements.

2,420,733
FASTENER RECEPTACLE

George Cannova, Flushing, N. Y., assignor to Camloc Fastener Corporation, New York, N. Y., a corporation of New York

Application February 8, 1944, Serial No. 521,497
2 Claims. (Cl. 24—221)

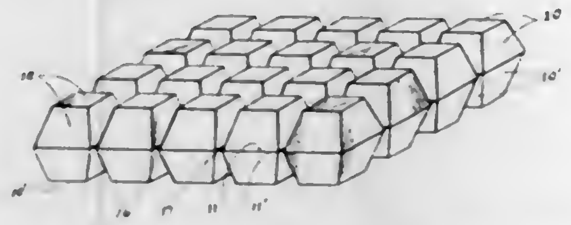


1. A stud receptacle for a fastener assembly, said receptacle including a movably mounted member to be engaged and subjected to loading by a stud, a part extending from said member, a locking plate movably mounted upon said part and providing in cooperation therewith a detent structure to normally maintain said plate in a predetermined position with reference to said part, a flange extending from said part and enclosing said plate, and a loading spring so positioned relative to the flange as to act against said flange to yieldingly support said member.

2,420,734
TOILET SOAP NOVELTY

Charles H. Churchill, Cortland, N. Y.

Application February 4, 1946, Serial No. 645,401
4 Claims. (Cl. 252—134)



1. A compactly articulated cake of toilet soap collectively shaped to be hand clasped and comprising two similar closely interspaced rows of truncated block segments of water soluble soap respectively having a comparatively wide base face and an initial altitude prior to attrition materially greater in extent than the interspacing given to the respective base faces, the corresponding base faces of one such block row being superimposed in substantial registry upon those in the other row to virtually align in a common plane, and a relatively thin woven binder means affixedly interposed between all such superimposed base faces to successively span the aforesaid block interspaces and serving to render any next adjacent pairs of superimposed soap blocks inclinable without cake rupture.

2,420,735
TREATMENT OF PROTEIN WITH ACIDS AND PRODUCT RESULTING THEREFROM

John Robert Coffman, St. Paul, Minn., and Harry F. Lewis, Appleton, Wis., assignors, by mesne assignments, to General Mills, Inc., a corporation of Delaware

No Drawing. Application August 23, 1945, Serial No. 612,307
10 Claims. (Cl. 260—112)

1. Process for the modification of protein to reduce its water absorptive properties which comprises treating said protein with a treating agent comprising a mixture of nitrous acid and a highly ionized strong mineral acid selected from the group consisting of hydrochloric acid and sulfuric acid, the hydrogen ion concentration of the treating agent being not substantially less than 1N, for an extended period to convert ammonium groups and primary amide groups to carboxyl groups, and to convert primary amine groups to hydroxyl groups without extensive hydrolysis of the peptide bonds.

2,420,736
TREATMENT OF PROTEIN WITH ACIDS AND FURFURYL ALCOHOL AND PRODUCT RESULTING THEREFROM

John Robert Coffman, St. Paul, Minn., and Harry F. Lewis, Appleton, Wis., assignors, by mesne assignments, to General Mills, Inc., a corporation of Delaware

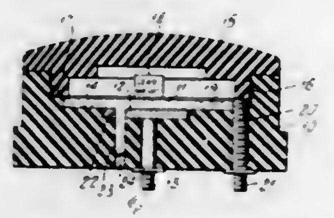
No Drawing. Application August 23, 1945, Serial No. 612,308
8 Claims. (Cl. 260—112)

1. A modified protein characterized by reduced water absorption, said protein having the major proportion of its peptide bonds intact and having ammonium groups and primary amide groups converted to COOX groups in which X is a furfuryl group.

2,420,737
GRANULATED CARBON MICROPHONE

Jan de Boer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application March 23, 1943, Serial No. 480,193
In the Netherlands November 11, 1939
1 Claim. (Cl. 179—122)

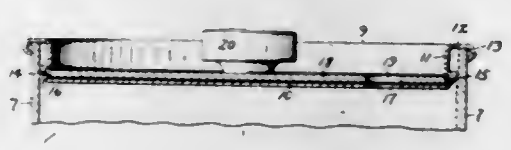


A microphone of the inertia type to be placed against the human body and using granulated carbon, comprising a casing member, a recess in said casing forming a chamber for said granulated carbon, a flat disc metallic diaphragm forming an electrode for said microphone and covering over said granulated carbon which is located in said recess, the dimensions of said recess in the direction of compression of said granulated carbon being in the order of magnitude of ten times the maximum amplitude of the diaphragm, a solid cylindrical lead weight secured to the central portion of said diaphragm to increase the amplitude thereof, another electrode located in the lower portion of said recess and in contact with said granulated carbon, a cover for completely enclosing said casing whereby the microphone is responsive to the natural resonance in the proximity of the upper limit of the range of audio frequencies.

2,420,738

PAPER POWDER CAN

Harry K. Dickerman, Buffalo, N. Y., assignor to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware
Application February 10, 1944, Serial No. 521,835
1 Claim. (Cl. 229—5.5)

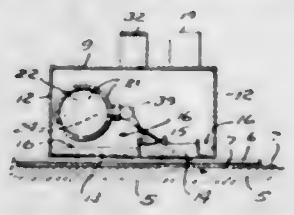


In a container, in combination, said container having walls and an opening to its interior, a closure member for the container opening having a peripheral wall for telescoping engagement within the container wall, a peripheral sealing and retaining bead on the outside of said peripheral wall and having an abrupt crest projecting therefrom so as to engage the inner surface of the container walls to retain the closure member in closing position, the inner surface of the container wall engaged by said bead being continuous and uninterrupted, said peripheral wall being offset or deflected continuously for the entire periphery of the closure member to form said bead which is thus continuous to provide substantially a sift-proof seal, said offset part of said peripheral wall forming a peripheral groove opening at the inner side of said peripheral wall, said bead and said peripheral groove being positioned substantially at the inner extremity of said closure member and the bead having its outer surface inclined inwardly longitudinally of the container to form an inwardly tapered peripheral guiding surface positioned substantially at the inner extremity of the closure member and cooperating with the container walls to guide and position the closure member during assembly thereof in the container, said crest of said sealing and retaining bead being of slightly greater outside diameter than the inside diameter of the container walls whereby the closure member when inserted in closing position fits tightly within said container walls with a pressure fit exerting outward pressure against said inner surface of the container wall which is initially continuous and uninterrupted thus causing said abrupt crest of said sealing and retaining bead to bite into and to be imbedded in said uninterrupted surface of the container walls, thus to provide a substantially tight anti-sift joint and to form a permanent attachment for holding the closure member in operative assembled position.

2,420,739

DRYING UNIT USING STEAM JETS

William C. Dorsch, Jamaica, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application October 25, 1945, Serial No. 624,439
1 Claim. (Cl. 34—155)

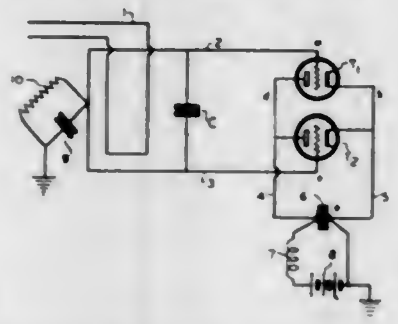


The combination with a bed adapted to support a traveling web imprinted with steam-set ink, of a steam drier comprising a casing having closed top, side and end walls and a bottom wall having an opening therein, means supporting said casing with said opening extending across said web and an upturned flange around said opening forming a trough, a steam pipe in said casing displaced to one side of said opening and having a plurality of nozzles positioned to discharge jets of steam in a downwardly inclined direction through said opening onto said web, said trough extending beneath the ends of said nozzles to catch condensate dripping therefrom, a drain communicating with said trough to discharge said condensate, and a second drain connected to said steam pipe to collect and discharge condensate from the inside of said pipe having means forming a liquid seal to prevent escape of steam therethrough.

2,420,740

FREQUENCY-DOUBLING DEVICE FOR HIGH-FREQUENCY OSCILLATIONS

Tjiske Douma, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 17, 1943, Serial No. 479,464
In the Netherlands August 15, 1940
4 Claims. (Cl. 250—36)

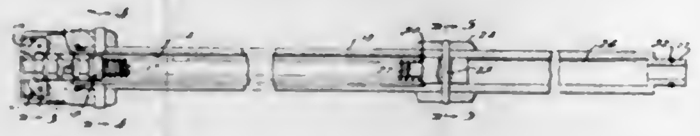


1. A frequency doubling device for use in the ultra-high frequency range, said device comprising a pair of discharge tubes each having a cathode, an anode, and a control grid, said cathodes being interconnected and said anodes being interconnected, a resonant circuit fed with energy from a given alternating current source and tuned to the fundamental frequency thereof, said resonant circuit constituting part of a Lecher-wire system which interconnects said resonant circuit and the grids of said tubes in such manner that said grids are excited in phase opposition, a ground connection to a nodal point of alternating potential on said Lecher-wire system, a second Lecher-wire system constituting an output circuit common to the two said tubes and connected from their cathodes to their anodes, said output circuit being tuned to the second harmonic of said fundamental frequency, said device being further characterized in that the inter-electrode capacitances of said tubes constitute the main impedances of a balanced bridge circuit whereby radiation losses at the second harmonic frequency through the first said Lecher-wire system are minimized.

2,420,741

NUT DRIVER

Erik E. Eriksson, Detroit, Mich.
Application July 12, 1944, Serial No. 544,479
5 Claims. (Cl. 81—125)

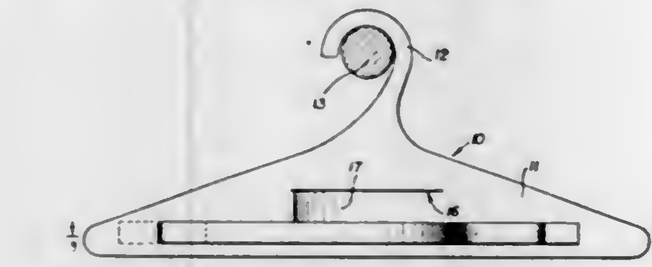


1. In a driver for nuts of non-circular configuration, a tubular body, a detachable driving end on said body detachably secured to said tubular body and having a bore of the size and shape to drivingly engage a nut to be driven, means for receiving driving movement and imparting said driving movement to said body, an elongated tubular nut receiving magazine adapted to be inserted within said tubular body, and means to secure the tubular magazine to hold said nuts in vertical alignment with said driving end.

2,420,742

COMBINATION GARMENT HANGER

Heinz Erran, Mount Vernon, N. Y.
Application June 29, 1946, Serial No. 680,343
4 Claims. (Cl. 223—88)

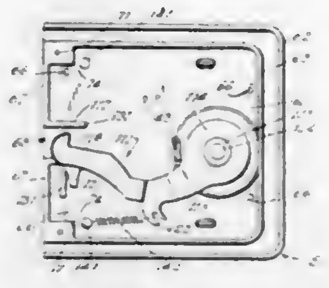


1. A combination coat and trousers hanger comprising a flat sheet-like unitary substantially triangular body formed of substantially rigid material, said body having a hook thereon and being adapted to have a coat draped thereover, said body having spaced rectangular openings therethrough at the ends thereof, a resilient strip of substantially the same width as the height of said openings, said strip having the extremities thereof deformed to provide aligned outwardly extending noses, said openings having substantially the same length, one of said noses being of greater length than the other and of greater length than the length of said openings, the other of said noses being of substantially the same length as the length of said openings, said strip being adapted to clamp trousers between said body and strip by insertion of said longer nose into one of said openings with said longer nose extending beyond the end wall of said one of said openings, then swinging the other end of the strip toward the body and forcing said shorter nose through the other of said openings and sliding said strip in the direction of said other of said openings until said shorter nose extends beyond the end wall of its said opening, the intermediate portion of said strip being thereby positioned on one side of said body.

2,420,743

LOCK

Richard J. Fruendt, Chicago, Ill., assignor of one-half to F. P. Smith Wire and Iron Works, Chicago, Ill., a corporation of Illinois
Application July 14, 1944, Serial No. 544,853
13 Claims. (Cl. 70—462)

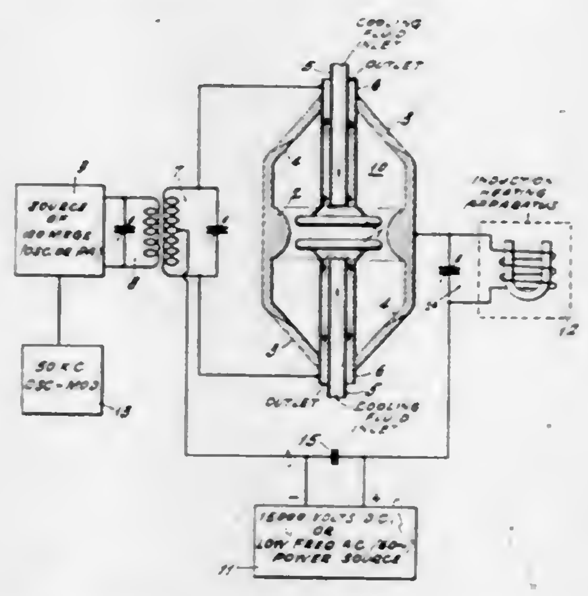


2. In combination in a latch-lock adapted to be mounted in any one of a plurality of predetermined positions to meet various conditions encountered in practice, a casing; a swingable latch member mounted within said casing and disengageable therefrom; a manually engageable portion integral with said member and accessible exteriorly of said casing; and key-operated means for actuating said member, said member being operable from locking to unlocking position by either said manually engageable portion or said key-operated means; and said member being freely swingable under gravity to return to locking position upon release of said manually engageable portion or return to normal of said key-operated means.

2,420,744

HIGH-FREQUENCY OSCILLATOR OF THE SECONDARY ELECTRON-EMISSION TYPE

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 4, 1944, Serial No. 534,066
21 Claims. (Cl. 250—36)

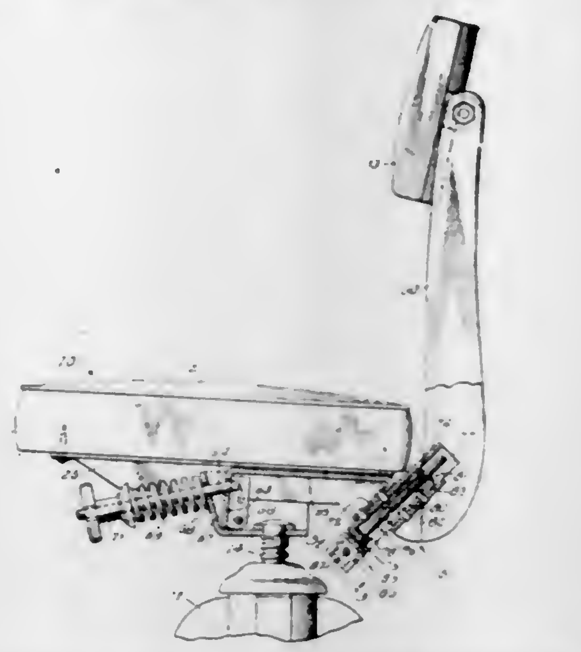

COOLING FLUID INLET
OUTLET
INDUCTION HEATING APPARATUS
50 KC OSC-MOD
OUTLET
COOLING FLUID INLET
15000 VOLTS D.C. OR LOW FREQ A.C. 50~ POWER SOURCE

1. An electron discharge device suitable for producing a high power output, comprising a pair of spaced cathodes having secondary emissive surfaces facing each other, an anode surrounding the space between said cathodes, a source of high frequency current coupled between said cathodes for exciting them, means for interrupting the emission from said cathode surfaces at a frequency lower than the excitation frequency, and an output circuit coupled to said anode for deriving power at said lower frequency.

2,420,745

POSTURE CHAIR

Frank B. Harman, Grand Rapids, Mich.
Application March 6, 1944, Serial No. 525,212
1 Claim. (Cl. 155—77)



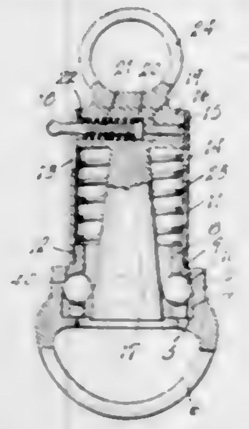
In a posture chair of the class described, a supporting base, a seat, means connecting said seat to said base for rocking movement about a horizontal axis, said means comprising a bracket member secured to said seat and having an horizontal pivot connection at its front end with said base structure, said bracket having means at its rear end extending at an angle of about 45° forwardly and downwardly therefrom, a chair back, and means connecting said chair back to said angularly extending bracket means for movement in parallel relation to the angle of said angularly extending means, said connecting means comprising a pair of relatively slidably interconnected members, one of which is rigidly secured to said angularly extending bracket means, and the other of which is rigidly secured to said chair back, a screw rotatably mounted in said fixedly mounted member but held against axial movement relative thereto, said screw having threaded engagement with a portion of the interlocked member to which the back is secured, a shaft journalled in said fixedly mounted member and extending transversely of said screw, gear means interconnecting said shaft and screw for simultaneous rotation, said shaft extending laterally to adjacent one side of the seat, and being provided with a hand wheel for facilitating manual rotation of said shaft and corresponding adjustment of the back.

2,420,746

AUTOMATIC LOAD RELEASING COUPLING OR CLUTCH FOR PARACHUTES AND THE LIKE

William A. Heidman and William A. Heidman, Jr., Grand Rapids, Mich.
Application February 28, 1945, Serial No. 580,192
13 Claims. (Cl. 294—83)

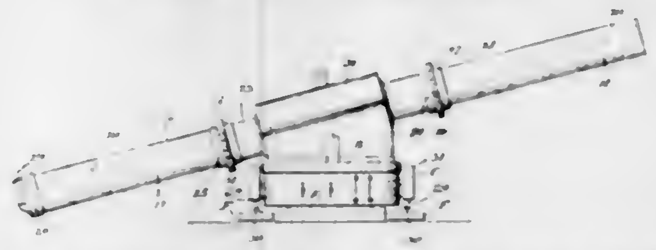
10. An automatic load releasing coupling of the class described comprising coacting separable clutch members one of which is adapted for attachment to a load and the other adapted to transmit the pull of the load from the first clutch member towards a parachute or the like, a clutch control member operatively associated with one of said clutch members and provided with a yielding means acting to bias it to clutch engaging position, and a detent for holding said control member in clutch releasing position against the tension of its said biasing means, said clutch control member biasing means being adapted to yield to the inertia of said control member when the coupling is subjected to an impact such as that resulting from the falling coupling striking the load or ground.



2,420,747

TRIMMING MACHINE

Henry James Hendra, Montreal, Quebec, Canada
Application November 28, 1944, Serial No. 565,518
In Canada November 29, 1943
17 Claims. (Cl. 198—112)

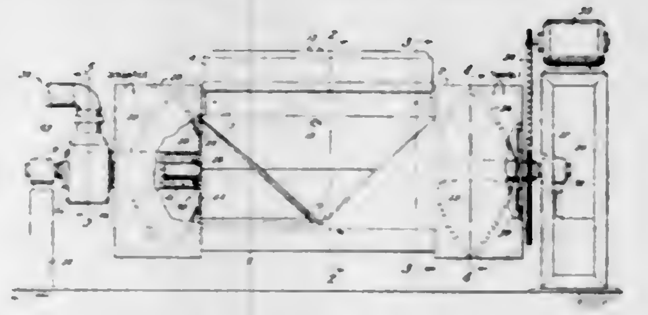


1. A trimmer comprising a bed-plate, a gear box pivotally supported on the bed-plate, a platform above the gear box supported freely to turn above a vertical axis, a conveyor having a cylindrical casing with an internal spiral flight, means rotatably supporting the casing on the platform, a prime mover, a driving shaft in the gear box driven by the prime mover, gear means extending from the driving shaft to the casing to rotate the latter, and gear means operated from the shaft by which the platform may be turned in either direction with respect to the gear box.

2,420,748

TUMBLING MILL

George M. Howard, Cincinnati, Ohio
Application July 21, 1944, Serial No. 545,892
4 Claims. (Cl. 51—164)



1. A tumbling mill comprising a tumbling drum formed with a diagonal conduit leading into a side of the drum and with an outlet, and means for inducing a current of air into the drum through said conduit and out of said outlet whereby a swirling air current is passed through the drum.

2,420,749

TREATMENT OF MONOCYCLIC OLEFINIC HYDROCARBONS

Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 28, 1945, Serial No. 590,959
6 Claims. (Cl. 260—668)

1. A process for producing an aromatic hydrocarbon which comprises reacting a monocyclic diolefinic hydrocarbon containing a ring of 6 carbon atoms in the presence of a dilute aqueous solution containing from about 0.1 to about 5% by weight of an acid-acting catalyst at a temperature of from about 100° to about 400° C.

2,420,750

PROCESS FOR POLYMERIZING CONJUGATED BUTADIENES IN THE PRESENCE OF A HEXA-ARYL ETHANE, AND PRODUCTS THEREOF

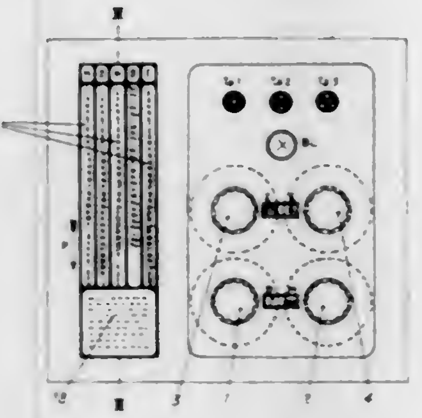
David Josefowitz, New York, N. Y., assignor to Publicker Industries Inc., a corporation of Pennsylvania
No Drawing. Application November 17, 1944, Serial No 563,997
8 Claims. (Cl. 260—93)

5. In a process for polymerizing a conjugated butadiene hydrocarbon in bulk to produce synthetic polymerized substances, the step which comprises carrying on the polymerization in the presence of 0.5 to 2.0 parts of a hexa-aryl ethane per 100 parts of butadiene hydrocarbon, at a temperature of 100–120° C. for 24–100 hours.

2,420,751

PHASE CALCULATING DEVICE

Werner Lenzlinger, Zurich, Switzerland
Application December 12, 1942, Serial No. 468,845
In Switzerland December 16, 1941
11 Claims. (Cl. 235—61)

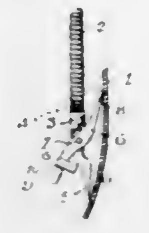


1. Apparatus for the determination of a momentary status of any periodical occurrence, the duration period and the starting moment of which are known, comprising, in combination, a plurality of manually operated setting organs adapted to be moved to one set of positions indicating said starting moment and to another set of positions indicating the time of the momentary status desired, an indicating organ, electromagnetic means for shifting said indicating organ step by step, means connecting said setting organs with said electromagnetic means energizing said electromagnetic means to move said indicating organ automatically a number of steps characterizing said starting moment and further to move said indicating organ a number of steps corresponding to a complement of the value characterizing the momentary status to another value fixed in advance, all in accordance with the position of the above-mentioned setting organs and separate switches connected with the last-mentioned means for initiating the two movements of said indicating organ, and for resetting it to the initial position said two movements being in the same direction.

2,420,752

COLLAR ATTACHMENT

Joseph W. Less, Clinton, Iowa
Application October 15, 1945, Serial No. 622,473
4 Claims. (Cl. 2—132)

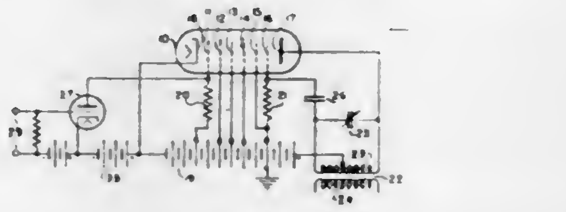


3. An attachment for an attached collar of a shirt. including a member of helically wound wire laterally flexible adapted at one extremity to lie within the fold of said collar and including a depending extension having an impalement point, and a member pointed at one end mounted on said depending extension adapted to be manually actuated to swing said point toward and away from the first named point, the two points normally extending in opposite directions away from each other in directions substantially paralleling the named depending extension, manual pressure on the parts adapted to impale both points in the point of the collar.

2,420,753

WAVE-SIGNAL TRANSLATING SYSTEM

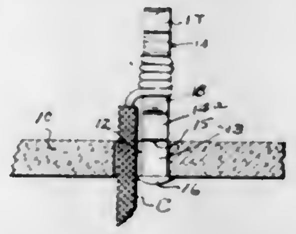
Arthur V. Loughren, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 10, 1943, Serial No. 509,718
17 Claims. (Cl. 250—36)



1. A high-frequency wave-signal translating system comprising, an electron multiplier including in closely spaced alignment in the order named an electron-permeable electron-multiplier electrode, an electron-permeable control electrode and a collector anode, said electrodes being arranged transverse the path of electron flow therebetween and the spacing between said electron multiplier and control electrodes being small to provide an electron transit time small with relation to the period of the translated wave signal, means for supplying electrons to said electron-multiplier electrode, means for biasing said multiplier electrode and said anode to progressively higher positive potentials with relation to said supply means, a wave-signal input circuit coupled to said control and multiplier electrodes, and a wave-signal output circuit coupled to said anode and one of said electrodes.

2,420,754
TERMINAL PANEL

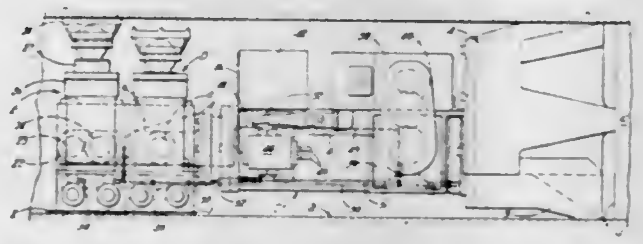
Wilford C. MacFadden, Philadelphia, Pa., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application June 18, 1943, Serial No. 491,415
2 Claims. (Cl. 173—324)



1. A terminal panel comprising a supporting member of insulating material formed with a T-shaped opening, a wiring lug formed with an attaching portion of rectangular section and of greater length than the thickness of the supporting member and fitted into one angular sectional part of said opening, the terminal end portion of said attaching lug being upset over marginal edge portions of the opening of said supporting member, the other angular sectional portion of said opening affording passage for a conductor to be attached to an extension of said lug.

2,420,755
APPARATUS FOR MINING

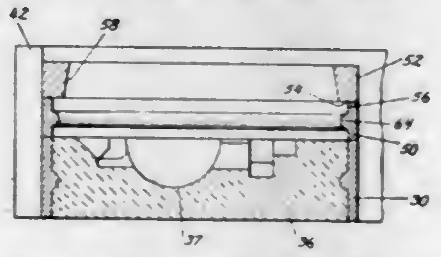
John Bridie Mavor, Glasgow, Scotland, assignor to Joy Manufacturing Company, Franklin, Pa.
Application July 18, 1944, Serial No. 545,432
In Great Britain December 4, 1942
5 Claims. (Cl. 262—8)



1. A coal mining machine comprising a coal dislodging member, a pair of jacks disposed one in front of the other behind said member, means for alternately engaging the jacks with the roof of a mine, extensible concentric means connecting both jacks separately to said member, and means for extending said concentric means alternately whereby to force said member ahead by steps while the thrust is taken by the engaged jack.

2,420,756
METHOD OF MAKING PATTERNS

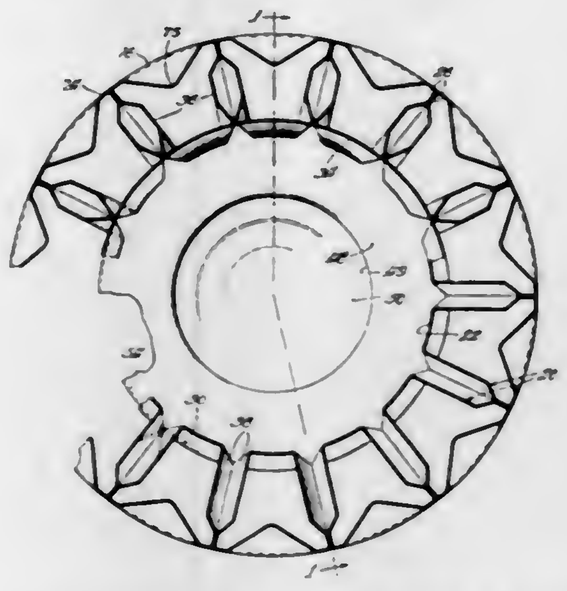
Raymond J. Miller, Detroit, Mich., assignor, by direct and mesne assignments, to Miller Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application August 14, 1942, Serial No. 454,831
2 Claims. (Cl. 22—195)



1. The method of making production patterns on bases of predetermined accurate external dimensions which comprises forming an accurately dimensioned frame to carry the pattern thereby assuring accuracy as to length and width and providing an indication as to the desired height, forming a frame having similar length and width dimensions to carry a mold having an impression of the pattern to be formed, superimposing the pattern carrying frame on the mold carrying frame, and superimposing on the pattern carrying frame a third frame having similar external length and width dimensions adapted to overlie the inner wall of the pattern carrying frame to establish a point for dimension change of a pattern forming substance cast into the pattern carrying frame and the mold impression of the pattern to be formed to serve as an indication of the amount of material to be removed to cause the pattern base to conform to the desired height dimension.

2,420,757
HEAT EXCHANGE ASSEMBLY

George R. Neumann, St. Clair Shores, Eugene F. Farrell, Grosse Point Woods, and Charles S. Davis, Jr., Detroit, Mich., assignors to Borg-Warner Corporation, Chicago 4, Ill., a corporation of Illinois
Application November 5, 1943, Serial No. 509,078
5 Claims. (Cl. 257—241)

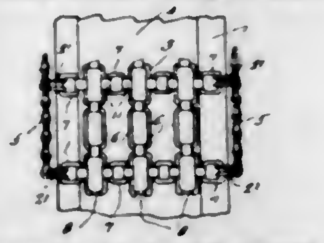


1. As an article of manufacture a heat exchanger in which there are a plurality of trough-shaped channel members of substantially uniform construction, each said channel member comprising a stamping of fire resisting material, and being substantially trough-shaped with flattened edge portions, the side portions of each channel member being indented, a depressed portion from the bottom marginal edge of each channel member leading to the indented side portion on each side thereof, and an escape recess at the other end of said channel member from the depressed portion, on each side thereof, said channel members being attached together on their side and end marginal portions thereby forming a plurality of separate conduits, one of said conduits being for air and the other said conduit forming an escape path for heated products of combustion.

2,420,758
ANTISKID CHAIN

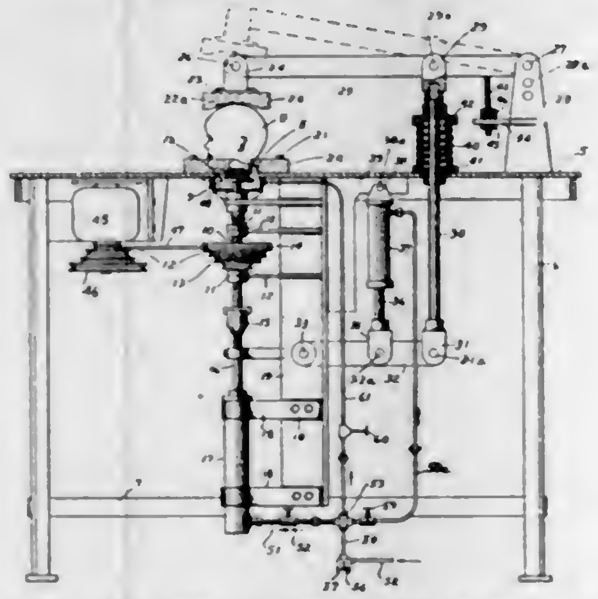
Joseph F. Owings, Coulee City, Wash.
Application June 15, 1945, Serial No. 599,691
1 Claim. (Cl. 152—239)

An anti-skid chain for a tire of a length adapting it to extend about the tread portion of a tire, and comprising longitudinally extending rows of elongated links and short looped bands extending between the links with their ends loosely engaged about ends of the links, ends of the said links having portions reduced in thickness and constituting seats for end portions of said bands, short transverse links between certain of the longitudinal links midway ends thereof and of a width appreciably less than the length of the longitudinally extending links, confronting ends of the transverse links and sides of the longitudinally extending links having portions reduced in thickness, short looped bands extending between and loosely engaged about the reduced portions of the end portions of the transverse links and the confronting side portions of the adjoining longitudinally extending links, terminal links at ends of the rows or longitudinally extending rows of links having perforated ears, a pin passing transversely through the ears of all of the terminal links to pivotally connect the companion end links of each longitudinal row, side chains, hooks connecting said side chains with transverse links at opposite sides of the tire chain, and means for releasably connecting ends of the side chains with each other.



2,420,759
SHAPING MACHINE

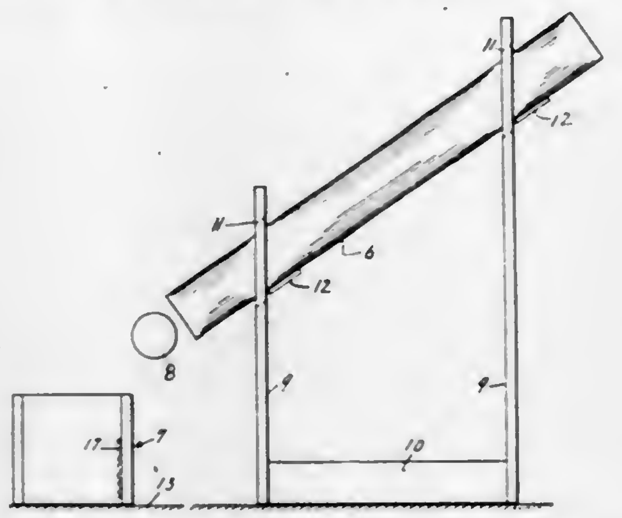
Frank F. Stelz, Sunnyside, Long Island, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application February 12, 1945, Serial No. 577,483
3 Claims. (Cl. 77—4)



1. A machine for reaming the interior wall of the neck-portion of a doll-head, comprising a frame, a table connected to said frame, said table having an opening, a hollow support fixed to the top of said table in registration with said opening, a bearing located below said table and connected to said table, a vertical shaft located in said bearing, said shaft being turnable in said bearing and being vertically movable in said bearing, a reamer fixed to the top of said shaft, drive mechanism for rotating said shaft, said shaft and said reamer having a common vertical axis which is coincident with the axis of said hollow support, the lower end of said shaft being turnably connected to a plunger, the lower end of said plunger extending piston-like into the upper end of a first air-cylinder, a clamping device located above said support, said clamping device being connected to an upper lever which is connected by a pivot to an upstanding extension of said table, a vertical rod which extends through said table, the upper end of said vertical rod being connected pivotally to said upper lever between its pivot and said clamping device, said upper lever being upwardly biased, the lower end of said rod being pivotally connected to a lower lever which is connected by a pivot to an arm which depends from said table, a second air-cylinder which is located above said lower lever, the upper end of said second air-cylinder being connected to said table, a second plunger which fits piston-like in said second air-cylinder, said second plunger extending through the bottom of said second air-cylinder, the lower end of said second plunger being connected pivotally to said lower lever between the ends thereof, an air-inlet pipe, branch pipes connected to said air-inlet pipe through an operator-controlled valve, said branch pipes being connected respectively to the lower end of the first air-cylinder and to the upper end of the second air-cylinder.

2,420,760
GRAVITY PROJECTOR

Frances J. Sullivan, Los Angeles, Calif.
Application July 24, 1944, Serial No. 546,316
3 Claims. (Cl. 273—129)



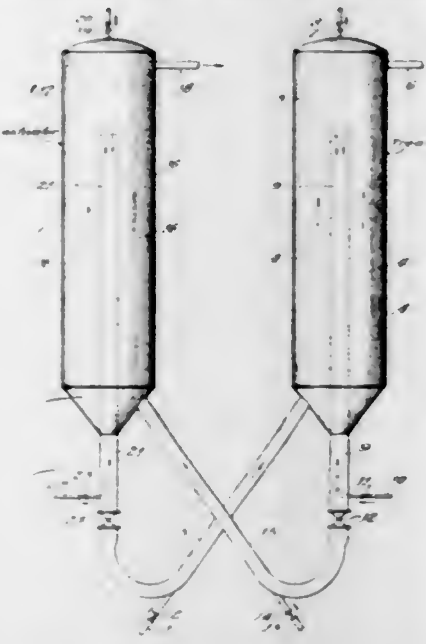
3. In a toy of the character described, a straight elongated cylindrical tube having a length approximately 10 times its diameter, means for mounting the tube in inclined position at an angle of approximately 35° to a horizontal plane, and a disc roller adapted for insertion into the upper end of the tube for discharge through the lower end, the disc being operable by reason of its diameter thickness and weight, to yield to air resistance and friction for normally tumbling and gravitating into rolling position while passing through the tube regardless of the manner of insertion.

2,420,761
PROCESS FOR TREATING A LIQUID WITH A SUSPENSION OF SOLIDS BY PASSAGE THEREOF THROUGH A SEPARATOR, REGENERATING THE SEPARATED SOLIDS FOR RE-USE WITH UNTREATED LIQUID

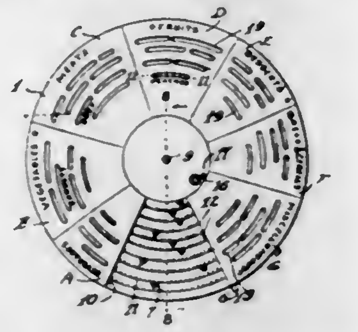
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application October 23, 1942, Serial No. 463,054
3 Claims. (Cl. 196—147)

2. In the refining of hydrocarbon oil by treatment thereof with particles of solid adsorbent

material to remove impurities from the oil, the method which comprises passing a suspension of the solid adsorbent particles in the oil upwardly through a treating zone, separating solid particles containing impurities from the treated oil by gravity in an upper region of said zone, passing the separated particles downwardly by gravity through an ascending stream of wash liquid for adhering hydrocarbons, thereafter suspending the solid particles in a liquid solvent for adsorbed impurities and passing the resultant suspension upwardly through a second zone, separating thus treated particles by gravity from said liquid solvent in an upper region of the second zone and passing the same downwardly by gravity through an ascending stream of additional liquid solvent, and then returning the solid particles to the first-mentioned zone in suspension in a further quantity of the oil to be refined.

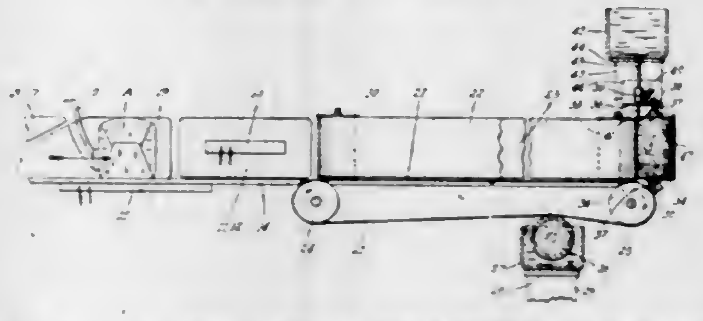


2,420,762
MEANS FOR ADDING VALUES
George W. Torrence, Peoria, Ill.
Application July 1, 1944, Serial No. 543,063
5 Claims. (Cl. 235—78)



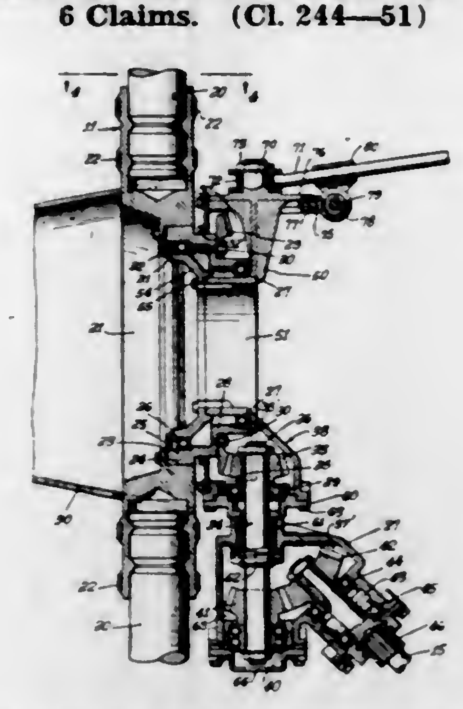
1. In a device of the nature described, a housing part of which has a series of slots therein severally having designations thereat, by data, certain vitamin and mineral-containing foods, a series of flat members mounted in the housing and paralleling the slotted part adapted to be shifted in opposite directions in their own planes and having slots therein in line with and each paralleling one of the slots in the housing for receiving therethrough a shifting-pin inserted through the housing slot, the said members each corresponding to a given vitamin or mineral in a food, and said slots in the members severally varying in spread relatively in a direction paralleling the lengthwise spread of said housing slot, a scale for each member to shift therewith including numerals arranged to have increasing value in one direction therealong for denoting increasingly higher and higher counts of units of vitamins, a mounted shiftable indicator at each said scale, any said indicator being moved in a shift in one direction of a member corresponding thereto toward the highest reading end of the scale, and means to prevent movement of the indicator from the position to which it may have been moved when the member corresponding thereto is shifted in an opposite direction, the movement of the several members being limited by the extent of spread of the slot in the housing corresponding to any one member in the travel of the said shifting-pin.

2,420,763
HOT SEAL COOLING MECHANISM
James D. Wells, Floral Park, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application January 2, 1942, Serial No. 425,419
4 Claims. (Cl. 93—2)



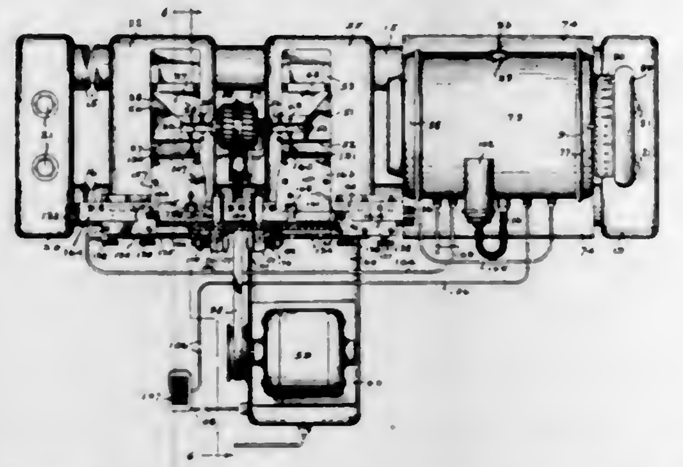
1. A seal setting device for a wrapping machine in which heat is applied to the seals of a wrapped article to join the overlapped portion thereof comprising, a conveyor for forwarding wrapped articles having hot seals along a predetermined path of travel, a plurality of water absorbent belts arranged in tandem on opposite sides of said conveyor, and means for supplying water to said belts to keep them wet.

2,420,764
DIRECTIONAL PROPELLER CONTROL
Daniel R. Zuck, Los Angeles, Calif.
Application September 21, 1943, Serial No. 503,221
6 Claims. (Cl. 244—51)



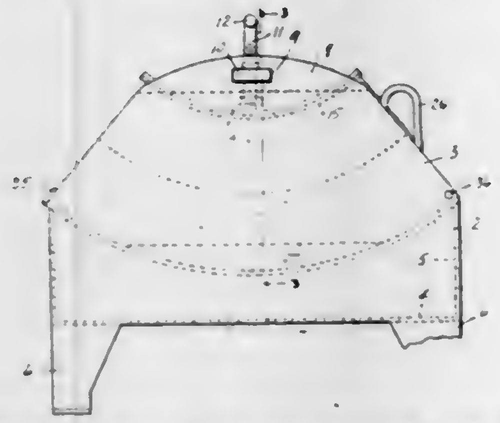
1. In an aircraft a propeller assembly comprising: a hollow hub carrying blades and rotatably mounted on a hollow hub support, means on a frame element of said aircraft rotatably mounting said hub support for rotation on an axis at an angle to the axis of said hub, means to rotatably position said last named means, and a coupling for delivering motive power to said hub, said coupling comprising a ring gear fixed to said hub, a driving gear meshing with said ring gear said driving gear being mounted on an axis coincident with the axis of said first named means, and lubricant sealed means to deliver motive power to said driving gear.

2,420,765
DYNAMIC BALANCER
Robert B. Annis, Indianapolis, Ind.
Application March 25, 1944, Serial No. 528,067
9 Claims. (Cl. 73—66)



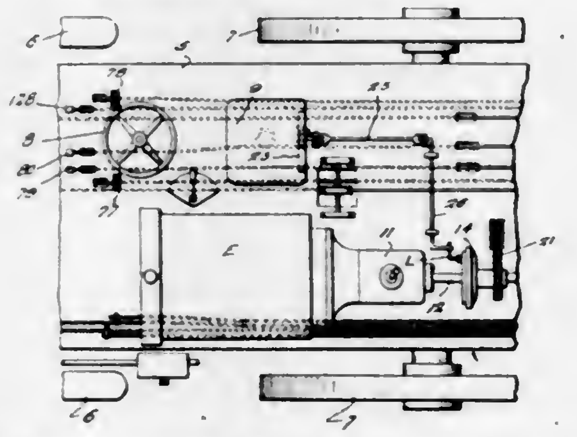
1. In a machine for indicating balance of a rotatable body, the combination of a pair of spaced apart axially aligned bearings to carry the body; means constraining the bearings to lateral vibrations; a track fixed in parallel relation to the axis of said bearings; a pair of vibration induced voltage generators; a carriage for each of said generators mounted to be shiftable along said track and selectively fixed therealong; a laterally vibratile member extending upwardly from each of said generators for actuating the generators; a substantially rigid vibration bar formed with a track along its under side to receive upper portions of said generator vibratile members therealong secure against lateral displacement, said bar having its weight supported by said vibratile members; and a connector member interconnecting each of said bearings with said bar, said interconnecting members being mounted to be held in substantially parallel alignment and normal to said bearing axis.

2,420,766
SECTION MOLD
Harold L. Baker, Clovis, Calif.
Application September 20, 1943, Serial No. 503,079
9 Claims. (Cl. 18—18)



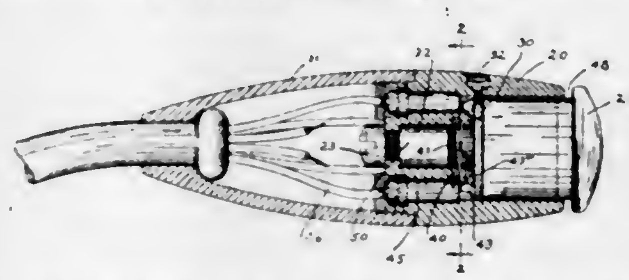
7. A section mold having vertical parallel side walls and a bottom wall extending at right angles thereto forming an upwardly opening channel for receiving a section of a tire casing; a pair of side-spacer plates respectively adjacent said side walls and parallel therewith; said spacer plates having opposite end edges extending convergently upwardly from the ends of said bottom wall; means formed on one end of said bottom wall extending over one of the said convergent end edges of said side-spacer plates for preventing vertical movement of the ends of said side-spacer plates adjacent said means; the said side walls and said side-spacer plates being formed with coaxial openings at the ends of said channel oposite said means, and a rod removably extending through said openings; tread plates on said bottom wall engaged at one of their ends by said means, and openings formed in the opposite ends of said tread plates coaxial with the openings in said spacer plates for receiving said rod.

2,420,767
CLUTCH CONTROLLING DEVICE
Herbert Barras, Baldwin, La.
Original application April 25, 1944, Serial No. 532,622. Divided and this application February 16, 1945, Serial No. 578,277
3 Claims. (Cl. 180—77)



1. In combination with a power-driven machine having an operator's seat and including mechanism, a motor, and a normally disengaged clutch engageable for connecting and transmitting power from the engine to said mechanism, said operator's seat including a fixed seat bottom, said clutch including an operating lever, a rearwardly yieldable member arranged to engage the back of the operator when seated upon the seat bottom, and means operatively connecting said yieldable member with said operating lever, whereby the yieldable member will be moved rearwardly by the mere act of the operator leaning backwardly to effect engagement of the clutch, and whereby the yieldable member will be moved forward by disengagement of the clutch when the operator leans forwardly.

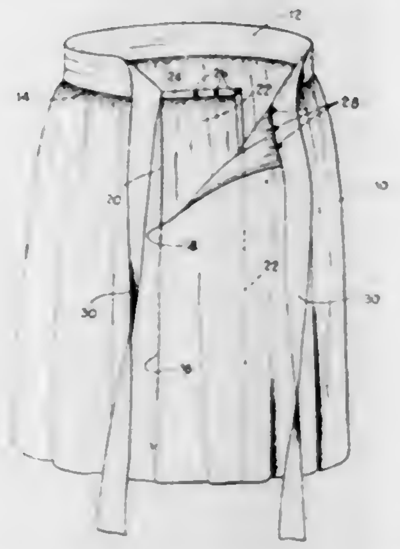
2,420,768
ELECTRIC SWITCH
David D. Beveridge, Jr., Boston, Mass.
Application January 12, 1945, Serial No. 572,454
6 Claims. (Cl. 200—4)



3. An electric switch comprising in combination, a spring actuated rotary contact member,

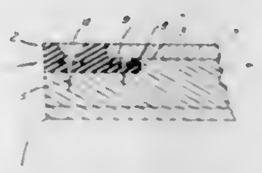
a co-operating stationary contact member, rotatably and axially movable plunger means, locking means for maintaining said rotary contact member in circuit opening position, and means actuated by the axial movement of said plunger means for releasing said locking means.

2,420,769
MATERNITY SKIRT
Kate Holliday Calvin, Los Angeles, Calif.
Application March 21, 1945, Serial No. 583,870
1 Claim. (Cl. 2—221)



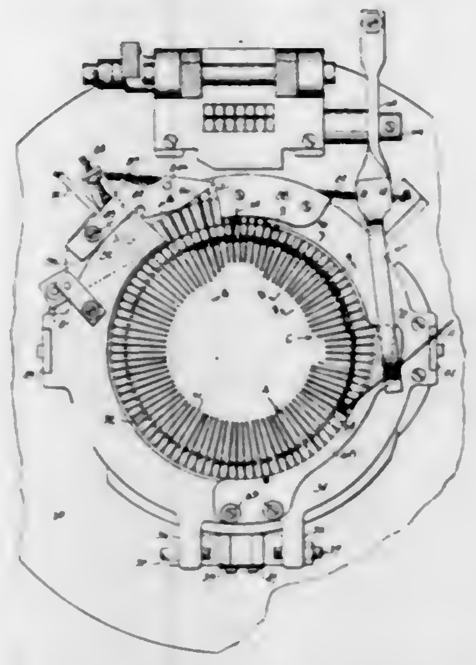
A maternity skirt comprising a body portion, a belt portion, the body portion being opened at the top with the opening extending downwardly for approximately two-thirds of the height of the body portion, and a panel behind the opening, said panel being of the same material as the body portion and fastened at one side of the opening, the fastening comprising a line of stitching, said stitching being extended to join the edges of the body portion, co-operating fastening means at the top of the panel and on the inside of the juxtaposed portion of the belt, said co-operating fastening means providing for various degrees of opening along the belt line and comprising a series of related fastening elements, and a pair of ties forming extensions of the belt.

2,420,770
SHOE HEEL INSERT AND HEEL
Ned Chiodo, Des Moines, Iowa
Application March 15, 1946, Serial No. 654,657
4 Claims. (Cl. 36—35)



1. An article of manufacture comprising a rubber heel insert to be placed on the heel of a shoe, said insert being shaped to fit into the heel of the shoe at the point in the heel which first contacts the surface being walked upon, the insert having a main body portion with openings to receive attaching means to secure the main body of the insert to the heel portion of the shoe, and a ledge portion attached and extending from the main body of the insert with openings in the ledge portion and washers embedded in the ledge portion surrounding the openings to receive attaching means to secure the ledge portion on the heel of the shoe.

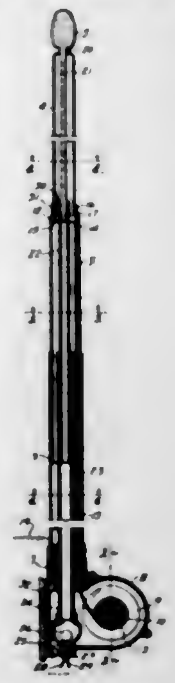
2,420,771
KNITTING MACHINE AND METHOD
Herman E. Crawford, Kernersville, and Cecil Crawford, Durham, N. C.
Application November 30, 1945, Serial No. 632,073
5 Claims. (Cl. 66—9)



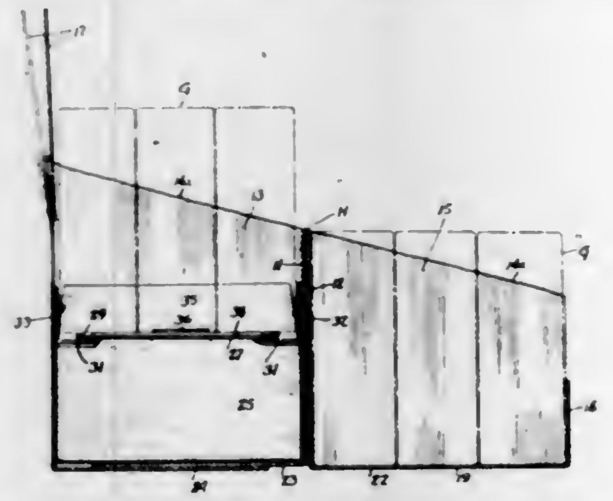
1. An apparatus for knitting a stocking comprising a circular knitting machine having a throat plate provided with feed fingers and having sinkers and having a plurality of needles and means for raising and lowering the needles, means for introducing an elastic strand to the needles in advance of the throat plate, means for feeding body yarns to the needles at the throat plate, means disposed between the point of feeding of the elastic strand and the throat plate for moving the sinkers radially outwardly to allow the elastic strand to pass below the nibs of the sinkers, means for advancing the sinkers to hold the elastic strand below the nibs of the sinkers, means for raising the needles upwardly while the sinkers are advanced as the needles approach the throat plate, means for moving the sinkers outwardly after the needles have been raised to take the body yarn at the throat plate, means for advancing the sinkers inwardly immediately after they pass the throat plate so that all body yarns fed to the needles will be disposed on top of the nibs of the sinkers while the needles are lowered in a knitting operation to thus produce elongated loops.

2,420,772
COMBINATION SIGNAL AND RADIO AERIAL
Thomas L. Dalton, Kansas City, Mo.
Application May 20, 1943, Serial No. 487,767
1 Claim. (Cl. 240—8.1)

In a radio aerial of the character described, a plurality of vertically slidable tubular telescoping sections, a housing having an opening at the top thereof, means for supporting the lower telescoping section in said opening in the housing forming a continuous opening from said housing to the top of said aerial, a spool in said housing, a flexible member wound on said spool and adapted to be unwound to move the telescoping sections to extend said aerial, a light source in said housing adjacent the lower end of the lower section for diverting light rays upwardly in said sections, a signal on the outer end of said aerial, and light directing means substantially continuous with the aerial for conducting light rays from the bottom of the aerial to said signal at the top of said aerial, said light directing means being spaced from the outside telescoping sections to accommodate said flexible member so that said flexible member is guided therebetween and prevented from interfering with light rays transmitted through the tube.

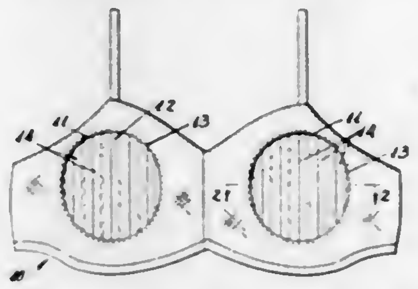


2,420,773
DISPLAY BOX WITH ADJUSTABLE BOTTOM
Irving Dorfman, New York, N. Y., assignor to Federal Carton Corporation, New York, N. Y., a corporation of New York
Application November 28, 1944, Serial No. 565,451
2 Claims. (Cl. 206—44)



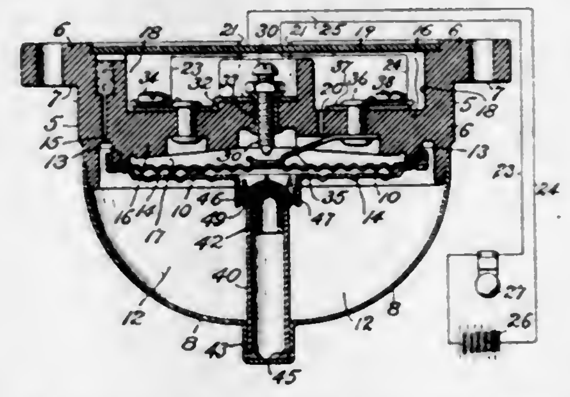
1. A box which has front and rear upstanding walls which are parallel to each other, said box also having upstanding end-walls which are parallel to each other and which are perpendicular to said front and rear walls, said box also having partial bottom members which are fixed to each other to form a partial bottom wall which has edges which are spaced from the bottom edges of said upstanding walls, a false bottom which is slidably located between said upstanding walls and above said partial bottom members, said false bottom having four angular slits therein, each said slit having a longitudinal leg which is parallel to said front and rear walls and a lateral leg which is substantially perpendicular to said front and rear walls, said lateral legs being located at the inner ends of said slits, supporting flaps which have respective inner end-portions and outer end-portions, said inner end-portions being bendably joined to the bottom edges of said end-walls, said inner and outer end-portions being bendable relative to each other along respective fold-lines which are parallel to said end-walls, said outer end-portions having respective lugs which are slidably located in said longitudinal legs and which overlie said false bottom when said false bottom is in its bottom position, said lugs sliding in said longitudinal legs away from lateral legs when said false bottom is raised to a top position in which said inner end-portions are substantially upstanding, said outer end-portions being substantially horizontal when said inner end-portions are substantially upstanding, said outer end-portions underlying said false bottom when said outer end-portions are substantially horizontal save that their lugs then overlie said false bottom.

2,420,774
GARMENT WITH ADJUSTABLE CUP SIZES
Abraham Goldsholl, New York, N. Y.
Application July 21, 1944, Serial No. 545,960
3 Claims. (Cl. 2—42)



1. A garment with adjustable cup sizes having a garment body formed with openings for bust cups with cloth bust cups secured at their edges to the edge portions of said openings, means for permitting said bust cups to naturally engage comfortably about busts of different depths, comprising a plurality of spaced curvilinear expandable folded portions formed in said bust cups to expand and fit and support the busts about which they are engaged.

2,420,775
THERMOSTATIC SWITCH
William B. Griffith, Stone Harbor, N. J.
Application January 6, 1945, Serial No. 571,555
5 Claims. (Cl. 200—140)



1. A thermostat comprising an insulating support, terminals upon said support adapted to be included in an electric circuit, a shell forming an air chamber mounted upon said support, a wall forming part of said chamber adapted to be distended by expanded air for closing the circuit between said terminals, a tubular container positioned in said chamber between said wall and said shell, a tubular socket upon said shell upon which the container is mounted for movement perpendicular to the plane of said wall, means fusible at a predetermined temperature adapted

to secure the container upon said socket, and expansive medium within said container tending to move the latter relatively to the socket into engagement with said wall upon the fusing of said means and distend said wall into circuit closing position.

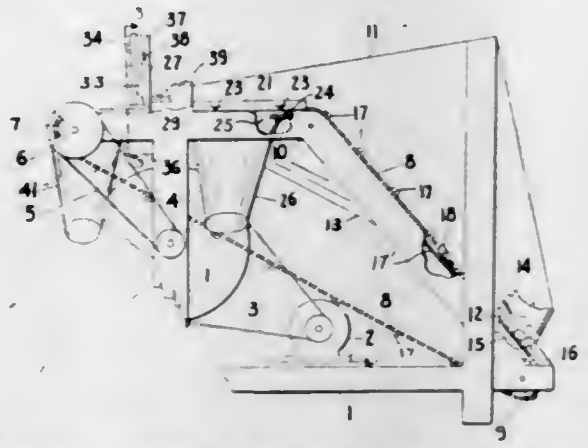
2,420,776

GRADING AND CUTTING MACHINE FOR PREPARING SEED POTATOES FOR PLANTING

Waldo E. Hanna, Mount Cory, Ohio

Application May 18, 1944, Serial No. 536,107

2 Claims. (Cl. 146—88)



1. A seed potato grader and slicer comprising a hopper, a conveyor for withdrawing potatoes from the hopper, including a pair of spaced endless sprocket chains, sprocket wheels for supporting said chains, means for driving the sprockets for moving the chains in synchronism, flights fixed on said chains, embodying fingers extending in pairs toward each other and rearwardly relative to the direction of movement of the chains with a space between the free ends thereof, a frame for supporting said endless chains in an opposed obtuse triangular relation, the sprocket pairs being located at the angles with the hopper positioned at the lower acute angle, the distance between the chains adjacent the hopper being substantially greater than that at the upper obtuse angle to provide a narrowing ascent course from the hopper and reduce the clearance between the free ends of the flight fingers beneath the hopper where the chains and flight fingers are spaced apart the greater distance for deflecting the excess potatoes from between the flights back to the hopper, a second conveyor course extending from the sprockets at the obtuse angle to the second acute angle, means for adjusting the clearance between the chains and the free ends of the flight in the second course to grade the potatoes and release for discharge small potatoes not sufficiently grasped by the flights, an endless cutter band blade having a cutting portion extending vertically between the free ends of the flights beyond the grading portion of the second course to cut the potatoes into seed sections as they are fed past the blade, and means to discharge the cut sections after they pass the cutting blade.

2,420,777

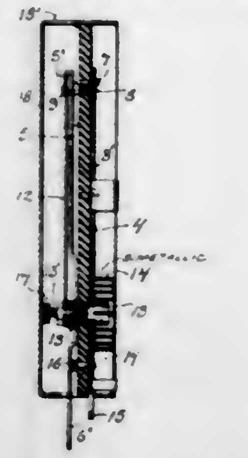
THERMOSTATIC SWITCH FOR HOT-WATER SUPPLY

Roland F. Henningfield, Racine, Wis.

Application June 9, 1944, Serial No. 539,485

2 Claims. (Cl. 200—138)

1. In a hot water supply system having a water tank and a connected water heater; the combination of hot water control therefore comprising a thermostat unit in contact with and secured to the tank at a predetermined distance from its top, the said unit comprising an insulator plate, a plurality of spaced contact points extending therethrough, a metallic strip connecting the same at the backface of said plate, a spring strip set-arm pivoted to the face of said plate, its free end being engageable with the contact points when depressed, an inclined surface tongue extending downwardly from the free end of the set-arm forming a throat with relation to the set-arm face, a pivoted metallic finger off-set from the set-arm pivot, and a thermostatic tensioned coil spring carried by the finger pivot for moving the metallic finger to engage the spring strip and cause said spring strip to be depressed to engage one of the contact points.



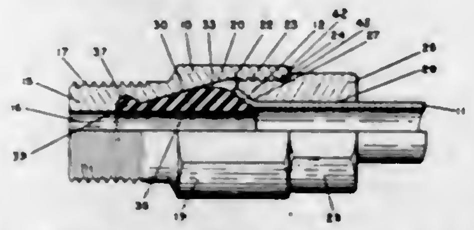
2,420,778

TUBE COUPLING

Robert E. Herold, Cleveland, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio

Application February 15, 1945, Serial No. 578,040

9 Claims. (Cl. 285—86)



1. A flared tube coupling comprising a nut having a conical seat adapted to engage the exterior surface of the flared end of a tube, a coupling body, said body and nut having cooperating threads whereby they may be secured together, said body having a recess therein, a resilient rubber sealing member carried in said recess and engaging and sealing against a wall thereof, said sealing member having a nose portion adapted to engage and seal within said flared end of the tube, said nut, body and sealing member having aligned fluid passages therethrough, the pressure of fluid within said passages increasing the sealing pressure between said sealing member and said body and the sealing pressure between said sealing member and the interior surface of said flared end of the tube, said sealing member clamping said flared end against said conical seat of said nut, said conical seat supporting said flared end against the expanding force exerted by said sealing member.

2,420,779

OPPOSED PISTON ENGINE

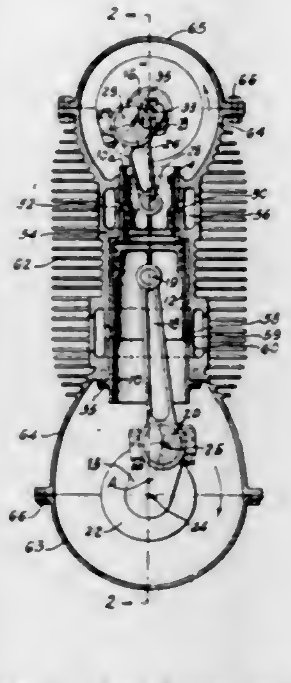
Carl L. Holmes, Glendale, Calif.

Application April 10, 1944, Serial No. 530,246

31 Claims. (Cl. 123—51)

22. In combination in a two-cycle internal combustion engine: a cylinder; a reciprocating

closed end sleeve in the cylinder and constituting a trailing piston; a working piston operating in said sleeve and having a common axis with the sleeve; a relatively long crank arm operatively connected with said working piston and having its axis of rotation extending at right angles to the common axis; and a relatively short crank arm connected with said closed end sleeve and having its axis of rotation extended at right angles to the common axis, the long crank arm being set relative to the short crank arm so that the working piston leads the trailing sleeve piston and such that the two crank arms make angles with the common axis so that when the pistons are at maximum compression, the sine of the angle that the long crank arm makes with the common axis, times the length of the long crank arm, is equal to the sine of the angle that the short crank arm makes with the common axis, times the length of the short crank arm.



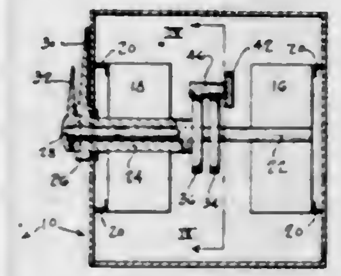
2,420,780

DUAL TIME CONTROL DEVICE

Gustav Klein, Melrose Park, Pa.

Application October 8, 1945, Serial No. 621,089

5 Claims. (Cl. 161—1)



1. A dual time control apparatus including a plurality of time-measuring devices, a corresponding plurality of concentric shafts, said shafts being separately rotatable in one direction to set said devices to measure predetermined periods of time, respectively, each of said shafts being rotatable in the reverse direction by the time-measuring action of its corresponding device, a disc rotatable with each of said shafts and having a cam surface thereon, and a movable member disposed adjacent said discs and adapted to be actuated by passage of said cam surfaces past said member.

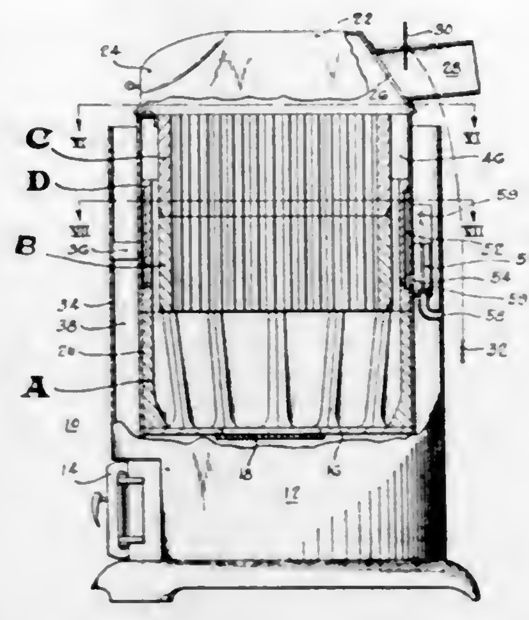
2,420,781

MAGAZINE HEATING STOVE WITH GAS COMBUSTION CHAMBER

Gustav Klein, Atlantic City, N. J., and Perry S. Martin, Harrisonburg, Va.

Application November 9, 1943, Serial No. 509,556

1 Claim. (Cl. 126—73)



In a solid fuel burning stove including a shell and a grate in the lower portion of said shell, a lower, relatively thick refractory lining for the lower portion of said shell disposed above said grate and abutting against the interior of said shell to form a primary solid fuel combustion chamber, an inner, upper, relatively thin refractory lining for the upper portion of said shell forming a fuel magazine above and communicating with said primary combustion chamber, said inner, upper lining being seated on the inner top edge of said lower lining, with the inner surface of said upper lining offset inwardly of the inner surface of said lower lining, and the outer surface of said upper lining being spaced from the interior of said shell to form a secondary gas combustion chamber, there being openings formed at the junction of said upper and said lower linings interconnecting said combustion chambers, an outer, upper relatively thin refractory lining for said secondary gas combustion chamber, said auxiliary lining being seated on the outer, top edge of said lower lining and being disposed in spaced relation to said upper lining and to the interior of said shell, whereby an annular, continuous air chamber is formed between said outer, upper lining and the interior of said shell, an air inlet introducing outside air to said air chamber, there being a port though said outer, upper lining leading from said air chamber to said secondary gas combustion chamber, there also being clean-out openings accessible from the top of said stove and leading into said secondary combustion chamber, and movable covers adapted to obstruct said clean-out openings.

2,420,782

HAND FAN

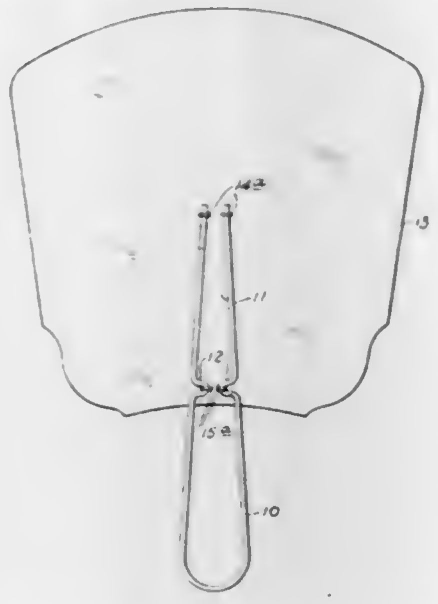
Frank H. Klie, deceased, late of Paris, Ill., by Lillian E. Klie, executrix, Paris, Ill.

Application July 31, 1945, Serial No. 608,035

2 Claims. (Cl. 230—266)

1. A fan having a fan blade and a handle member formed of a length of resilient wire bent on itself to form a looped handle portion and shank arms, said arms lying in engagement with the said fan blade, the arms extending on con-

verging lines to the central portion of the blade and being formed with opposed V-shaped bends having the points thereof directed inward, said bends being located adjacent the lower edge of the fan blade, and staples securing the arms to the blade, one of said staples having portions engaging the point angles of the V-shaped bends.

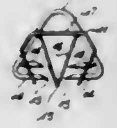


2,420,783
BELT HOOK PACKAGE

Herman Koester, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut

Application January 8, 1945, Serial No. 571,849

11 Claims. (Cl. 1—56)



1. A package of belt hooks comprising a support of sheet material of trough-like form having a series of substantially V-shaped belt hooks with spaced opposing pointed prongs mounted thereon with the angles of said belt hooks disposed adjacent the closed side of said support and the prongs projecting laterally into the trough adjacent the open side thereof; and a guard disposed in the trough and having an extended portion lying between the opposed ends of said prongs.

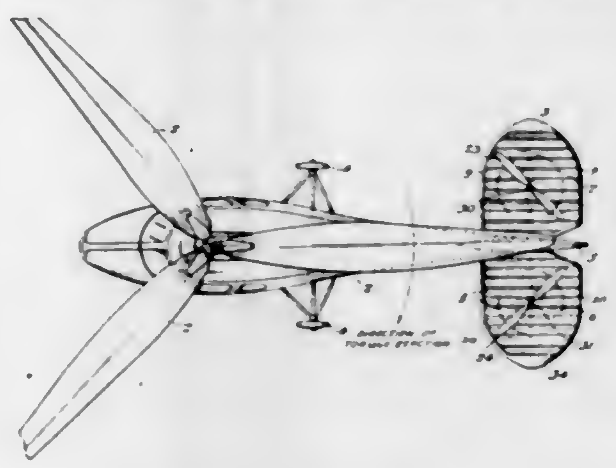
2,420,784
HELICOPTER WITH ANTITORQUE PROPELLERS

Agnew E. Larsen, Jenkinstown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md., a corporation of Maryland

Application May 16, 1945, Serial No. 594,098

21 Claims. (Cl. 244—17)

1. In a rotary wing aircraft including a fuselage, a main rotary wing mounted above said fuselage, means for driving said main wing, an auxiliary rotary wing means, means mounting said auxiliary wing means adjacent the rear end of said fuselage, said auxiliary rotary wing means having a substantially horizontal plane of rotation during normal flight movements of said aircraft, drive means for said auxiliary wing means, said drive means including a releasable clutch, a plurality of vanes, means mounting said vanes adjacent to said auxiliary wing means, on pivotal axes extending parallel to the longitudinal axis of the aircraft, said vanes being positioned to react with said auxiliary wing means slip stream, and means for adjusting said vanes, said auxiliary wing means being constructed and arranged in such manner whereby upon the declutching of said clutch said rotary wing means will function auto-rotatably.

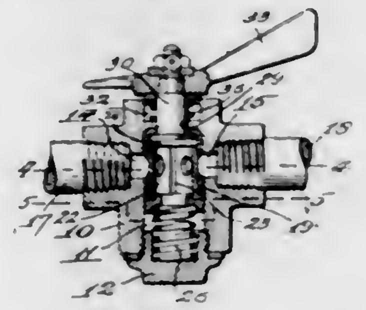


2,420,785
VALVE

David G. Lorraine, La Canyada, Calif., assignor of seven and one-half per cent to H. W. Elliott, Los Angeles, Calif.

Application August 6, 1943, Serial No. 497,643

6 Claims. (Cl. 251—96)



1. In a valve, a housing provided with an inlet port and a pair of outlet ports, a manually operable split tubular valve arranged for operation within said housing and provided with ports which are adapted to register with the outlet ports in said housing, a ported liner seated within said housing and surrounding said tubular valve and a spring pressed ring bearing against the ends of said valve and liner.

2,420,786
DEGASSER FOR INTERNAL-COMBUSTION ENGINES

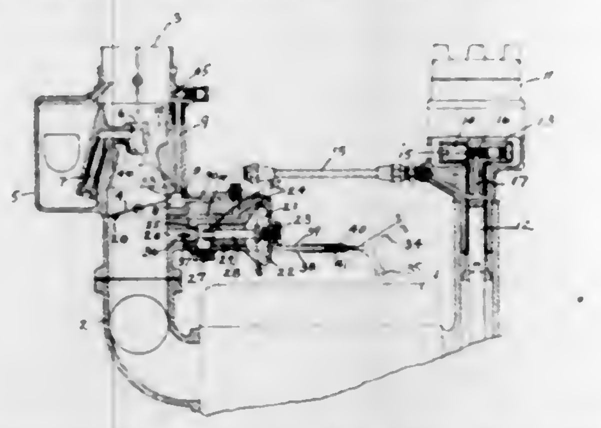
Marion Mallory, Detroit, Mich.

Application August 1, 1944, Serial No. 547,610

22 Claims. (Cl. 192—3)

1. In an internal combustion engine having an intake passageway and a throttle valve in said passageway, a port on the engine side of said throttle valve, a second valve controlling said port, means actuated through changes of pressure in the intake passageway on the engine side of said throttle valve for imparting movement to said second valve, a conduit connecting said pressure actuated means with the intake passageway on the engine side of the throttle valve when in idle position, and a speed con-

trolled air bleed to atmosphere for said conduit arranged to close said air bleed whenever the engine exceeds a predetermined speed whereby whenever the vacuum in the intake passageway on the engine side of the throttle valve exceeds a predetermined vacuum and said air bleed is closed said pressure actuated means actuates said second valve to open position and admit air into the intake passageway on the engine side of said throttle valve.

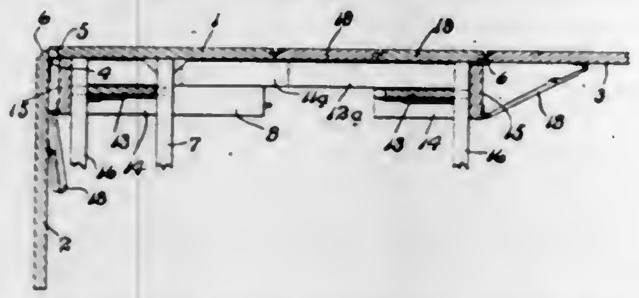


2,420,787
EXTENSION TABLE

Thurlow E. McFall, Sparta, Mich., assignor to Michigan Artcraft Company, Sparta, Mich., a corporation of Michigan

Application May 4, 1942, Serial No. 441,636

2 Claims. (Cl. 311—42)



1. In a table, a solid horizontal top adapted to be positioned at a predetermined distance above a floor, said top having a straight side edge, said edge having a groove lengthwise thereof at its lower corner portion, extension slides connected at one end thereof to and under the top adapted to be extended outwardly beyond said side edge, a horizontal cross rail connected to the opposite end of the slides and movable outwardly and inwardly with respect to said edge of the top, said cross rail having its upper edge substantially in the same horizontal plane as the under side of the top, rigid vertically depending supporting means fixedly secured to said cross rail to maintain the cross rail at its upper edge substantially flush with the under side of the top at all extended positions and at the closed position of the slides, a drop leaf, and hinges connected to the cross rail at its upper edge and to the drop leaf at its inner side and spaced from the upper horizontal edge of the leaf a distance substantially equal to the greatest vertical dimension of said groove, the upper edge portion of the drop leaf above the hinge having a rib shaped for fitting into said grooved edge of the top, said grooved edge of the top having a recess therein covered by said rib when the slides are fully retracted, and uncovered when the slides are extended, whereby a filler leaf having a projection at the side edge thereof to enter said recess may be detachably connected with said top and held against longitudinal movement.

2,420,788
COMPOUNDING OF RUBBER

Forrest L. McKennon, New Orleans, La., and John Raymond Lindquist, Los Angeles, Calif., assignors to the United States of America, as represented by the Secretary of Agriculture

No Drawing. Application June 2, 1945, Serial No. 597,291

9 Claims. (Cl. 260—766)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

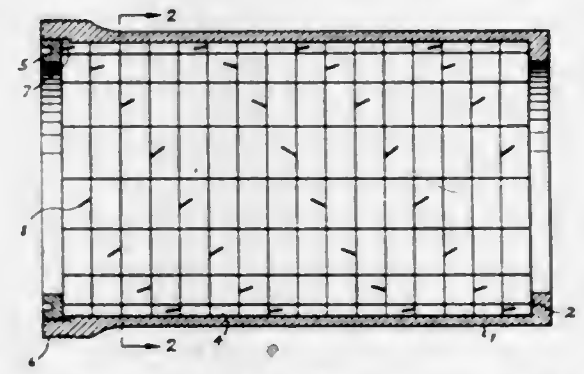
1. A process comprising dissolving in a mutual solvent tacky goldenrod rubber and compounding vulcanizing chemicals, the latter in a quantity insufficient for complete compounding of the goldenrod rubber; removing said solvent; subjecting the resulting partially compounded stock to a temperature of about from 200° to 280° F. until it is sufficiently tough to permit full compounding; then mixing therewith a sufficient quantity of compounding vulcanizing chemicals to fully compound the toughened stock; and finally, heating the fully compounded stock until vulcanization is effected.

2,420,789
FLAME DAMPER AND MUFFLER

Alonzo L. Mobley, Houston, Tex.

Application March 3, 1944, Serial No. 524,962

1 Claim. (Cl. 181—49)



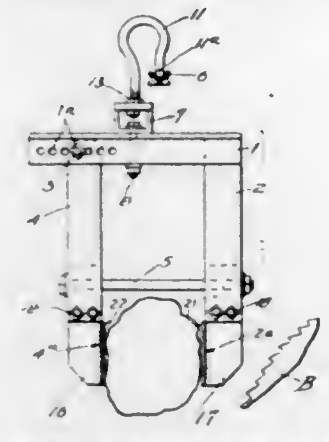
A flame damper and muffler comprising a tubular housing, a series of rings fitted into the housing in adjacent relation, a blade like vane extending diametrically across each ring, the ends of said vanes being anchored to the corresponding rings, said vanes being arranged in staggered relation and being inclined relative to the axis of the housing, some of said vanes being inclined in a direction the opposite of that of other of the vanes.

2,420,790
STONECUTTING CLAMP

Morris A. Moeller, Long Beach, Calif.

Application December 29, 1945, Serial No. 637,977

10 Claims. (Cl. 125—35)



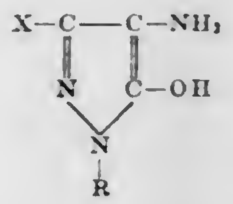
1. A device for supporting semi-precious stones to be cut comprising a trough-shaped track, a

clamp, means for adjusting said clamp to grip a rock to be cut, and members on said clamp freely riding in said track to maintain the clamp suspended therefrom for oscillating movement relative thereto.

2,420,791
DIAZO COMPOUNDS OF THE PYRAZOLONE SERIES

Abby Ware Nies, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 9, 1944, Serial No. 553,459
14 Claims. (Cl. 260—141)

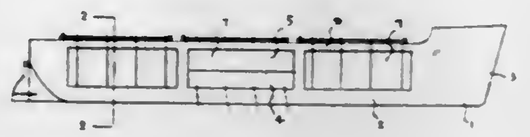
1. Diazo compounds of the amines of the formula:



in which R is a sulfophenyl radical and X is a radical selected from the group consisting of CH_3, COOH, COO Alk, where Alk stands for a lower alkyl group.

2,420,792
LOG CARRIER

Charles Emil Nordin, Comox, British Columbia, Canada
Application June 16, 1945, Serial No. 599,864
4 Claims. (Cl. 114—73)

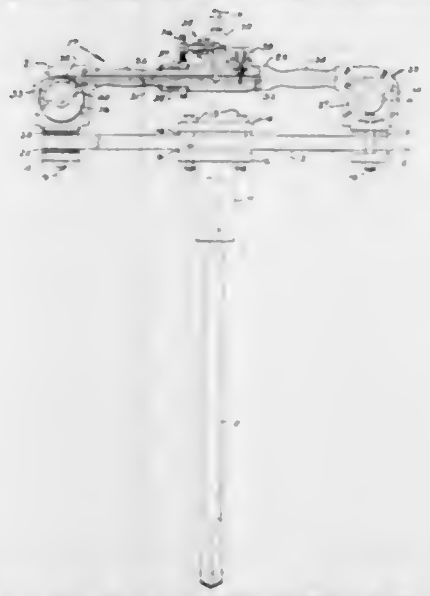


1. A log carrier comprising a pontoon having sides and a central partition, a deck sloping downwardly from said partition to the sides of said pontoon, bulkheads extending transversely of said pontoon to divide the deck into a plurality of holds, a beam extending lengthwise above each side of the pontoon defining a hatch and a side opening for each of the holds, spaced vertical cables adapted to be tensioned between the side of the pontoon and a beam for forming a closure for one of the side openings, and means for simultaneously releasing one end of each of said cables.

2,420,793
VIBRATORY DRILLING APPARATUS

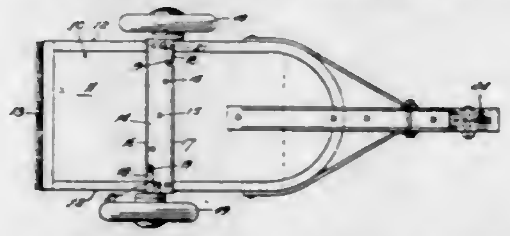
John C. O'Connor, Dayton, Ohio
Application June 9, 1944, Serial No. 539,587
5 Claims. (Cl. 259—1)

1. In a device of the class described, in combination, a vibration transmitting member, to be held in an operator's hands, a tool operating member, resilient means for connecting said members and resisting relative movement therebetween, and a cyclically vibrating mass carried by said vibration transmitting member, said mass by its vibration applying to said vibration transmitting member forces at all times equal and opposite to forces applied to said vibration transmitting member by relative movement between said members as transmitted through said resilient means.



2,420,794
OFFSET WHEEL CONSTRUCTION FOR TRAILERS

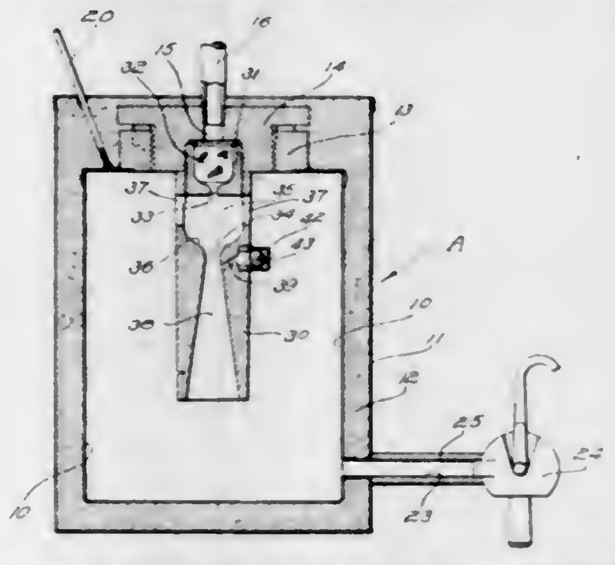
Charles J. O'Neill, Manteno, Ill.
Application May 11, 1946. Serial No. 669,165
2 Claims. (Cl. 280—33.4)



1. In a trailer having a floor, a channel attached to the undersurface of said floor, and extending across the same, said channel having a downwardly extending flange on each of its sides, said flanges longitudinally spaced, a spindle attached to said channel at one end and contacting one of said flanges, another spindle attached to said channel at the other end and contacting the other of said flanges, and wheels rotatably mounted on said spindles.

2,420,795
CARBONATING APPARATUS

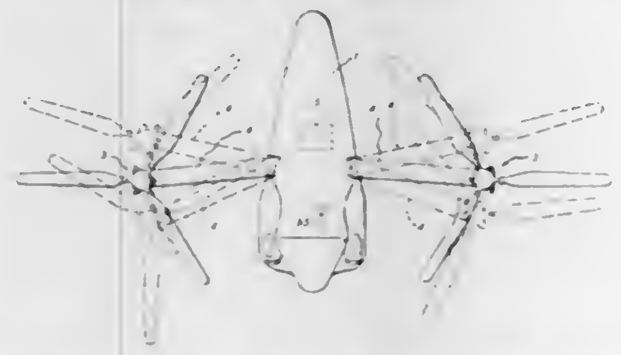
Philip H. Phillips, Farmington, Conn.
Application September 28, 1943, Serial No. 504,138
7 Claims. (Cl. 261—76)



1. In a carbonating apparatus, a container having a storage chamber for carbonated water, means for supplying carbon dioxide gas under pressure to the chamber; a Venturi tube within the chamber and having a restricted throat between its ends, said passage to the approach side of the throat being in communication with the chamber of the container, said tube having a hole leading from the chamber directly to said throat and through which premixed gas and water are drawn from the chamber into said throat; and water intake means comprising an inlet orifice located at the inlet end of said tube and aligned with said throat.

2,420,796
HELICOPTER WITH LATERALLY DISPOSED LIFT ROTORS

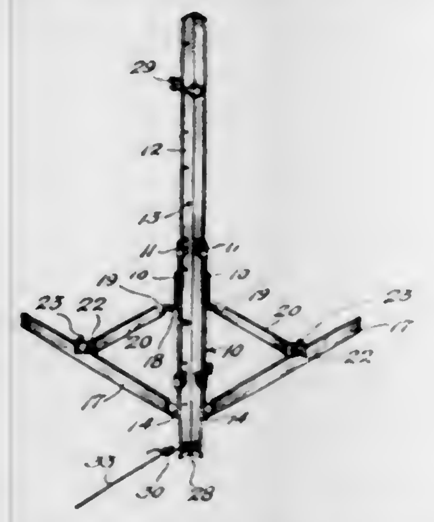
William L. Raschke, Fort Worth, Tex.
Application December 3, 1945, Serial No. 632,395
5 Claims. (Cl. 244—17)



1. A helicopter comprising a fuselage, laterally disposed rotor supporting elements mounted on said fuselage and arranged symmetrically with respect to the fore-and-aft axis of said fuselage, a bladed lifting rotor unit supported on each of said elements, each of said units including a hub, means for displacing in a generally fore-and-aft direction said rotor supporting elements with respect to said fuselage, means operable independently of said last-named means for tilting said hubs with relation to their associated supporting elements, and means for cyclically varying the blade pitch of said rotor units.

2,420,797
EXCAVATION ANGLE

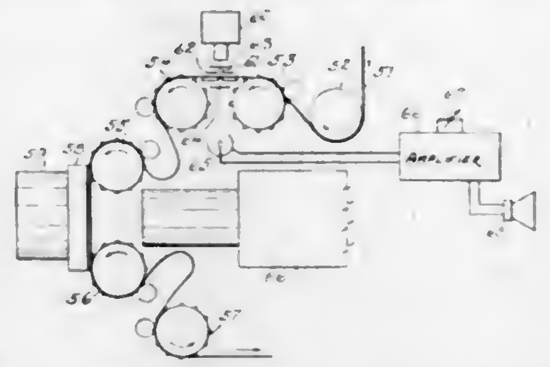
Ray Raymond, Sacramento, Calif.
Application May 3, 1945, Serial No. 591,779
2 Claims. (Cl. 33—85)



1. An excavation angle guide instrument comprising, a guide member, a depth gauge slidable therein and extending below said guide member, legs hingedly secured to said guide member, and means for varying the vertical angular relation of said legs with said guide, said means including links hingedly secured at their extremities to said guide at points spaced from said legs and having their other extremities releasably secured to said legs.

2,420,798
APPARATUS FOR AND PROCESS OF TAKING AND SHOWING SOUND MOTION PICTURES

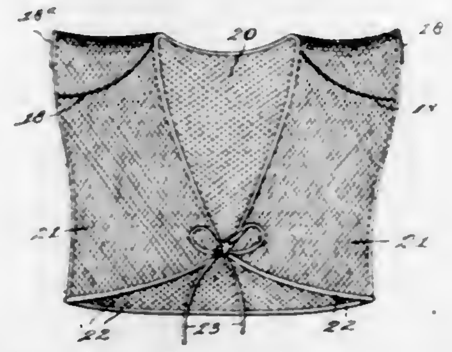
Judson O'D. Shepherd, Atlanta, Ga.
Application July 13, 1942, Serial No. 450,789
12 Claims. (Cl. 88—16.2)



1. The method of showing sound moving pictures from a film having sequential frames of picture transparencies and a sound track bearing a sound record comprising light rotative modulations which consists in optically projecting the picture frames in sequence, scanning the sound track of the film with polarized light which is rotatively modulated by the record and converting the rotatively modulated light into sound waves.

2,420,799
SHOULDER PAD FOR GARMENTS

Lee Siteman, Los Angeles, Calif.
Application November 1, 1944, Serial No. 561,364
6 Claims. (Cl. 2—268)



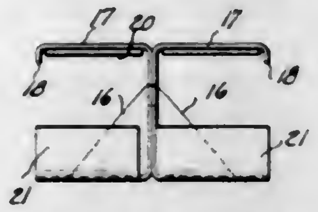
1. A garment shoulder pad comprising a substantially wedge shaped form, the underside of which is concave in cross section, the top of which is curved lengthwise, a pad of soft, flexible material enclosing said form and a transversely disposed flexible stay secured to the upper portion of one end of said padded form for preventing spreading movement thereof.

2,420,800
SHIPPING BLOCK

Trafton D. Smith, Pontiac, Mich.
Application January 7, 1946, Serial No. 639,636
5 Claims. (Cl. 206—60)

5. A shipping package comprising a plurality of spaced-apart shipping blocks, each block comprising channel shaped members secured together in back to back relation with rib sections bent from the lower legs of the members, said ribs being bent upwardly and secured to the webs to form reinforcing ribs, a stack of metal mounted

on the block, each block having its upper legs slotted, with the edges turned, straps disposed beneath the upper slotted legs with the ends leading upwardly through certain slots directly adjacent the edges of the stack and encircling said stack, spaced-apart openings in the web of the blocks, and straps extending through said openings and encircling said stack in the opposite direction.



2,420,801
PROCESSES FOR PRODUCTION OF HEXACHLORETHANE

George B. Stratton, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York

No Drawing. Application September 2, 1943, Serial No. 500,997

4 Claims. (Cl. 204—163)

1. The process for production of hexachlorethane which comprises charging tetrachlorethylene into a vented pressure-type reactor to somewhat less than the full capacity thereof; displacing the air frpm above the liquid by means of a gas inert to the reaction; passing gaseous chlorine into the liquid under light of a quality effective in catalyzing the reaction, at a rate at which the chlorine is substantially all absorbed, with cooling to maintain the reaction mixture at 100° to 110° C. and venting off of excessive pressure due to expansion of the liquid or chlorination of impurities, without however permitting any considerable vaporization of the reaction mixture, until one fourth to one half of the theoretical quantity of chlorine for completion of the reaction has been admitted; thereupon regulating the cooling and further admission of chlorine to permit the temperature to rise with the progress of the reaction, and thus prevent formation of crystalline hexachlorethane in the reaction mixture, until the temperature has risen as far as practicable from the heat of reaction; thereupon supplying external heat and regulating the further admission of chlorine to cause the temperature to rise to between 190° and 220° C. and pressure to build up in the closed reactor, at least to the corresponding vapor pressure; and so carrying the reaction to substantial completion in liquid phase.

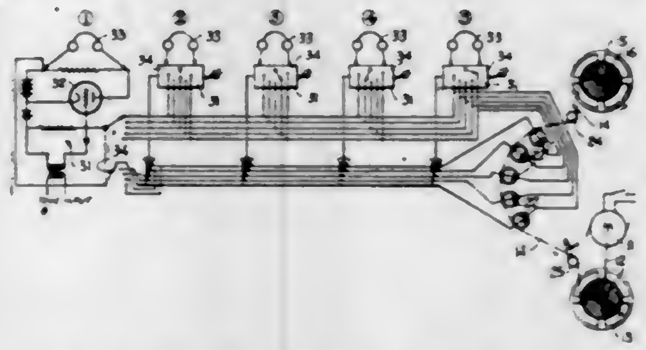
2,420,802
SELECTIVE-SPEED TELEGRAPH CODE INSTRUCTION SYSTEM

Orville I. Thompson, Chicago, Ill., assignor to De Forest's Training, Inc., Chicago, Ill., a corporation of Illinois

Application November 14, 1942, Serial No. 465,596

1 Claim. (Cl. 178—115)

A device of the class described comprising a plurality of independently operated receiving stations, means for transmitting a plurality of code messages, means for connecting said receiving stations to said transmitting means for the transmission by said transmitting means to one or more of said receiving stations of a selected one of said code messages, said code messages varying in speed by a single drive means, said transmitting means including a plurality of message transmitting units arranged adjacent each other to form a guideway, a web arranged for movement over said guideway, a plurality of message tracks formed in said web and spaced relative to each other transversely of said web, said message tracks being made up of code characters with the message tracks varying in characters per length of said web with respect to each other, means on said message transmitting units for communicating a particular one of said message transmitting units with a particular message track, and drive means for moving said web relative to said guideway.

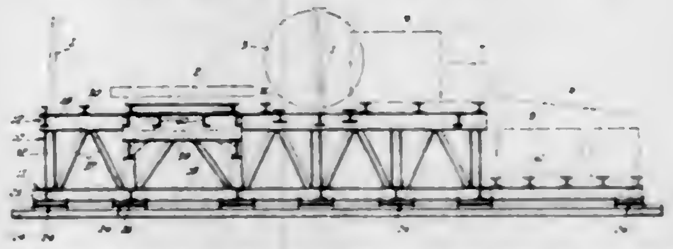


2,420,803
MOVABLE COMBINATION DERRICK FLOOR AND ENGINE BASE

William B. Tobin, Los Angeles, Calif.

Application April 29, 1946, Serial No. 665,856

3 Claims. (Cl. 189—21)



1. A movable, combination derrick floor and engine base comprising: a structural steel grillage of a width adapted to receive and support a derrick and drilling machinery, said grillage including parallel, longitudinally extending bottom bearing beams adjacent its sides; a pair of horizontal, parallel rails having a head width smaller than the width of the longitudinally extending bearing beams, said rails being in alignment with and beneath each of the bottom bearing beams; a plurality of bearing blocks carried by the bottom of each of the outer bearing beams, each bearing block being not less than twice the width of the head of the rail, the lower surface of each bearing block including a plurality of semi-circular, transverse recesses; and a roller in each recess and in contact with the head of the rail, each roller having a length of not less than twice the width of the rail head.

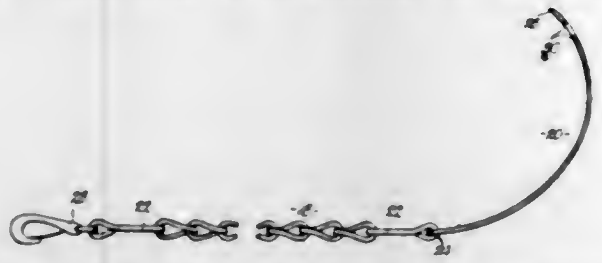
2,420,804
TIRE CHAIN

Joseph L. Wenzel, Kansas City, Mo.

Application March 29, 1945, Serial No. 585,452

3 Claims. (Cl. 152—213)

2. A tire chain assembly of the character described comprising a flexible section including at least one length of chain adapted to lie transversely across the tread of the tire and inwardly against the side walls of said tire; a stiff arcuate section adapted to interconnect the ends of the flexible section and embrace the rim of the tire supporting wheel; and cooperating coupling elements at one end of the flexible section and at one end of the stiff arcuate section, said stiff arcuate section comprising a substantially U-shaped body having the coupling elements at the bight thereof, said cooperating coupling elements comprising a snap-hook on the flexible section and a series of hook-engaging elements on the stiff arcuate section, said hook-engaging elements comprising a plurality of arcuate cross bars fixed to the legs of said U-shaped body.

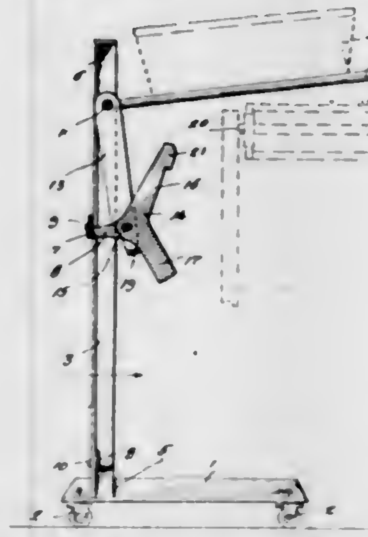


2,420,805
PACK STAND

Claude O. Westover, Orlando, Fla.

Application May 10, 1945, Serial No. 593,072

5 Claims. (Cl. 214—65)



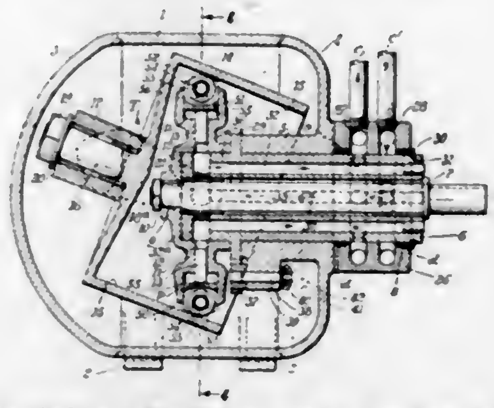
1. A pack stand comprising a frame having base bars and standards rising from rear end portions thereof, the base bars and said standards being formed of angle metal and firmly secured to each other, a bracing bar of angle metal extending between lower portions of said standards and secured thereto, a cross bar extending between the standards and secured thereto in vertical spaced relation to the bracing bar, a shaft extending between and rotatably mounted through said standards in upwardly spaced relation to said cross bar and having end portions bent to form receptacle-holding bars projecting forwardly outwardly of opposite sides of the standards, a U-shaped yoke carried by said shaft midway its length and extending downwardly therefrom below said cross bar, and a keeper pivotally mounted between side arms of said yoke adjacent the lower end thereof, said keeper being substantially V-shaped and having upper and lower arms extending from the yoke in diverging relation to each other and a finger extending outwardly at the intersection of its arms, the lower arm of said keeper constituting means for swinging the keeper to an operative position disposing the finger in position for contacting the inner face of said cross bar and holding the yoke swung upwardly to retain the receptacle-supporting bars tilted upwardly and the upper arm of the keeper constituting a trigger for engaging a side portion of a conveyor and tilting the keeper to move its finger out of engagement with the cross bar and allow downward movement of the yoke and the said receptacle-supporting bars until said yoke engages the cross bar.

2,420.806
PUMP

Carl E. Anderson, Newark, N. J.

Application November 26, 1945, Serial No. 630,844

22 Claims. (Cl. 103—161)



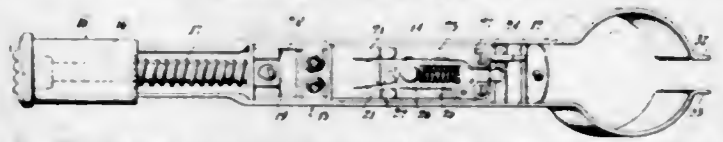
3. A variable displacement hydraulic pump comprising a rotor provided with a plurality of radially disposed cylinders; means to rotate said rotor; a reciprocatory piston in each of said cylinders; a thrust member surrounding said rotor and presenting to the outer ends of said pistons an elliptical thrust path whereby, during rotation of said rotor, said thrust path gives to each piston a plurality of working cycles during a single rotation of said rotor; and means to adjust the position of said thrust member to vary said elliptical thrust path and thereby the strokes of said pistons.

2,420,807
ELECTRIC HORN CONTROL SYSTEM

John M. Aufiero, Plandome, N. Y.

Application September 19, 1946, Serial No. 697,856

2 Claims. (Cl. 201—48)



1. Voltage control means including in combination a casing; an elongate contact plate insulatedly disposed within said casing, said contact plate being electrically connected to a power lead of a circuit; a resistance element disposed adjacent said contact plate and extending parallel to and insulated therefrom; a contact disposed within said casing adjacent said contact plate for connecting an end of said resistance to a second power lead of said circuit; a second contact aligned with but spaced from said resistance at the opposite end thereof and also connected to said second power lead; and a slidable bridging contact for closing a circuit cross said contact, said bridging contact having a contact finger respectively aligned with said contact plate and a second contact finger aligned with said resistance and the respective first and second named contact means, and means for projecting said bridging contact to engage said second contact element, said resistance and said first named contact means in succession while maintaining concurrent contacting engagement with said contact plate; and means for returning said bridging contact to non-bridging position.

2.420.808
REGISTERING MECHANISM

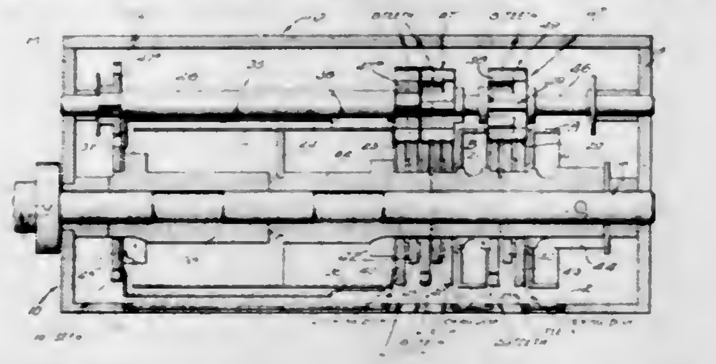
Harvey N. Bliss, Windsor, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut

Application October 27, 1942. Serial No. 463,460

6 Claims. (Cl. 235—1)

1. In a counter, a numeral member mounted for unlimited step-by-step rotary movement and

having a plurality of groups of numerals, the numerals of the several groups being consecutively arranged in the same direction about the axis of rotation of said member and the lowest numeral of each successive group being in consecutive order with respect to the highest numeral of the next preceding group and in alignment with the numerals of the lowest order of the several groups, an elongated sight opening in front of said member and into registry with which the aligned numerals of the several groups are adapted to be successively brought, an indexible shutter between said member and sight opening and having windows respectively associated with said groups of numerals and successively spaced apart in the direction of movement of the shutter whereby said windows are successively brought into registry with said sight opening, means for intermittently indexing said member with a plurality of step-by-step movements during each complete rotation thereof, and means operative only once for each complete rotation of said member for indexing said shutter one step in the direction of rotation of said member each time said member is completing a revolution.



2,420,809
ACTIVATORS FOR TERPENE THIOCYANOACYLATE INSECTICIDES

Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 30, 1942, Serial No. 449,152

6 Claims. (Cl. 167—24)

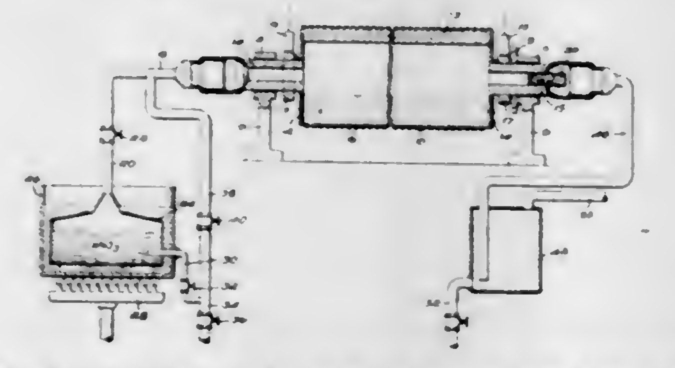
1. An insecticide composition comprising pyrethrum, a terpene thiocyanoacetate, and paratertiary butyl catechol.

2,420,810
PROCESS FOR THE MANUFACTURE OF HIGH VOLATILE CARBON BLACK

Richard I. Bray, Gloucester, Jacob Gabry, Saugus, and Charles B. Wendell, Jr., Needham, Mass., assignors to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts

Application December 18, 1941, Serial No. 423,512

10 Claims. (Cl. 23—209.1)



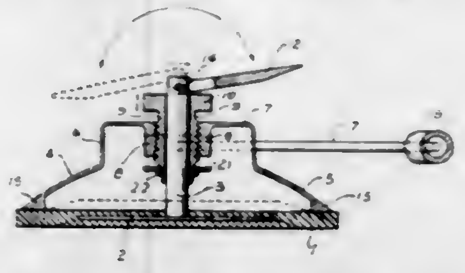
2. A process for the production of carbon black having a volatile content in excess of 12%, a moderate surface area and long flow characteristics, which comprises the steps of passing a hot mixture of nitric acid vapor and air through a mass of carbon black heated at least to 200° F. and not over 400° F., and then removing free nitric acid vapor from the treated mass.

2,420,811
GLASS-LIFTING OR CARRYING DEVICE

Sol Brewster and William Miller, New York, N. Y.

Application March 19, 1946, Serial No. 655,631

2 Claims. (Cl. 294—64)



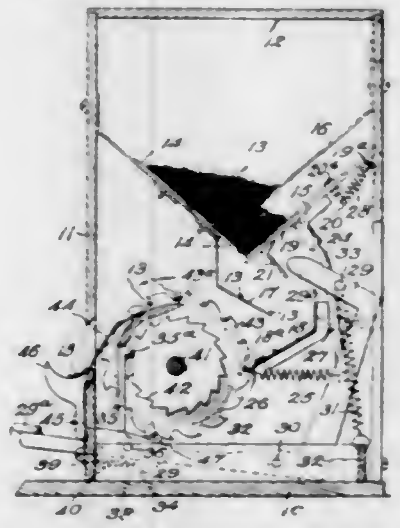
1. In a device of the character described, in combination a normally flat, disc-like member consisting of an elastic rubber-like material, with a rigid plate embedded in said disc-like member, and rigidly connected with a centrally arranged stem forming a right angle with the surfaces of the disc-like member, a cup-like member consisting of one piece, resting on one surface of the disc-like member, having a spherical portion, a cylindrical portion, a flat top portion, and an inturned tubular flange internally threaded and centrally arranged in said top portion, a tubular adjusting member provided with an outer thread and a central bore and adapted to be screwed into and adjustable in said tubular flange, said stem projecting through and being freely movable in said central bore, a cam lever pivotally connected with the free end of the stem and coacting with the top of said tubular adjusting member for forming the flat disc-like member into a cupped shape, and a handle attached to the cylindrical portion of the cup-like member.

2,420,812
TOOTHPICK DISPENSER

Frank A. Brunner, Brooklyn, N. Y.

Substituted for abandoned application Serial No. 387,998, April 11, 1941. This application February 21, 1944, Serial No. 523,315

3 Claims. (Cl. 312—84)



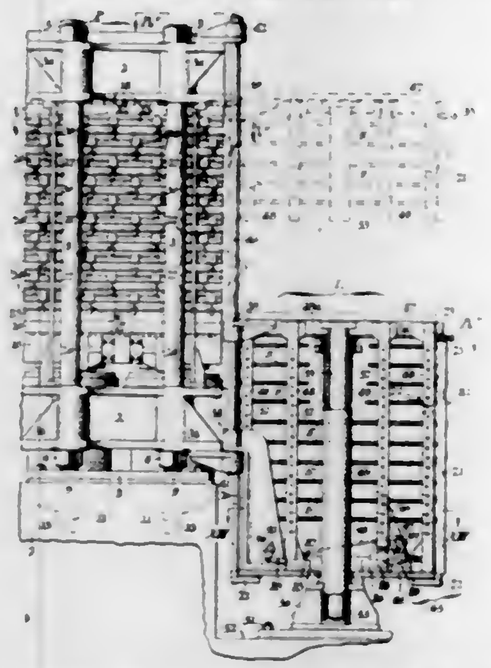
2. In an article dispenser, a casing, a finger-operated L-shaped lever pivoted thereon, an article-dispensing drum above the lever's lower end, a cam extension to the lever positioned above the drum and movable at right angles to said lower end, and a spring-pressed pawl carried by said lever, both the said extension and the pawl being adapted to actuate article-releasing-and-ejecting means, respectively.

2,420,813
MULTIPLATEN PRESS AND LOADING MEANS THEREFOR

Louis A. Camerota, Burlington, N. J., assignor to Florence Pipe Foundry & Machine Company, Florence, N. J., a corporation of New Jersey

Application February 16, 1943, Serial No. 476,047

6 Claims. (Cl. 18—16)



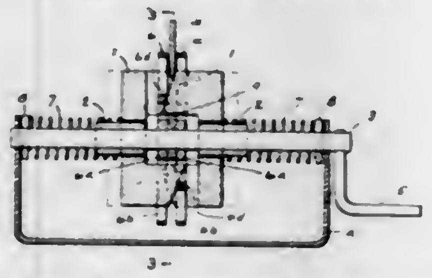
1. In a press of the character described for compressing materials in slab form, a plurality of superposed platens capable of being moved toward or away from each other; means for definitely spacing the platens when the press is opened; and fixed stop means providing a continuous vertical surface to intercept the slabs as they are inserted edgewise between the platens incident to loading of the press for the purpose of definitely positioning them in the press.

2,420,814
KNIFE SHARPENING APPARATUS

Earl W. Clark, Stuart, Fla.

Application April 4, 1946, Serial No. 659,494

6 Claims. (Cl. 51—116)



5. In a knife sharpener: a frame comprising a base having upstanding portions at two opposite ends; a shaft journaled in said upstanding portions; a pair of abrasive units oppositely disposed and slidingly mounted on said shaft, each of said opposed abrasive units comprising a hub portion and a plurality of abrasive member portions in spaced relationship and with their abrading faces obliquely inclined to a plane perpendicular to the longitudinal axis of said shaft, abrasive member portions on one abrasive unit intermeshing with the abrasive member portions of the other abrasive unit; abrasive unit stops carried by said shaft; and spring means yieldingly forcing said abrasive units against said stops.

2,420,815
PROCESS OF PRODUCING EXPANDED RUBBER MATERIAL

Lester Cooper, Milford, Conn., and Hans Pfleumer, New Brunswick, N. J., assignors to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application June 18, 1946, Serial No. 677,534

1 Claim. (Cl. 18—48)

In the process of manufacture of an extremely light hard rubber material having a multiplicity of closed non-communicating cells, the steps of subjecting a board made of such material and having a multiplicity of gas-filled closed non-communicating cells to heat sufficient to plasticize the same, subjecting the plasticized board to a vacuum to expand the same while in plasticized condition and chilling the expanded board while the same is subject to said vacuum.

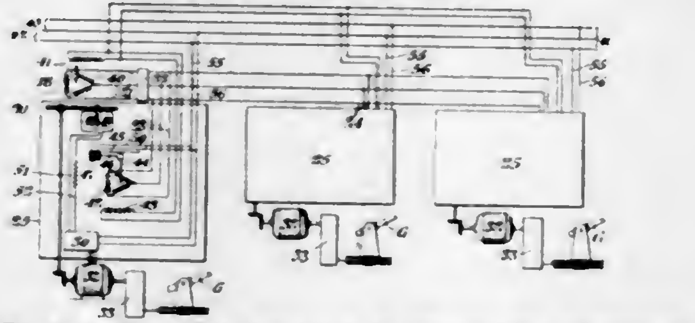
2,420,816
POSITION CONTROL SYSTEM

Arthur Pattison Davis, New York, N. Y., assignor to Arma Corporation, a corporation of New York

Application December 10, 1932, Serial No. 646,607

Renewed March 4, 1936

2 Claims. (Cl. 318—30)



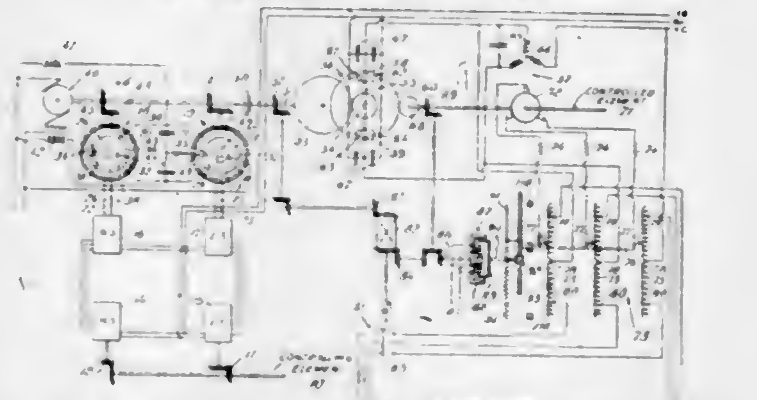
1. In a system for moving a controlled element according to the relative movement of an object, the combination with a director device adapted to follow the movement of said object, means for transmitting the motion of said director to indicating means adjacent said controlled element, hand operated means connected to said indicator for moving said controlled element according to the reading of said indicator, automatic means for moving said controlled element by the movement of said indicator and means for selectively shifting from said hand operated means to said automatic operated means and vice versa at will.

2,420,817
REMOTE CONTROL APPARATUS FOR ELECTRIC MOTORS

Arthur P. Davis, Stamford, Conn., and George Agins, Brooklyn, N. Y., assignors to The Arma Corporation, Brooklyn, N. Y., a corporation of New York

Application March 18, 1939, Serial No. 262,766

19 Claims. (Cl. 172—239)

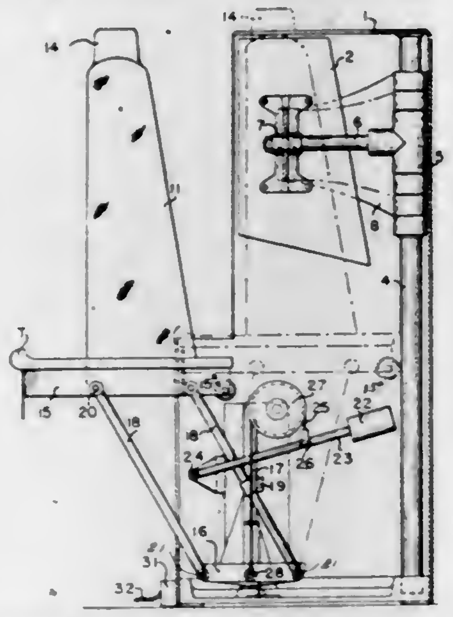


1. In a system for controlling a controlled element with a controlling element, the combina-

tion of a driving motor for said controlled element, a reversing switch for controlling said motor and jointly operated thereby and by said controlling element, and an auto transformer in the supply circuit of said motor responsive to the movement of said motor for controlling the voltage of the supply thereto.

2,420,818
SLEEVE PRESS

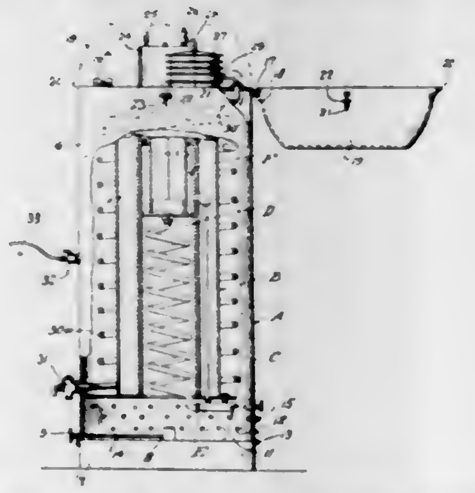
Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application October 12, 1944, Serial No. 558,373
6 Claims. (Cl. 223—57)



1. A press for sleeved articles including opposing upright pressing members having relative pressing movement and a spatulate form on which the articles are sleeved shiftable into and out of position between said members, means for effecting the relative pressing movement of the form and the pressing members, means for effecting shifting movement of the form into and out of position between the pressing members including supporting means for the form, and means for adjusting the supporting means to carry the form to different elevations relative to the pressing members.

2,420,819
PORTABLE SEA WATER STILL

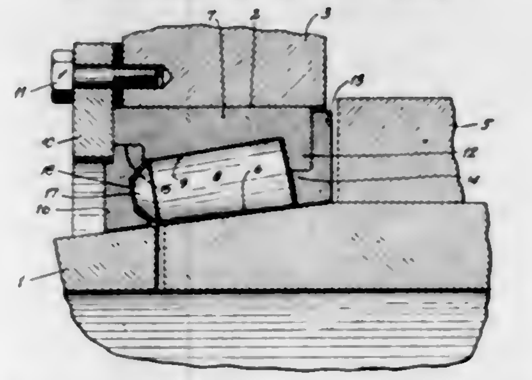
John De Stefano, Jackson Heights, N. Y.
Application September 28, 1943, Serial No. 504,183
1 Claim. (Cl. 202—163)



A distiller of the class described comprising a burner base, a cylindrical vertically elongated tank supported on and rising from said base, the top of said tank being substantially flat and provided with filler means, water heating and elevating means on the interior of said tank adapted to be acted on by said burner, a concentric steam dome attached to and rising centrally above the median top portion of said tank, said steam dome being provided with a pressure actuated valve, a second dome having radiating fins mounted atop said tank eccentrically arranged in respect to said steam dome and also confined within the perimeter limits of said top, a communicating pipe connection between the second dome and valve, a distillate coil in said tank, and a second pipe connection between said second dome and distillate coil.

2,420,820
ROLLER BEARING

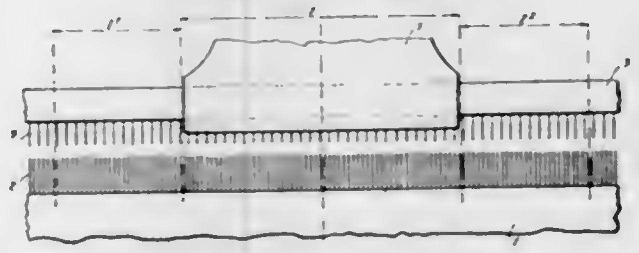
Clifford L. Eastburg, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application May 3, 1945, Serial No. 591,652
3 Claims. (Cl. 308—214)



1. A self-contained roller bearing unit comprising a cup having a raceway bore therein with an integral internal thrust rib at one end of said raceway and a plain cylindrical counterbore at the other end thereof, a solid rigid annular closure member press-fitted in said counterbore and occupying the full depth thereof, and rollers running on said raceway between said thrust rib and annular closure member, said annular closure member having an annular groove in the roller opposing face thereof, said rollers having the ends thereof adjacent to said annular closure member disposed in the annular groove therein.

2,420,821
DEVICE FOR THE MANUFACTURE OF STOCKINGS

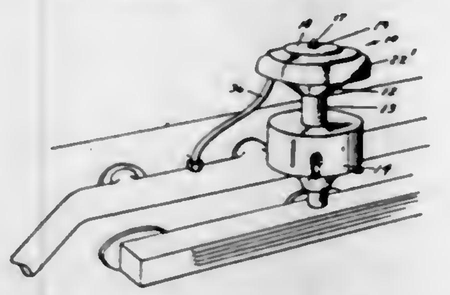
Jean Garric, Troyes, France, assignor to Societe Industrielle De Bonneterie, Troyes, France
Application April 6, 1945, Serial No. 586,988
In France April 7, 1944
2 Claims. (Cl. 66—89)



1. A device for the production of the unravelable edge of the lateral sole entrance parts of the sole of stockings on flat knitting machines of the type having a sinker bar and a needle bar without a movable central section, said device comprising a picot edge bar put into action and controlled so as to effect a transfer of an amplitude of two needles in combination with a knife having a width corresponding to that of the instep or front part of the foot and located above the instep needles.

2,420,822
AIR FILTER FOR CARBURETORS

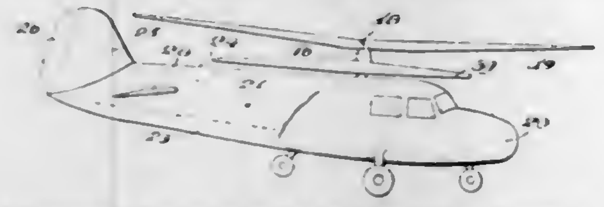
Nathan A. Hallwood, Columbus, Ohio; Harold S. Hallwood administrator of said Nathan A. Hallwood, deceased
Application April 19, 1944, Serial No. 531,713
8 Claims. (Cl. 183—52)



1. An air filter for engine carburetors comprising a casing having an air passageway therethrough, an intermittently rotatable filter carrier forming a part of said casing, filter media supported by said carrier and adapted to have localized regions thereof disposed in registration with said passageway, motor means applying rotative forces to said carrier, and a fluid pressure actuated escapement mechanism normally restraining said carrier against rotation and operative automatically when the region of the filter media in operation becomes relatively obstructed by solids accumulating thereon for successively presenting localized areas of said filter media to said passageways.

2,420,823
HELICOPTER

Russell R. Hays, Lawrence, Kans.
Application October 16, 1943, Serial No. 506,565
5 Claims. (Cl. 244—17)

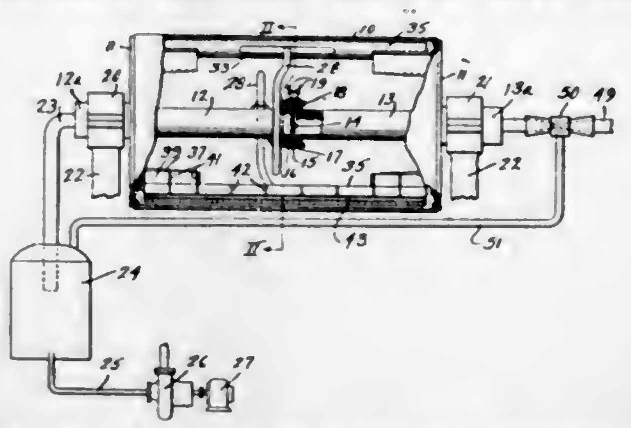


1. Counter-torque means for the lifting rotor of a helicopter, comprising in combination with a counter-torque panel mounted on the fuselage of said helicopter, a horizontally disposed counter-torque propeller mounted above said fuselage, and means including a brake for said propeller and variable speed transmission intermediate said propeller and said rotor for varying the rate of rotation of said propeller from zero rotation to a rotational speed absorbing a substantial portion of the driving torque of the engine of said helicopter during varying phases of flight.

2,420,824
FLUID REMOVAL DEVICE FOR DRYING DRUMS

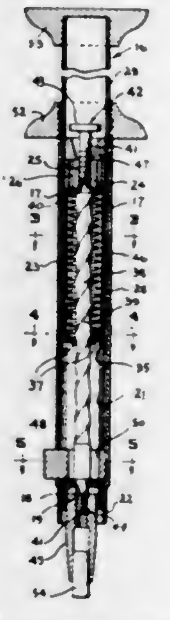
Lloyd Hornbostel and John E. Goodwillie, Beloit, Wis., assignors to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application April 1, 1944, Serial No. 529,210
7 Claims. (Cl. 34—125)

2. In combination with a steam-heated rotatable cylinder wherein steam that is introduced thereinto is adapted to condense and form a puddle of liquid at the bottom thereof at low rotational speeds of the cylinder or form a liquid film on the inner surface of the cylinder at high rotational speeds, a liquid-removing device comprising a pipe in said cylinder extending along the length thereof in closely spaced non-contacting relation with the inner surface of the cylinder, said pipe having a slot-like inlet along its length, a plate-like member secured to said pipe in generally tangential relation and disposed intermediate said inlet and the inner surface of the cylinder in closely spaced relation from said inner surface of the cylinder and cooperating therewith to form a passageway, a lip on said pipe extending forwardly of said inlet and cooperating with the inner surface of the cylinder to direct fluid toward the inlet, and a drain tube connecting said pipe for drainage of liquid out of the cylinder whereby said lip is effective to direct liquid from a puddle or a film in excess of the width of the passageway into the pipe while said passageway accommodates passage of thin films of liquid between the pipe and cylinder.



2,420,825
MECHANICAL POWER UNIT

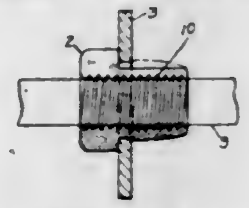
Paul C. Hutton, Washington, D. C.
Application July 14, 1945, Serial No. 605,038
14 Claims. (Cl. 74—57)



1. A mechanical power unit which includes a telescopic housing, a spirally twisted shaft rotatably mounted within the housing, a nut carried by one member of the telescopic housing, said nut having threaded engagement with the shaft whereby when the nut is moved axially thereof the shaft will be rotated, a spring adapted to urge the nut to move longitudinally in one direction along the shaft, means to compress the spring when the housing is moved to extended position against the tension of the spring, and a chuck carried by the shaft to which an eraser or the like may be attached.

2,420,826
STRAIN RELIEF FOR ELECTRICAL CONDUCTORS

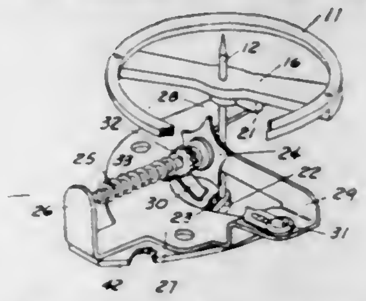
Louis J. Irrgang, Jersey City, N. J.
Application March 24, 1944, Serial No. 527,949
4 Claims. (Cl. 174—153)



1. Strain-relief means for an electrical cord or cable comprising, in combination with a support plate having an opening therein, the wall of which will compressibly receive said means, and defined by at least one straight side, a split tapered member of substantially non-compressible insulating material adapted to be slipped onto the cord or cable and to normally fit snugly thereover and having a collar adjacent to but of larger diameter than the large end of the taper, with a slight recess between the collar and the tapered portion, the split being wide enough to allow substantial contraction of the member, while the recess has a diameter such that when the tapered end of the member is forced into said plate opening, so the plate is positioned in the recess, the wall of said opening in the plate forces the member to grip the cord or cable, the member having at least one flat face to cooperate with the straight side of the opening to prevent the member from turning in the plate.

2,420,827
ELECTRIC CLOCK

Jesse J. Kennedy, La Salle, Ill., assignor to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware
Application August 14, 1944, Serial No. 549,381
2 Claims. (Cl. 58—28)

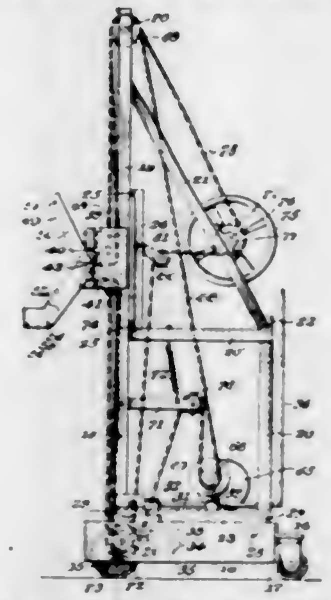


1. In an electric clock, time indicating means, an oscillatable shaft carrying a balance wheel, electromagnetic means for maintaining said shaft and balance wheel in oscillation, a second shaft substantially at right angles to said first shaft and carrying a star wheel, two pallet pins on said first shaft adapted to alternately engage teeth on opposite sides of said star wheel during successive oscillations of said balance wheel whereby said second shaft is intermittently rotated in one direction, and transmission means for transforming the intermittent rotation of said second shaft into substantially continuous rotation of said time indicating means, said means including a worm on said second shaft and a worm wheel operated thereby.

2,420,828
STACKING MACHINE

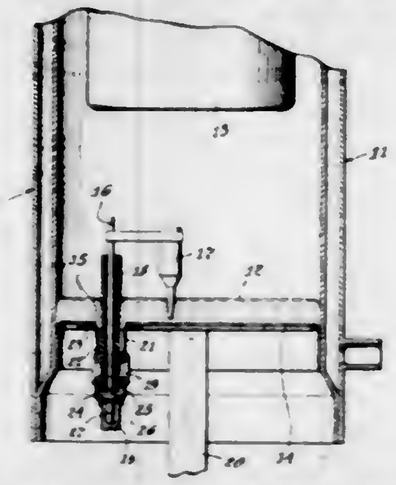
Walter J. King, Yakima, Wash.
Application September 17, 1945, Serial No. 616,734
11 Claims. (Cl. 214—66)

1. A machine for stacking or unstacking articles, comprising a shiftable base frame, substantially horizontal guide rods mounted upon the base frame, and spaced longitudinally thereof, an upstanding support extending above the base frame, bearings secured to the lower portion of the upstanding support and slidably mounted upon the guide rods, a rock shaft mounted upon the upstanding support, a crank carried by the rock shaft, a link connected with the crank, means connecting the link with the base frame, a member to turn the rock shaft, a carriage mounted upon the upstanding support to be raised and lowered with relation thereto, means to move the carriage, and article engaging means mounted upon the carriage.



2,420,829
IGNITRON, SEAL, AND METHOD OF MAKING

Donald E. Marshall, Allwood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 2, 1943, Serial No. 508,700
13 Claims. (Cl. 250—27.5)

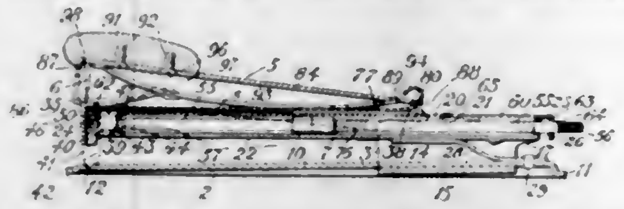


1. A seal comprising a hollow ceramic cylinder with a glass coating fused on a portion of its exterior, a metal eyelet through which said cylinder passes and projects beyond both ends, embedded in one end of said coating, and having an outstanding flange for connection to the wall of a vessel, and a lead-in conductor passing through said cylinder and sealed thereto by means of said coating.

2,420,830
FASTENER-APPLYING IMPLEMENT

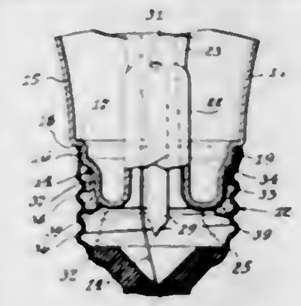
Arthur H. Maynard, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application November 15, 1944, Serial No. 563,499
14 Claims. (Cl. 1—3)

1. In a fastener-applying implement, a base, standards on said base formed with laterally-projecting lugs, a channel-shaped magazine-arm for containing the fasteners formed with notches in its opposite sides for engaging with the lugs on the standards, a spring acting between the base and the arm to maintain the notches in engagement with the lugs to pivotally mount the arm on the standards, a lever pivoted to the arm, a driver mounted on the lever for reciprocation relative to the arm, and means within the magazine-arm for feeding the fasteners to position them beneath the driver.



2,420,831
ELECTRIC LAMP AND BULB

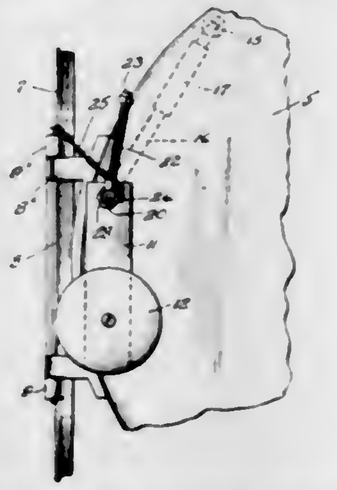
Michael E. McGowan, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1943, Serial No. 501,075
8 Claims. (Cl. 176—32)



2. A bulb comprising a neck portion in the form of a plug for axial insertion into a base, an annular abutment extending from said neck portion, said abutment having a surface disposed in a plane substantially normal to the longitudinal axis of said bulb to seat the upper edge of a base, and a cylindrical surface adjacent to said abutment and proportioned to firmly contact with the interior surface of said base adjacent to said edge.

2,420,832
REEL END ALARM

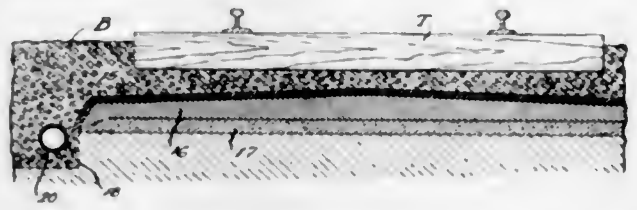
Irving I. Merkur, Bronx, N. Y.
Application July 28, 1943, Serial No. 496,516
4 Claims. (Cl. 116—67)



1. A reel end alarm for motion picture film and comprising a bell adapted for mounting on the reel holder, a clapper for the bell, an arm connected to the clapper, and a self adjusting ball bearing roller rockably journaled on the free end of the arm positioned to ride on the film during unwinding movement of the latter and adapted to maintain the periphery of the roller in flat contact with the surface of the film, said arm being released by the roll of film for free downward swinging movement of the arm and clapper upon a predetermined reduction in the diameter of the roll of film during its unwinding action, and said bell being disposed in the path of said clapper.

2,420,833
RAILWAY ROADBED

Benjamin Cullen Monroe, Tuscola, Ill.
Application October 7, 1944, Serial No. 557,638
3 Claims. (Cl. 238—2)



1. A railway road bed consisting of a ballast for supporting the ties of a railway, and a yielding foundation for the ballast comprising a top apron of impervious resilient cushion material having a lateral pitch, a heavy supporting layer of bituminous cement having a lateral pitch at the upper face fitting the apron and arranged within the same, said cement layer being provided at its lower face with a recess, and a mastic sand cushion arranged within the recess of the cement layer and forming a bottom layer and yieldable in response to the load of passing trains.

2,420,834
PRODUCTION OF CYCLIC MONO-SULFONES

Rupert C. Morris and Harry de V. Finch, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 15, 1943, Serial No. 490,931
6 Claims. (Cl. 260—329)

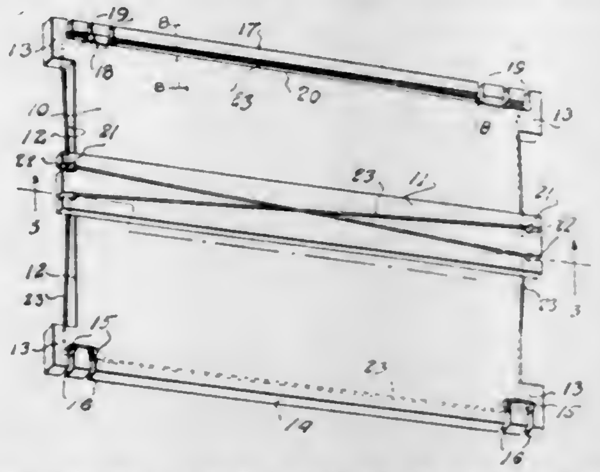
6. In a process for the production of monomeric cyclic sulfones while inhibiting undesirable side reactions of the type of polymerization and formation of polysulfones, the steps of subjecting an unsaturated hydrocarbon containing at least two olefinic linkages in conjugated position, which hydrocarbon is contaminated with organic peroxides, to a distillation in the presence of a basic-acting compound to obtain said unsaturated hydrocarbon in a substantially peroxide-free state, reacting said substantially peroxide-free unsaturated hydrocarbon with sulfur dioxide employed in an amount in excess of that necessary to react with said unsaturated hydrocarbon, and effecting said reaction at a temperature of about 100° C. at a superatmospheric pressure sufficient to maintain the reactants in the liquid state and for a period of time sufficient to effect an addition reaction between the sulfur dioxide and the unsaturated hydrocarbon.

2,420,835
DRAWING BOARD AND STRAIGHTEDGE

James Morrison, Honolulu, Territory of Hawaii
Application October 12, 1944, Serial No. 558,345
2 Claims. (Cl. 33—80)

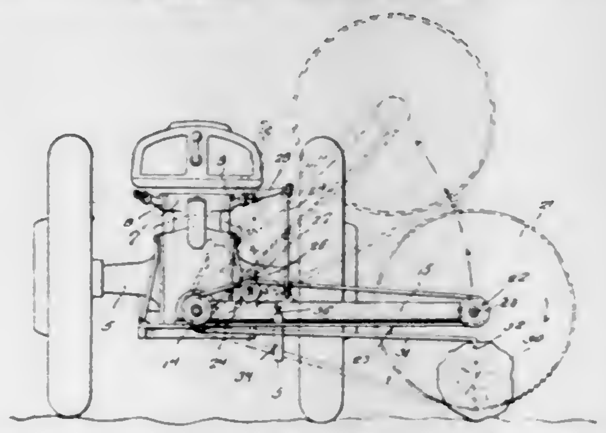
1. A drawing device of the character described comprising a board, a straight edge disposed upon

the board and extending across the same, a flexible strand having portions extending across and connecting with the ends of the board and with the adjacent ends of the straight edge and adjustably holding the straight edge in desired position on the board whereby the straight edge may be shifted to different parallel positions, and the surface of said board having a groove therein with the flexible strand positioned in said groove so that movements of the flexible strand will not be restricted, the working of the flexible strands in said grooves permitting unobstructed sliding movements of instruments over the surface of the board.



2,420,836
TRACTOR-MOUNTED LOG-HOLDING POWER-OPERATED SAW

Charles Nelson, Jr., Lucas, Kans.
Application January 24, 1945, Serial No. 574,225
1 Claim. (Cl. 143—43)

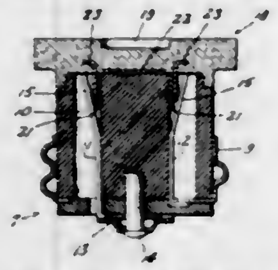


A tractor operated saw of a type in which the tractor includes a power take-off shaft and a power operated lift mechanism, an arm pivoted on the tractor at the rear end of the shaft and in a plane transverse of the tractor, a saw journaled at the outer end of the arm, means operatively connecting the saw to the shaft, means connecting the arm to the lift mechanism to raise and lower the saw into and out of engagement with a log at one side of the tractor, a log anchoring bar pivoted at one end to said arm, a prong at the outer end of the bar adapted to penetrate into a log for securing the log against movement, a guide carried by the arm having a vertical slot extending parallel to said plane freely receiving the bar, and spring means in the slot and engaging the bar to urge the prong downwardly into the log.

2,420,837
FUSE PLUG

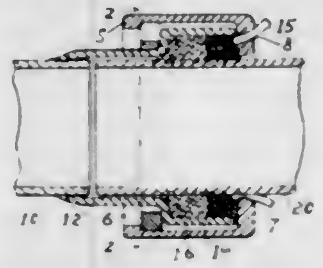
Thomas R. O'Connor, Baltimore, Md.
Application January 21, 1944, Serial No. 519,179
2 Claims. (Cl. 200—130)

1. In a device as described a fuse body including an enlarged annular head provided with a transverse centrally disposed slot extending thereacross, a glass insert removably seated in said slot, a fusible element held within said body by said insert, said fusible element having depending limbs, said insert having depending contact arms, adapted to secure the said element in place, a pair of conductor arms diverging adjacent to said contact arms and between which diverging portion and said body, said arms and limbs are wedged, and means whereby elements close an electric circuit.



2,420,838
PIPE JOINT

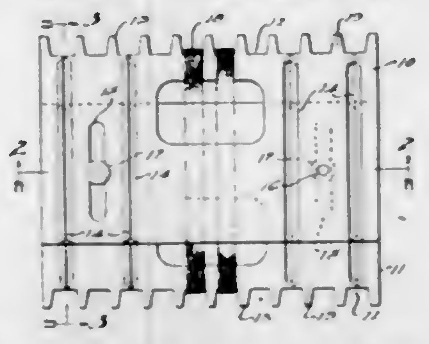
Alden E. Osborn, Mount Vernon, N. Y.
Application December 7, 1944, Serial No. 566,989
13 Claims. (Cl. 285—161)



1. A pipe joining means comprising a socket member having an enlarged end adapted to form a circumferential space around the outside of a pipe to be connected to said member, a collar rotatably mounted on said member and having an internal flange adapted to form an end wall of said space, said flange having an opening therethru intersecting said space, means to hold said collar from longitudinal displacement in relation to said member, and a flexible element adapted to be inserted into said space thru said opening by the rotation of said collar in relation to said member and said pipe.

2,420,839
ADJUSTABLE SKEIN HOLDER

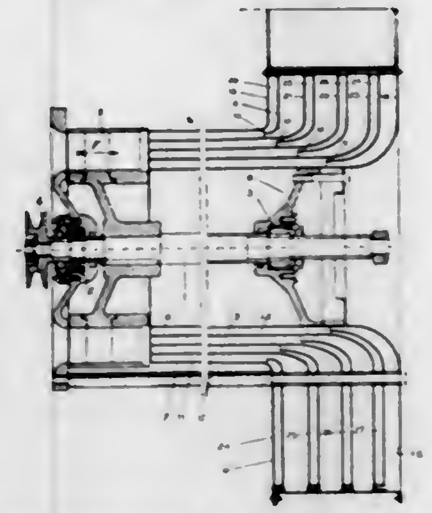
Charles T. Ostrom, Base Line, Mich.
Application October 29, 1945, Serial No. 625,301
1 Claim. (Cl. 242—127)



A device of the character described comprising an adjustable skein holder comprising a pair of sections slideably mounted upon each other and having formed in each section a longitudinal slot and screw hole opening therein, a plurality of grooves formed to interlock and hold said sections in alignment upon each other, notches formed in one edge of each section to separate the skeins, and locking means to lock said sections in a predetermined position comprising a pair of wide headed set screws adapted to have the stems thereof pass through said slots into said screw holes and engage the same, said heads of said set screws contacting the edges of said slots to engage the same and thereby secure said sections firmly together.

2,420,840
GAS PURIFIER AND COMPRESSOR

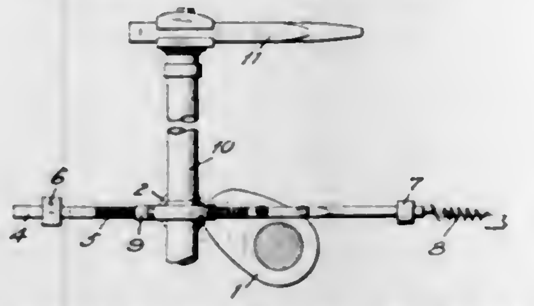
Emile Piquerez, St. Cloud, France
Application June 28, 1945, Serial No. 602,113
In France April 26, 1944
2 Claims. (Cl. 183—77)



1. A gas compressor and purifier comprising a helicoidal compressor adapted to impart to the gas a tangential speed considerably in excess of the meridian speed, a chamber having a section in the shape of a circular ring, the annular space of which communicates at one of its ends with the annular outlet of the compressor, partitions dividing the said annular space of the chamber into several concentric annular spaces, several pairs of conduits of spiral shape surrounding the other end of the said chamber, the two conduits of each pair being juxtaposed and communicating with one of the said concentric annular spaces by means of orifices that are also annular, the largest being connected with the outer wall of the said space and the smallest with the inner wall of the same space, the conduit which in each pair has the orifice of the largest diameter communicating also with a space which receives the outgoing dust laden gas and the other conduit communicating with a space receiving the purified outgoing gas.

2,420,841
PICKER-STICK DRIVING MECHANISM FOR LOOMS

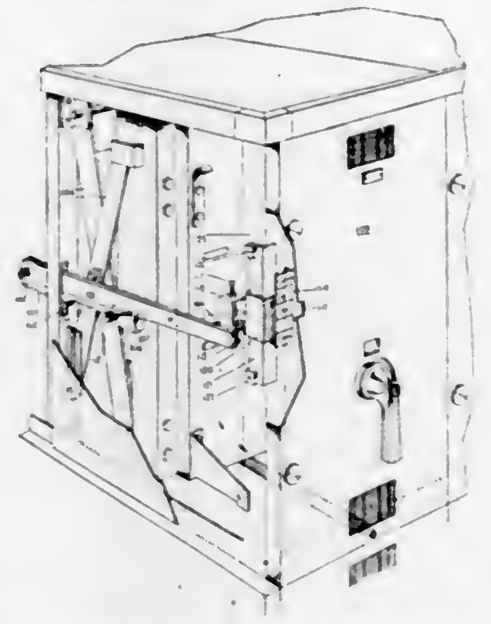
Juan Enfedaque Roig, Barcelona, Spain
Application November 8, 1944, Serial No. 562,467
In Spain January 11, 1944
2 Claims. (Cl. 139—142)



1. The combination with an oscillatory shaft and a picker stick carried thereby of means for driving the shaft including a segmental gear carried by the shaft, a slidably mounted rack bar engageable with the segmental gear, a roller mounted on the inner face of the rack bar, a rotatable cam engageable with the roller for moving the rack bar in one direction and a spring connected to the inner end of the rack bar and tensioned to move the rack bar in a reverse direction.

2,420,842
ENCLOSED CIRCUIT BREAKER POSITION INDICATOR

Walter Haines Schymik, Oreland, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 25, 1945, Serial No. 574,579
5 Claims. (Cl. 174—52)



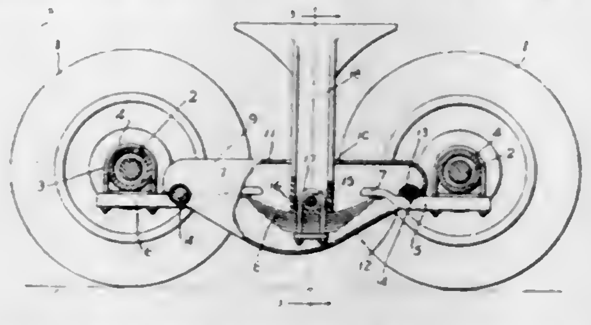
1. An indicator for determining the position of a circuit breaker within an enclosed cubicle; said cubicle comprising a movable frame for supporting the circuit breaker, and a stationary panel carrying back connection studs, connection studs mounted on said circuit breaker and passing through said stationary panel for completing circuit connections of said circuit breaker with said back connection studs when said circuit breaker is in operating position adjacent said panel and for interrupting the circuit of said circuit breaker when said circuit breaker is moved away from the panel, and means for moving said frame toward and away from said panel; said indicator comprising a first member secured to said frame and extending therefrom; a second longitudinal member mounted in said cubicle and extending parallel to the path of movement of said frame; an indicating element secured to said second member; an opening in said panel; said indicating element being visible through said opening; and a connection between said first member and said second member for moving said second member and its indicating element in accordance with movement of the frame for indicating the position of said circuit breaker.

2,420,843
WHEEL TRUCK

Robert L. Shuey, Ellensburg, Wash.
Application September 25, 1945, Serial No. 618,454
3 Claims. (Cl. 280—104.5)

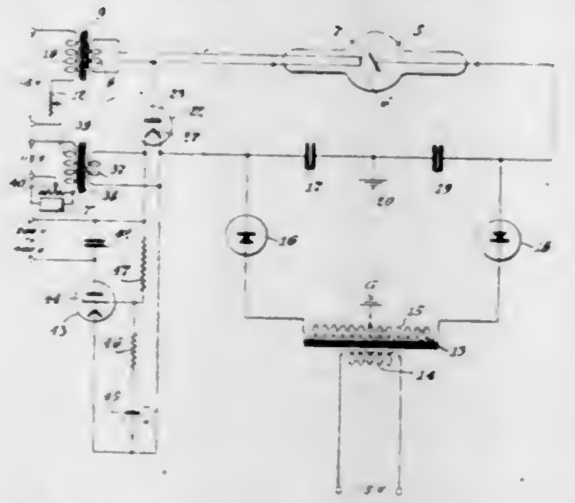
1. In combination, vehicle wheels, spring members between said wheels, means for supporting the axles of the wheels on said spring members, box housings mounted on the means for supporting the axles on said spring members and adapted

to be tilted at each end by the up and down movement of the wheels, each of said box housings being provided with an opening in the top wall and oppositely disposed openings in the bottom wall thereof, said means for supporting the axles on the spring members projecting through the oppositely disposed openings in the box housings, depending hangers extending through the openings in the top walls of said box housings and attached to the under side of the vehicle for supporting said spring members in position, and a transverse rod mounted rotatably in said housings and adapted to connect same and allow said tilting movement.



2,420,844
SHORT EXPOSURE X-RAY APPARATUS

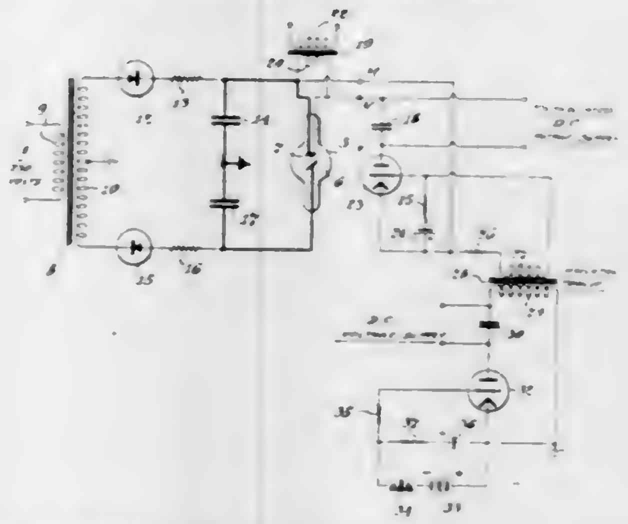
Charles M. Slack, Glen Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 15, 1944, Serial No. 540,382
6 Claims. (Cl. 250—98)



3. An X-ray apparatus for the taking of short exposure radiographs comprising an X-ray tube, a source of high potential electrical energy including energy storage means for energizing said X-ray tube upon the discharge of the energy accumulated in said energy storage means, a control tube connected in series with said energy storage means and said X-ray tube for controlling the discharge of said energy storage means and provided with a filamentary cathode adapted to be heated to an electron emitting temperature prior to said control tube becoming conductive, a source of low voltage electrical energy for normally heating the cathode of said control tube to a temperature where no appreciable electron emission occurs, a condenser connected to the cathode of said control tube and adapted to discharge its energy through said cathode to suddenly and momentarily raise the temperature thereof to a value in excess of that required for electron emission to cause discharge of said energy storage means and attendant energization of said X-ray tube with substantially no dissipation of energy from said high voltage source in said control tube, and triggering means including a thermionic discharge device and operable to cause discharge of said condenser through said control tube cathode when a radiographic exposure is desired.

2,420,845
SHORT EXPOSURE X-RAY APPARATUS

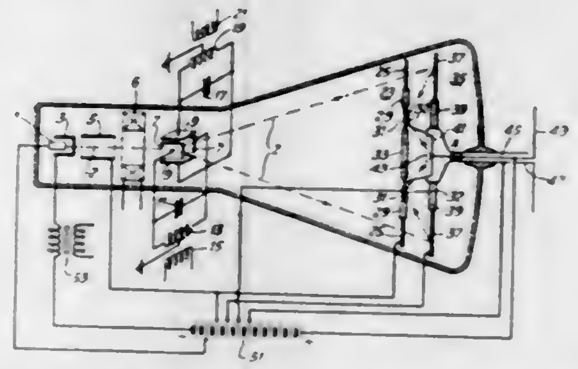
Charles M. Slack, Glen Ridge, and Louis F. Ehrke, South Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 15, 1944, Serial No. 540,383
12 Claims. (Cl. 250—98)



1. An X-ray apparatus for making short exposure radiographs comprising an X-ray tube provided with an anode and a filamentary cathode, a source of high potential electrical energy for energizing said X-ray tube, means for applying a voltage to said filamentary cathode to preheat the same to a temperature below that of electron emissivity, and means to suddenly energize said filamentary cathode by superimposing a higher voltage thereon to suddenly raise said filamentary cathode to an electron emitting temperature to cause energization of said X-ray tube by said high potential source.

2,420,846
CATHODE-RAY TUBE FOR GENERATING OSCILLATIONS

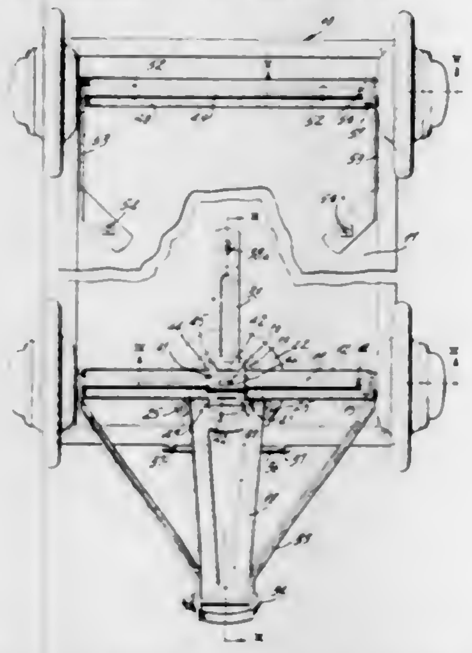
Maximiliaan Julius Otto Strutt and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 23, 1943, Serial No. 480,196
In the Netherlands July 11, 1940
8 Claims. (Cl. 315—12)



6. A cathode ray tube comprising means to generate an electron beam, a first target annular electrode facing the electron beam and having a plurality of annularly arranged apertures through which the electron beam may be successively projected, a second target annular electrode spaced from said first target electrode and arranged to receive primary electrons after they are projected through said apertures, and having a secondary electron emissive surface, a third target electrode insulated from and arranged within and coplanar to said apertured electrode, and having a secondary electron emissive surface and a fourth target electrode insulated from and arranged within and coplanar to said second target electrode.

2,420,847
VEHICLE AXLE MOUNTING

Vincent R. Trabucco, Steger, Ill., assignor to Steger Products Manufacturing Corporation, Steger, Ill., a corporation of Illinois
Application June 15, 1945, Serial No. 599,715
5 Claims. (Cl. 280—87.01)

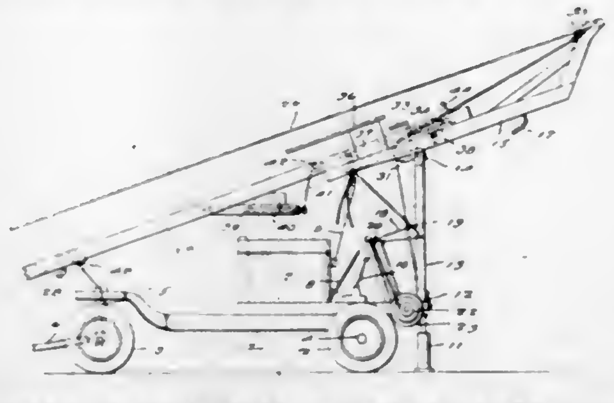


1. A swivel construction for a vehicle comprising a circular cupped swivel housing having its rim secured to the vehicle body and having an enlarged aperture in the bottom thereof, an axle support having a smaller non-circular aperture concentric with the housing aperture, a tongue having a circular dished portion in nested relation with said swivel housing disposed between said housing and the axle support and having a non-circular aperture registering with the aperture of said axle support, a swivel washer in said housing engaging the bottom thereof and having a non-circular aperture registering with said apertures of said axle support and tongue, said tongue and washer having cooperating projections and depressions to secure said tongue and washer for co-rotation, and a connecting member of conforming non-circular cross section extending through said non-circular apertures to secure said swivel washer, tongue, and axle support in fixed co-rotating relation but extending freely through said housing aperture to provide for relative swiveling movement between said housing and said washer, tongue and axle support.

2,420,848
MATERIAL EXCAVATING AND LOADING MACHINE

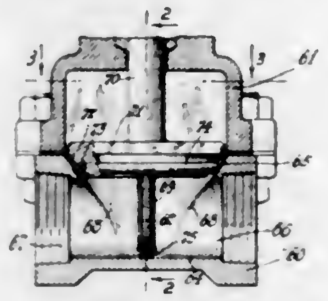
John Trinaistich, Trinidad, Colo.
Application November 30, 1945, Serial No. 631,921
3 Claims. (Cl. 214—104)

1. In a portable elevator, the combination, which comprises a track, means mounting said track on a truck body or the like in an inclined position, a movable section in said track providing a platform, means pivotally mounting said platform for dumping of a device thereon at a point spaced from the outer end thereof, a tension cylinder having a resilient element therein, means pivotally mounting said tension cylinder in the track at a point spaced from the inner end of the platform, a flexible element connecting the platform to the resilient element of the cylinder, means urging said cylinder downward providing tension in said resilient element, a stop latch, means resiliently mounting said stop latch in the platform, a door-releasing trigger on the resilient mounting means of the stop latch, a car mounted by wheels on said track, a door pivotally mounted at the forward end of said car, a latch element holding said door closed, said latch element positioned to be engaged by said trigger, a socket on said car positioned to be engaged by said stop latch, a cable attached to the door at the forward end of the car, a pulley centrally disposed in said track mounted at the upper end thereof around which the cable passes, means applying force to the cable for actuation of the car on the track, and means releasing said force after dumping of the car.



2,420,849
VALVE

Wylie G. Wilson, Elizabeth, N. J., assignor to Everlasting Valve Company, Jersey City, N. J., a corporation of New Jersey
Application September 25, 1943, Serial No. 503,748
4 Claims. (Cl. 251—51)



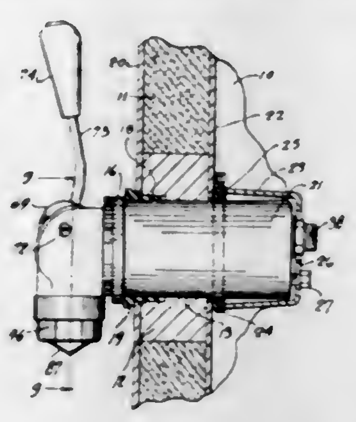
1. A valve-body having two axially alined ports with a valve-chamber between and affording unobstructed communication between the ports, the floor of the chamber being curved cross-axially of the ports and alined therewith, the side walls of the chamber diverging widely upwards from the floor and forming a continuous surface of revolution, and the upper end of the chamber being open, a valve element in the form of a barrier movable into and out of the chamber through the open upper end, the barrier having portions substantially conforming to the unbroken interior side walls and floor of the chamber, and a functionally continuous body of rubber or comparable material carried by the barrier and engaging and sealing with the interior side walls and floor of the chamber when the barrier is at the limit of its movement into the chamber, and having a portion in effective sealing relation between said ports and a portion in effective sealing relation between each port and the open upper end of said chamber.

2,420,850

MIXING FAUCET FOR DISPENSING BEVERAGES

Rudolph Yuza, Chicago, Ill., assignor to A. Dalkin Company, Chicago, Ill., a corporation of Illinois

Application September 21, 1945, Serial No. 617,709
6 Claims. (Cl. 225—26)



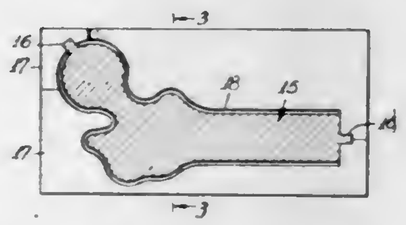
1. A nozzle for dispensing a plurality of liquids to produce a mixed drink, comprising a structure having separate liquid passages formed therein, and a nozzle tip at one end thereof and providing a valve chamber communicating with one of said passages, a valve sleeve slidably mounted on said tip and providing a valve for the other of the passages, a valve member in said valve chamber and normally closing passage therefrom, a cap mounted on said structure and surrounding said tip and providing together with said tip a mixing chamber having an outlet orifice, said structure having diverging passages formed therein opening communication between said valve chamber and said mixing chamber, and means for moving said valve member and said valve sleeve from and to valve closing position with respect to said valve chamber and said other of the passages, respectively.

2,420,851

METHOD OF MAKING PATTERNS AND USE THEREOF

Eric H. Zahn, Pound Ridge, and Roy Chester Feagin, New York, N. Y., assignors to Austenal Laboratories, Inc., New York, N. Y., a corporation of New York

Application July 8, 1943, Serial No. 493,828
5 Claims. (Cl. 22—195)



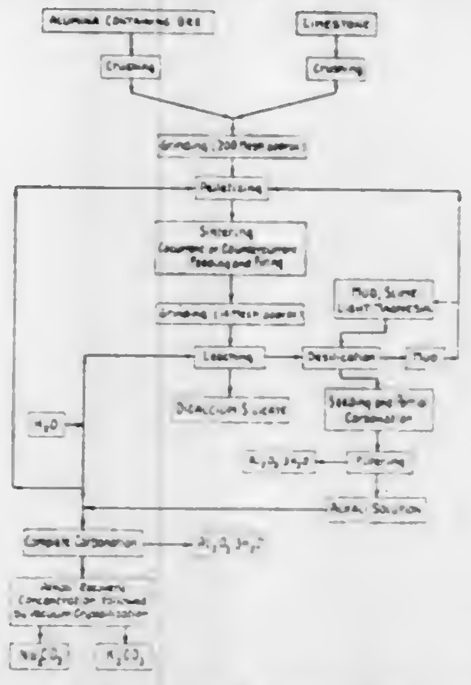
1. A method of making a cast metallic article having a hollow interior, which consists in forming a core of destructible material conforming to said hollow interior, casting differentially destructible material around said core to form a destructible pattern which is a replica of the desired article, destroying the core to eliminate it from said pattern, said core elimination being effected by subjecting it to a destructive action to which the pattern material is immune, investing the resultant hollow pattern in refractory mold material and then destroying it to eliminate it and thereby leave a corresponding mold cavity in the refractory material, and casting the desired metallic article in said cavity.

2,420,852

RECOVERY OF ALUMINA FROM ORES

Frederick Ratcliffe Archibald, Beverly, Mass., assignor to Nepheline Products Limited, Lakefield, Ontario, Canada, a company of Canada

Application September 24, 1942, Serial No. 459,587
18 Claims. (Cl. 23—141)



1. A method of treating aluminum containing material comprising tumbling a mixture of finely ground aluminum-containing material and limestone and an alkaline reacting solution of an alkali metal compound to form pellets, sintering the pellets to convert the aluminum into a soluble salt, crushing the sintered pellets, leaching the crushed pellets, separating alumina from the solution and utilizing a portion of the remaining solution as the alkaline reacting solution for pelletizing fresh mixtures of aluminum-containing material and limestone.

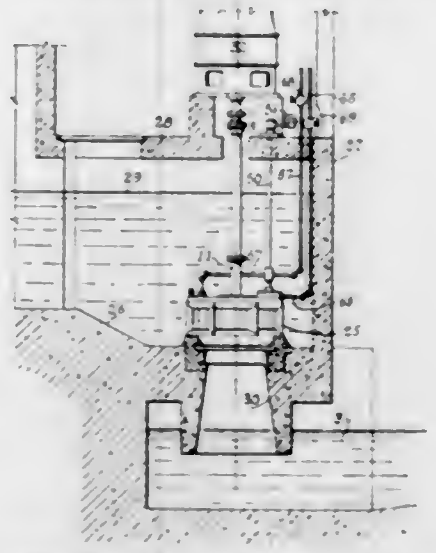
7. A method of removing silica from an alumina enriched alkali metal aluminate solution comprising adding a light magnesium oxide to the solution and heating said solution to a temperature above 212° F. for a time sufficient to effect deposition of silica.

2,420,853

HYDRAULIC TURBINE

George A. Biggs, Springfield, Ohio, assignor to The James Leffel & Co., Springfield, Ohio, a corporation of Ohio

Application May 29, 1944, Serial No. 537,813
11 Claims. (Cl. 253—122)



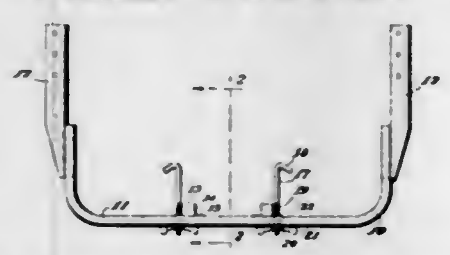
2. In combination, a hydraulic turbine mounted in a flume, gate means in said turbine for controlling waterflow through the same, shaft means for rotatably supporting said gate means, bearing means for said shaft means, a gate operating mechanism operably connected to said shaft means for rotating the gate means, means forming a closed chamber in which said gate operating mechanism is received to prevent contact thereof with water surrounding the turbine and the enclosure, passage means through said shaft means interconnecting said chamber with the bearing means for the shaft means that is remote from the chamber, means extending from the exterior of the flume in which the turbine is mounted and connected to said chamber for conducting lubricant to the chamber and place lubricant therein under pressure and thereby lubricate said gate operating mechanism and the bearing means for said shaft means, seal means adjacent the bearing means for the shaft means to prevent loss of lubricant from said chamber, and means connected to said chamber and extending to the exterior of the flume in which the turbine is mounted for exhausting gaseous substances from said chamber whereby to permit complete filling of said chamber with lubricant under pressure.

2,420,854

TIRE CARRIER

James J. Black, Cincinnati, Ohio, assignor to The Trailmobile Company, Cincinnati, Ohio, a corporation of Delaware

Application November 15, 1945, Serial No. 628,700
5 Claims. (Cl. 224—29)



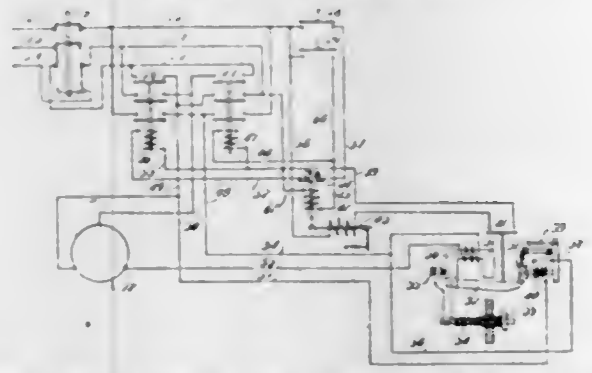
1. A tire carrier for a heavy duty highway vehicle comprising a tire supporting cradle adapted to be positioned beneath a vehicle and secured thereto, a pair of locating bars disposed transversely of the cradle, said locating bars being adjustable to various spaced apart positions, and a pair of J bars for holding the tire to the cradle, each of said J bars being carried by a locating bar and being adjustable therewith.

2,420,855

CHUCK ELECTRIC MOTOR CONTROL

Fred H. Bogart, South Euclid, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Original application June 7, 1941, Serial No. 397,145. Divided and this application July 23, 1943, Serial No. 495,833
7 Claims. (Cl. 279—1)



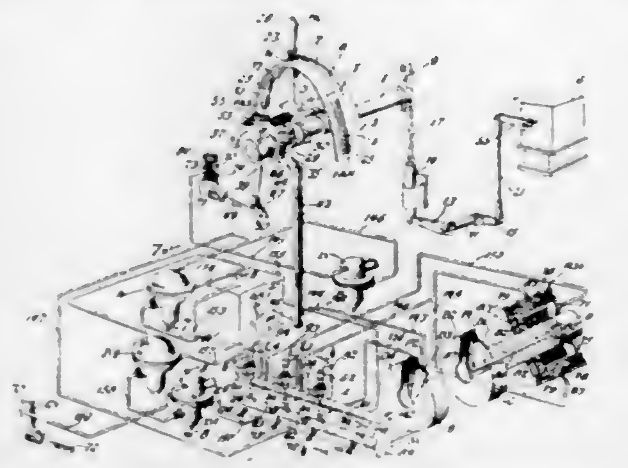
1. In combination with a chuck having movable work gripping means and an electric motor for actuating said means, a control for said motor comprising a normally open current supply circuit to the motor, a switch for closing said circuit to energize said motor, means for interrupting said circuit when thus closed to deenergize said motor and responsive automatically to a predetermined value of current passing through said motor and correlated to the gripping pressure of said gripping means, said interrupting means including relatively adjustable elements to vary said predetermined value of current in accordance with different gripping pressures of said gripping means, and means for rendering said interrupting means non-responsive to the current surge in the motor incident to its starting from rest when said current surge is greater in value than said predetermined current value.

2,420,856

SHIP DRIVE AND CONTROL SYSTEM

William Elmer Brill, Cleveland, Ohio, and Emil R. Gasser, Buffalo, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 26, 1943, Serial No. 484,596
21 Claims. (Cl. 192—.01)



1. A control system for a reversing gear of the type described having separate pressure operable means for causing reversal thereof, said control means comprising pressure control valves for said pressure operated means, separate operating linkage for each of said valves, a master control lever movable in opposite directions between a neutral position and reversing control positions for engaging and moving one of said control valve linkages to cause operation of one or the other of said pressure operated means and a spring biased plunger operable by said control lever for operably engaging spaced portions of another of said valve linkages only when said lever is moved in one direction past the neutral position to cause advanced or delayed operation of another of said control valves thereby to vary the interval between operation of said separate pressure operable means.

2,420,857

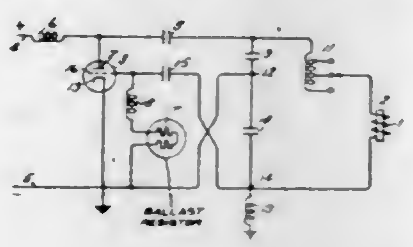
ELECTRIC DISCHARGE DEVICE OSCILLATOR WITH NONLINEAR GRID LEAK RESISTOR

George M. Brown, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application December 9, 1944, Serial No. 567,432
5 Claims. (Cl. 250—36)

1. A high frequency oscillation generator comprising an electric discharge device provided with an anode, a cathode and a grid, connections comprising an anode cathode circuit for said dis-

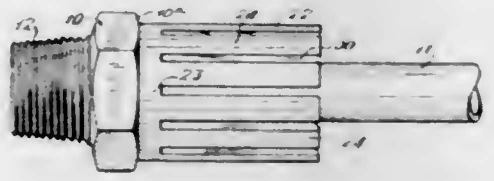
charge device for causing said discharge device to oscillate and supply a high frequency voltage to a load device including connections for applying a negative voltage bias to said grid dependent upon said high frequency voltage, a resistance having a high positive temperature coefficient of resistance, and electric connections separate from said anode cathode circuit for connecting said resistance between said grid and said cathode, said high frequency voltage increasing when the power supplied to the load device is decreased whereby said resistance is heated substantially to produce an increased negative bias on said grid and reduce substantially the grid-cathode current of said discharge device under decreased power output conditions.



2,420,858

COUPLING

Dean H. Brownell, Rocky River, Ohio
Application May 20, 1944, Serial No. 536,480
9 Claims. (Cl. 285—174)



1. A coupling or the like comprising a body having a conduit-receiving sleeve provided with resilient locking means, a packing in said sleeve and surrounding the conduit, and a gland in said sleeve and surrounding said conduit, said gland having a snap engagement with said resilient locking means by which it is retained in said sleeve in engagement with said packing.

2,420,859

ALUMINUM PHOSPHATE BONDED DIAMOND ABRASIVE

Orello S. Buckner, Northboro, Mass., assignor to Bay State Abrasive Products Company, Westboro, Mass., a corporation of Massachusetts
No Drawing. Application October 24, 1944, Serial No. 560,199
7 Claims. (Cl. 51—307)

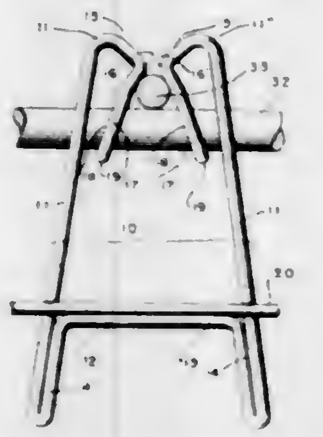
1. A new article of manufacture composed essentially of diamond abrasive grain and a ceramic bond containing substantially no silica, and in which phosphates predominate to such an extent as to control the physical characteristics of the bond.

2,420,860

HIGH CHAIR AND TIE FOR REENFORCING RODS

Bingham F. Burner, Arlington, Va.
Application November 13, 1945, Serial No. 628,026
16 Claims. (Cl. 72—122)

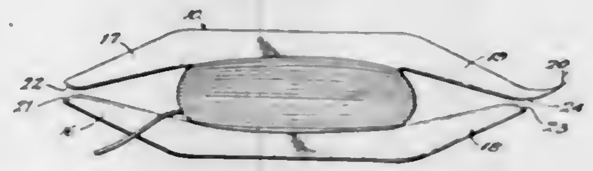
1. A chair tie for supporting crossed rods, comprising a pair of leg units each having upstanding side portions spaced apart at their upper ends for the passage of a rod therebetween, a pair of saddle loop members suspended between the upper ends of adjacent side portions of the leg members, each saddle loop member having an open upper end for the reception of a rod, and one loop member having its open end of greater width than the open end of the other loop member whereby the open end of the said one loop member receives the open end of the other loop member.



2,420,861

TATTING SHUTTLE

Gustav A. Carlson, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a corporation of Illinois
Application May 4, 1945, Serial No. 591,954
7 Claims. (Cl. 87—58)



1. A tatting shuttle comprising a frame of substantially uniform thickness in cross section throughout providing a core for receiving and winding of thread, a pair of arms extending forwardly and toward each other from opposite ends of said core in adjacent opposed relation, a second pair of arms extending rearwardly and toward each other from opposite ends of said core in adjacent opposed relation, each of the adjacent opposed surfaces of said pairs of arms which extend inwardly toward said core from the end of the arm being inclined toward the adjacent opposed arm whereby the ends of each pair of arms provide a tapered thread-receiving groove of a maximum width at the end of the arms.

2,420,862

STABILIZATION OF VINYL AROMATIC COMPOUNDS WITH GASEOUS DIOLEFINS OR ACETYLENES

Thomas S. Chambers, Newark, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 30, 1943, Serial No. 504,435
8 Claims. (Cl. 260—666.5)

1. The process of stabilizing vinyl aromatic compounds which comprises dissolving therein as a stabilizer a member of the group consisting of aliphatic conjugated diolefins and acetylenes having boiling points below about 10–30° C., in an amount up to the limit of solubility of the stabilizer in the vinyl compound.

2,420,863

DRY PRESS INSULATING FIRE BRICK

Glen W. Charles, Mexico, Mo., assignor to A. P. Green Fire Brick Company, Mexico, Mo., a corporation of Missouri
No Drawing. Application May 7, 1943, Serial No. 486,109
1 Claim. (Cl. 106—41)

The process of making insulating refractories which comprises mixing and tempering to dry press consistency about 10.0% by weight of plaster of Paris, about 10.7% by weight of sawdust, about 30.0% by weight of plastic fire clay, about 15.0% by weight of Missouri bituminous coal, about 17.5% by weight of fire clay grog and about 16.8% by weight of water, dry pressing said mix into green brick and burning said green brick.

2,420,864

PIEZOELECTRIC PLASTIC MATERIAL AND METHOD OF MAKING SAME

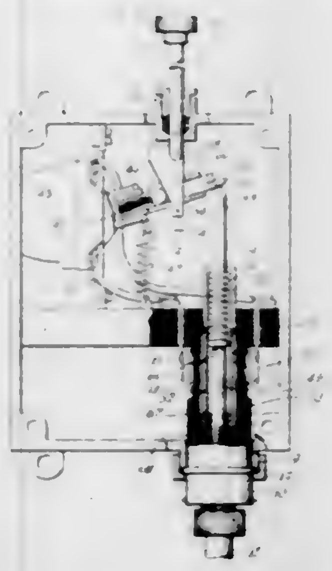
Constantin Chilowsky, New York, N. Y.
Application April 17, 1943, Serial No. 483,514
8 Claims. (Cl. 171—327)

1. The method of making a composite piezoelectric plastic material comprising, placing a quantity of finely divided piezoelectric crystals within a fluid body of plastic material, distributing said crystals substantially uniformly throughout said plastic, solidifying said plastic, melting said crystals, recrystallizing and orienting said crystals in situ so that at least an effective proportion thereof will have their electrical axes oriented in substantially uniform directions.

2,420,865

PLUG AND SWITCH BOX

David Conlan, Brooklyn, N. Y., assignor to Conlan Electric Corporation, Brooklyn, N. Y., a corporation of New York
Original application July 2, 1943, Serial No. 493,313. Divided and this application March 16, 1946, Serial No. 654,957
2 Claims. (Cl. 200—50)

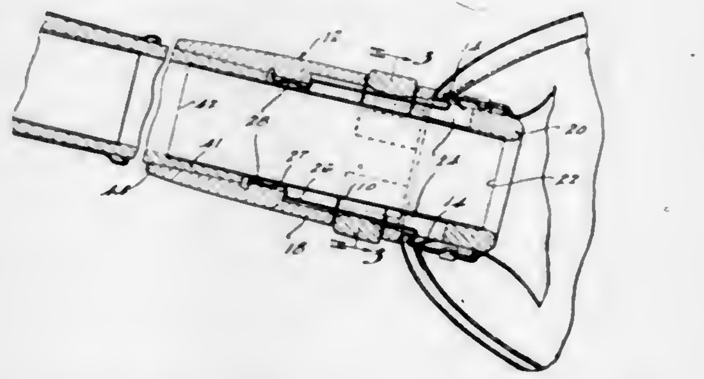


1. A combined plug and switch box, comprising a water-tight box having a plug opening, a plug receptacle in the box in line with said opening, a plug for engagement in said receptacle, a plunger in said box in line with the movement of plug entry, a guard about said plunger, said plug having an opening in the end of the same to receive said guard and provided with a pin within said opening positioned to engage and actuate the plunger, a switch mounted in the box and connected to control said plug receptacle, said switch having an actuating toggle in line with said plunger to be thereby engaged and operated by said plunger upon insertion of a plug within the box and spring means for throwing said switch toggle to "off" position when no plug is in place in the box, said toggle having a retractable portion movable to a position clear of the operating plunger and means exteriorly of the box for effecting said retractable movement of said retractable portion of the toggle.

2,420,866

COUPLING FOR SUCTION CLEANERS

George R. Coss, Detroit, Mich., assignor to Eureka Williams Corporation, a corporation of Michigan
Application April 21, 1944, Serial No. 532,150
6 Claims. (Cl. 285—174)



1. A detachable male coupling member comprising a tubular plastic shell having an internal annular shoulder adjacent one end thereof, an inner metallic tubular member fitted in said shell and seated against said shoulder, said shell and member cooperating to define an air conducting passage, means cooperable with said shell and tubular member to prevent separation thereof, said shell being formed so as to provide an axially extending slot exteriorly of said tubular member, a spring member arranged in said slot, one end of said spring member being anchored by and between said shell and tubular member and the other end of said spring member being formed as a latch, said shell having an opening at one end thereof through which said latch projects outwardly of the surface of said shell, said outwardly projecting end of said spring member forming a latch for engagement with a shoulder provided by a socket with which said coupling is adapted to be associated, said shell having an external shoulder rearwardly of said latch for limiting the penetration of said male coupling member into its socket, and means accessible from the exterior of said shell for depressing said latch.

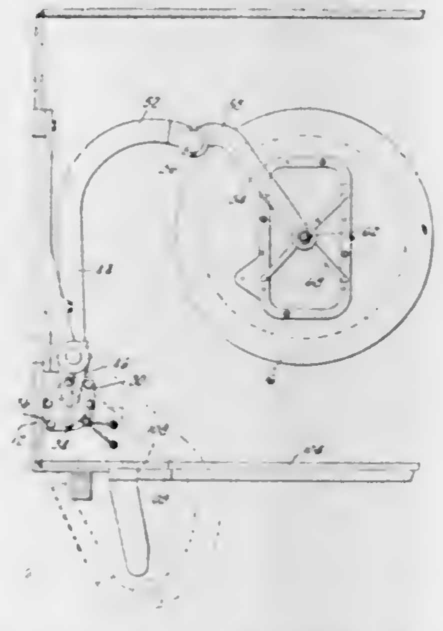
2,420,867

TRANSFER APPARATUS

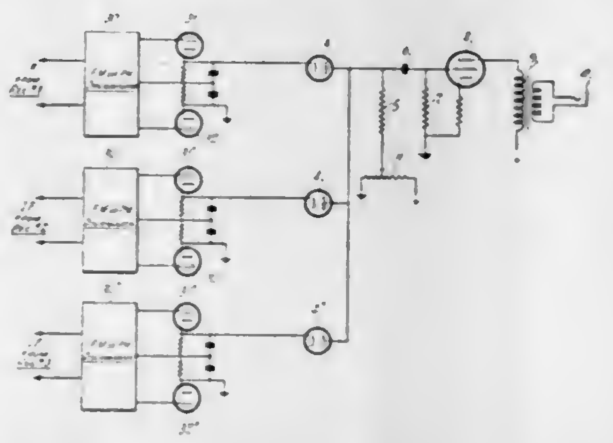
Lawrence E. Crosby, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 21, 1945, Serial No. 579,012
3 Claims. (Cl. 214—17)

1. In transfer apparatus for the purpose specified: an air box having a large opening therein;

a vertical guide positioned adjacent one side of the opening; an arm pivoted on the guide and adapted to move longitudinally thereon, said arm having its free end adapted to be swung through the opening in the box, said free end being curved outwardly relative to the box; a second arm having one end pivoted to the first arm adjacent the free end thereof, the second arm being curved adjacent its pivoted end similarly to the curvature of the first arm; a spider attached to the free end of the second arm and adapted to be attached to a device to be tested; a pneumatic cylinder adjacent a corner of the box and located adjacent the guide; a piston within the cylinder; means connecting the piston and the first mentioned arm whereby the arm may be moved from a position adjacent one end of the guide to a position adjacent the other end of the guide; means connecting each end of the cylinder with a source of compressed air; and control means adapted to so control the compressed air as to provide said air for one end of the cylinder or the other.

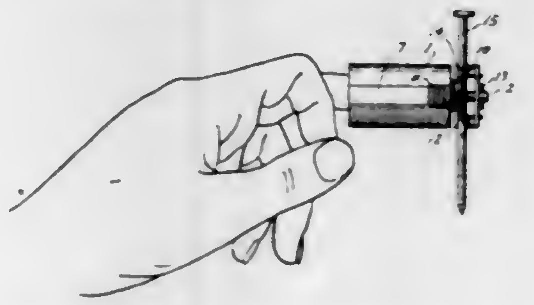


2,420,868
DIVERSITY COMBINING CIRCUIT
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 22, 1943, Serial No. 483,989
17 Claims. (Cl. 250—20)



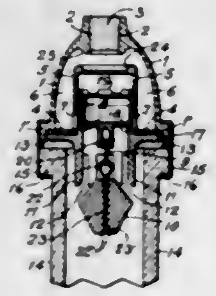
1. A diversity receiving system comprising a plurality of spaced antennas, a receiver coupled to each antenna and including an amplifier, a rectifier coupled to the output of said amplifier, a low pass filter in the space current path of the rectifier, a resistor in shunt to said filter, a diode tube having its cathode connected to a point on said resistor for deriving a negative voltage therefrom during the passage of current through the rectifier, direct connections between the anodes of the diode tubes in circuit with the different receivers, a resistor having one terminal directly connected in common to the anodes of said diode tubes and its other terminal connected to a source of positive potential, and an audio frequency amplifier having its input circuit coupled to said resistor.

2,420,869
NAIL AND TACK HOLDER AND FINGER GUARD
Ira Dell Davis, Fort Worth, Tex.
Application April 15, 1944, Serial No. 531,263
5 Claims. (Cl. 1—47)



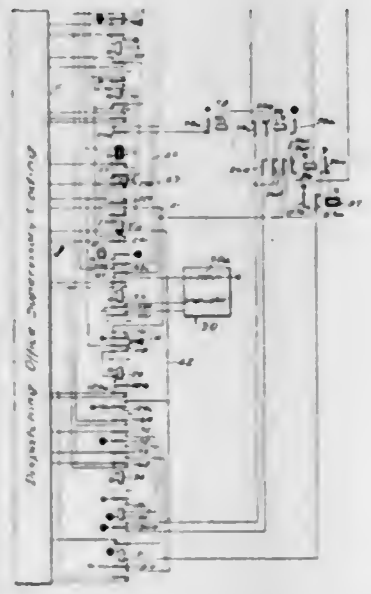
1. A combination finger protector and nail holder, comprising a thimble with an outwardly extending pin, means for receiving and holding a fastener holder on said pin, said pin providing a bearing for the said holder to permit orientation of the holder preparatory to driving a nail held by said holder.

2,420,870
CLOSURE FOR NONREFILLABLE CONTAINERS
Jose Soto del Llano, Habana, Cuba, assignor of one-fourth to Ricardo More Ferrer, Habana, Cuba
Application April 22, 1946, Serial No. 663,941
In Cuba October 26, 1945
2 Claims. (Cl. 215—23)



1. A closure for non-refillable containers, comprising an annular packing placed on the container mouth, a valve carrying member composed of two cylindrical sections, viz., a lower section in the shape of a sleeve provided with a top horizontal annular flange that partly rests on said annular packing and an upper section closed at its upper end and open at its lower end where it is provided with an annular horizontal flange adapted to rest on the top horizontal flange of the lower sleeve, the upper section of the valve carrying member having a plurality of side openings adjacent the horizontal flange thereof, and the lower section of the valve carrying member having a plurality of side openings at the projecting portion of the sleeve, a hollow valve fitting within the upper section of the valve carrying member to run within same and adapted to seat on the upper edge of the sleeve, an outer casing spaced from the upper section of the valve carrying member and adapted to seat on said packing, an outer strap which inviolably secures the casing on the container mouth, and a weight flexibly connected to the valve and adapted to fall interiorly beyond the lower end of the sleeve.

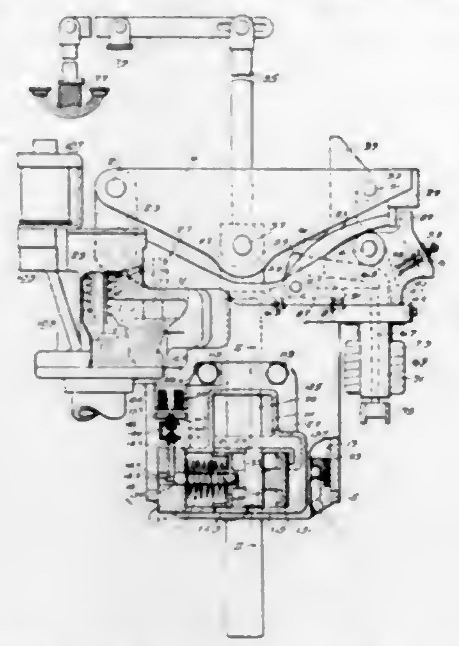
2,420,871
CONTROL SYSTEM AND TELEMETERING CIRCUIT
Willard A. Derr, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 1, 1945, Serial No. 575,631
10 Claims. (Cl. 179—2)



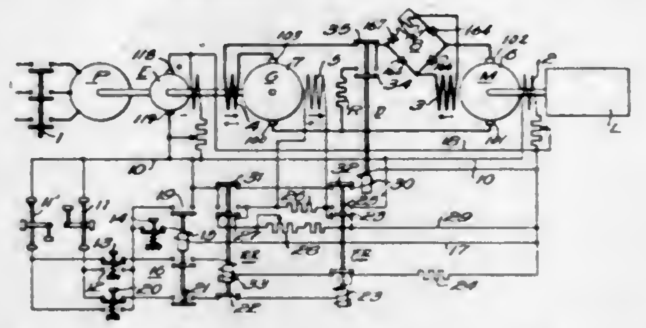
1. In a signal system for a control office and a remote station connected by a single signal channel, a carrier transmitter and a carrier receiver at both the office and the station coupled to the signal channel and operating on the same frequency, supervisory control means at both the office and the station including sending equipment for operating the transmitters and receiving equipment operated by the receivers for selecting any of a number of different control and supervision points, means selectable through a selection point of the supervisory control equipment for operating one of the carrier transmitters independently of the supervisory control equipment for performing a predetermined function, and means for preventing normal operation of the supervisory control receiving equipment in response to operation of the carrier transmitter during the performance of said function.

2,420,872
CIRCUIT BREAKER
Gilbert J. Easley, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 7, 1944, Serial No. 543,912
11 Claims. (Cl. 200—82)

1. In a circuit breaker comprising relatively movable contacts, operating mechanism therefor comprising a fluid operated motor, means for admitting fluid under pressure to said motor to operate said contacts to closed position, trip means operable in response to abnormal circuit conditions to effect opening movement of said contacts, a valve operable to cause quick collapse of the fluid pressure on the working side of said motor, pneumatically operated means for moving said valve to open position, means releasably restraining said valve in closed postion, electroresponsive means operable when energized to operate said restraining means to release said valve, and means for applying fluid pressure to said pneumatic means before said electroresponsive means is energized.



2,420,873
"RECTOX" MOTOR CONTROL SYSTEM
William H. Formhals, Forest Hills, Pa., and Scott H. Hanville, Jr., Huron, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 3, 1943, Serial No. 493,328
3 Claims. (Cl. 172—239)

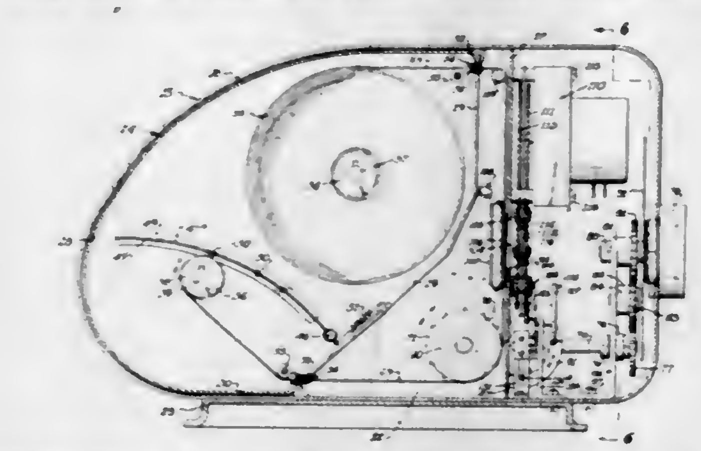


1. In a variable speed drive for a motor, in combination, a generator having an armature winding and a series field winding, a motor similar to the generator, a loop circuit connecting the motor to the generator, said loop circuit including at least the generator and motor armatures, the generator series field, a full-wave rectifier having four legs each having current rectifying units and one leg having an impedance in addition to the current rectifying unit, said rectifier having one of its alternating current terminals connected to one motor armature terminal and the other connected in the loop circuit remote from said one motor armature terminal, and the motor series field winding connected to the direct current terminals of the full-wave rectifier.

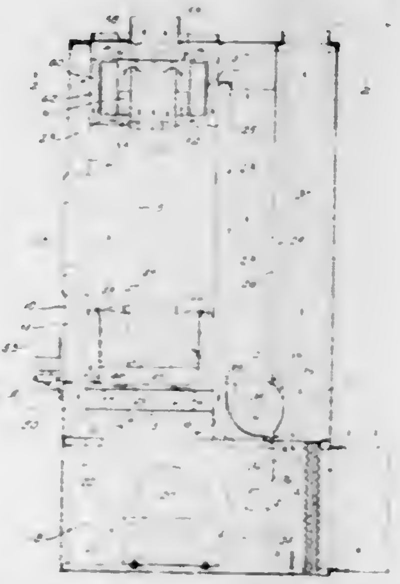
2,420,874
CLOCK-ACTUATED ELECTRIC CONTROL MEANS
Herman J. Fowler, Chicago, Ill.
Application July 10, 1944, Serial No. 544,160
5 Claims. (Cl. 161—1)

1. In clock-actuated electric control means for apparatus adapted for periodically moving a strip

of material, the combination of motor-driven mechanism adapted for periodically moving the strip, and electrical control means for controlling the periodic operation of said motor-driven mechanism including selectively adjustable clock-actuated means for automatically actuating said electrical control means at selectively variable predetermined periods of time.

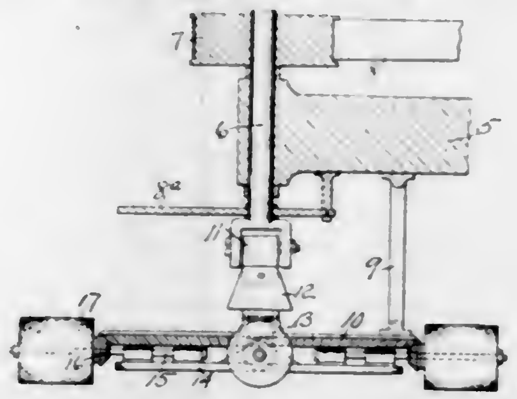


2,420,875
HEATING APPARATUS
Herman C. Frentzel, Jr., and Edward O. Errath, Milwaukee, Wis., assignors to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application October 9, 1942, Serial No. 461,486
9 Claims. (Cl. 126—110)



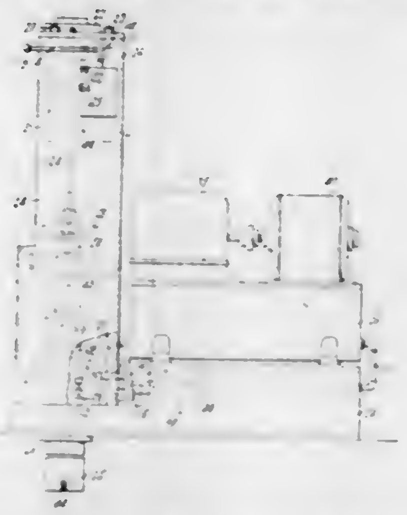
9. In a hot air heating apparatus having a combustion chamber, having an air heating space adjacent said combustion chamber and formed with an inlet and an outlet, a discharge duct for leading hot air from the air heating space outlet to the portion of the building to be heated, a return duct having a portion positioned adjacent said discharge duct and connected to the air heating space inlet, a blower having its outlet connected to the air heating space inlet and having its inlet communicating with the air return duct, there being a by-pass opening between said return duct portion and the discharge duct located in advance of said blower, a valve positioned in said discharge duct adjacent the air heating space outlet and adjacent said by-pass opening and of a size to close either said outlet or by-pass opening and mounted for movement from closing position with respect to the outlet opening to closing position with respect to the by-pass opening, and means maintaining the valve in by-pass opening position only when the blower is not in operation.

2,420,876
MACHINE FOR SURFACE FINISHING ACTION ON MATERIALS
Ernest Freud, Hartford, Conn.
Application February 7, 1945, Serial No. 576,637
3 Claims. (Cl. 51—90)



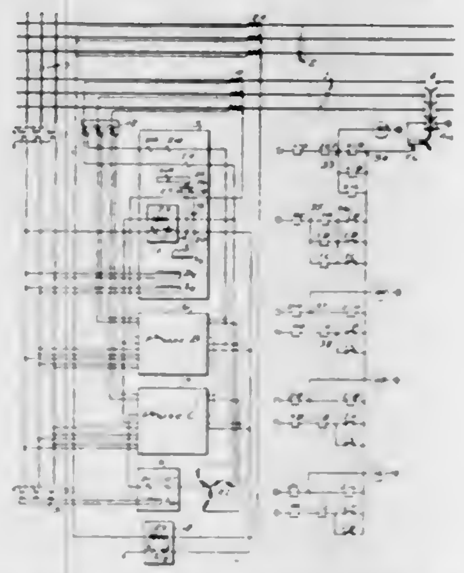
1. A surface finishing machine of the character described comprising a supporting arm, a driving shaft rotatable in said arm on a vertical axis, a supporting plate depending from and connected to said shaft by a universal joint, a plurality of horizontal shafts carried by said supporting plate for rotation on a horizontal axis, a pinion on each of said horizontal shafts for driving the same, an abrasive wheel on each of said horizontal shafts, a stationary gear co-axial with said supporting plate, and means connecting said gear with said supporting arm to prevent rotation thereof; the said stationary gear being substantially greater in diameter than the pinions on said horizontal shafts for causing rotation of said pinions at a ratio of approximately ten revolutions of said pinions for each revolution of said supporting plate.

2,420,877
BROACHING MACHINE
Philip Geren, Grand Rapids, Mich., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application August 18, 1944, Serial No. 550,017
3 Claims. (Cl. 90—33)



1. A vertical broaching machine comprising, in combination, a frame; vertical guideways mounted on said frame; a work support mounted on said guideways; a cross head slidably mounted on said guideways; means for attaching a broach to said cross head for operative movement relative to a work piece mounted on said work support; a cylinder; a piston slidably mounted in said cylinder for vertical movement with respect to said frame; a piston rod connecting said piston and said cross head; means for supplying a fluid under pressure to said cylinder above said piston; means for maintaining air under pressure in said cylinder beneath said piston; means for regulating cylinder air pressure; manually operable means for initiating the supply of said fluid to said cylinder; means operable by said cross head at a predetermined point in its downward movement for terminating the supply of said fluid to said cylinder to arrest downward movement of said cross head; manually operable means for effecting discharge of said fluid from said cylinder to effect rapid upward movement of said piston and said cross head and said chuck under the influence of said air under pressure; and means operable by said cross head at a predetermined point in its upward movement for terminating the discharge of said fluid from said cylinder to arrest upward movement of said cross head.

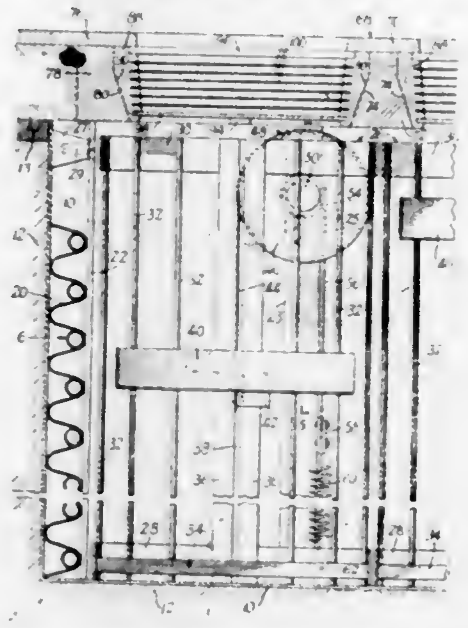
2,420,878
LOSS-OF-LOAD RELAYING
Shirley L. Goldsborough, Basking Ridge, and Harvey P. Sleeper, Short Hills, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 20, 1944, Serial No. 531,852
23 Claims. (Cl. 175—294)



1. Terminal protective equipment for protecting a terminal of a protected section of a polyphase line against faults involving less than all of the line-conductors, comprising reliably operative line-fault-responsive relaying-means for at times determining the existence of a fault within the protected line-section, uncertainly operative line-fault-responsive relaying-means for indicating the possibility of the existence of a fault on the system, with uncertainty whether the fault is within the protected line-section or beyond the far-end terminal thereof, loss-of-load relaying-means for determining the non-existence of predetermined load-conditions on at least one of the line-conductors of the protected line-section at the relaying terminal, control-circuit means for effecting a polyphase circuit-interrupting operation of the circuit-interrupting means at the relaying terminal in response to said reliable line-fault-responsive relaying-means, and control-circuit means for effecting a polyphase circuit-interrupting operation of the same circuit-interrupting means in response to a joint response of said uncertain line-fault-responsive relaying-means and said loss-of-load relaying-means.

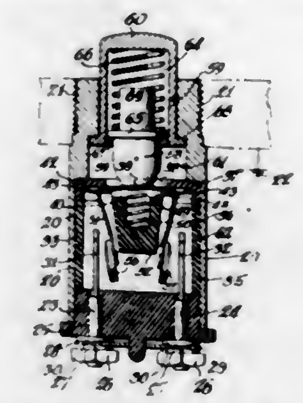
4. A protective relay system for a terminal of a polyphase line-section, comprising a first relaying means for performing a relaying function affecting all of the conductors of the polyphase line-section with a response to predetermined line-fault conditions at said terminal involving less than all of the line-conductors within the protected line-section, and a second relaying means for performing a relaying function with a less discriminating response to line-fault conditions at said terminal involving less than all of the line-conductors, and with a directional response when the fault-current flows into the line-section at the relaying terminal, and also with a response to predetermined loss-of-load conditions on a sound line-conductor at said terminal.

2,420,879
TRANSPARENT THERMAL INSULATION
Charles H. Herter, New York, N. Y.
Application December 1, 1942, Serial No. 467,484
4 Claims. (Cl. 20—56.5)



1. In refrigeration apparatus of the character described, the combination of: a cabinet having a horizontal top opening; and a horizontally slidable door means providing a removable closure for said opening comprising, a frame of insulating material extending around the edge of said opening, and a plurality of sheets of transparent material within said frame including a pane of glass forming the surface which is the outer surface of the door means when the door means is in position to close said opening and a pane of synthetic resin having a lower thermal capacity than glass which is the inner surface of said door means when said door means is in position to close said opening.

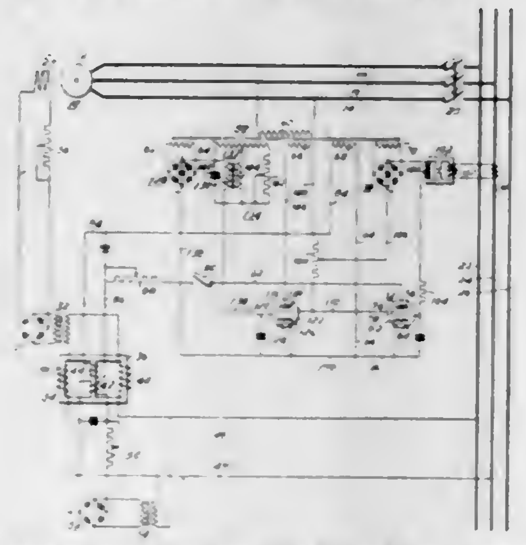
2,420,880
SNAP SWITCH
Robert Hetherington, Sharon Hill, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del., a corporation of Delaware
Application April 12, 1944, Serial No. 530,625
14 Claims. (Cl. 200—159)



1. In a snap switch, a grounded casing, an insulation block in said casing, fixed terminals and

fixed contacts connected therewith supported in said block, a transverse bridge across the block presenting spaces at the sides of the bridge, the bridge having forwardly facing surfaces, a snap disc grounded on the casing resting upon the surfaces, movable contact arms mounted upon the side edges of the disc and adapted to be rocked away from or toward each other by snapping the disc, the arms passing through the spaces to engage the fixed contacts or disengage from them, insulation means carrying rearwardly facing surfaces adapted to retain the disc against the bridge surfaces, means for causing pressure between the respective surfaces to hold the disc, and a plunger carried by the front of the casing and adapted to engage the disc.

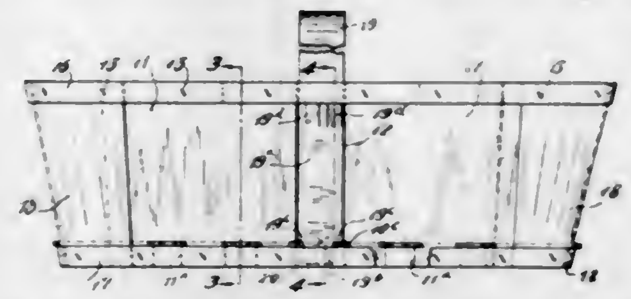
2,420,881
REGULATING SYSTEM
Harold C. Jenks, Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1944, Serial No. 554,910
8 Claims. (Cl. 172—246)



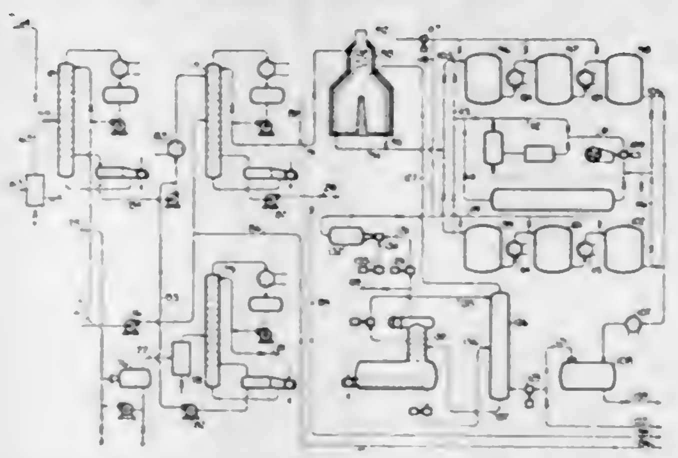
1. In a system for regulating the power factor of a synchronous motor connected to a load system, in combination, a saturable reactor connected to control the excitation of the synchronous motor, the saturable reactor having opposed direct-current control windings, one of the windings being disposed to be energized to effect saturation of the reactor to increase the excitation of the motor, the other of the windings functioning when energized to effect a decrease in the saturation of the reactor, means responsive to the power factor of the load system disposed to control the energization of the other winding, and means responsive to a fixed phase angle disposed to prevent the operation of the power factor responsive means to prevent the energization of the other winding under predetermined power factor conditions whereby the excitation of the synchronous motor is maintained within predetermined limits to regulate the power factor thereof.

2,420,882
BASKET
Henry S. Johns, Cleveland Heights, Ohio
Application July 5, 1943, Serial No. 493,525
3 Claims. (Cl. 217—125)

1. A basket comprising a bottom and side and end panels made of relatively thin material, upper inner and outer reinforcing bands to and between which the side and end panels are secured, an outer lower reinforcing band to and within which the lower portions of the side and end panels are secured, means for securing the bottom in place within the side and end panels and above the lower reinforcing band, an inverted U-shaped handle, the lower portions of the sides whereof are insertable between the inner and outer upper reinforcing bands and within the lower reinforcing band, the central portions of the sides of the bottom being provided with means for receiving the lower ends of the sides of the handle and for positioning such lower ends in a predetermined relation thereto, and one or more projections carried by each of the sides of the handle and being adapted to engage the lower edge or edges of one or both of the upper reinforcing bands when the lower ends are so positioned with reference to the bottom.

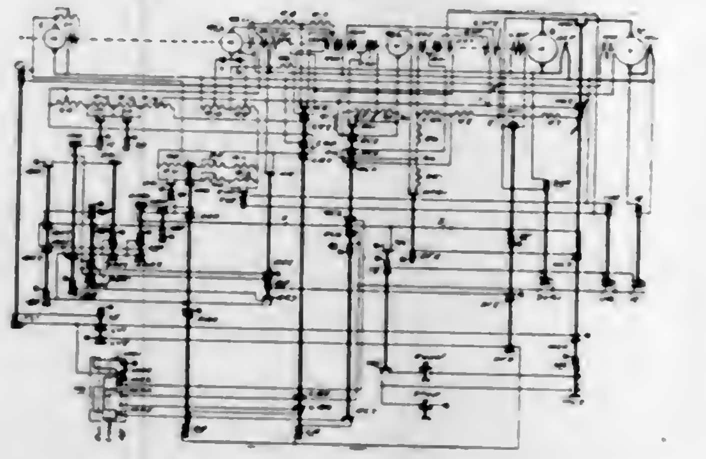


2,420,883
PROCESS FOR THE PRODUCTION OF TOLUENE
Ava J. Johnson, Oakland, Mott Souders, Jr., Piedmont, and John E. Marsland, Sausalito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application November 3, 1942, Serial No. 464,402
9 Claims. (Cl. 260—668)



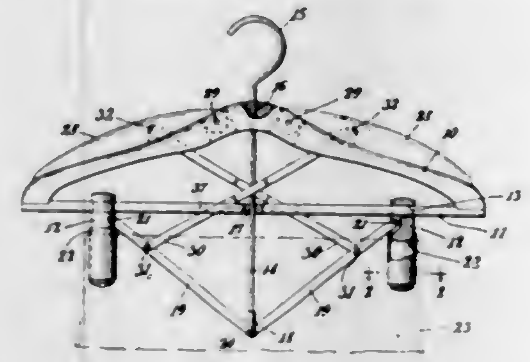
7. In a process for the production of commercial grades of toluene suitable for nitration from naphthenic petroleum distillates which comprises separating from a naphthenic petroleum distillate a fraction comprising alkyl pentamethylene hydrocarbons, isomerizing said alkyl pentamethylene hydrocarbons to methyl cyclohexane, dehydrogenating the methyl cyclohexane so produced to toluene and recovering substantially pure toluene from the dehydrogenated product, the improvement which comprises the combination of steps of fractionating the isomerized feed prior to the dehydrogenation treatment into a lower boiling fraction IX boiling below about 218° F.–235° F. and a higher boiling fraction X boiling above about 218° F.–235° F., subjecting said lower boiling fraction IX to a catalytic dehydrogenation treatment to produce an aromatic fraction XI, separating from the aromatic fraction XI fixed gases including hydrogen, scrubbing at least a portion of said fixed gases including hydrogen with a portion of said higher boiling fraction X, and subjecting the higher boiling fraction X used in said scrubbing to the above-said fractionation to produce said fractions IX and X.

2,420,884
VARIABLE VOLTAGE MOTOR CONTROL SYSTEM
George E. King, Swissvale, and William H. Formhals, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 17, 1944, Serial No. 559,068
8 Claims. (Cl. 172—179)



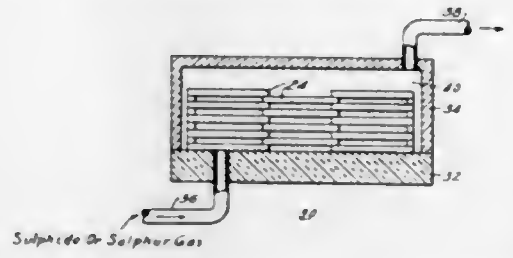
1. In a variable voltage drive, the combination of, a motor, a main generator for energizing the motor, field windings for the main generator, an electrical bridge circuit, means for supplying electrical energy to the electrical bridge circuit, certain of the field windings of the main generator being connected in opposite legs of the electrical bridge circuit such that the winding ampere turns in the opposite bridge legs are equal, a first regulating generator responsive to electrical quantities of the motor for controlling the excitation of said certain of the field windings, a second regulating generator responsive to motor armature currents for controlling the first regulating generator, and means for producing a voltage opposing the voltage generated by the second regulating generator to prevent the voltage generated by the second regulating generator from effecting the first regulating generator until the generated voltage exceeds the opposed voltage.

2,420,885
COMBINATION CLOTHES HANGER
Axel R. Kjeldsen, Kearney, N. J., assignor of one-half to Knud G. Keldsen, New York, N. Y.
Substitute for abandoned application Serial No. 261,926, March 15, 1939. This application May 2, 1946, Serial No. 666,619
4 Claims. (Cl. 223—88)



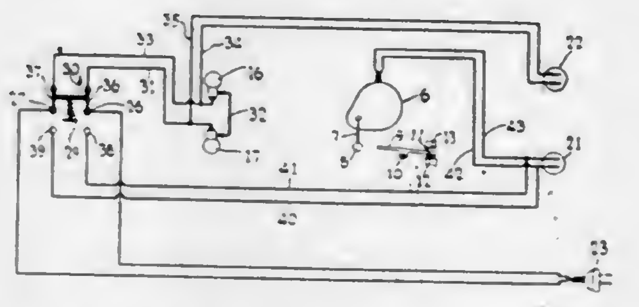
1. In a device of the class described, a coat hanger, a cross bar fixedly secured to the latter, block members slidably mounted upon said cross bar, a vertical rod movably extending through the coat hanger and the cross bar, an enlargement formed at the bottom of said vertical rod, crosswise arranged members pivotally mounted in said enlargement, said crosswise arranged members having their other ends pivotally attached to the block members, the latter terminating at their lower ends in bifurcated sections, said bifurcated sections having their outer end portions tapered to a substantially sharp edge, whereby to engage the crease in a pair of trousers, and a handle upon the end of the vertical rod, whereby to manipulate the device and cause the block members to move towards or away from each other.

2,420,886
APPLICATION OF SOLID LUBRICANT COATINGS TO SURFACES
Carthrae M. Laffoon, Jr., Irwin, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 3, 1942, Serial No. 467,724
2 Claims. (Cl. 204—37)



1. The method of applying to a surface of a member composed of a metal other than tungsten or molybdenum a tenaciously adherent coating of a solid lubricant of a metallic compound selected from the class consisting of sulfides, selenides and tellurides of tungsten and molybdenum, comprising electroplating the surface of the member to deposit thereon an adherent electroplate of the metal component of the compound and heat treating the electroplated surface at a temperature of from about 600° C. to 1400° C. in an atmosphere consisting of at least one of the group consisting of sulfur, sulfide, selenide and telluride gases to convert the electroplated metal to produce only the corresponding disulfide, selenide, and telluride to provide for the solid lubricating metallic compound being formed on the surface of the member.

2,420,887
AUDIBLE TIMER
Kingdon Lane, New York, N. Y.
Application January 5, 1944, Serial No. 517,011
8 Claims. (Cl. 161—26)

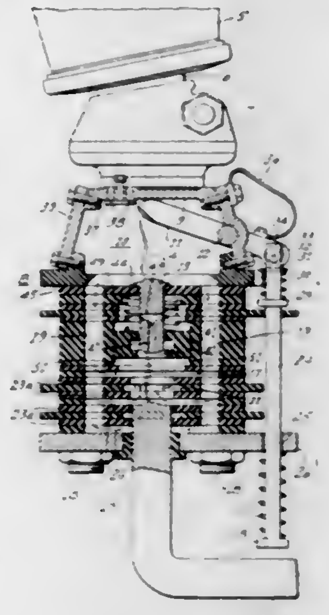


3. An audible timer, in combination; a normally unenergized electric synchronous motor; a source of alternating potential; a safe-lamp, said safe lamp normally connected to the source of potential; a printing lamp normally unenergized; means operated by the motor producing an audible sound always at the same definite intervals

after starting and thereafter at predetermined intervals and means for simultaneously connecting the motor and the printing lamp with the source of potential and disconnecting the safe-lamp therefrom, said means for connecting including manually operable means.

2,420,888
OIL CIRCUIT INTERRUPTER

Winthrop M. Leeds, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 2, 1943, Serial No. 481,529
6 Claims. (Cl. 200—150)

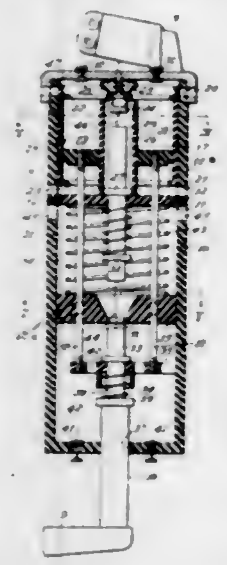


1. In a circuit interrupter, a pressure-generating contact cooperable with a relatively stationary contact to establish a pressure-generating arc, a movable contact arranged to make abutting engagement with the stationary contact in the closed circuit position and separable therefrom during circuit opening to establish an interrupting arc, a piston member substantially surrounding the relatively stationary contact and movable relative to said stationary contact, spring means biasing the piston member in a direction to move fluid under pressure toward said interrupting arc to facilitate arc extinction, said movable contact having a shoulder portion which engages the piston member during the closing stroke to charge the same against the biasing action exerted by the spring means before the movable contact strikes the stationary contact in abutting engagement, and passage means provided in the relatively stationary contact for causing a flow of fluid from the forward to the back side of said piston to facilitate piston movement during the opening operation and extinction of the interrupting arc, said passage means also providing a vent for the circulation therethrough of fluid when said interrupter is in the closed position for cooling said stationary contact.

2,420,889
CIRCUIT INTERRUPTER

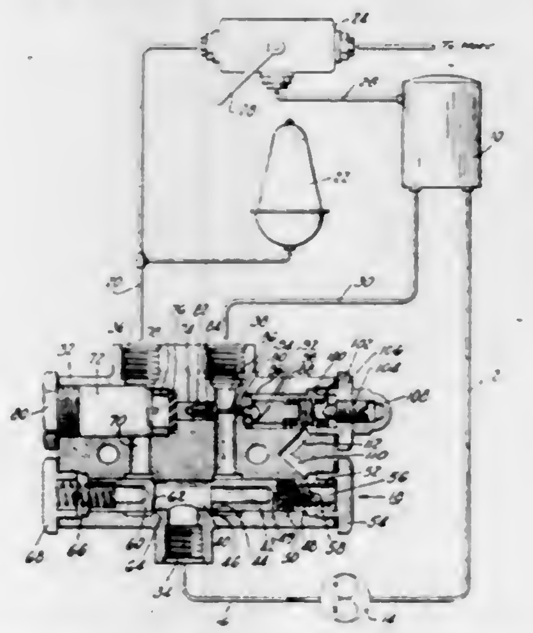
Winthrop M. Leeds, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 6, 1945, Serial No. 586,909
10 Claims. (Cl. 200—150)

1. In a circuit interrupter, means for establishing an interrupting arc, a first piston means for facilitating the extinction of the interrupting arc, means for establishing a pressure-generating arc, a second piston means operated by pressure from the pressure-generating arc to assist the motion of the first piston means, and means rigidly interconnecting the first and second piston means.



2,420,890
FLUID PRESSURE CONTROL SYSTEM

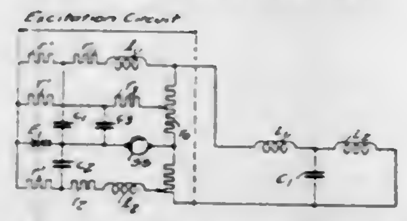
Stanley I. MacDuff, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 20, 1942, Serial No. 451,593
6 Claims. (Cl. 137—153)



1. A regulator valve for a fluid pressure system comprising a body having inlet, working, and relief ports, a bore intersecting said inlet port, a pair of spaced bores in communication respectively with the working port and the relief port and intersecting the said first bore, a check valve in said body for preventing the passage of fluid from the working port to said inlet port and to permit passage of fluid from the inlet port to the working port, means at times preventing passage of fluid from the inlet port to the relief port, said means comprising a spring-biased plunger having a passage for fluid therethrough; a bore intersecting the spaced bores and parallel to the bore intersecting the inlet port, control means within said parallel bore for said first means comprising a resilient disk and an abutting piston and tappet movable in response to pressure at the working port, a spring-biased poppet movable with said disk and piston, the movement of said disk and tappet and spring-biased poppet creating a differential pressure across said first means to move said first means to a position whereby fluid is passed from the inlet port to the relief port.

2,420,891
ANALYZER

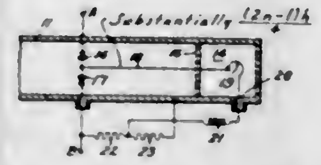
Gilbert D. McCann, Jr., Pittsburgh, and Harry E. Criner, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 23, 1944, Serial No. 564,881
5 Claims. (Cl. 235—61)



1. In a system of electrical analysis for determining the response of a physical system to a transient condition and which transient condition is comprised of components including a damped unidirectional component and a damped component of known frequency, the combination of, an electrical analogy circuit constructed of circuit elements having electrical properties analogous to the properties of the physical system, an excitation network having a first circuit including a resistor for producing an electrical quantity representative of said damped unidirectional component and a second circuit including a resistor and an inductor for producing an electrical quantity representative of said damped component of known frequency, a capacitor connected in each of said first and second circuits for discharge therein, means for supplying an electrical charge to each of said capacitors, a coupling circuit connecting the analogy circuit and the excitation network for algebraically combining the electrical quantities of said first and second circuits and applying the resulting electrical quantity to said analogy circuit, means forming a part of said first and second circuits for effecting the repeated production of both said electrical quantities whereby said resulting electrical quantity is repeatedly applied to said analogy circuit, and oscilloscope means electrically connected to said analogy circuit to be energized thereby for indicating the response of said analogy circuit to said repeatedly applied electrical quantity.

2,420,892
FREQUENCY MODULATION DETECTOR

Cyril E. McClellan, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 7, 1944, Serial No. 543,921
4 Claims. (Cl. 250—27)



1. In combination, a wave guide having a chamber adapted to resonate at a frequency which said wave guide is dimensioned to transmit located in a portion of said wave guide, a pair of rectifiers positioned to be impressed with voltages of opposite polarities by the electric gradient of waves traversing said wave guide and having a common junction, means for impressing a voltage generated in said chamber on the common junction of said rectifiers, a pair of resistors connected across the remote terminals of said rectifiers and a conductive channel interconnecting the common junction of said resistors with the common junction of said rectifiers.

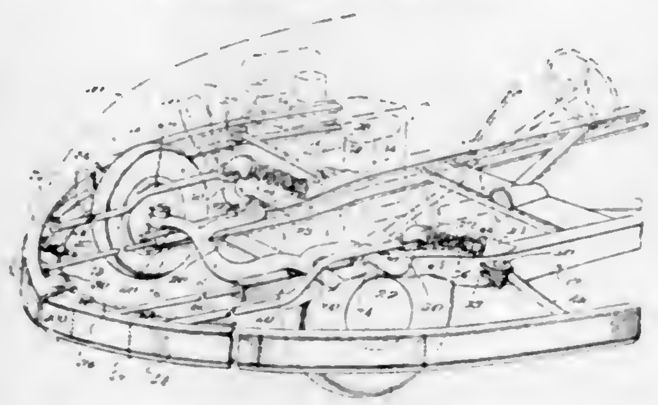
2,420,893
COMPOUNDED LUBRICATING OIL

John G. McNab, Cranford, and Charles L. Fleming, Jr., Roselle Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 4, 1944, Serial No. 516,978
6 Claims. (Cl. 252—32.7)

1. A mineral lubricating oil containing a stabilizing quantity of a metal salt of a thiophosphoric acid ester of an octyl phenol sulfide.

2,420,894
COLLISION GUARD

William A. Mee, Springfield, Ohio
Application September 16, 1944, Serial No. 554,363
10 Claims. (Cl. 293—55)



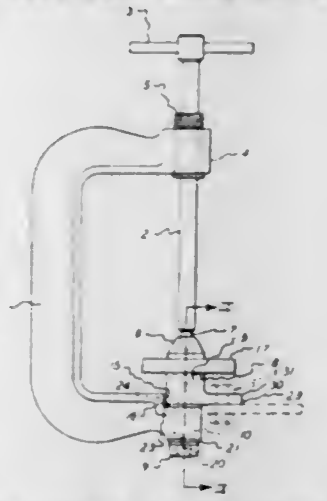
7. In a vehicle having a vehicle frame, traction supplying wheels and a motive power supplying engine, the combination of a front axle, means connected to said axle forming a pair of bearing surfaces having their common axis parallel to and positioned to the rear of the axis of said axle, bearing means pivotally mounting said bearing surfaces to the vehicle frame, an arcuately-shaped vehicle bumper mounted to move relative to the vehicle frame, means operatively connecting said bumper to said axle, lubricant dispensing means including an actuating member, a multiplicity of orifices in the surface of said bumper, conduit means connecting the outlet of said lubricant dispensing means to said multiplicity of orifices, and means operatively connecting the actuating member of said lubricant dispensing means to said bumper, whereby when the bumper is forced toward the vehicle frame under the impact of a collision said axle will be rotated on said bearing surfaces removing the front wheels from the ground and lubricant will be forced through said conduit means and out said orifices so that the bumper will readily slide across the surface of the object collided with and the vehicle deflected from its former path.

2,420,895
GROUND CLAMP

Henry H. Merriman, Jackson, Mich., assignor to Harry D. Boardman, Jackson, Mich., as trustee
Application November 7, 1942, Serial No. 464,903
3 Claims. (Cl. 173—273)

3. A welding clamp comprising a substantially C-shaped clamp body having a contact lug re-

ceiving portion at one end and provided with an upstanding shoulder adjacent to the contact lug receiving portion, clamping means at the other end of the body movable toward and away from the lug receiving portion, a contact lug of substantially polygonal form with a plurality of side faces and with an end face serving as a contact surface, a wire attaching tab projecting laterally from one of the side faces of said contact lug, said tab being in a plane spaced away from the plane of the contact surface of said lug, and means for mounting the contact lug on the lug receiving portion of the clamp body with the connecting tab extending in a desired direction and with a side on the contact lug in juxtaposition to the shoulder, whereby the contact lug is held against twisting movement and a wire joined to said connecting tab will be held out of the plane of the contact face of the connecting lug.



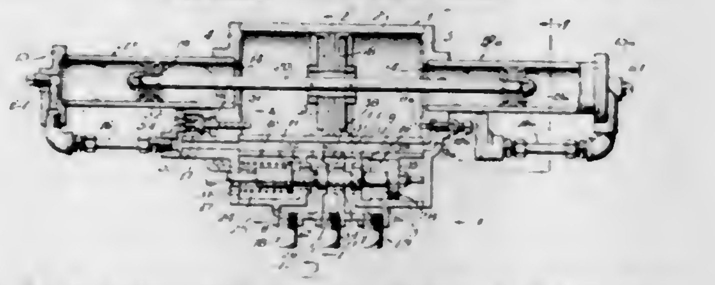
2,420,896

RECIPROCATING EXPANSIBLE CHAMBER MOTOR WITH PILOT CONTROLLED DISTRIBUTING VALVE

Sidney E. Meyers, New York, N. Y., assignor to Vulcan Soot Blower Corporation, a corporation of Pennsylvania

Application October 4, 1945, Serial No. 620,207

7 Claims. (Cl. 121—157)



3. In a pneumatic timing device, a main cylinder, auxiliary cylinders of smaller diameter at opposite ends of and in axial alignment with the same, pistons in said cylinders rigidly connected together, the outer end of each auxiliary cylinder being connected to the remote end of the main cylinder by a separate passage and means to admit air under pressure alternately into said passages and, simultaneously with the admission of air into one passage, connecting the other passage to the atmosphere.

2,420,897

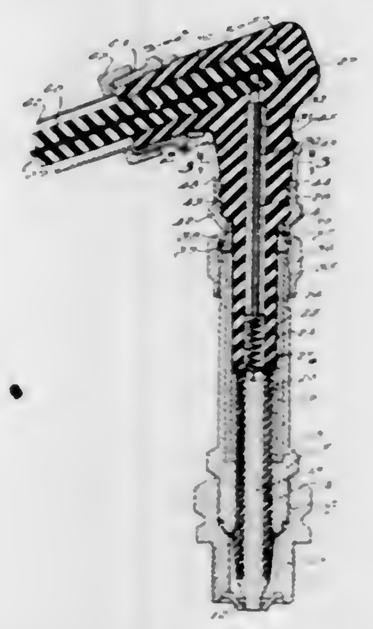
SHIELDED SPARK PLUG CONNECTOR

Thomas W. Milton, Detroit, Mich., assignor to Flex-O-Tube Company, Detroit, Mich., a corporation of Illinois

Application February 21, 1944, Serial No. 523,239

2 Claims. (Cl. 174—35)

1. A connector for spark plugs comprising a conductor adapted to be connected to an ignition system, a second conductor extending crosswise of the first and connected thereto, an elbow of insulating material encasing the conductors adjacent their connection, a thin coating of shielding material covering the outer surface of the insulating material, a tubular coupling having an end portion threaded onto an end portion of the elbow, and means for preventing relative turning of the coupling and elbow while allowing for adjustable application of the coupling and comprising a depression in the surface of said end portion of the elbow, and a series of circumferentially separated fingers on said end portion of the coupling and extending axially over said end of the elbow with one of the fingers bent into the depression.



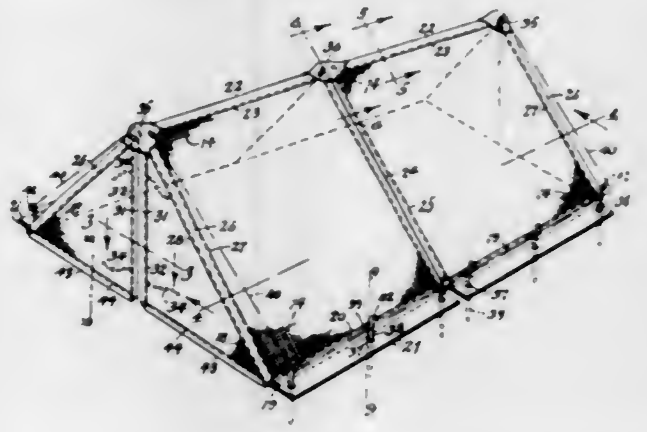
2,420,898

FOLDABLE SHELTER TENT

Amos T. Miner, Chicago, Ill., assignor to Amos B. Miner, Williamsville, N. Y.

Application June 8, 1945, Serial No. 598,297

8 Claims. (Cl. 135—1)



2. A foldable shelter tent comprising two pairs of side wall sections which upon being unfolded into an operative position produce a structure of A-shape in cross section, the lower edges of these sections being adapted to rest on the ground, the upper edges of the members of each pair of sections being pivotally interconnected, thereby permitting folding of the same longitudinally relative to the length of the tent, and the opposing inner transverse edges of the sections of each side wall being pivotally interconnected, thereby permitting folding of the same transversely relative to the length of the tent.

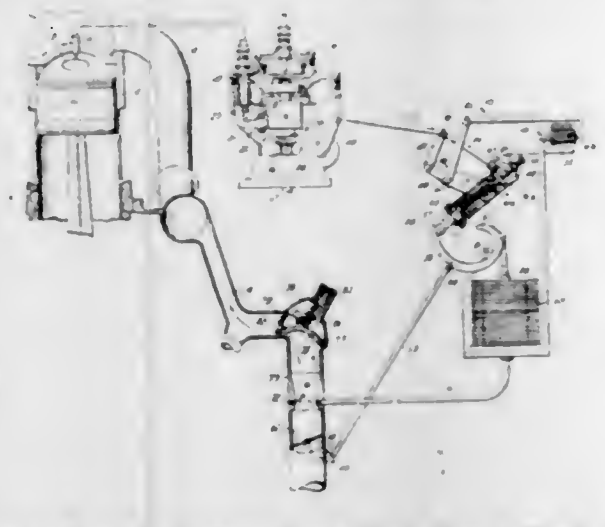
2,420,899

ENGINE FUEL CONTROL

Frank C. Mock, Montclair, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application June 20, 1932, Serial No. 618,380

25 Claims. (Cl. 123—139)



1. In a fuel mixture control for a fuel injection engine, a fuel pump adapted to be driven in timed relation to the engine, means for controlling the fuel capacity of the pump, an air manifold, a balanced valve therein, means responsive to manifold suction for actuating the valve, and resilient means opposing the valve opening, said means being movable with the pump control and cooperative with the suction responsive means to vary the effect of the same upon the valve.

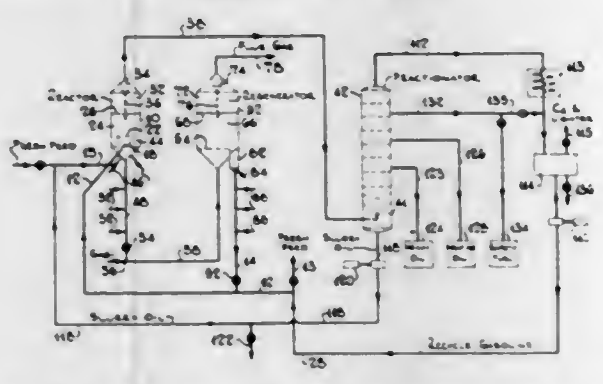
2,420,900

TREATING HYDROCARBON FLUIDS

James E. Moise, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 19, 1944, Serial No. 554,812

4 Claims. (Cl. 196—52)



1. In a process for producing gasoline by cracking higher boiling hydrocarbons wherein a stream of fresh oil to be cracked is passed through an initial cracking zone containing an active cracking catalyst maintained at active cracking temperature at a rate which will substantially crack said oil into gasoline constituents, said catalyst being continuously circulated first through said cracking zone and thereafter through a regenerating zone in which the catalyst is heated and regenerated by burning combustible deposits therefrom before being returned to the cracking zone and wherein the cracked vapor products are fractionated to separate an olefinic gasoline fraction; the method of reducing the amount of olefins contained in said gasoline which comprises intermixing a portion of said olefinic gasoline with hot regenerated catalyst while said catalyst is substantially at regeneration temperature, thereafter combining said stream of fresh oil with said mixture and passing the resulting effluent through said cracking zone.

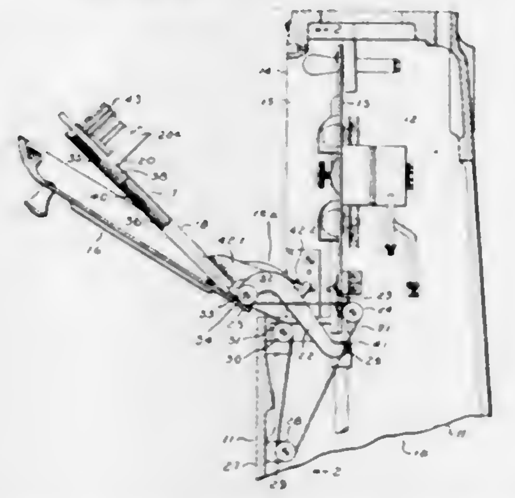
2,420,901

INSTRUMENT HOLDER CONSTRUCTION FOR DENTAL UNITS AND THE LIKE

Edward L. Monnot, Canton, Ohio, assignor to The Weber Dental Manufacturing Company, Canton, Ohio, a corporation of Ohio

Application November 4, 1943, Serial No. 508,933

12 Claims. (Cl. 312—22)



4. In dental instrument holder construction and the like, a mounting member and a movable member, means operatively mounting the movable member for movement towards and away from the mounting member, a slide, means operatively mounting the slide for sliding on the movable member, and closed loop belt and plural pulley means operatively associated with the slide and movable member and mounting member for automatically moving the slide relatively to the movable member during movement of the movable member.

2,420,902

LUBRICATING COMPOSITION

Arnold J. Morway, Clark Township, Union County, and John C. Zimmer, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 8, 1943, Serial No. 513,475

7 Claims. (Cl. 252—36)

2. A lubricant comprising 5–30% of water-insoluble metal soap wherein the metal of said soap is selected from the group consisting of lithium, calcium, barium, and strontium, 70–95% of an isomeric mixture of chlorinated diphenyl of 48% average chlorine content on a weight basis, from 0.1 to 1% of aluminum stearate and from 0.1 to 1% of zinc naphthenate, said lubricant having a density greater than that of sea water.

2,420,903

SCAFFOLD

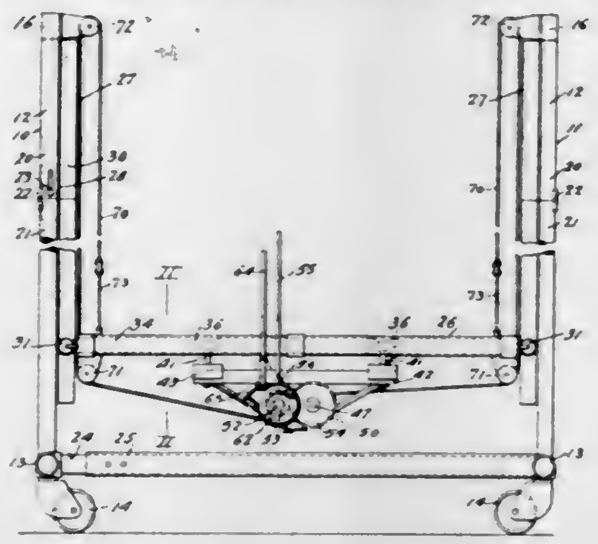
Roy A. Noble, Buffalo, N. Y.

Application October 9, 1945, Serial No. 621,209

5 Claims. (Cl. 304—29)

1. A scaffold comprising a body frame having telescopically connected vertical members, each of said members being formed in two sections hinged together for collapsing, means for clamping said sections in erected position, an extensible platform supported for vertical movement be-

tween said members, hoisting means carried by said platform, and slidable means carried by said



platform for connecting said hoisting means and said platform.

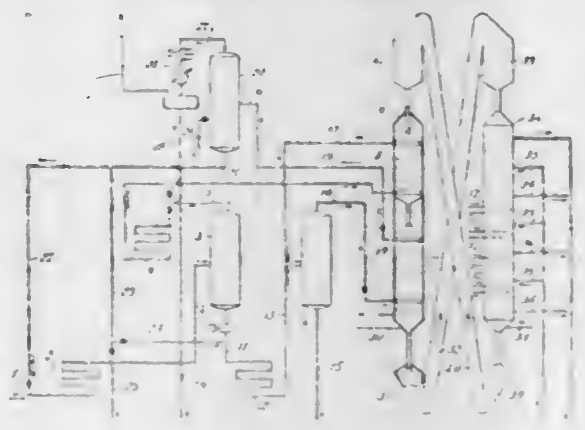
2,420,904

CONVERSION OF HYDROCARBONS

Henry D. Noll, Denville, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application March 17, 1945, Serial No. 583,267

5 Claims. (Cl. 196—52)



1. In a process for the catalytic conversion of high boiling petroleum fractions into hydrocarbons of gasoline boiling range the steps which comprise: heating a high boiling feed stock and separating it into a vapor fraction having a temperature of about 840° F. and a liquid fraction, cracking the vapors so formed in the presence of a solid particle-form contact mass, heating the liquid fraction from the first separation, admixing with such liquid fraction the entire effluent vapors of the primary cracking without intervening fractionation thereof, subjecting this mixture to a second vapor separation step to form a second vapor fraction having a temperature of about 840° F. and a second liquid fraction, discarding this second liquid fraction from the system, and cracking the second formed vapors in the presence of a solid particle-form contact mass.

2,420,905

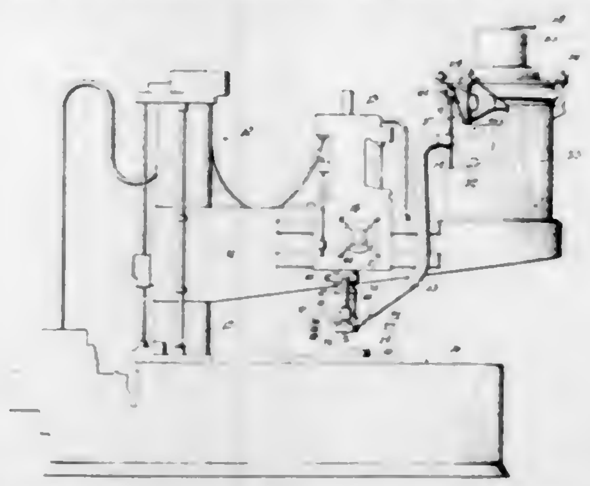
DRILL SAMPLING DEVICE

Thue Christian Olsen, Woodbridge, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey

Application May 18, 1943, Serial No. 487,449

3 Claims. (Cl. 77—55)

1. A sampling device of the character described comprising boring mechanism, means for supporting material to be bored, means comprising a suction cup operatively associated with said boring mechanism, said suction cup means being shaped as an inverted cup and having a yieldable wall portion for engaging the surface of the material to be sample drilled, a tube connected to said suction cup, suction-creating means in communication with said tube for producing a forced draft to enter said cup beneath said yieldable wall to sweep up the drillings formed during the boring operation and transport them through said tube, and receptacle means connected to said tube for collecting the drillings.



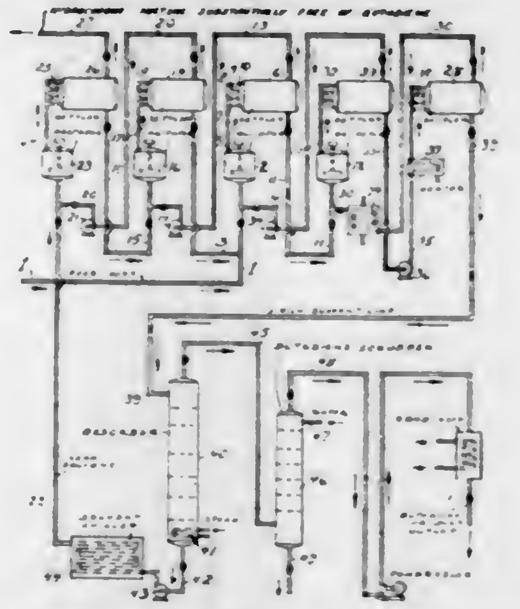
2,420,906

BUTADIENE EXTRACTION

John W. Packie, Green Village, and Richard A. Given, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application August 29, 1942, Serial No. 456,676

6 Claims. (Cl. 260—681.5)



1. In the liquid phase solvent extraction of an olefin from a mixture of olefins and saturated hydrocarbons, the steps in which the hydrocarbon mixture is intimately contacted with a preferential solvent for an olefin in a plurality of stages, each stage consisting of a turbine-type agitator and a settling chamber, the solvent passing through the stages in progressively increasing concentration of the olefin content and the hydrocarbon mixture passing through the stages in progressively decreasing content of the olefin, the solvent for the olefin first being intimately contacted with the said hydrocarbon mixture in the turbine-type agitators and then separated in the settling chambers to form a solvent phase and a hydrocarbon phase, the solvent phase in each case after being separated is passed in contact with the hydrocarbon phase having a higher olefin concentration than the hydrocarbon phase from which it was separated, the hydrocarbon phase in each case after being separated is contacted with a solvent phase having a lower olefin content than the one from which it had been separated, the solvent phase after passing through the turbine-type agitator and settling chamber of the last stage, is heated and passed to a settling chamber to expel in the liquid phase substantially all hydrocarbons except the desired olefin, the expelled hydrocarbons being separated from the solvent phase in the said settling chamber, the separated hydrocarbons being recycled to the solvent phase passing to the turbine-type agitator and settling chamber of the last stage, the olefin is expelled from the said solvent phase, from which substantially all of the hydrocarbons except the desired olefin had been expelled, by heating to a sufficiently high temperature to vaporize the olefin, and the olefin is water washed and liquefied.

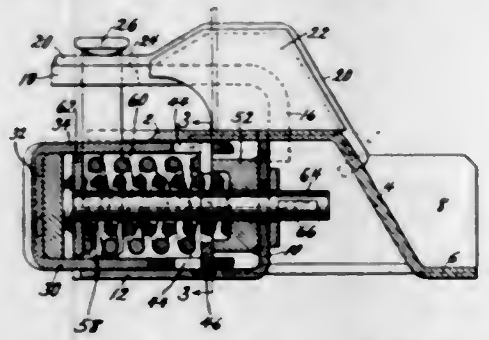
2,420,907

SPRING BUMPER AND DRAFT GEAR

Herman H. Pancake, Huntington, W. Va., assignor to [illegible]erican Car and Foundry Company, New Yor[illegible] Y., a corporation of New Jersey

Application [illegible]ovember 4, 1943, Serial No. 508,909

5 Claims. (Cl. 213—9)



1. In a combined draft and buffing gear for cars, the combination with a car of a bumper head having rearwardly directed upper and lower flanges, said bumper head being movable inwardly and outwardly relative to the car under buff and draft forces from a normal position, openings in the upper and lower flanges of said bumper head, a coupling pin fulcrumed on said car medially of said bumper head and bearing adjacent its lower end on said bumper head, said coupling pin acting as a lever of the third class in transferring draft forces to said bumper head to move the same outwardly, a plurality of independent concentrically arranged coil springs at each side of said coupling pin and opposing the relative motion between the car and bumper, means carried by the car providing an abutment for the outer ends of said springs, said coil springs all acting in unison opposing inward motion of the bumper head under buff forces, and follower plates arranged in said openings and movable therein longitudinally of the car and bearing on the edges thereof and on certain only of said coil springs to oppose outward movement of said bumper head under draft forces.

2,420,908

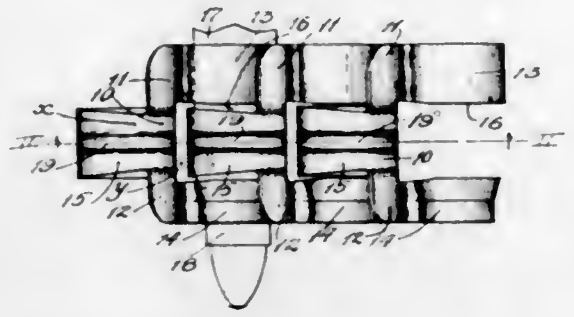
METALLIC CARTRIDGE BELT LINK

Per O. Persson, Chicago, Ill., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War

Application January 14, 1942, Serial No. 426,661

1 Claim. (Cl. 89—35)

A cartridge belt link formed from an integral sheet of metal and comprising a body, a pair of cartridge-receiving substantially closed loops extending in the same direction from an edge of said body substantially at the ends thereof, said loops being in spaced axial alignment relative to each other forming a gap therebetween and a hinge loop portion extending in a direction opposite to said pair of cartridge-receiving loops and from an edge parallel to said first-mentioned edge of said body at the middle portion thereof, said hinge loop portion and said middle portion forming a substantially closed hinge loop in longitudinal alignment with said gap, the axes of all said loops being parallel in a common plane,



said hinge loop portion having a peripheral part thereof deflected outwardly of the same, said body having a part deflected outwardly thereof and forming an extension of said first deflected part, said deflected parts being in the same plane, said latter plane being normal to said common plane, thereby forming a continuous bead reinforcing said hinge loop against distortion, said hinge loop being substantially closed upon itself at said first-mentioned edge and each of said cartridge-receiving loops being substantially closed upon itself adjacent said first-mentioned edge.

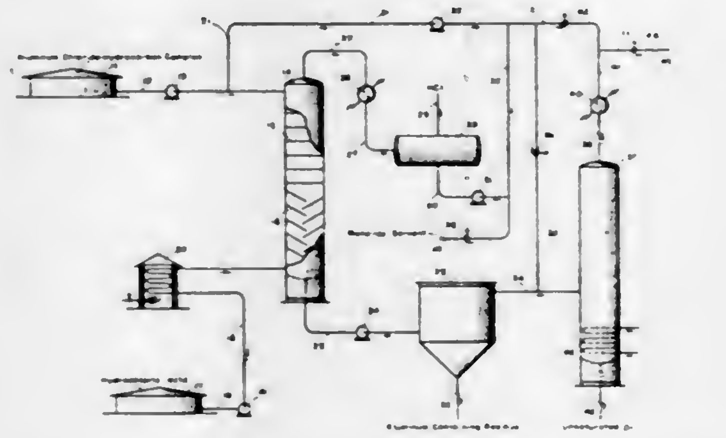
2,420,909

MANUFACTURE OF HYDROGEN CHLORIDE

Reuben F. Pfennig, Goose Creek, and Joseph T. Horeczy, Cedar Bayou, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 2, 1943, Serial No. 493,226

13 Claims. (Cl. 23—154)



1. A process for the manufacture of hydrogen chloride which comprises the steps of dissolving an aluminum chloride-hydrocarbon complex in an organic solvent, the ratio of solvent to complex being at least two to one, contacting said solvent containing said dissolved complex with an aqueous hydrolyzing agent to form a reaction mixture, separating reaction products therefrom and recovering anhydrous hydrogen chloride from said reaction mixture.

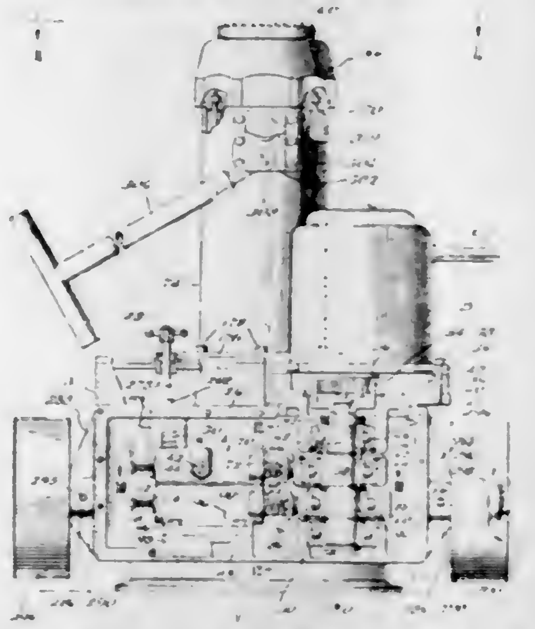
2,420,910

HYDRAULIC JACK

Dwight Richards, Harvey, Ill., assignor to The Buda Company, Harvey, Ill., a corporation of Illinois

Application March 27, 1944, Serial No. 528,301

2 Claims. (Cl. 254—93)



2. In a hydraulic jack which includes a reservoir with pumping mechanism therein, a ram cylinder having a part extending into said reservoir and a part projecting therefrom, a jacket surrounding said projecting part of the cylinder, means securing the jacket rigidly to the reservoir, said reservoir having a base forming a support for the ram cylinder in its upright position, and wheels attached to the reservoir with their treads off the ground when the jack is standing in upright position, said wheels projecting beyond a side of the reservoir to carry the jack when it is tilted over and downwardly at that side, means for pulling the jack on said wheels comprising a tongue pivotally attached to the jacket adjacent its outer end and means disengageably locking said tongue in a position extending beyond the jacket, said tongue being adjustable about its pivot to a position wholly below the outer end of the jacket when the jack is in upright position.

2,420,911

METHYL VINYL POLYSILOXANE-METHYL METHACRYLATE COPOLYMERS

George F. Roedel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application June 11, 1945, Serial No. 598,911

5 Claims. (Cl. 260—84)

1. A resinous copolymer which is the product of polymerization of a mixture of (1) liquid methyl vinyl polysiloxane in an amount corresponding to from 30 to 60 per cent by weight of said mixture and (2) methyl methacrylate, said ingredients of (1) and (2) being copolymerizable.

2,420,912

PREPARATION OF ALKENYL-SUBSTITUTED CHLOROSILANES

Dallas T. Hurd, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application June 11, 1945, Serial No. 598,929

4 Claims. (Cl. 260—607)

1. The process of preparing an alkenylchlorosilane which comprises effecting reaction between heated silicon and an alkenyl chloride selected from the group consisting of vinyl chloride and allyl chloride.

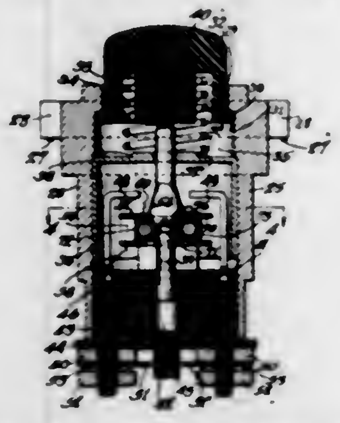
2,420,913

TAPER SNAP SWITCH

Joseph H. Schellman, Ridley Park, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del., a corporation of Delaware

Application September 27, 1943, Serial No. 503,876

4 Claims. (Cl. 200—76)



1. A shorting bar for a hill and valley switch comprising an apertured front contact plate, a rear insulating plate, connections between the two plates, substantially parallel spiral springs lying between the two plates, and ears connected with the front plate and restraining the outer sides of the ends of the springs to limit lateral distortion of the springs.

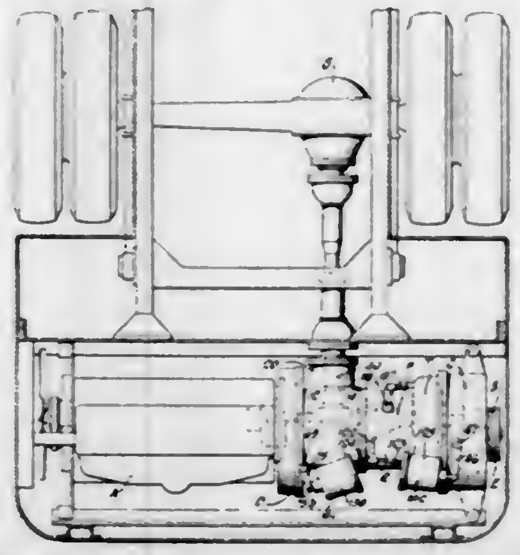
2,420,914

CONVERTER CONSTRUCTION AND CONTROL

Hans O. Schjolin, Birmingham, Mich., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application October 4, 1940, Serial No. 359,747. Divided and this application April 13, 1943, Serial No. 482,892

9 Claims. (Cl. 192—3.5)



1. In driving mechanism for vehicles, a power plant driving arrangement embodying an engine and power shafting connected to drive in one plane, and final drive shafting arranged to deliver output torque in a plane at right angles to said first plane, the centerlines of said shafting intersecting an engine shaft carrying input torque, a hollow shaft surrounding said engine shaft for a part of its length and adapted to drive said final drive shafting, directly through angular gear coupling a torque converter arranged to transmit power from said power shafting to said hollow shaft, and a common housing for all of said shafting and said torque converter effective to enclose all of the torque transmitting parts except where the power shafting and said final drive shafting enter said housing.

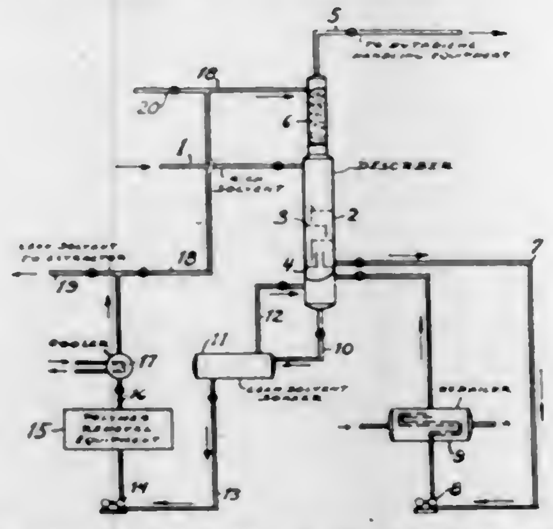
2,420,915

BUTADIENE EXTRACTION

James K. Small, Westfield, N. J., and Richard A. Given, Lake Charles, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application February 19, 1944, Serial No. 523,056

4 Claims. (Cl. 260—681.5)



1. The method of separating butadiene from compositions containing butadiene and acetylenes which comprises introducing into an intermediate part of a desorber a solution of copper salt capable of forming addition compounds with butadiene and acetylenes, said solution being relatively rich in butadiene, desorbing a part of the butadiene content of said rich solution and withdrawing the solution from a lower point in the desorber to a heating zone, heating the withdrawn solution to desorb a further quantity of butadiene, reintroducing the heated solution at a still lower point in the desorber to permit the vapor of butadiene released from said heated solution to flow countercurrent to the first-named rich solution, thus leaving some acetylenes in a lean solution, withdrawing said lean solution from the lower part of said desorber to a heating zone, heating said lean solution to polymerize said acetylenes and removing said acetylenes to recondition said solution for further use, a part of said reconditioned solution being recycled to a point above said intermediate part.

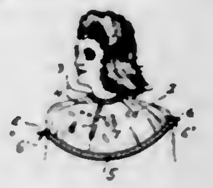
2,420,916

PROTECTOR SHIELD FOR NECKLINE, SHOULDERS, AND HAIR

Agnes C. Sorge, Manitowoc, Wis.

Application September 20, 1946, Serial No. 698,118

1 Claim. (Cl. 2—174)



A shoulder and coiffure protector for displaying over head draped garments comprising a circular cape having a neck opening and a placket extended therefrom, a pair of tapes secured at their edges to the circular periphery of the cape forming loops, a pair of draw strings mounted in the loops having terminal ends adjacent to each other, the cape being adapted to rest over the shoulders of the user or to be folded over the head thereof and secured in its over head folded position by the draw strings.

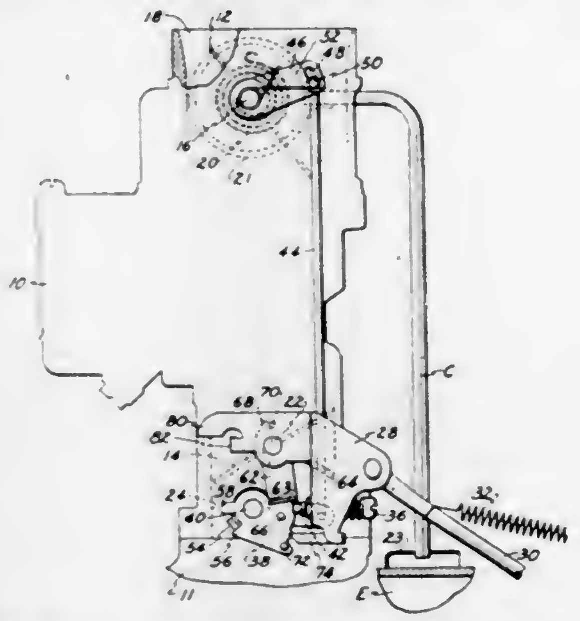
2,420,917

CARBURETOR

Robert W. Sutton and Albert H. Winkler, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 3, 1941, Serial No. 413,432

3 Claims. (Cl. 261—39)



1. A control mechanism for carburetors having a pressure actuated air valve and a throttle valve, comprising a temperature responsive device for governing the degree of opening of the air valve, a pivoted lever, means providing a one-way connection between the lever and air valve, means for limiting movement of the lever whereby closing movement of the air valve is limited, the effectiveness of said means being unaffected by movement of the throttle within a lower throttle range, and means effective when the throttle is in a substantially closed position to limit opening of the air valve.

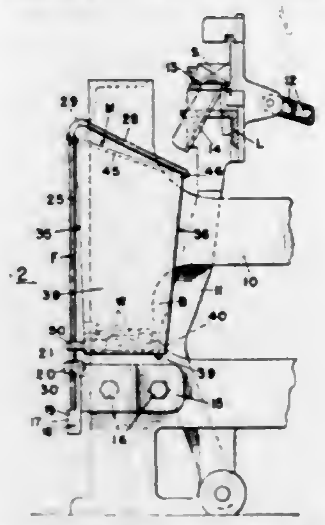
2,420,918

SPENT BOBBIN RECEIVER FOR WEFT REPLENISHING LOOMS

Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application February 15, 1946, Serial No. 647,952

9 Claims. (Cl. 139—255)



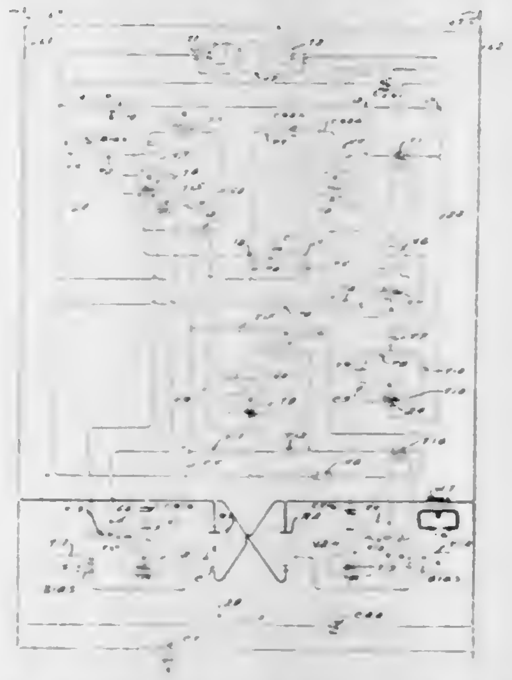
1. In a spent bobbin receiver for a weft replenishing loom, a skeleton frame having ver-

tically extending side members each provided at the upper end thereof with a rearwardly extending arm, a bobbin receiving bag having hems formed on the upper part thereof under said arms, and a support extending through each hem and having the rear part thereof supported by the rear end of the corresponding arm and having the forward end thereof supported by the corresponding side member.

2,420,919

TIMING CONTROL SYSTEM

Gustav E. Undy, Detroit, Mich., assignor, by mesne assignments, to Weltronic Company, Oakland County, Mich., a corporation of Michigan
Application July 10, 1942, Serial No. 450,483
10 Claims. (Cl. 250—27)



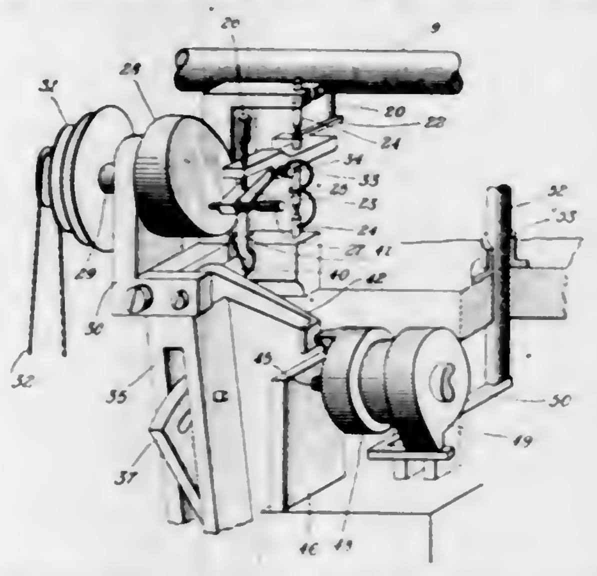
5. In a timing control system for a plurality of electric discharge devices each having principal electrodes and a control element, a plurality of valves, means operated when said valves are rendered conducting for respectively applying an operating potential between the corresponding control element and one of the corresponding principal electrodes, a control member movable between first and second positions, means responsive to movement of said control member to said first position for rendering one of said valves conducting, means responsive to the conducting condition of said one valve for rendering another of said valves conducting, said last-mentioned means being operably independent of the operation of the said device corresponding to said one valve, and blocking means the effect of which is released when said control member is moved to said second position, said blocking means preventing the re-operation of said one valve until so released.

2,420,920

DIAMOND DIE DRILLING MACHINE

Antonius C. van den Berg and Harold Kenyon, Blackburn, England, assignors to The Hartford National Bank and Trust Company, as trustee
Application September 5, 1944, Serial No. 552,780
In Great Britain September 29, 1943
5 Claims. (Cl. 125—30)

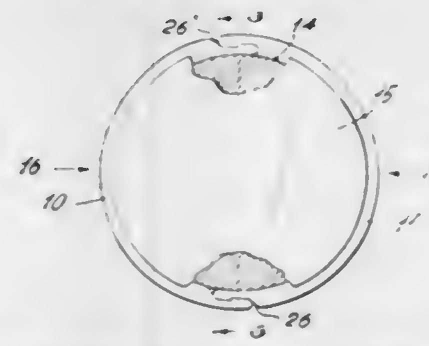
1. A drilling machine of the type in which an abrasive medium is applied to the contoured drilling point of a drill, comprising a rotatable drill, means to rotate said drill from a main drive of the machine, a work-supporting member arranged in alignment with the axis of the drill, means actuated by the main drive for reciprocating said work-supporting member axially of the drill during the drilling of the work, a rotatable shaping tool for refinishing the point of said drill, and means for retracting the work-supporting member along the axis of the said drill from the drilling position and simultaneously disengaging the work-supporting member from the said reciprocating means and advancing the said rotatable reshaping tool into engagement with the drill, said means comprising a cam element rotated by the main drive, a rocking lever actuated by said cam element and coupled to said work-supporting member and controlling the position of said work-supporting member independent of said reciprocating means, and an adjustable supporting member for said rotatable shaping tool coupled to said cam element.



2,420,921

RETAINING RING

Harry K. Waldes, Jackson Heights, N. Y., assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York
Application June 27, 1945, Serial No. 601,746
6 Claims. (Cl. 85—8.5)

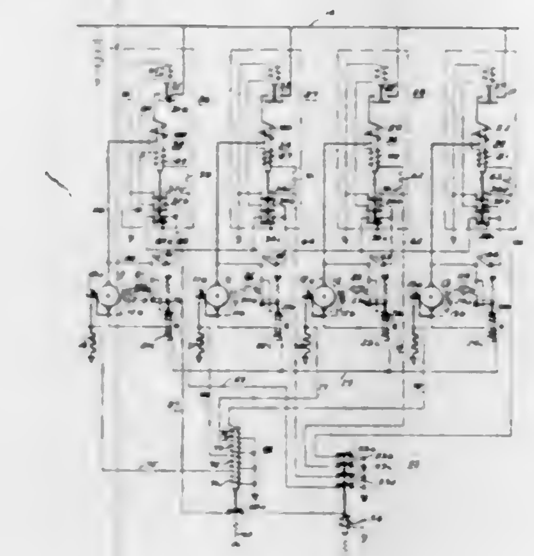


1. A retaining ring for forming an artificial shoulder on a shaft or the like provided with a ring seating groove comprising identical ring parts of spring material adapted for assembly within the groove by being forced together in a direction crosswise of the center line of the shaft, each ring part having an inner edge diameter corresponding substantially to the diameter of the groove bottom, and the adjacent ends of the parts being formed to provide complemental locking means which are adapted to clear one another by relative radial movement thereof in the assembly of the ring parts and thereupon to interlock and secure the ring parts together as a complete ring annulus having pressure fit against the bottom of the groove.

2,420,922

CONTROL SYSTEM

Omar C. Walley, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 2, 1944, Serial No. 547,691
10 Claims. (Cl. 171—118)

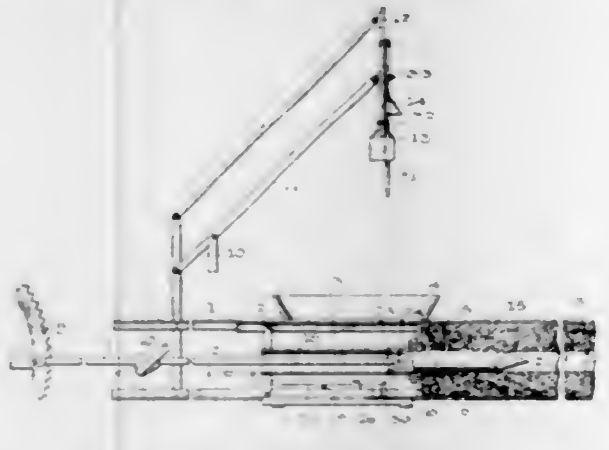


1. In combination, a plurality of direct-current generators for supplying power to a common load bus, relay switch means individual to each generator operable to connect its associated generator to the load bus in response to a predetermined output voltage of the generator, electrically-interconnected regulator means individual to each generator, and relay means jointly responsive to the operation of any one of said relay switch means and the load of its associated generator operable to prevent the connection of more than one of said generators to the load bus until the load exceeds a predetermined value.

2,420,923

HAY BALER FOR FORMING PERFORATED BALES

Mack A. West, Paragould, Ark.
Application December 2, 1943, Serial No. 512,625
15 Claims. (Cl. 100—19)

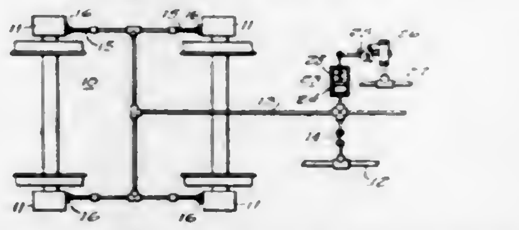


1. In a hay baler, a baler plunger, a separately movable hole forming plunger slidably mounted therein, means to project the hole forming plunger before the start of the compression stroke of the baler plunger to form the bale around the same, the hole forming plunger being withdrawn by reverse movement of said means before the return stroke of the baler plunger, and means to hold the baler plunger under pressure until the hole forming plunger has been withdrawn within the same.

2,420,924

PNEUMATIC BEARING PROTECTIVE SYSTEM FOR TRAIN PIPES AND SIGNAL LINES

Charles C. Whittaker, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 6, 1943, Serial No. 509,313
3 Claims. (Cl. 246—169)

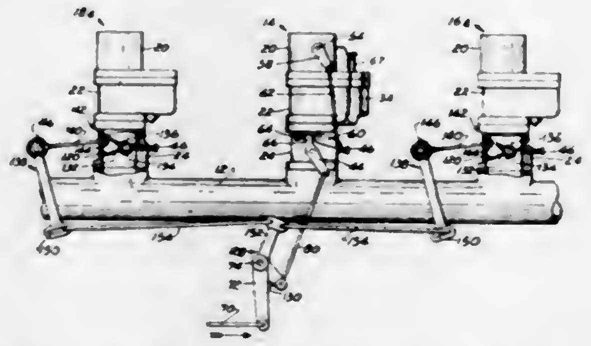


1. In a protective system, the combination with a vehicle truck having axle bearing housings and two separate fluid pressure systems having pressure fluid therein, of means for connecting one of the fluid pressure systems to each axle bearing housing, fusible means disposed in said housings to retain the pressure fluid in said connecting means, signalling means connected to the other fluid pressure system and responsive to the releasing of said pressure fluid from the connecting means by said fusible means, and means for limiting the flow of pressure fluid from the system connected to said housings.

2,420,925

CHARGE FORMING DEVICE

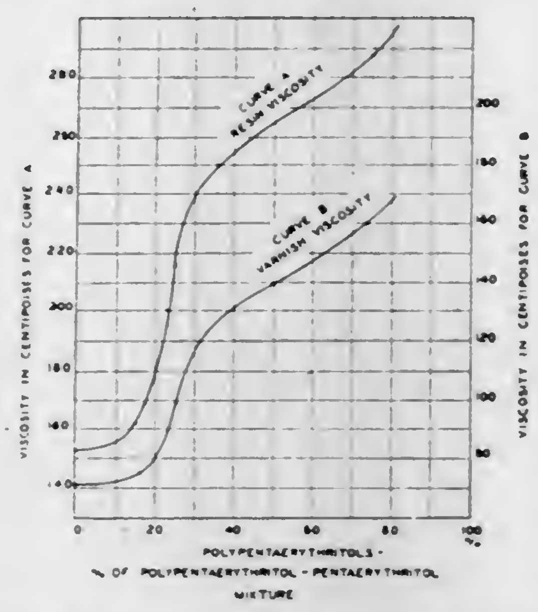
Emil O. Wirth, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 23, 1940, Serial No. 357,860
29 Claims. (Cl. 123—127)



1. In a charge forming device for an internal combustion engine having an intake manifold: a primary carburetor adapted to deliver its fuel mixture to the intake manifold substantially midway of the ends thereof, said carburetor including a throttle valve, a choke valve, automatic means controlling the choke valve, a vacuum economizer, acceleration pump, an idle system and fast idle mechanism; a second carburetor adapted to deliver its fuel mixture intermediately of the position of the primary carburetor mixture delivery and one end of the manifold and including a throttle valve, an idle system, and a vacuum economizer; and a third carburetor adapted to deliver its mixture intermediate of the position of the primary carburetor mixture delivery and the other end of the manifold and including a throttle valve and an idle system; an offset auxiliary valve in the second and the third carburetors posterior to the throttle valves thereof and independently operable by the differential pressure thereacross; a spring for each auxiliary valve adapted to close said valves when said differential pressure is under a predetermined value; manual means for progressively opening the throttle valves of the carburetors in the order mentioned; the throttle valve of the second car-

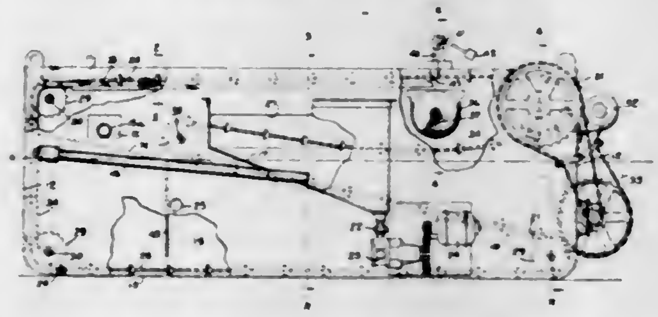
buretor being opened before the economizers begin to function, the throttle valve of the third carburetor thereafter, the third carburetor being set for a power mixture, an air flow responsive choke valve in the third carburetor, and yielding means closing said choke valve.

2,420,926
POLYPENTAERYTHRITOL ESTERS OF ROSIN ACIDS
Gilbert R. Anderson, Chattanooga, Tenn., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application February 2, 1943, Serial No. 474,428
8 Claims. (Cl. 260—104)



6. Hard, oil-soluble resins formed by the esterification of reactants consisting essentially of rosin acids and polypentaerythritols having no more than three linked pentaerythritol nuclei.

2,420,927
SCREENING AND CONVEYING MEANS FOR THE SOLIDS OF OIL SEPARATING TANKS
Raymond T. Anderson, Lakewood, Ohio, assignor, by mesne assignments, to The V. D. Anderson Company, Cleveland, Ohio, a corporation of Ohio
Application August 26, 1944, Serial No. 551,366
7 Claims. (Cl. 210—43)

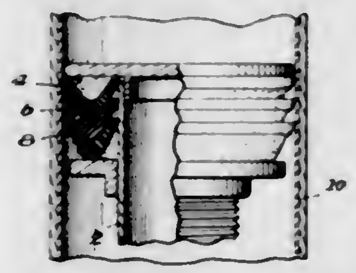


1. Apparatus of the character described, comprising a tank provided near one end and above its bottom with a product overflow outlet opening and at a higher level with an inlet opening, an apron mounted in said tank and sloping downwardly from a point between said openings toward the other end of the tank, a horizontal screen above the inlet opening, the tank being provided below one end of the screen with an inner wall spaced from the adjacent tank and wall and forming therewith a narrow elevator passage, a receiver below the other end of said screen, a series of scrapers, flexible members connecting them in endless series form, operating means therefor, and guide means for said scrapers mounted on the tank, said operating and guide means being arranged to cause said scrapers to travel first downwardly along said apron, then horizontally along the tank bottom, then upwardly through said elevator passage to and along said screen, whereby said scrapers collect solid matter settling from liquid supplied to said tank and conduct the same to said receiver.

2,420,928
DIALKOXYARYL TRICHLOROMETHYL METHANE COMPOUNDS AS INSECTICIDES
Euclid W. Bousquet, Wilmington, and Avery H. Goddin, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 2, 1943, Serial No. 489,380
23 Claims. (Cl. 167—30)

1. A fly spray composition consisting essentially in a fly spray base hydrocarbon solvent containing a toxic amount of di(para-methoxyphenyl)-trichloromethyl methane.

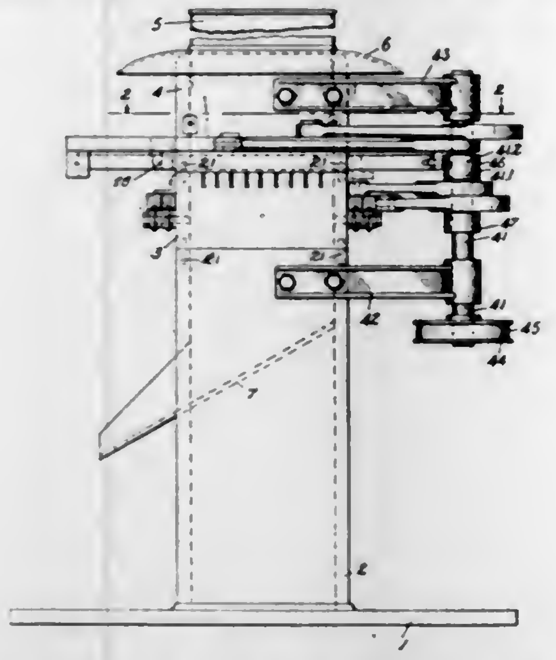
2,420,929
CHEVRON PACKING RING
Malcolm R. Buffington, Millburn, and Emil G. Jegge, Montclair, N. J., assignors to Lea Fabrics, Inc., Newark, N. J., a corporation of Delaware
Application May 25, 1942, Serial No. 444,432
1 Claim. (Cl. 309—33)



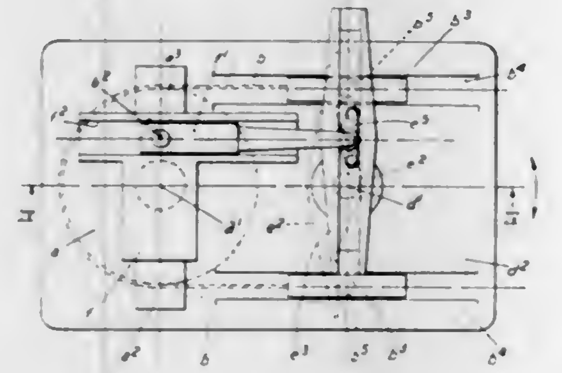
A packing ring of the chevron or V type adapted to obviate freezing against a cylindrical working surface with which it is in contact which comprises a molded vulcanized rubber composition in the form of an annulus having a fabric reinforcement to provide substantial body stiffness with local surface flexibility, said packing ring being coated with a synthetic rubber composition to permit contact with a soft metal without producing scratching or scouring action, the said annulus including a body portion in which the lateral surfaces of the outer convex sides of the V cross section are disposed at an angle less than the corresponding lateral inner surface of the concave side, the V section having inner and outer lip portions converging outwardly in a direction away from the center of the section and beveled inwardly toward the center of the section, whereby in nesting a plurality of packing rings, the peripheral lip portions of each ring are movable independently of the lip portions of the next adjacent ring in the series.

2,420,930
RECIPROCATING BLADE TYPE SLICING MACHINE
Arthur G. Bush, Davenport, Iowa
Application July 9, 1945, Serial No. 603,835
11 Claims. (Cl. 146—78)

1. A slicing machine comprising a tubular body, upper and lower pairs of rectangular blade-holding frames surrounding the body each pair consisting of an inner and an outer frame and each frame having end and side bars suitably united, the side bars of the outer frames being arranged outside of and parallel with and adjacent the side bars of the inner frames, grooves formed in the lower faces of the side bars, supporting rolls pivotally mounted on the body having their peripheries arranged to fit into the grooves of the side bars respectively and support and guide the frames during their travel, a plurality of blades mounted upon each frame and corresponding slots formed in the body to permit travel of the blades therethrough, and means for reciprocating the frames of each pair in opposite directions simultaneously and with the frames of the lower pair traveling at right angles to the frames of the upper pair.

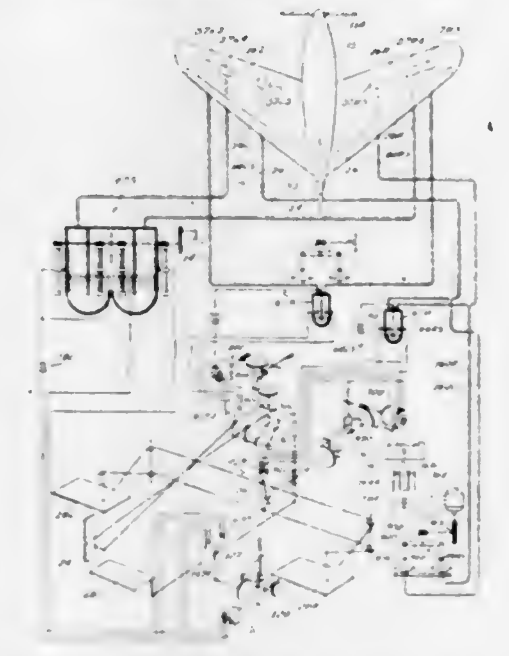


2,420,931
APPARATUS FOR GENERATING INVOLUTES
Ernest Albert Cooke, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application October 10, 1944, Serial No. 558,070
In Great Britain July 20, 1943
20 Claims. (Cl. 51—95)



1. Apparatus for generating involutes, comprising a circular base disc, a link, said base disc and link being relatively rotatable about a common main axis coincident with the centre of the base disc, a subsidiary disc mounted to rotate on the link and having a radius equal to that of the base disc, a flexible band interconnecting the circumferences of the discs, a lever fulcrumed on the link between the axes of the two discs, means interconnecting the lever to the flexible band, a radius element mounted to pivot about the main axis and whose effective length is equal to the radius of the base circle corresponding to the involute to be generated, means whereby the effective length of the radius element can be adjusted at will, a tangent element connected at right angles to the radius element and tangential to the base disc, a follower movable along the tangent element, and means interconnecting the follower and a part of the lever between the fulcrum and the part connected to the flexible band, relative angular movement between the base disc and the link about the main axis causing the lever to move both angularly about its fulcrum and translationally about the main axis in accordance with the said relative angular movement of the link and base disc, the lever thus causing the follower to describe the involute corresponding to the selected base circle.

2,420,932
CONTROL SYSTEM FOR AIRPLANES
George W. Cornelius, Dayton, Ohio, assignor of one-half to E. H. Johnson, Dayton, Ohio
Application August 11, 1943, Serial No. 498,203
8 Claims. (Cl. 244—78)

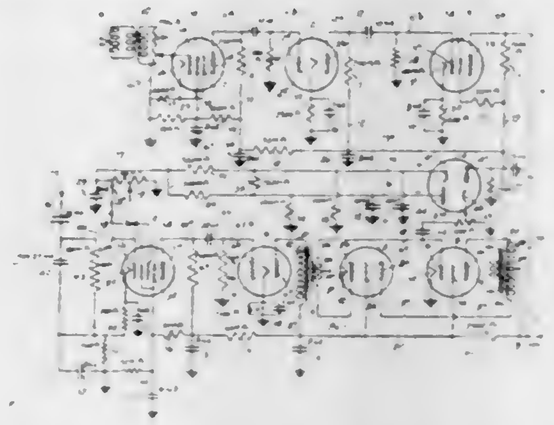


1. In an airplane, a body having laterally projecting wings affording airfoil surfaces disposed substantially symmetrically with respect to the longitudinal axis of the airplane, ailerons, elevator means and steering means associated with said body and operable to control movement of the airplane about is rolling, pitching and yawing axes, respectively, means for adjusting said ailerons to initiate turning of the airplane, sensing means disposed in the upper surfaces of the respective wings and in the low pressure areas thereof and operable to sense variations in effective lift of said wings, and means governed jointly by the sensing means on the opposite sides of said axis and operable upon sensed inequality of the effective lift of the respective wings to operate said steering means to coordinate the position of the steering means with the adjustment of said ailerons.

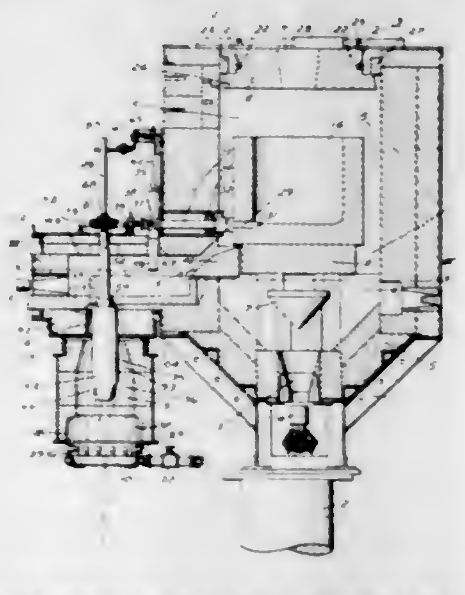
2,420,933
AUTOMATIC VOLUME CONTROL
Frederick G. Crawford and Edgar A. Stroschein, Oshkosh, Wis., assignors to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Application August 5, 1944, Serial No. 548,178
8 Claims. (Cl. 179—1)

1. A sound volume control system including in combination a program amplifying circuit, a sur-

face sound pick-up and amplifying circuit, and circuit means inter-connecting the input of the first mentioned circuit to the output of the second mentioned circuit for automatically varying the program output volume only in accordance with surface sound variation, and means for simultaneously balancing out of the effected control that increase in the surface sound volume due to program sound volume increase.



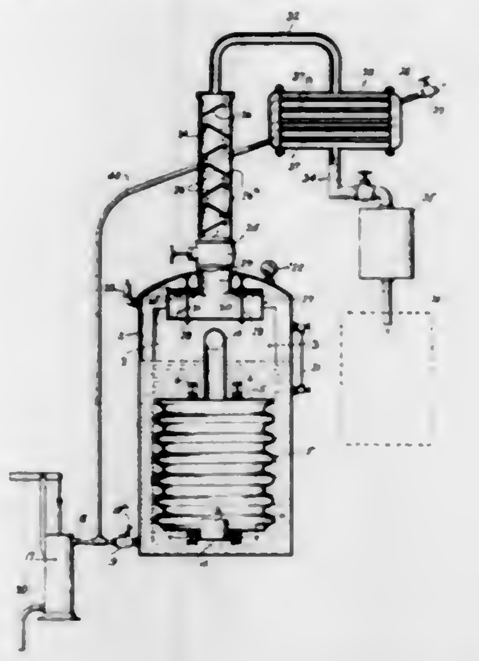
2,420,934
MANUFACTURE OF GLASSWARE
Edward Danner, Newark, Ohio
Application August 17, 1943, Serial No. 498,971
7 Claims. (Cl. 49—17.1)



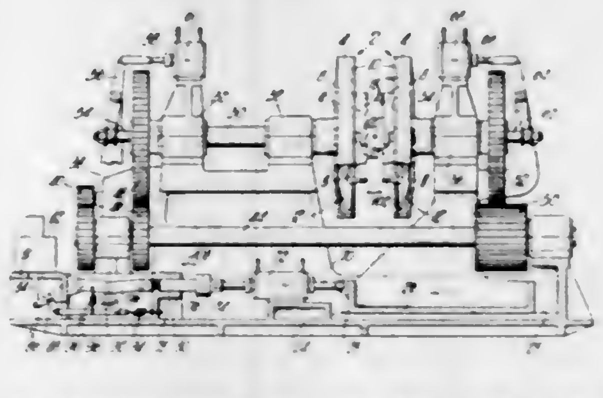
1. In glassware-forming apparatus, a glass-shaping element, a source of molten glass arranged to deposit molten glass on said shaping element, a shell surrounding said glass-shaping element and forming a chamber in which the glass-shaping element is positioned, said chamber having a gas discharge opening adjacent the upper end thereof, a damper ring adjacent said opening for regulating the flow of gases through said chamber, and means for adjusting the damper ring relative to said opening.

2,420,935
EVAPORATING SET
George A. D'Aquin, Houston, Tex.
Application January 29, 1944, Serial No. 520,303
2 Claims. (Cl. 122—16)

1. A boiler for a water purifying apparatus having a side opening, a closure for the side opening movable into and out of closed relation thereto, a fire box carried by said closure and disposed within said boiler when the closure is in closing relation to the side opening, said fire box having a neck registering with an opening in the closure for insertion of a heating medium into the fire box, the bottom of the fire box being formed with a pocket to receive the heating medium, a flue extending upwardly from the fire box and out through the closure, a flue on said boiler, a valve in said flue controlling the emission of steam from said boiler through said flue, a conduit leading from the top of the flue for delivering vapor exteriorly of said boiler, and a pump for supplying water directly to the boiler.



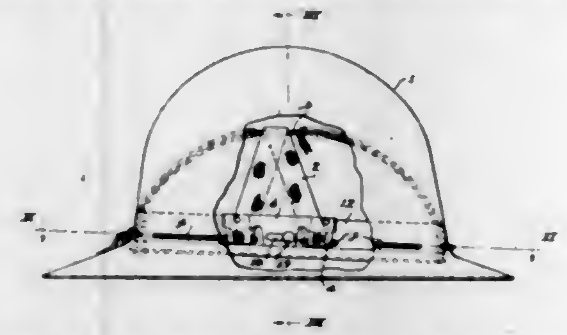
2,420,936
FLYING COILER
Floyd E. Davis, Gary, Ind.
Application December 6, 1944, Serial No. 566,929
25 Claims. (Cl. 242—81)



19. A flying coiler for rods and the like comprising opposed rotatable drums, means for rotating said drums in synchronism prior to gripping the rod therebetween, means for moving at least one of said drums toward and away from the other, and means for limiting the movement of the drums together to establish a gap between the edges of the drums slightly less than the thickness of the rod to be gripped therebetween.

2,420,937
PROTECTIVE HEADGEAR
John F. Dauster, Wilkinsburg, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 23, 1944, Serial No. 536,883
8 Claims. (Cl. 2—3)

1. In a protective headgear crown, an adjustable head band, cradle straps having their lower ends connected to the crown beside the band, supporting members carried by said straps beside the band and provided with slots extending circumferentialy of the band, and studs secured to the band and slidably mounted in said slots.

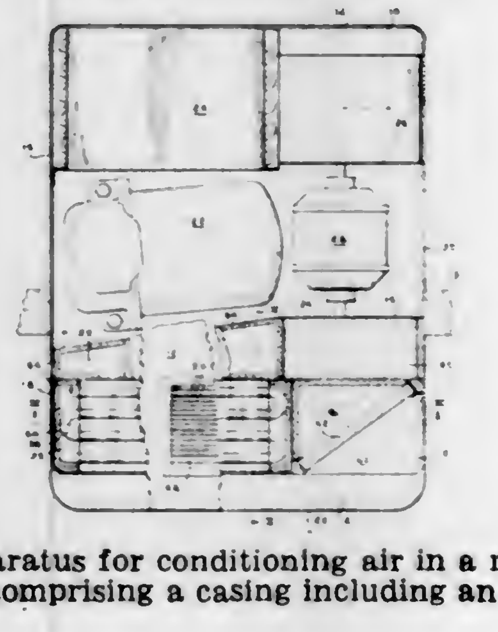


2,420,938
NITRIC ACID AS SELECTIVE SOLVENT IN OXIDATION OF NAPHTHENES
Thomas F. Doumani, Los Angeles, and Clarence S. Coe, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application April 10, 1944, Serial No. 530,420
11 Claims. (Cl. 260—533)

1. A process for the separation of a mixture comprising naphthene hydrocarbons having between about 5 and 10 carbon atoms and their nitro derivatives which comprises extracting the mixture at a temperature below about 20° C. with a selective solvent comprising nitric acid having concentration between about 50% and 95% by weight.

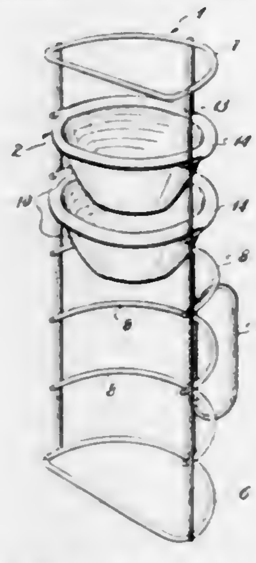
11. A process for the production of organic dibasic acids which comprises reacting a hydrocarbon feed stock containing naphthenes and isoparaffins of similar volatility with concentrated nitric acid at an elevated temperature to produce a mixture comprising an aqueous phase containing said dibasic acids and an oil phase containing nitronaphthenes, separating the oil phase from the aqueous phase, separating the nitronaphthenes from the oil phase by a process involving selectively dissolving said nitronaphthenes in concentrated nitric acid at a temperature below about 20° C., and oxidizing the extracted nitronaphthenes to form additional dibasic acid.

2,420,939
AIR CONDITIONING APPARATUS
Arthur H. Eberhart, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 25, 1944, Serial No. 560,265
10 Claims. (Cl. 62—129)



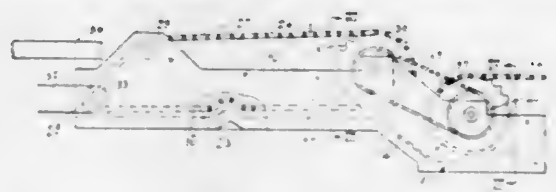
1. Apparatus for conditioning air in a room or the like, comprising a casing including an evaporator compartment, an evaporator in said compartment, a fan for delivering air to be conditioned to said evaporator compartment, the apparatus having an inlet for admitting air to be conditioned to the intake side of said fan and having an outlet for discharging conditioned air from said evaporator compartment into said room, and a silencing chamber for receiving air from the discharge side of said fan, there being a restricted opening leading from said chamber to said evaporator compartment.

2,420,940
CULINARY VESSEL AND RACK THEREFOR
James W. Eldridge, Pasadena, Calif.
Application November 26, 1945, Serial No. 630,885
3 Claims. (Cl. 211—71)



3. In a culinary vessel and rack therefor, the combination of: three upright supporting columns disposed in substantially mutually equidistant spaced relation; a plurality of frames having substantially a U-shape; means mounting said frames horizontally on said columns in vertically spaced relation with the open side of said U-shaped frame between two columns and the bottom of said U-shaped frame at the third column; and a culinary vessel removably supported by each of said frames, said vessels each having a bowl portion received within said U-shaped frame and an outwardly flanged top, the portion of said top overlying said frame being turned down and partially encircling said frame to prevent inadvertent dislodging of said vessel, said top having a notch formed therein for receiving said third column.

2,420,941
COMBINED PICKING TABLE AND SCREEN OF THE DRAG-CONVEYOR TYPE
Milton H. Fies, Birmingham, Ala.
Application September 19, 1944, Serial No. 554,739
3 Claims. (Cl. 209—358)



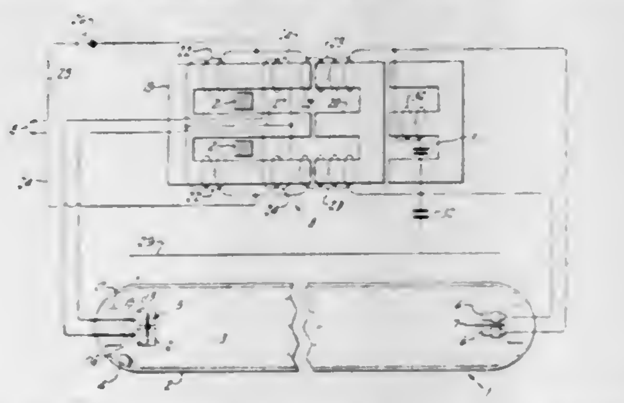
1. In apparatus of the character described, a screen composed of longitudinally extending parallel, regularly spaced bars thicker at the top edge than at the bottom to define downwardly diverging openings therebetween, regularly spaced transversely extending supporting and spacing members interposed between the bars to define

openings of regular size therebetween, conveyor chains having flights mounted thereon at intervals and having portions extending downwardly below the tops of the longitudinally extending bars to move directly over the transverse supporting and spacing members and adapted to draw material being screened over the bars, and guide means for holding the flights downwardly in substantial engagement with the bars.

2,420,942

ELECTRIC DISCHARGE DEVICE AND CIRCUIT THEREFOR

Ted E. Foulke, Mayfield Village, Ohio, assignor to General Electric Company, a corporation of New York
Application February 21, 1941, Serial No. 380,042
8 Claims. (Cl. 315—105)

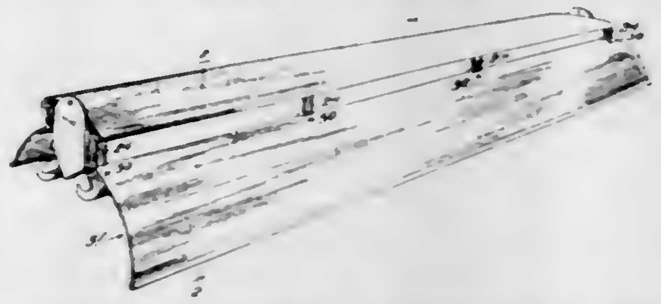


1. The combination with an electric discharge device comprising an envelope containing an ionizable gaseous atmosphere, associated anodes, and a cooperating activated cathode spaced from said anodes and comprising electric heating means, of a metallic shield electrically coupled to one of said electrodes and extending along adjacent but outside the envelope, a resonant circuit for applying across the gap between said cathode and anodes a no-load voltage sufficiently higher than discharge-maintaining value to initiate discharge with the aid of said shield, and for also applying the lower discharge maintaining voltage across said gap when the discharge current flows in the lamp after starting, and means of connection from said resonant circuit to said electric heating means for applying through the latter, concurrently with the application of discharge initiating voltage across the electrode gap, voltage sufficient to bring the cathode to a temperature of substantial electron emission substantially instantaneously.

2,420,943

LIGHTING EQUIPMENT

Harry Freeman, Providence, R. I.
Application January 9, 1946, Serial No. 640,024
6 Claims. (Cl. 240—78)

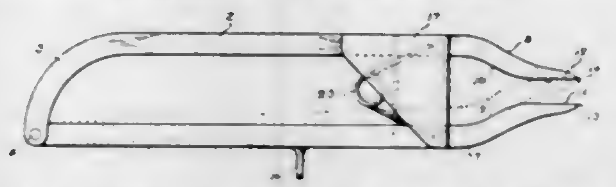


1. Lighting equipment comprising a trough, brackets carried by the trough having arms spaced from the sides of the trough, said arms being shaped at their upper portions to provide knees and provided at their lower portions with one part of a detachable locking means, a detachable cover for said trough having portion to snap over and detachably engage said knees and reflectors having cooperating means to detachably engage said locking means.

2,420,944

WEED REMOVER

Sam F. Gaspro and Dominick G. Gaspro, Portland, Oreg.
Application September 3, 1946, Serial No. 694,546
3 Claims. (Cl. 254—132)

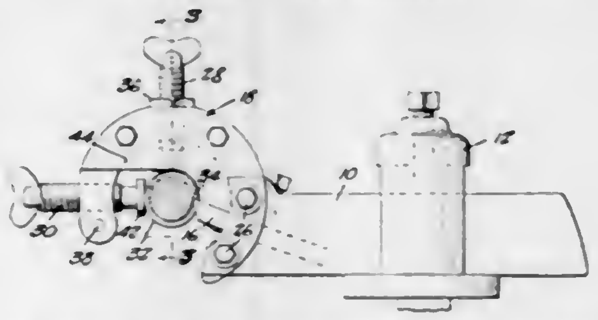


1. A weeder comprising, a pair of hinged arms culminating in sharply pointed pincer jaws, a slotted reinforcing plate secured to one of the arms and allowing lateral movement to the other of the arms positioned in the slot of said plate, said reinforcing plate culminating in a rounded fulcrum base below said arms and a resilient member joined to the arms to normally maintain the jaws in open position.

2,420,945

COMBINATION TOOLHOLDER AND STEADY ARM

Roland C. Gaylord, Newport News, Va.
Application September 20, 1943, Serial No. 503,147
1 Claim. (Cl. 82—35)



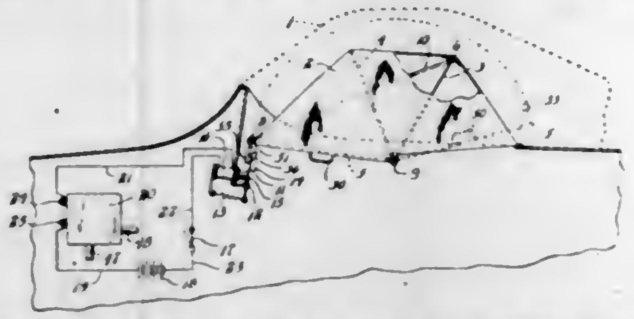
In a lathe, a combination tool holder and steady arm comprising a cutting tool supporting stem having a head in which the cutting tool is carried arcuate means attached to one end of said stem, and extended to exceed 180 degrees to partly encircle work engaged by the cutting tool, adjustable work supporting means threadably connected with said first mentioned means engageable with the work at spaced points, said first mentioned means being provided with two spaced shoulders upon opposite sides, said stem being shaped to fit snugly between either set of shoulders and in engagement therewith for selectively positioning and holding said first mentioned means on either side of the stem and bolt means attaching said first mentioned means to said stem.

2,420,946

FLYING HOOD RELEASE SYSTEM

Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 2, 1942, Serial No. 460,522
19 Claims. (Cl. 244—121)

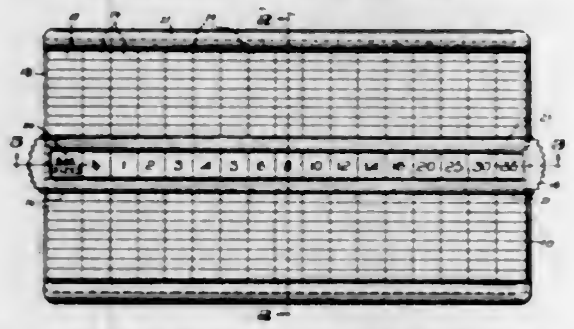
1. In an automatic hood control system for airplanes, comprising, in combination, a hood movable from an open to a closed position, biasing means normally urging said hood toward an open position, latch means movable between two extreme positions and operable in one of said positions to maintain said hood in closed position, electromagnetic means for moving said latch means from one extreme position to the other, said electromagnetic means and said latch being disposed so that upon energization of said electromagnetic means said latch is caused to move promptly from one extreme position to its other extreme position, biasing means operable upon deenergization of said electromagnetic means to promptly return said latch to its original position, an electric circuit for energizing said electromagnetic means, and airspeed responsive means for breaking the circuit to deenergize the electromagnetic means at a predetermined minimum and maximum airspeed.



2,420,947

HOLDER FOR CHARTS

Everett E. Goodspeed, Falmouth, Maine
Application May 17, 1945, Serial No. 594,283
5 Claims. (Cl. 116—135)



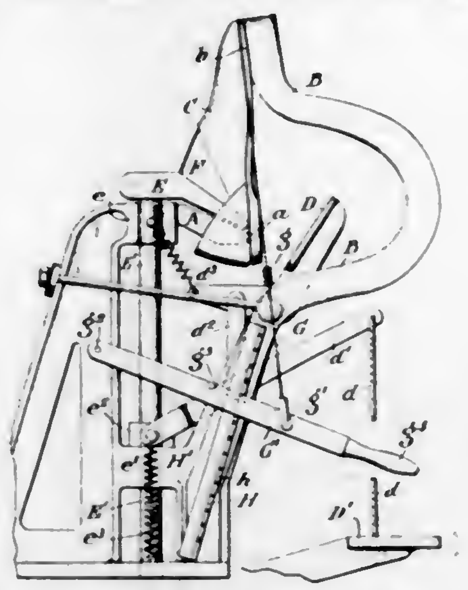
1. A holder for a price chart or the like, comprising a body having upstanding shoulders along its sides grooved to establish mutually opposed channels, a slide having a pair of depending shoulders spaced to engage the ends of said body and a longitudinal slot parallel to the top surface of said slide, and a relatively stiff chart member extending through said slot and marginally seated in said channels to attach said slide to said body for movement between said upstanding shoulders, said shoulders on said slide retaining said chart member against endwise displacement.

2,420,948

MACHINE FOR RELASTING SHOES AND SLIPPERS

James Greenhalgh, Burnley, England, assignor to Lambert Howarth and Sons Limited, Waterfoot, Lancaster, England
Application November 14, 1945, Serial No. 628,584
In Great Britain November 22, 1944
4 Claims. (Cl. 12—15)

1. In a machine of the kind referred to for relasting shoes having soles and uppers the combination with a shoe support and wedge means for forcing a last into the toe portion of the shoe of a wire anchored at one end to a stationary part of the machine and adapted to be passed around the toe portion of the shoe and a pivoted lever to which the other end of the wire is attached the wire being adapted to be passed around the toe of the shoe whereby on the lever being operated the wire will be pulled taut around the said toe along the junction of the sole and upper and force the toe onto the toe portion of the last thereby reproducing the shape of the said toe portion and smoothing out wrinkles and creases.



2,420,949

CARBOXYALKYL CELLULOSE ETHER FIBERS AND FILMS OF GOOD WET STRENGTH

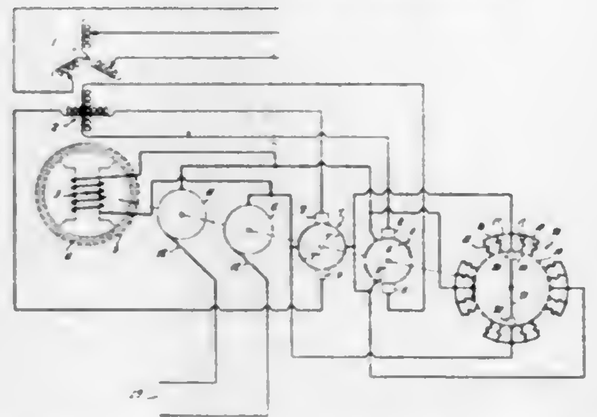
Onslow B. Hager, Glenside, and Louis H. Bock, Huntingdon Valley, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application September 11, 1943, Serial No. 502,052
2 Claims. (Cl. 260—232)

1. Shaped cellulosic products in the form of filaments, ribbons, and unsupported films which have good wet strength, which are insoluble in water, in solutions of alkalies, and in solutions of acids, which consist of carboxyalkyl cellulose ether, the free acid form of which is soluble in excess alkali solution, and which contain zirconium attached to carboxyalkyl groups of the cellulose ether in an amount equivalent to about 3% to about 9% of ZrO_2.

2,420,950

COMMUTATED TRANSFORMER

Klaus L. Hansen, Milwaukee, Wis.
Original application August 21, 1944, Serial No. 550,429. Divided and this application July 13, 1945, Serial No. 604,773
5 Claims. (Cl. 171—123)

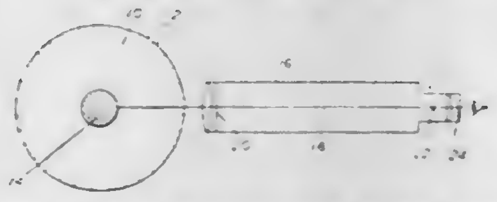


1. A dynamo-electric machine comprising a plurality of windings bearing a polyphase relation to each other, a rotor having a direct current winding, a plurality of slip rings driven from said rotor, brushes bearing on said slip

rings, a plurality of commutators driven from said rotor and connected in series between said slip rings and connected to the direct current winding of said rotor, brushes bearing on said commutators and connected to said windings, and means for establishing a conductive by-pass circuit around each of said windings during commutation with respect to such winding.

2,420,951
OPTICAL APPARATUS FOR DETERMINING ANGLES

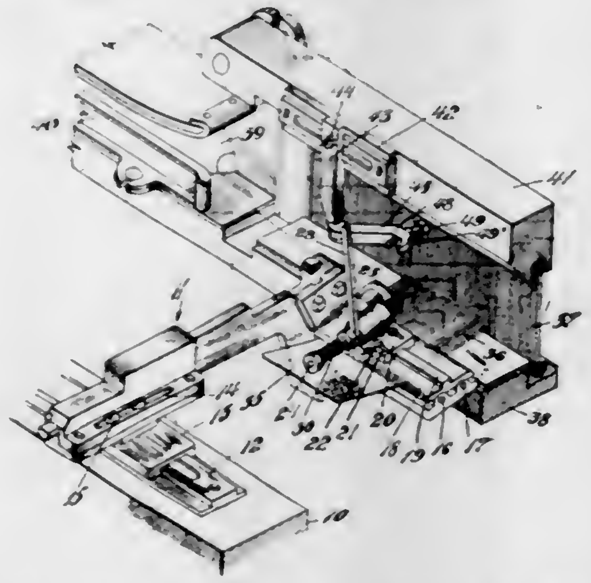
Joseph Henry Williams, Carshalton, Albert Edward Stenning, Beckenham, and Reginald Herbert Stenning, Thorndene, England
Application December 9, 1944, Serial No. 567,340
In Great Britain August 19, 1943
5 Claims. (Cl. 88—74)



3. Apparatus for determining angular positions of a workpiece in a machine tool, comprising a combination of two relatively rotatable members, namely a rotatably mounted workpiece and a fixed support, an optical division plate having a number of optically worked reflecting facets on its edge, and a collimating telescope directed towards the edge of the optical division plate, said telescope being located approximately in the same plane as said division plate with its optical axis normal to each facet of the division plate when said facet lies adjacent said telescope, said optical division plate being rigidly secured to one of said relatively rotatable members and said collimating telescope being rigidly mounted on the other of said members.

2,420,952
LOOM SELVAGE NEEDLE

Harold Hoeber, South Dartmouth, Mass.; Barbara O. W. Hoeber and William T. Read, executors of said Harold Hoeber, deceased, assignors to Textile Research Co., a corporation of Massachusetts
Application March 1, 1945, Serial No. 580,312
8 Claims. (Cl. 139—195)



1. In a loom, a selvage needle comprising a body extending generally in a plane parallel to the plane of the reed into the warp threads and presenting a surface throughout its extent parallel to the plane of the reed when adjacent the fell of the fabric, and means for withdrawing the needle from the warp threads substantially in a plane parallel to the reed.

2,420,953
LUBRICANT

Russell A. Hunt, Jr., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application August 19, 1944, Serial No. 550,305
15 Claims. (Cl. 252—49.9)

1. A hydrocarbon oil composition resistant to copper plating comprising a hydrocarbon oil normally susceptible to cause copper plating in the presence of a copper-containing metal, a copper deactivator and tricresyl phosphate, said copper deactivator and said tricresyl phosphate being used in small but sufficent quantities to inhibit the copper plating by said hydrocarbon oil said copper deactivator being the reaction product of an aliphatic polyamino compound having at least two primary amino nitrogen atoms and an aromatic compound selected from the class consisting of aromatic ortho hydroxy aldehydes and ortho hydroxy aromatic ketones.

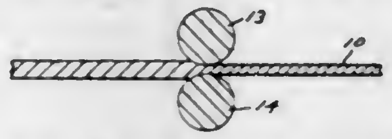
2,420,954
ELECTROLYTIC PRODUCTION OF SUCCINIC ACID FROM BUTYROLACTONE

Robert M. Isham, Okmulgee, Okla., assignor to Danciger Oil & Refineries, Inc., Fort Worth, Tex., a corporation of Texas
Application June 12, 1941, Serial No. 397,809
1 Claim. (Cl. 204—79)

A method of producing succinic acid from butyrolactone which comprises acidifying an aqueous solution of butyrolactone with sulphuric acid, heating the solution to a temperature of between about 40° C. and 70° C., electrolyzing the solution in contact with an anode of large surface area, subsequently chilling the solution to recover therefrom crystals of succinic acid.

2,420,955
METHOD OF MAKING OPTICAL BODIES

Harry C. Kremers, Cleveland Heights, and Robert E. Price, Cleveland, Ohio, assignors to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
Application September 4, 1944, Serial No. 552,716
6 Claims. (Cl. 18—47.5)

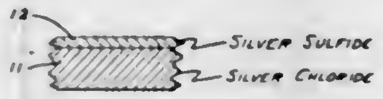


1. A process of making an optical body comprising making an ingot of volume in excess of one cubic centimeter consisting of a single crystal of silver chloride and then forming an optical body of the desired shape by deforming such ingot.

2,420,956
OPTICAL BODIES COMPOSED OF SILVER CHLORIDE AND SILVER SULFIDE AND METHOD OF MAKING SAME

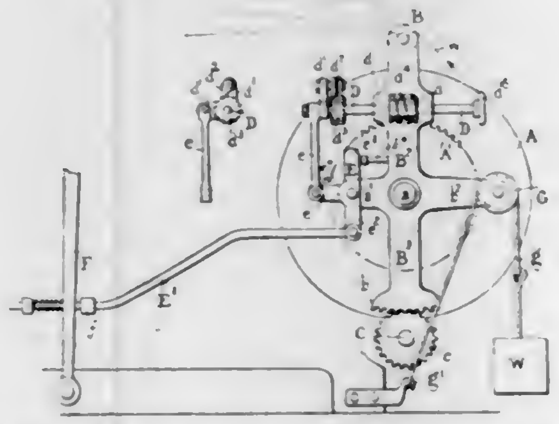
Harry C. Kremers, Cleveland Heights, and Robert E. Price, Cleveland, Ohio, assignors to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
Application October 5, 1944, Serial No. 557,356
8 Claims. (Cl. 88—109)

1. A solid optical body composed of silver chloride and silver sulfide, said silver sulfide being intimately associated with said silver chloride and being present in approximately that proportion necessary to render said body opaque to visible light, said body being highly transparent to infra red rays.



2,420,957
WARP LET-OFF MOTION OF LOOMS FOR WEAVING

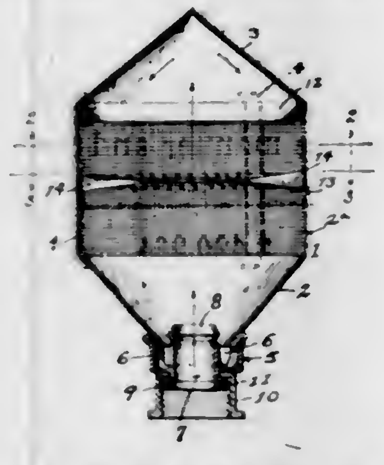
Henry Lakeland, Frenchwood, Preston, England
Application December 3, 1945, Serial No. 632,330
In Great Britain November 28, 1944
5 Claims. (Cl. 139—110)



1. A warp let-off motion of a loom for weaving comprising the combination with a warp beam from which the warp is unwound of a pair of swinging arms, one at each end of the warp beam and journalled about an axis concentric with the axis of the said beam, a back carrier roller over which the warp passes rotatably mounted in said arms a toothed segment on one end of each arm, a shaft parallel to the axis of the warp beam, a toothed wheel affixed on said shaft gearing with the segment on one arm, a second toothed wheel affixed on shaft gearing with the segment on the other arm whereby the two arms will move in unison and weighting means for influencing said arms to cause the back carrier roller to apply tension to the warp passing over it.

2,420,958
IRRIGATOR

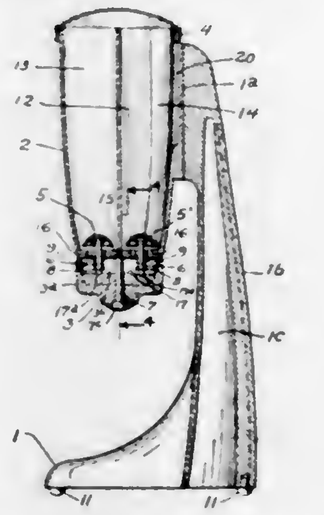
William L. Landreth, Tucson, Ariz.
Application April 3, 1945, Serial No. 586,311
5 Claims. (Cl. 299—107)



1. In an irrigating device, the combination of a casing, a slotted collar on the outside of said casing and surrounding its lower end, a nozzle sleeve fixedly secured to said slotted collar and extending into said casing above said slotted collar, and a hose coupler on said nozzle sleeve.

2,420,959
COMBINED DRINK MIXER AND DISPENSER

Donald C. Lanese, Scarsdale, N. Y.
Application October 19, 1945, Serial No. 623,193
3 Claims. (Cl. 225—26)

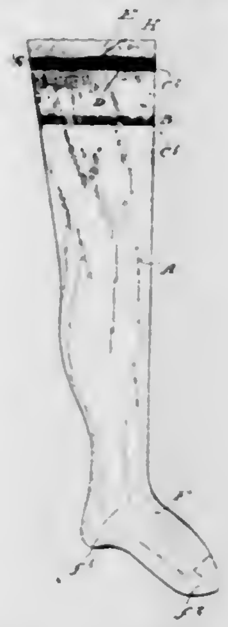


1. In a combined drink mixer and dispenser of the character described, comprising in combination a base member having an upright bracket portion provided with a female tapering dove-tail or groove portion at the top thereof, a vase-like bowl member provided with a male tapering dovetail portion secured into said female dove-tail or groove portion of said bracket portion of base, said bowl having a V-shape partition providing a small and a large size compartment on each side thereof, the floor portion of each compartment provided with a rubber-like sealing valve member secured onto a stem member extending and operable through said floor portion, apertures provided concentrically with said stem and normally sealed by said valve which is controlled by a compression spring onto underside of said floor portion, a cam and dispensing cap-like member secured by a center pivotal screw-bolt to underside of said floor portion, a ridge-like cam portion extending midway of a recessed portion within said cap-like member, said cam portion have diverging portions downwardly into trough-like portions on each side thereof, said trough-like portions provided with dispensing openings, said cap-like member adapted to be rotated by hand, whereby the ridge-like cam portion raises simultaneously each of said stem and valves in each compartment, from which liquor or fluids therein will flow through said apertures in predetermined proportions for the mixed drink that is dispensed through said openings in bottom of said cap-like member.

2,420,960
METHOD OF MAKING AND FINISHING STOCKINGS

Walter Larkin, Norristown, Pa., assignor to Fidelity Machine Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application March 5, 1946, Serial No. 652,024
1 Claim. (Cl. 28—74)

The process which consists in knitting a stocking unit to include a single ply welt, detachably interknitting a band of surplus fabric to a terminal edge of said welt, boarding said unit on a stocking form with adjacent areas of said welt and said band lying flatly against said form, processing the boarded unit to set it to the shape of said form, removing said unit from said form, dyeing and finishing said unit, replacing said unit



on a drying form with said adjacent areas again in flat contact with the form, drying the unit on the last said form, and subsequently detaching said surplus fabric from said welt along said terminal edge of the latter.

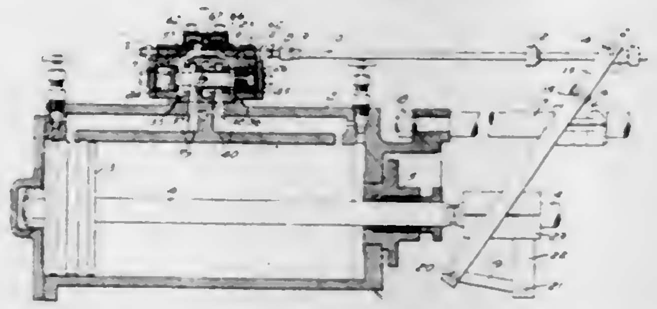
2,420,961

PILOT CONTROLLED STEAM DISTRIBUTING VALVE FOR RECIPROCATING EXPANSIBLE CHAMBER MOTORS

Eric J. Lifner, Newark, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware

Application December 14, 1945, Serial No. 635,089

4 Claims. (Cl. 121—157)



4. In a steam cylinder valve gear, a steam chest body having ports for admitting live steam to and exhausting steam from a cylinder, a first valve means co-acting with said ports for respectively controlling the flow of live steam and exhaust steam to and from the cylinder, and a second valve means carried by said first valve means for regulating the amount of live steam admitted to one of said ports for delivery to the cylinder.

2,420,962

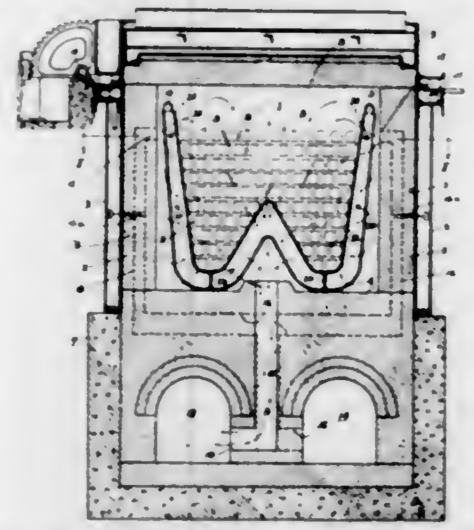
INDUSTRIAL FURNACE

Fred H. Loftus, Mount Lebanon, Pa.

Application September 8, 1943, Serial No. 501,526

13 Claims. (Cl. 263—40)

7. A pit furnace including a work-containing pit, a tunnel flue extending under the pit, means for supplying hot gases to said flue, inlet ports opening through the opposite side walls of the pit, said inlet ports being located adjacent to the top of the pit and being spaced apart in the longitudinal extent of said side walls, a second tunnel flue extending under said pit and communicating with an outlet for waste gases, outgo ports arranged in spaced-apart relation on the longitudinal center-line of the pit floor, passageways for waste gases leading from said outgo ports to said second tunnel flue, and a cradle for supporting a plurality of pieces of work, said cradle being of skeleton construction and of W-shape in cross section and arranged in said pit with the inverted V of the W centered with said line of outgo ports.



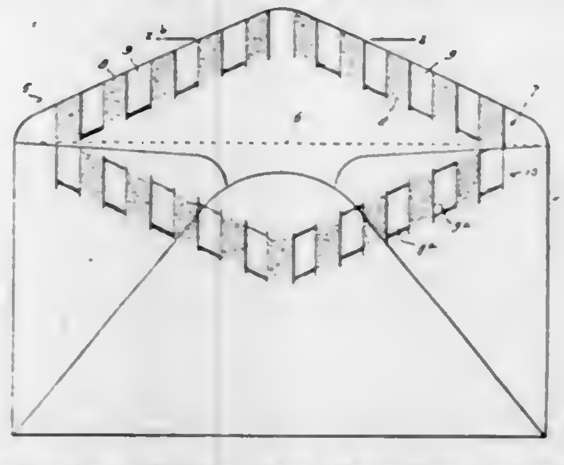
2,420,963

CLOSING FLAP FOR ENVELOPES AND THE LIKE

Edward Joseph Malo, Benton Harbor, Mich.

Application May 23, 1945, Serial No. 595,321

1 Claim. (Cl. 229—80)



An envelope of the class described comprising a body and closing flap therefor, the outer marginal edge portion of said flap being corrugated, the corrugations defining flutes, the flutes being alternately gummed and plain, that wall of the body with which said fluted area coacts also being corrugated, the latter corrugations matching corrugations on the flap, the corrugations on the body defining flutes and said flutes being alternately gummed and plain, and the respective flutes on the body and flap being staggered in relation to the placement of the gummed and plain flutes, in the manner and for the purposes described.

2,420,964

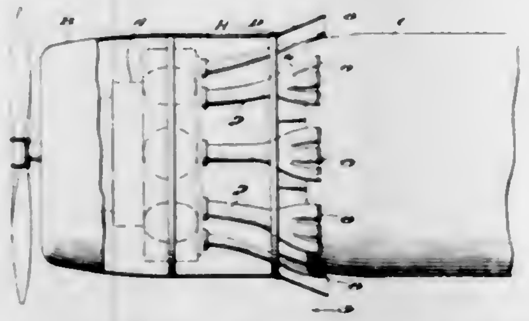
EXHAUST CONDUIT

Leslie T. Miller, Stoneleigh, Benjamin T. Salmon, Towson, and Curt L. Zitza, Baltimore, Md., assignors to The Glenn L. Martin Company, Baltimore, Md.

Application April 11, 1941, Serial No. 388,098

7 Claims. (Cl. 60—29)

1. An exhaust stack for an internal combustion engine comprising a first end portion of circular cross-section adapted to be secured to an engine cylinder, a second end portion flared outwardly from said first end portion and flattened to form an elongated discharge orifice, and means for forming baffles in and for reinforcing said second portion, said reinforcing and baffling means comprising plates inserted in said flattened portion, a strap surrounding said flattened portion, and means uniting said plates, strap, and flattened portion.



2. In combination with a double row radial aircraft engine, a cowling for said engine, and a nacelle spaced from said cowling to form a cooling opening therebetween: a separate exhaust stack for and secured to each cylinder of said engine and extending therefrom into said opening, and pivotal connecting means joining the stacks of adjacent cylinders in different rows of cylinders, each stack having a flattened discharge end forming an elongated discharge orifice positioned substantially in the plane of said cowling.

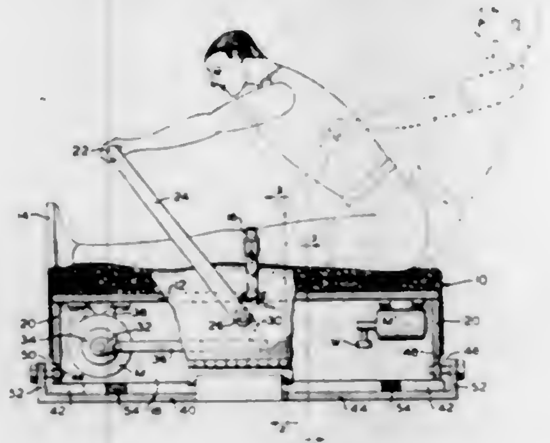
2,420,965

VIBRATING MOTOR-DRIVEN EXERCISING MACHINE THAT CAUSES WAIST BENDING

Nathan D. Mininberg, New York, N. Y.

Application February 27, 1946, Serial No. 650,496

4 Claims. (Cl. 128—33)



1. Apparatus of the class described, comprising a frame having a top for supporting the user, hand grip means positioned above said top and pivotally mounted on said frame at a point which is located forwardly of the user's hips when the user is seated on said top of the frame facing said hand grip means and grasping the latter, said hand grip means being movable longitudinally of the frame in opposite directions, and power-operated means carried by said frame and operatively connected to said hand grip means for moving the same alternately in said opposite directions whereby the user, when seated on said top of the frame facing said hand grip means and grasping the latter and with the user's legs extended horizontally on said top of the frame, is compelled to bend forward and backward at the waist in synchronism with said hand grip.

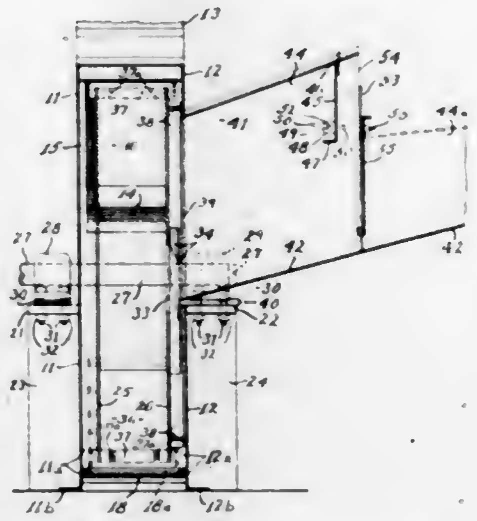
2,420,966

GRAIN AND ROUGHAGE CUTTER AND GRINDER

August W. Molz and James H. Parvin, Wichita, Kans.

Application October 21, 1944, Serial No. 559,812

4 Claims. (Cl. 146—107)



1. In a grain and roughage grinder; a housing, said housing having an intake opening in one of the side walls thereof, and a discharge opening in another of the walls thereof, a two walled rotor, and frame elements, said rotor being revolvably positioned within said housing and revolvably carried by the frame elements, the rotor wall adjacent the intake opening having comparatively large openings therein, knives, said knives radially positioned on the rotor and placed one at the trailing edge of each opening in the rotor plate, a shear plate, said shear plate being supported by one of the said frame elements and spanning the width of the intake opening and being in position for the said knives to shear there against, a sealing ring, said sealing ring spanning the space between the rotor and the housing wall having the intake opening therein and being positioned intermediate the outer edge of the rotor plate and the said openings therein, and plate means between said rotor walls for moving air inwardly through said intake opening and openings in said rotor wall, and discharging the air through the discharge opening, and hopper means for feeding material to and through said intake opening.

2,420,967

TURNSTILE ANTENNA

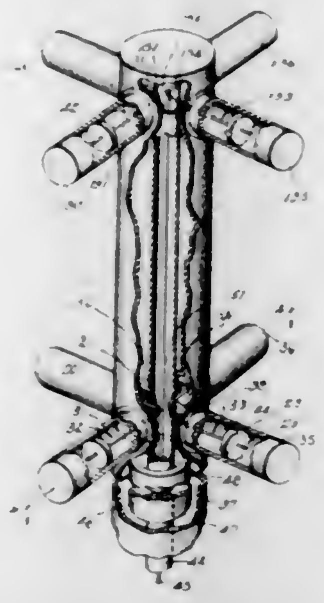
Robert C. Moore, Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application December 30, 1944, Serial No. 570,675

9 Claims. (Cl. 250—33)

1. A turnstile type of antenna comprising a support, four arms radiating from said support with said arms generally lying in a plane and having an angle of ninety degrees between adjacent arms, each arm comprising a metal member having a hollow interior, a conductor disposed within said interior and spaced therefrom, one pair of diametrically opposed arms forming a dipole and having a shorting member for each arm between the central conductor and the interior of said arm, the remaining two arms forming a dipole and having capacitive connections to their conductors, each of said arms having the interior functioning as a phasing sleeve, said arms and sleeves being so proportioned as to provide for a ninety-degree difference in phase between adja-

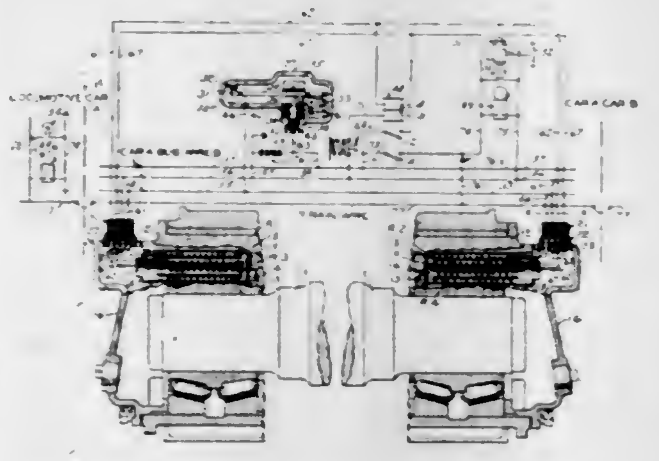
cent arms progressively around the four arms, and means for feeding the central conductors of two adjacent arms in phase and for feeding the central conductors of the remaining arms in opposed phase.



2,420,968

HOT JOURNAL ALARM APPARATUS

George K. Newell, near Pitcairn, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application March 30, 1944, Serial No. 528,710
2 Claims. (Cl. 177—311)

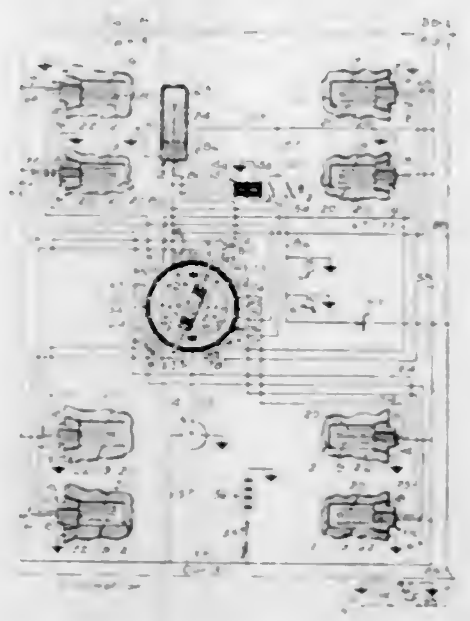


1. Apparatus for registering the heat condition in a given zone, said apparatus comprising a Wheatstone bridge circuit having a separate resistance element in each of the four legs thereof, two of said resistance elements being exposed to the heat condition in the given zone and the remaining two resistance elements being exposed to the heat condition in a different zone, means for intermittently impressing a voltage on said bridge circuit, said resistance elements being so arranged and connected that an unbalanced voltage is produced in said circuit while said voltage is impressed thereon upon a variation in the heat condition in the said given zone with respect to the heat condition in the said different zone, electrical relay means operatively responsive to the said unbalanced voltage when in excess of a certain value, means for maintaining said relay in its picked-up position notwithstanding cessation of the unbalanced voltage in said bridge circuit, signal means controlled by said relay, and means for restoring said relay to its dropped-out position.

2,420,969

HOT JOURNAL ALARM APPARATUS

George K. Newell, near Pitcairn, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application June 9, 1944, Serial No. 539,468
2 Claims. (Cl. 177—311)



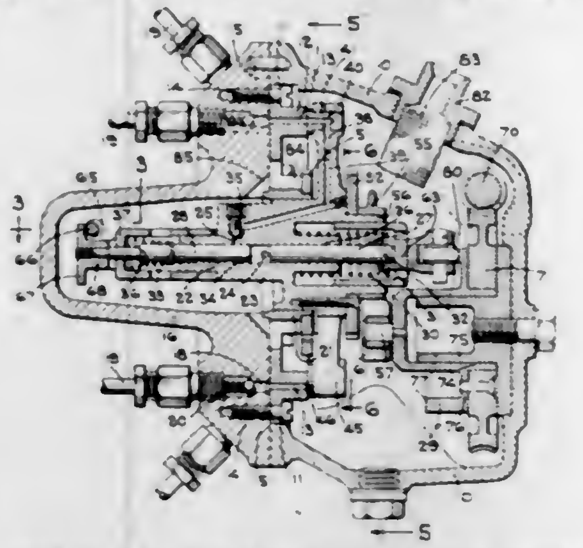
1. Apparatus for signaling the heat condition in any one of a plurality of zones, said apparatus comprising a plurality of resistance units each of which is disposed individually in a corresponding different one of said zones and each unit having two resistance elements uniformly affected by variations of temperature in the corresponding zone, a single additional resistance unit disposed in a certain different zone not subject to the temperature variations occurring in said plurality of zones, said additional resistance unit having two resistance elements uniformly affected by variations of temperature in the said certain different zone, a source of direct current voltage, a rotary selector switch device operative to progressively and periodically connect one of the resistance elements of each of said plurality of resistance units in series relation with one of the resistance elements of said additional resistance unit across said source of voltage and, simultaneously, also connect the other resistance element of the same one of said plurality of resistance units in series relation with the other resistance element of said additional resistance unit across said source of voltage, said resistance elements being further so disposed that each constitutes one arm of a Wheatstone bridge arrangement and that the simultaneous and uniform variation of resistance of both of the resistance elements of any one of said plurality of resistance units produces an unbalanced voltage condition of the bridge arrangement, and electroresponsive means operatively responsive to a predetermined unbalanced voltage produced on the Wheatstone bridge arrangement.

2.420.970

APPARATUS FOR DELIVERING LIQUIDS AND VISCOUS MATERIALS

Harry Parker, Kings Heath, Birmingham, and Thomas Carlyle Ellison Rowland, Solihull, England
Application November 11, 1944, Serial No. 563,066
In Great Britain February 10, 1944
16 Claims. (Cl. 103—2)

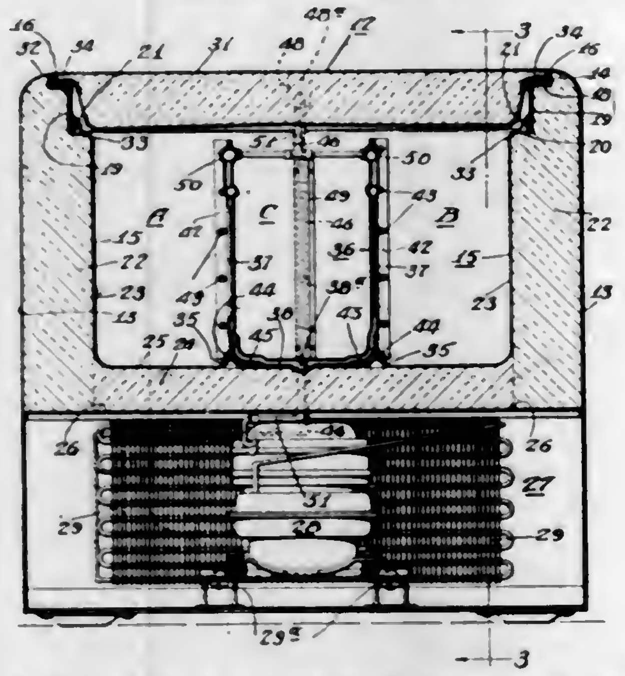
1. Apparatus for delivering liquids, comprising a hollow body through one end of which extends a plurality of delivery openings, the inner ends of which are disposed in a circular row, a rotary distributor arranged in said body co-axially with said row of openings, a pump in said distributor, a radial arm on said distributor, said pump and said arm having a delivery passage for liquid, said arm having a facing engaging said body and the delivery passage extending through said facing and registering in turn with the ends of each of said delivery openings said facing engaging at each delivery stroke of the pump only a small marginal area of the body around the delivery opening with which the delivery passage registers, means for operating the pump, means for rotating the distributor with a step by step motion to bring the end of the delivery passage successively into register with the ends of each of said delivery openings, said pump having a plunger reciprocating in the distributor parallel to the axis thereof, and means for transmitting the pressure of said plunger, on the working stroke only, to the rotary distributor to effect a pressure seal between the facing on its arm and the part of the body with which it engages.



2,420,971

MULTITEMPERATURE REFRIGERATOR

Frank D. Peltier, Horsham, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application December 31, 1943, Serial No. 516,521
7 Claims. (Cl. 62—99)

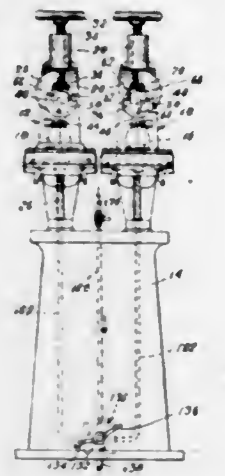


1. A refrigerator comprising an outer shell, an inner liner within and in spaced relation to said shell and having a bottom and side walls, said bottom wall having transverse dam members, and a substantially U-shaped evaporator having outwardly flaring flange portions at the bottom of each vertical side wall thereof and forming with the latter saddles for straddling said dam members thereby to provide means for rapidly and accurately positioning said evaporator in the liner.

2,420,972

SHOE SOLE PRESS

Angelo Perri, Groveland, Mass., assignor to Allied Shoe Machinery Corp., Haverhill, Mass., a corporation of Massachusetts
Application January 13, 1945, Serial No. 572,621
10 Claims. (Cl. 12—36)

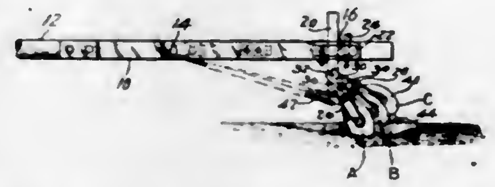


8. A shoe sole press comprising an inflatable jaw for coacting with a second jaw to compress a shoe and sole between them, a fixed support on which said inflatable jaw is loosely supported, said inflatable jaw comprising two molded sections and a rigid clamp extending all around the jaw securing the sections together to provide a generally rectangular, hollow jaw having relatively large top and bottom walls which are adapted to spread widely apart when the jaw is inflated, with said clamp preventing lateral spreading of the jaw and free to rise and fall with inflation and deflation of the jaw, said second jaw being pivotally mounted for swinging laterally to and from coacting relation to the inflatable jaw when the latter is deflated.

2,420.973

CULTIVATOR PLOW

Christian Petersen, South Windsor, Conn.
Application January 26, 1944, Serial No. 519,706
3 Claims. (Cl. 97—54)



1. A plow mechanism comprising in combination; a supporting frame; a plurality of plow assemblies respectively mounted on said frame for relatively independent movement in accordance with the contour of the soil and each comprising a substantially vertical standard secured to said frame, a bracket having leg means projecting therefrom and pivoted adjacent the outer end thereof to said standard, each bracket also having a plurality of spaced means projecting therefrom oppositely but substantially parallel to said leg means, and similar disc plows respectively pivotally supported on the outer end of each of said spaced means, the distance between the pivots of each plow and leg means being slightly greater than the diameter of said plows

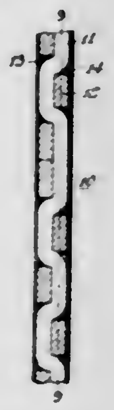
and during operation said bracket extending rearward and downward along a line between said pivots of said leg means and plows, whereby said bracket and plows during use may move through substantial angles about the pivot of said leg means thereof and relatively small angular movement produces proportionately great movement of said plows in a vertical direction; and spring means respectively connected to said frame and each bracket, said spring means biasing each bracket forward and downward.

2,420,974
SEAT COVERING

John J. Petroske, Methuen, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y., a corporation of New York

Application June 8, 1945, Serial No. 598,289

7 Claims. (Cl. 117—68)



1. A slip cover material comprising a flexible base of interwoven paper fibre strands, the paper fibre normally having an affinity for lacquer, said base being separated into two zones, each zone including its adjoining surface, the surface of one of said zones being impregnated with a relatively inexpensive waterproofing agent containing a water soluble aluminum salt and wax, said agent forming a dry, transparent, moisture-repellent flexible coating, which does not visibly enhance the color of the paper fibre, upon the impregnated surface, the fibre of the other zone and of its purposely untreated surface retaining an affinity for lacquer, and a coating of lacquer comprising shellac applied to the surface of said untreated zone to form a transparent, glossy, washable, dry, flexible coating which enhances the lustre of the fibres and prevents fading thereof.

2,420,975
PROCESS OF PRODUCING A SOLID PENTACHLOROPROPANE

Ralph E. Plump, Haddonfield, N. J., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application May 27, 1943, Serial No. 488,737

5 Claims. (Cl. 260—658)

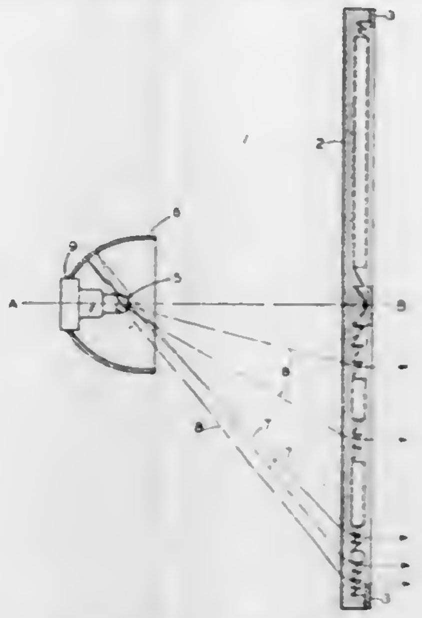
1. The steps of producing a solid pentachloropropane-containing product in which a solid pentachloropropane isomer having a melting point of about 180° C. predominates and from which said isomer may be separated, which comprises introducing chlorine into 1,1,1,2,tetrachloroprane at a temperature between about 65° C. and 180° C. until one hydrogen atom of said tetrachloropropane is replaced by a chlorine atom to produce said pentachloropropane isomer, and thereafter recovering the solid product containing said solid pentachloropropane isomer from the reaction mixture.

2,420,976
ILLUMINATED SIGN

Wentworth M. Potter, Lyndhurst, Ohio, assignor to General Electric Company, a corporation of New York

Application July 3, 1944, Serial No. 543,323

6 Claims. (Cl. 40—133)



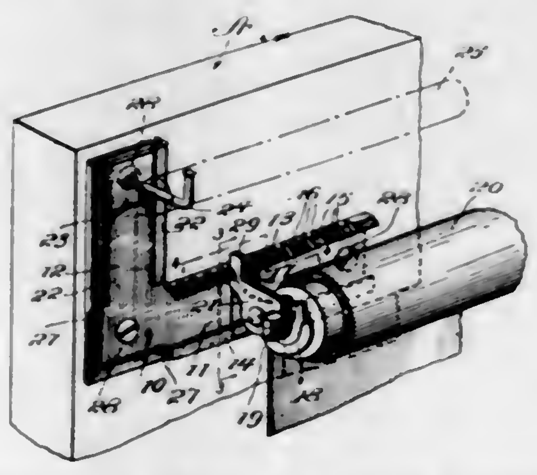
6. An illuminated sign comprising a stencil type letter and a source of brightness for said letter, said source consisting of an optical system comprising a light concentrating lens which refracts light from its focal point into parallel rays and the apparent brightness of which decreases outwardly from its center under uniform illumination, a light source at the lens focal point and an ellipsoidal reflector about said source, said reflector being symmetrical with its major axis, said light source being adjacent but offset from one focus of said reflector so that the reflected light impinges on said lens at angles suitable for refraction into parallel rays and the illumination by reflected light on said lens increases outwardly from the center of the lens to increase the apparent brightness of the outer areas of said lens, said letter covering said lens except for the lens portion visible through the perforations in said letter and having strokes radiating and increasing in width from its center.

2,420,977
ADJUSTABLE WINDOW SHADE AND CURTAIN BRACKET

Walter W. Pye, Richmond, Va.

Application February 9, 1945, Serial No. 576,987

2 Claims. (Cl. 248—258)



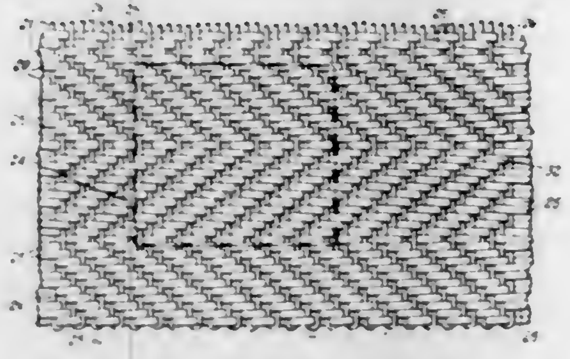
1. A bracket of the kind described, comprising a base member having horizontally and vertically directed arms, respectively, a shade hanger slidably fitted to the horizontal arm, and a curtain hanger slidably fitted to the vertical arm, and means for locking the shade hanger in adjusted position on the horizontal arm, and also latching a roller for the shade in said hanger.

2,420,978
LADDER TAPE

Lawrence J. Rasero, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut

Application September 9, 1946, Serial No. 695,610

14 Claims. (Cl. 139—384)



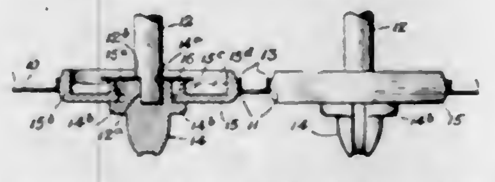
1. A ladder-tape including: two main tapes, and ladders interconnecting said main tapes at areas-of-junction with said main tapes; each main tape being mainly formed by warp strands interwoven with weft-picks by a weave in which warp-floats of each group of a plurality of groups of warp-floats at a plurality of locations longitudinally and transversely of each main tape, float over a common weft-pick in side-by-side contact with one another at said common weft-pick; and each ladder having ladder warp strands, each of a plurality of said ladder warp strands being looped over a said common weft-pick and between said common weft-pick and the space occupied by said side-by-side-in-contact warp-floats of a said group of warp-floats, at a said common weft-pick, at a plurality of locations in each said area-of-junction, longitudinally of the main tapes.

2,420,979
OPERATING KNOB AND ESCUTCHEON PLATE ASSEMBLY

Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts

Application July 14, 1943, Serial No. 494,632

5 Claims. (Cl. 137—111)



1. An operating knob and escutcheon plate assembly for use on an operating stem projecting generally centrally through a substantially larger hole in a fixed panel comprising, in combination, a knob adapted to be non-rotatably fixed to the projecting end of the stem, a washer on the stem, an abutment on the stem adapted to hold said washer in spaced relation to the projecting end thereof, and an escutcheon plate disposed between the knob and washer and having a central opening for passage of the stem through it with wide clearance about all portions of the projecting end of the stem and having a border portion peripherally dimensioned to fit accurately within the panel hole, said knob having a portion overlying and bearing against the front face of said escutcheon plate and completely covering the opening in the plate, said knob being removable from the stem to allow installation of the plate after assembly of the stem with the panel.

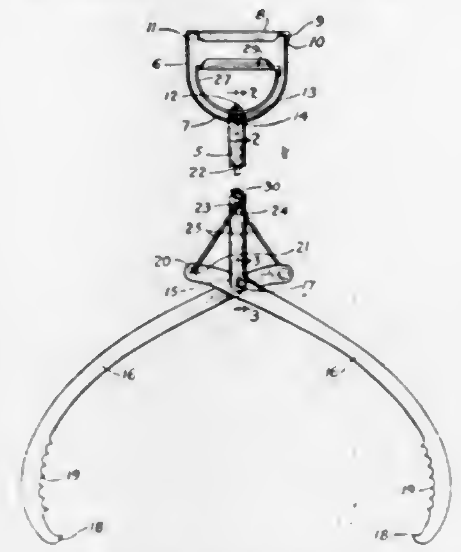
2,420,980
TONGS

William Reise, Ottawa, Ontario, Canada

Application August 7, 1944, Serial No. 548,427

In Canada July 24, 1944

3 Claims. (Cl. 294—115)



1. Tongs comprising: a hollow stem, a shoulder formed near the upper end thereof and a reduced threaded part rising therefrom, a rod slidably mounted in said stem and having a shoulder formed near the upper end thereof and a reduced threaded part rising therefrom, a pair of handle grips mounted respectively on said reduced threaded parts at the upper ends of said stem and rod and secured thereto, slots formed at the lower end of said stem and extending inwardly therefrom, a pair of crossed jaws disposed in said slots and pivoted to said stem, teeth on the confronting faces of the outer free ends of said jaws, links pivoted to the inner ends of said jaws above the pivot mounting thereof, a transverse pin connected to said rod and to which said links are connected, a pair of oppositely disposed slots formed in said stem in which said pin may slide, and a coil spring disposed within said stem, surrounding said rod and compressed between the shoulder at the upper end of said stem and the transverse pin connected to said rod.

2,420,981
FUEL OIL BURNER

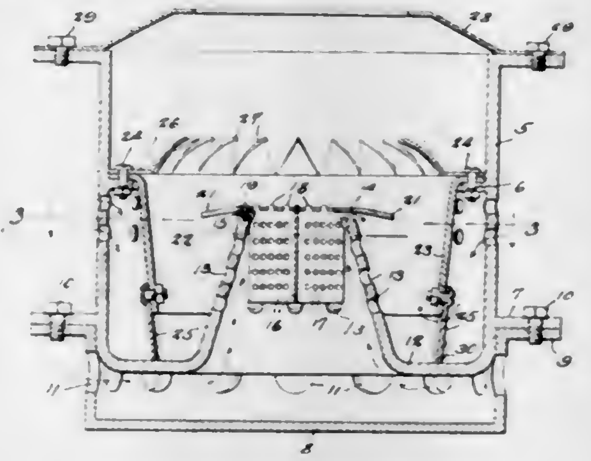
Thomas De Witt Rivers, Portsmouth, Va.

Application March 26, 1945, Serial No. 584,831

2 Claims. (Cl. 158—91)

1. In a liquid fuel burner, a casing having sides, a bottom wall and an open top, a portion of the bottom of the casing being frusto-conical shaped open at its top and extending upwardly in the casing, a pipe through which fuel oil is directed to the bottom, the frusto-conical shaped portion of the bottom having openings formed in the wall thereof, and adapted to admit air to the casing above the fuel oil level in the casing, an apron supported within the casing, the lower edge of the apron being spaced from the bottom dividing the lower portion of the casing into a combustion chamber and an air passageway, said casing having air openings disposed opposite to the apron, through which air enters the air passageway, and means disposed within the frusto-coni-

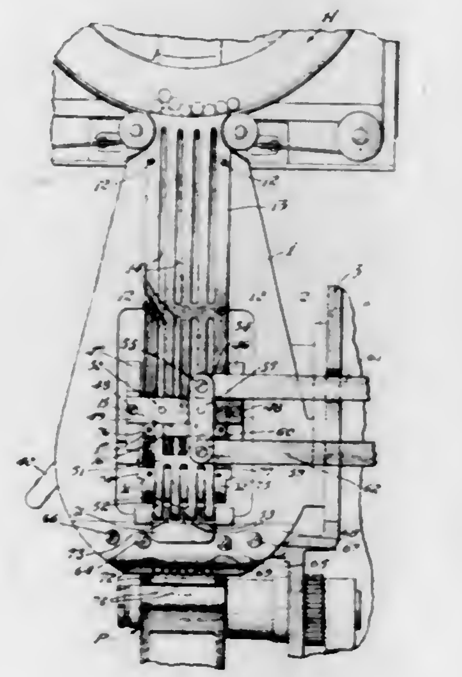
cal portion of the bottom for equally distributing the air passing upwardly through the frusto-coni-



cal portion of the bottom into the casing above the upper end of the frusto-conical shaped portion.

2,420,982
ARTICLE-FEEDING MECHANISM

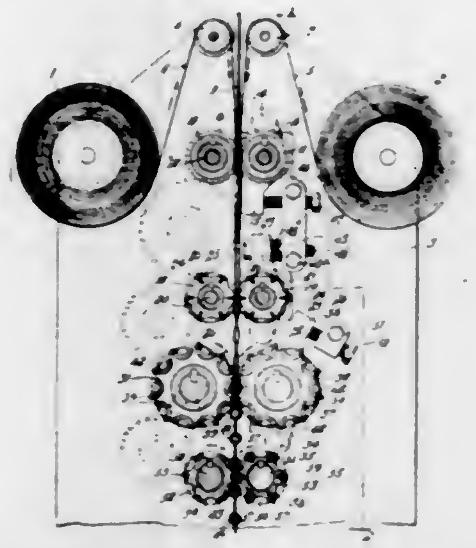
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application October 25, 1944, Serial No. 560,306
11 Claims. (Cl. 93—3)



10. An article-feeding structure for cooperation with a packaging machine for packaging the articles, comprising a frame, a chute supported by the frame and having at least one approximately vertical longitudinal channel for receiving the articles at the top of the frame from a source of supply, a block permanently fixed to the lower end of the frame and having channels corresponding in number to those in the chute and extending in the same general direction, a block movably positioned between the fixed block and the lower end of the chute and having channels the same in number as those in the chute and fixed block, and means for shifting the movable block so it will pick up a predetermined number of articles from the chute and then shifting said block so its channels will be in alignment with the corresponding channels in the fixed block, whereby the articles in the movable block will fall into the channels in the fixed block for subsequent discharge into a package, said movable block being carried on the lower end of a vertical arm which is mounted at its upper end above said block to swing on a horizontal axis, the arm having means adapted to be acted on by means operated by the packaging machine.

2,420,983
METHOD OF AND MACHINE FOR PACKAGING

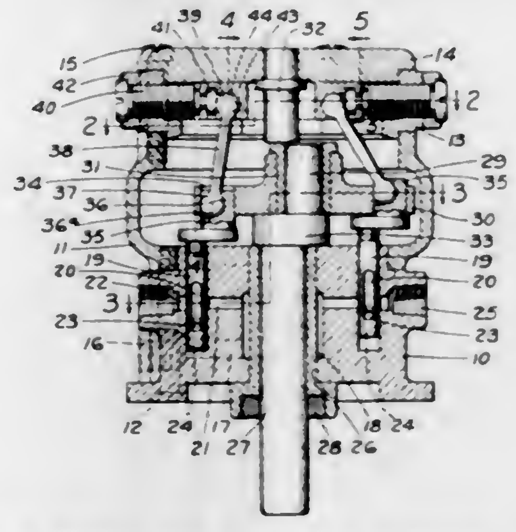
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application May 12, 1945, Serial No. 593,429
15 Claims. (Cl. 93—3)



1. A machine of the character described comprising means for feeding strips of ductile material, opposed heated devices having projecting portions for heat sealing the strips along their edges, opposed heated devices having projecting portions for heat sealing said strips transversely at spaced intervals therealong and opposed die members having grooved portions for forming chambers in said strips between said transverse seals and having surfaces for cold pressing said strips between said chambers and the heated sealed portions.

2,420,984
HYDRAULIC PUMP

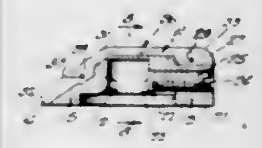
Ralph H. Shepard, New York, N. Y., assignor to Nathan Manufacturing Company, New York, N. Y., a corporation of New York
Application October 25, 1945, Serial No. 624,476
8 Claims. (Cl. 74—22)



4. In a pump comprising a cylinder, a rotary and reciprocatory piston in the cylinder, an eccentric extension carried by the piston, an actuating member, a rotary shaft eccentrically connected to said member, said eccentric extension being movably fitted to said member whereby said piston is rotated, means to reciprocate the piston including a link having a ball terminal at each end, one of the ball terminals being movably fitted within a socket of the eccentric extension of said piston, a support, a regulating block, slidingly fitted within said support and laterally displaced with reference to the piston axis, having a socket shaped to fit the other ball terminal of said link, said socket having a lot at its side for the insertion of said other terminal, and a screw in said support, secured to said block, closing the slot of the socket in said block to prevent disengagement of said other terminal after insertion and to vary the lateral displacement of the block.

2,420,985
INDICATING KNOB FOR SWITCHES AND THE LIKE

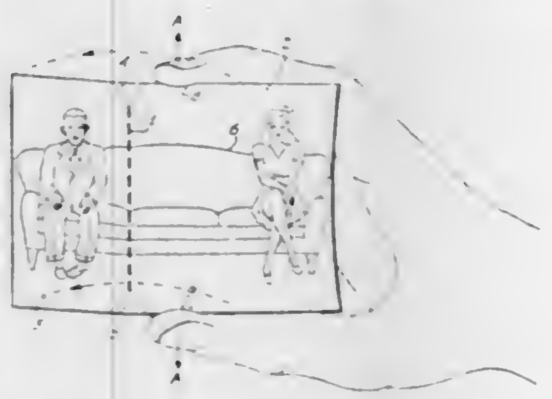
Ray Simpson, River Forest, Ill.
Application March 10, 1945, Serial No. 582,079
3 Claims. (Cl. 74—553)



1. In an indicating knob for electric switches and the like, an elongated body of substantially rectangular form in plan and elevation having at one end a downwardly and laterally tapered pointer formation, said body having a centrally located lower bore molded therein for receiving the end of a shaft and having a longitudinally extending threaded bore located in the end opposite to said pointer formation communicating with said first mentioned bore and provided with a clamping screw, said body having molded in its upper surface and in the forward tapered surface of said pointer formation an elongated metal strip embedded in a groove and provided with through apertures through which the molded material of the knob extends to anchor the strip in its groove, said strip having a horizontally extending portion in the upper surface of said knob, and a diagonally downwardly extending portion in the upper surface of the pointer formation serving as a visible indicator mark for the pointer.

2,420,986
ARTICLE FOR SIMULATING ANIMATION

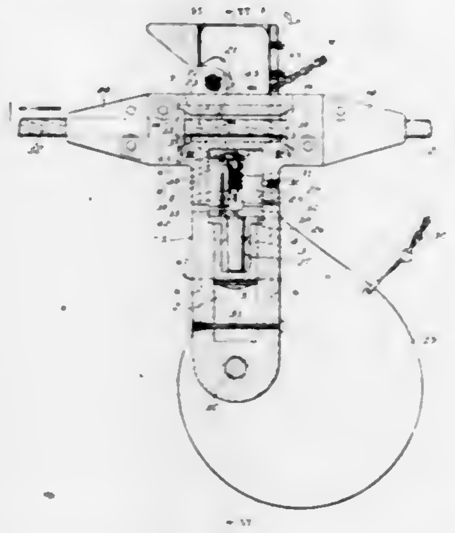
Alva T. Smith, Milwaukee, Wis.
Application May 7, 1945, Serial No. 592,474
4 Claims. (Cl. 46—36)



1. In an action display the combination comprising a single continuous card-like sheet member having a width easily spanned by the fingers of a hand, a transverse intermediate line of weakness in said sheet member traversing less than the width thereof and terminating short of its side margins adapted to provide a central easily hinged zone terminating in resilient normally unflexed more difficultly hinged zones at each end thereof adjacent the side edges of said sheet member, said line of weakness serving to divide said sheet member into a grip portion adapted to be held at its side edges between the fingers and arched under compression applied thereby and a free portion adapted for flexing movement toward and away from said grip portion and compelled thereto by alteration of the degree of arching of said grip portion, whereby said free portion may be caused to move rapidly to cover said grip portion upon application of arching pressure to said grip portion and to move to expose said grip portion on release of said arching pressure.

2,420,987
MINE CABLE CUTTER

Robert Temple, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc., a corporation of Delaware
Application December 31, 1941, Serial No. 425,027
17 Claims. (Cl. 114—221)

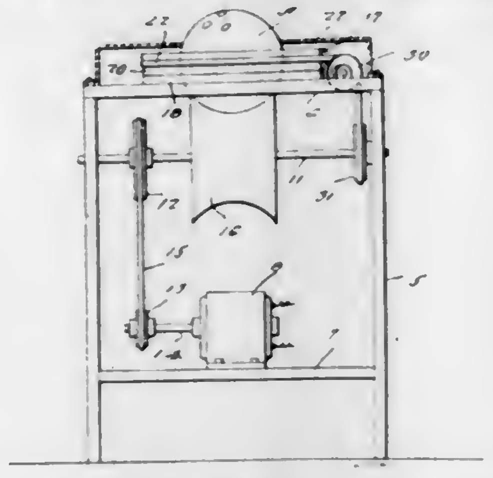


2. A mine cable cutter comprising a frame provided with a guideway, a hollow piston slidably mounted therein, a knife slidably mounted in said frame and connected to the piston, said knife being provided with a cable-receiving and cutting recess, a tubular cartridge-retaining member mounted in fixed position in said frame and projecting into said piston, a spring pressed firing pin for the cartridge, and means operable by a cable entering said recess for releasing the firing pin.

2,420,988
BOWLING BALL CLEANER AND POLISHER

Albert Henry Tholen, Clara City, Minn.
Application May 10, 1944, Serial No. 534,917
2 Claims. (Cl. 15—97)

1. A ball cleaning and polishing device comprising a stand for supporting the ball, a ring mounted on top of the stand in horizontal position for receiving a ball placed therein and being rotatable about its axis, a cleaning and polishing liner in said ring adapted to be rotated thereby about the ball in wiping engagement therewith, a ball spinning rotor, means to mount said rotor on the stand beneath the ring to support the ball in said ring including a drive shaft for the rotor,



a belt and pulley connection between said shaft and said ring whereby said shaft simultaneously rotates said ring and said rotor, and means for driving said shaft.

2,420,989

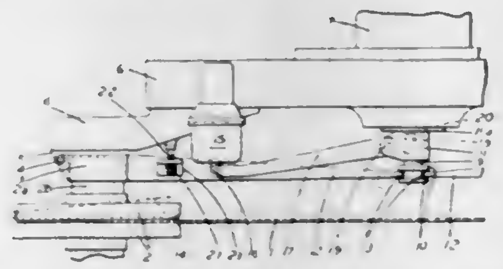
METHOD AND APPARATUS FOR POLISHING FLAT GLASS

Frederic Barnes Waldron, Prescot, England, assignor to Pilkington Brothers Limited, Liverpool, England, a British company

Application March 30, 1945, Serial No. 585,684

In Great Britain March 28, 1944

3 Claims. (Cl. 51—120)



2. Apparatus for polishing flat glass comprising a plurality of polishing pads each carried on a disc rigidly mounted on a pin disposed as a normal to the respective disc, each said pin being in turn connected by a support to a rotatable frame mounted to rotate over the glass and cause each polishing pad to travel on the glass in a circular path, characterized in that each pin support is constituted as a socket to house a pin and is mounted on the frame about a chordwise axis disposed in a plane parallel to the plane of the pads to be tiltable relatively to the frame, setting means adapted to dispose each socket in a predetermined normal position for polishing, and means for actuating said setting means during the rotation of the frame to outwardly tilt the sockets from the said normal position to a predetermined tilted position, whereby the pads may be deflected from the normal position to a predetermined extent for the purpose specified and to return the sockets to normal position.

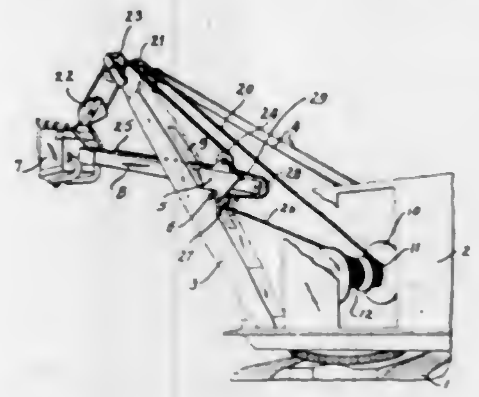
2,420,990

PORTABLE EXCAVATOR

Fred L. White, Marion, Ohio, assignor to The Osgood Company, Marion, Ohio, a corporation of Ohio

Application June 11, 1945, Serial No. 598,804

6 Claims. (Cl. 214—135)



1. An excavator comprising an upper body; a boom on said upper body; a pivoted saddle block on said boom; a dipper; a handle for said dipper received in said saddle block; a pair of winding drums on said upper body; a cable anchored near one end of said handle connected to one of said winding drums and operatively associated with said dipper to hoist and retract said dipper; a cable connected to the other winding drum and to the other end of the handle to crowd said dipper; and clutch and brake means associated with said drum to selectively control the operation of each winding drum.

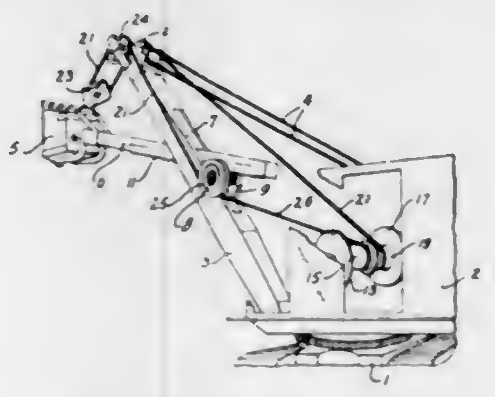
2,420,991

PORTABLE EXCAVATOR

Fred L. White, Marion, Ohio, assignor to The Osgood Company, Marion, Ohio, a corporation of Ohio

Application June 11, 1945, Serial No. 598,805

7 Claims. (Cl. 214—135)



1. In a portable excavator; an upper body; a boom on said upper body; a dipper and handle assembly; a shipper shaft on said boom; means on said shipper shaft to engage said handle; a drum on said shipper shaft; a pair of winding drums on said upper body; a cable connecting said shipper shaft drum and one of said winding drums and operatively associated with said dipper to hoist and retract same; a cable connected between the other of said winding drums and said shipper shaft drum to crowd said dipper; said cables wound in opposite directions on said shipper shaft drum and wound thereon from the lower side of said drum; and means to selectively control the operation of said winding drums to selectively reversely rotate said shipper shaft to hoist, retract or crowd said dipper.

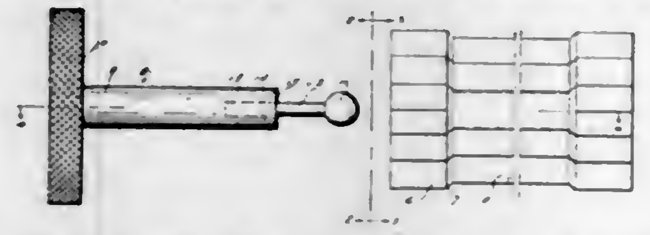
2,420,992

TOOL FOR REMOVING CARTRIDGE CORE TUBES IN RADIATORS

Wayne E. Wilson, Grant Park, Ill.

Application March 29, 1944, Serial No. 528,644

2 Claims. (Cl. 29—280)



1. A tool for removing core tubes in radiators comprising a hand grip, a rotary structure projecting from the hand grip and provided with teeth at its outer end adapted to cut off core tube ends, and a pilot for the outer end of the rotary member comprising a relatively smaller shank extending axially from said outer end and a spherical end on said shank.

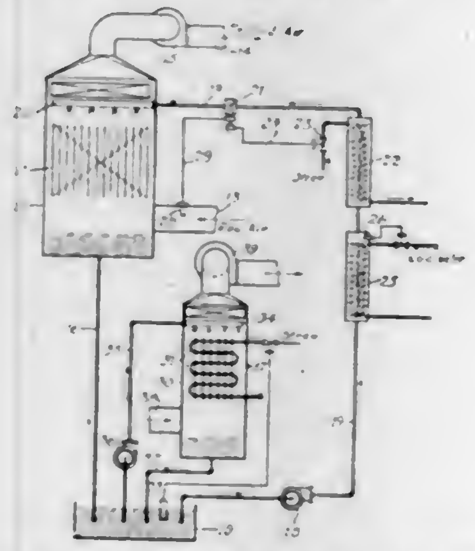
2,420,993

AIR CONDITIONING APPARATUS

Gilbert A. Kelley, Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio

Application November 11, 1943, Serial No. 509,928

1 Claim. (Cl. 236—44)



In apparatus for treating air to produce a stream of air of substantially constant water vapor content, the combination which comprises a dehydrating chamber to which initially separate streams of air and hygroscopic liquid are conducted for intimate contact with each other, means comprising an adjustable control means which is responsive to the temperature of the hygroscopic liquid being conducted to said chamber for maintaining the said temperature substantially constant depending on the setting of said control means, and means comprising a wet bulb thermostat responsive to the wet bulb temperature of the full complement of the air being conducted to said dehydrating chamber for adjusting the setting of the said control means in such direction as to insure an increase or decrease in the temperature of the said liquid in accordance as the said wet bulb temperature decreases or increases, respectively.

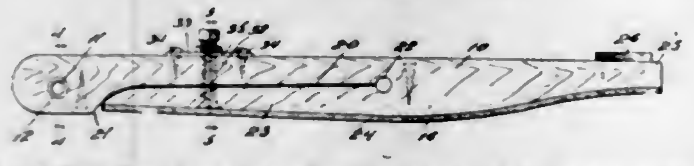
2,420,994

SHUTTLE BOX BINDER FOR LOOMS

William Languirand, New Bedford, Mass., assignor to Textile Research Co., a corporation of Massachusetts

Application October 19, 1945, Serial No. 623,208

4 Claims. (Cl. 139—185)



1. A binder for the shuttle box of a loom comprising a body having a swell and a longitudinal slot opening into the shuttle engaging side of the binder providing a longitudinally extending resilient tongue integral with the body of the binder with a surface in continuation of the swell, and a threaded member extending through the body for engaging said tongue to adjust the position thereof relative to the body.

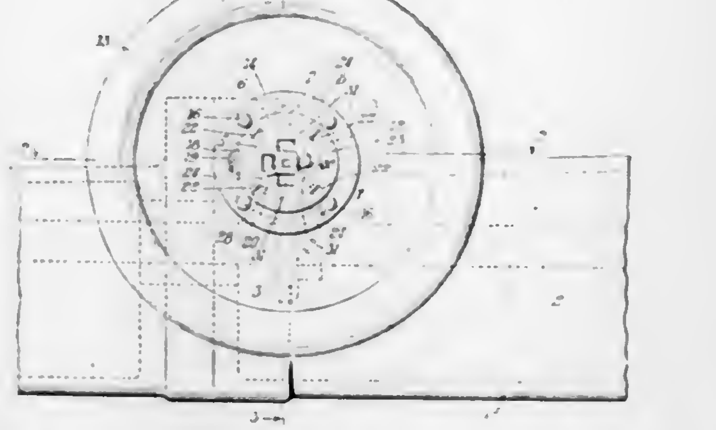
2,420,995

CLUTCH MECHANISM

Henry C. Nissen, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application July 20, 1944, Serial No. 545,751

5 Claims. (Cl. 74—407)



1. In a mechanism of the character described, the combination of a power-driven shaft element, a hand-wheel element mounted with freedom for movement relatively to the shaft element both rotationally and axially thereof, a perforated clutch-plate associated with one of said elements for rotation therewith, bayonet-lock means associated with the other element for rotation therewith and adapted to interlock with the perforations of the clutch-plate in response to axial and rotational movement of the hand-wheel element relatively to the shaft element, the inertia of the hand-wheel element being such as to disengage said interlock in response to rotation of the shaft element.

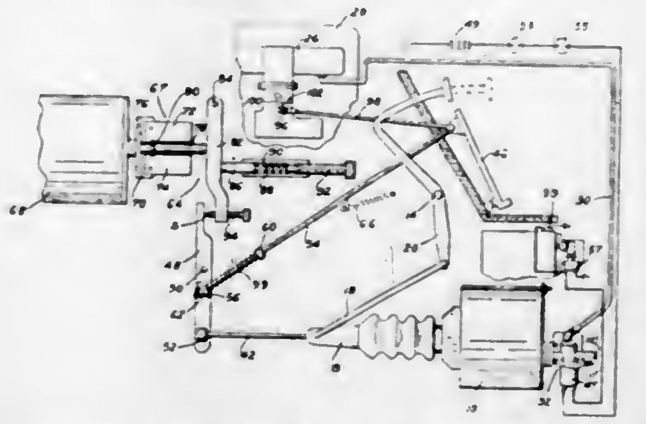
2,420,996

CLUTCH CONTROL MECHANISM

Harold W. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 31, 1942, Serial No. 464,129

9 Claims. (Cl. 192—.01)



1. In an automotive vehicle provided with an internal combustion engine, a governor driven by said engine, a throttle, an accelerator and a friction clutch having a driving plate and a driven plate; power means for operating said clutch comprising a pressure differential operated motor

having its power element operably connected to the driving element of the clutch, valve means for controlling the operation of said motor including two relatively movable members, and means for operating the throttle and one of said valve members comprising force transmitting means interconnecting said member with the accelerator and governor, said force transmitting means being so constructed as to effect, when the accelerator is depressed a predetermined amount and before the throttle is opened, an operation of the valve mechanism to effect a first stage clutch engaging operation of said motor, said force transmitting means being also so constructed as to effect, by virtue of the operation of the governor, a second stage clutch engaging operation of said motor.

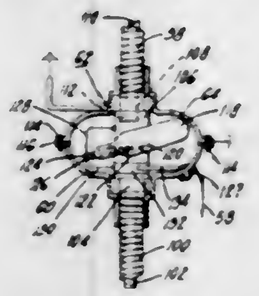
2,420,997
SWITCH MECHANISM

Harold W. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 29, 1943, Serial No. 512,163

1 Claim. (Cl. 200—80)

A combined switch and coupling unit adapted to be incorporated as a part of a rotatable drive shaft, said unit including an electrically grounded cup shaped casing member having tubular shaped base portion adapted to receive a conduit member, another cup shaped casing member having a tubular shaped base portion adapted to receive a conduit member, fastening means for detachably securing said cup shaped members together at their peripheral edges, said edges being separated by a gasket of electrical non-conductive material, a conduit member housed within the first mentioned tubular shaped base portion, a cable member housed within the latter conduit member, a conduit member housed within the second mentioned tubular shaped base portion, a cable housed within the latter conduit member, a switch support means connected to the latter cable and housed within the compartment provided by the two interconnected cup shaped casing members, means for drivably connecting the switch support means with the end of the first mentioned cable member, a switch housing member adjustably mounted on the switch support means, two fixed contact members housed within the switch housing member, a movable contact member within the switch housing member, said contact member adapted to be moved into contact with or away from the aforementioned two fixed contact members depending upon the rate of angular movement of the switch housing member, an electrical conductor interconnecting one of said fixed contact members and the switch support means, a slip ring mounted on the switch support means, a contact brush mounted on the second mentioned casing member and in contact with the slip ring and an electrical conductor member electrically connected with the brush member.



DESIGNS

MAY 20, 1947

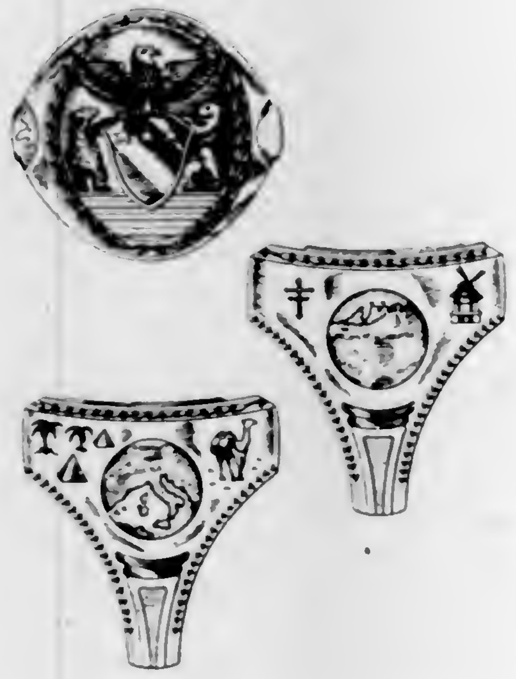
146,783
DESIGN FOR A FINGER RING

Lewis Baranov, Los Angeles, Calif.

Application December 8, 1945, Serial No. 124,552

Term of patent 3½ years

(Cl. D45—10)



The ornamental design for a finger ring, substantially as shown.

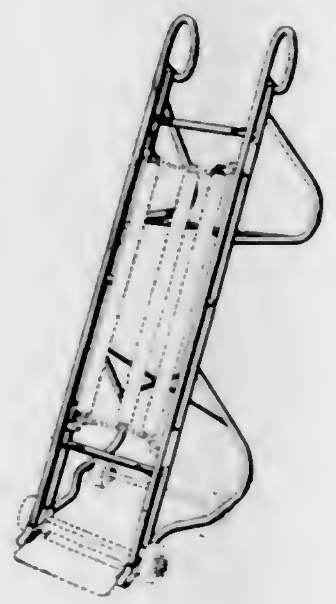
146,784
DESIGN FOR A COMBINATION ARTICLE CARRYING AND DISPLAY DEVICE

Leon H. Best, Galva, Ill., assignor to John H. Best & Sons, Inc., Galva, Ill., a corporation of Illinois

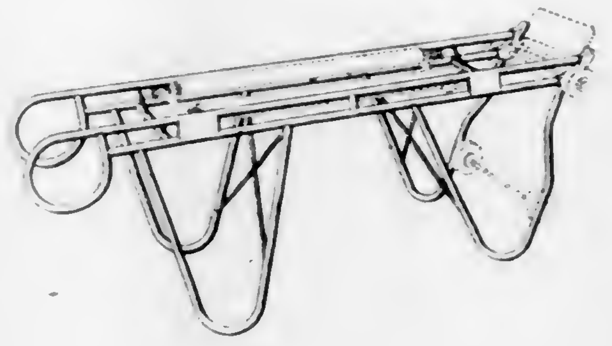
Application January 12, 1946. Serial No. 125,490

Term of patent 14 years

(Cl. D14—3)



146,784—Continued



The ornamental design for a combination article carrying and display device, substantially as shown and described.

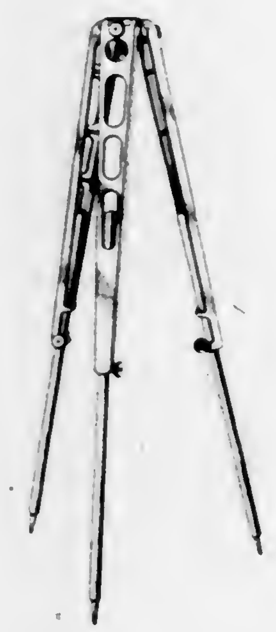
146,785
DESIGN FOR A TRIPOD

Everett Warren Billings, Jr., Los Angeles, Calif.

Application April 9, 1946, Serial No. 128,411

Term of patent 14 years

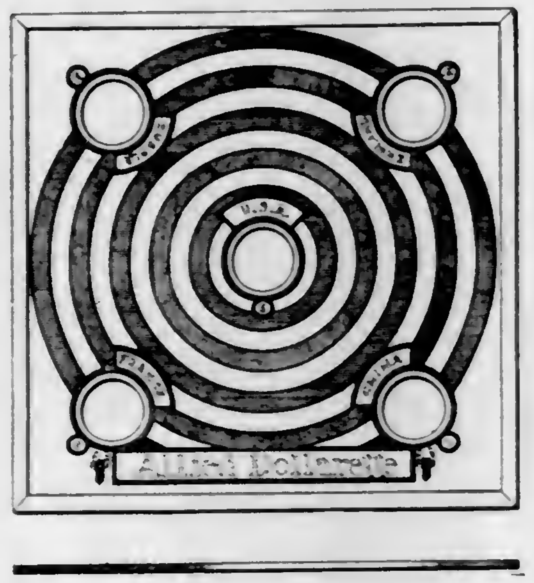
(Cl. D57—1)



The ornamental design for a tripod, substantially as shown.

146,786
DESIGN FOR A GAME BOARD

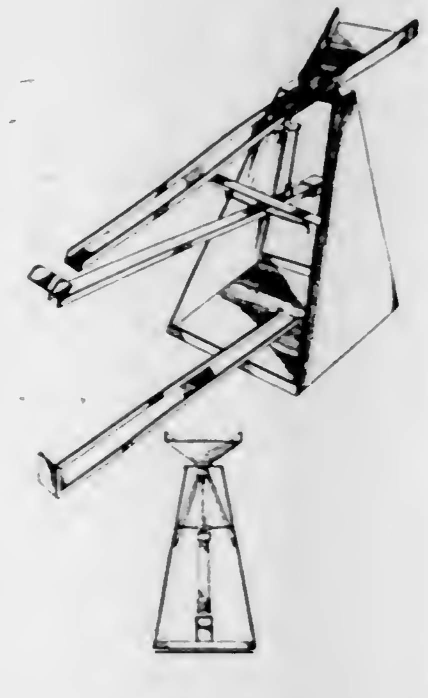
Dewey W. Camp, Jackson, and Oscar B. Loper, Hattiesburg, Miss.
Application December 10, 1945, Serial No. 124,570
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a game board, as shown.

146,787
DESIGN FOR A MARBLE-GAME TOY

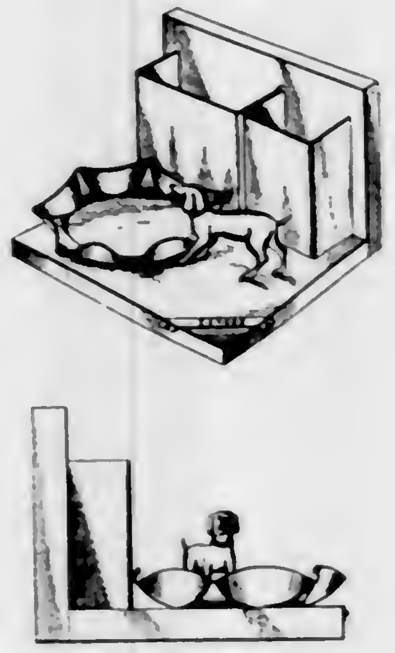
Jess W. Carter and Arthur E. Saunders, Los Angeles, Calif.
Application December 4, 1945, Serial No. 124,336
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a marble-game toy, as shown.

146,788
DESIGN FOR A COMBINED ASH TRAY AND HOLDER FOR SMOKERS' ARTICLES

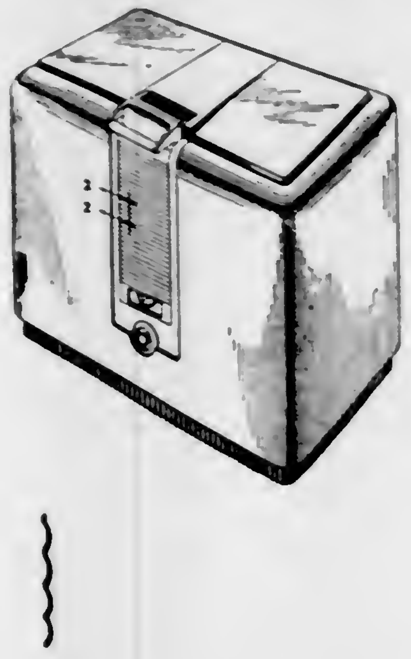
Claude B. Crane, Kansas City, Mo.
Application September 17, 1945, Serial No. 122,139
Term of patent 7 years
(Cl. D85—2)



The ornamental design for a combined ash tray and holder for smokers' articles, as shown.

146,789
DESIGN FOR A REFRIGERATOR CABINET

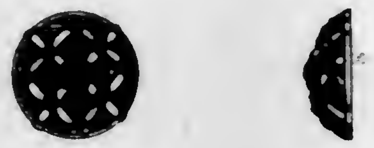
Donald E. Dailey, Bryn Mawr, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application March 16, 1946, Serial No. 127,599
Term of patent 7 years
(Cl. D67—2)



The ornamental design for a refrigerator cabinet, substantially as shown and described.

146,790
DESIGN FOR A BUTTON OR SIMILAR ARTICLE

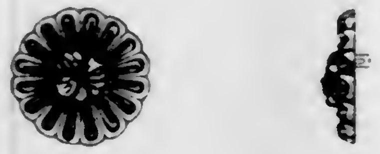
William Drell, New York, N. Y.
Application February 14, 1947, Serial No. 136,899
Term of patent 3½ years
(Cl. D17—2)



The ornamental design for a button or similar article, substantially as shown.

146,791
DESIGN FOR A BUTTON OR SIMILAR ARTICLE

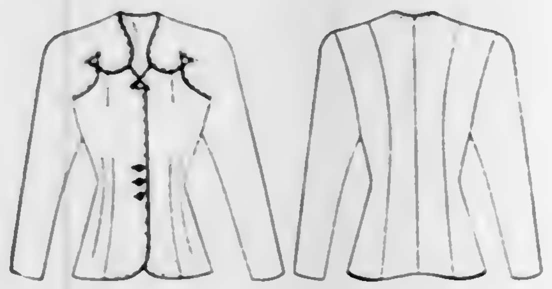
William Drell, New York, N. Y.
Application February 14, 1947, Serial No. 136,900
Term of patent 3½ years
(Cl. D17—2)



The ornamental design for a button or similar article, substantially as shown.

146,792
DESIGN FOR A JACKET

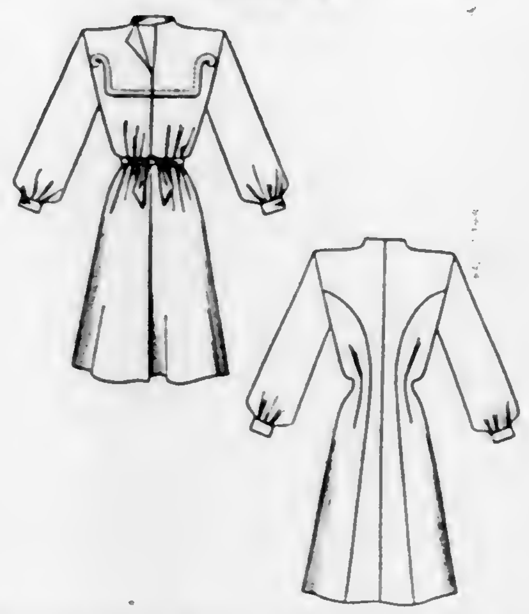
Simon Etkin, New York, N. Y.
Application December 16, 1946, Serial No. 135,533
Term of patent 7 years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

146,793
DESIGN FOR A COAT

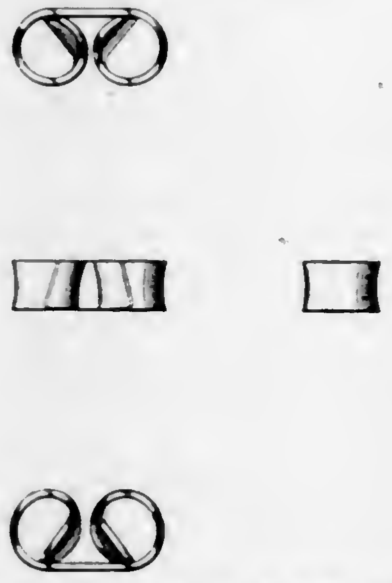
Jules Freedman, New York, N. Y.
Application November 13, 1946, Serial No. 134,751
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

146,794
DESIGN FOR A SCARF HOLDER

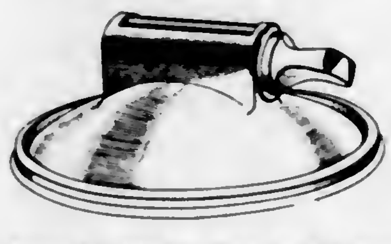
Paul L. Hartnett, Leominster, Mass.
Application December 22, 1945, Serial No. 124,953
Term of patent 3½ years
(Cl. D17—10)



The ornamental design for a scarf holder, as shown.

146,795
DESIGN FOR A CLOSURE FOR A JAR OR SIMILAR ARTICLE

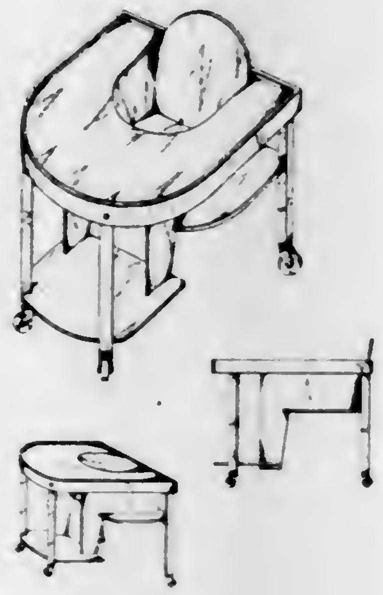
George M. Hood, Glendale, Calif.
Application October 12, 1945, Serial No. 122,792
Term of patent 3½ years
(Cl. D58—26)



The ornamental design for a closure for a jar or similar article, substantially as shown.

146,796
DESIGN FOR A COMBINED BABY CHAIR AND END TABLE

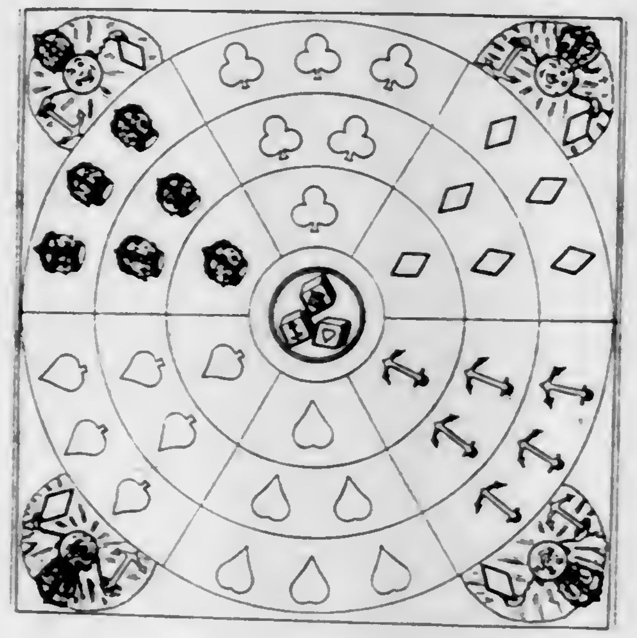
Carl S. Johnson, Eugene, Oreg.
Application January 15, 1946, Serial No. 125,566
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a combined baby chair and end table, as shown and described.

146,797
DESIGN FOR A GAME BOARD

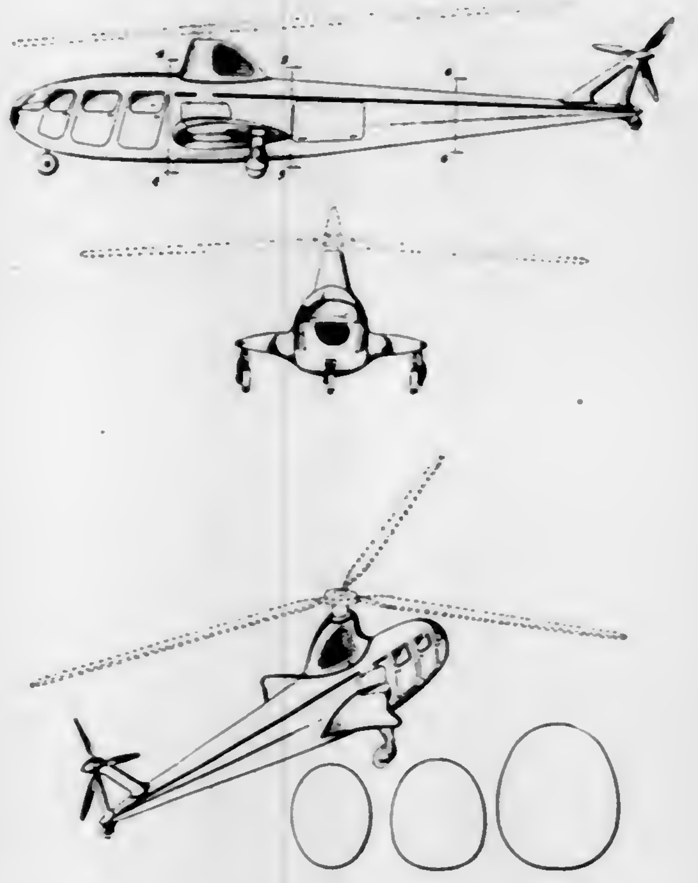
Mortimer M. Kastner, Montreal, Quebec, Canada
Application November 27, 1945, Serial No. 124,115
In Canada November 14, 1945
Term of patent 7 years
(Cl. D34—5)



The ornamental design for a game board, as shown and described.

146,798
DESIGN FOR A HELICOPTER

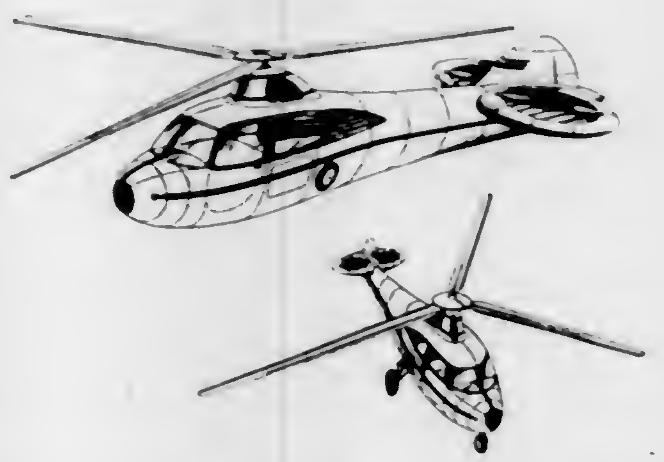
Agnew E. Larsen, Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md., a corporation of Maryland
Application May 16, 1945, Serial No. 119,559
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a helicopter, substantially as shown and described.

146,799
DESIGN FOR A HELICOPTER

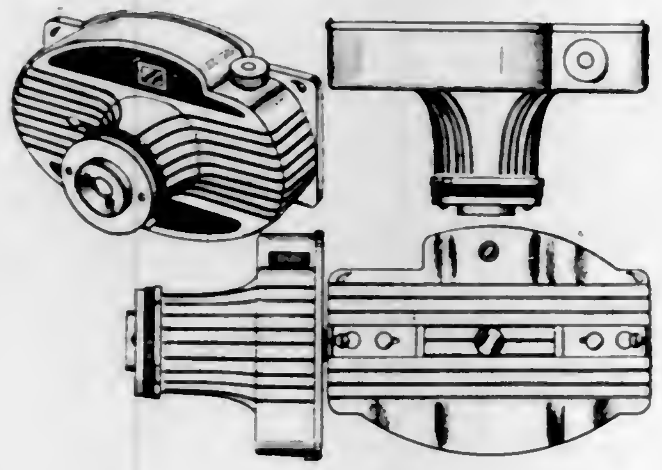
Agnew E. Larsen, Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md., a corporation of Maryland
Application May 16, 1945, Serial No. 119,561
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a helicopter, substantially as shown and described.

146,800
DESIGN FOR A CAMERA

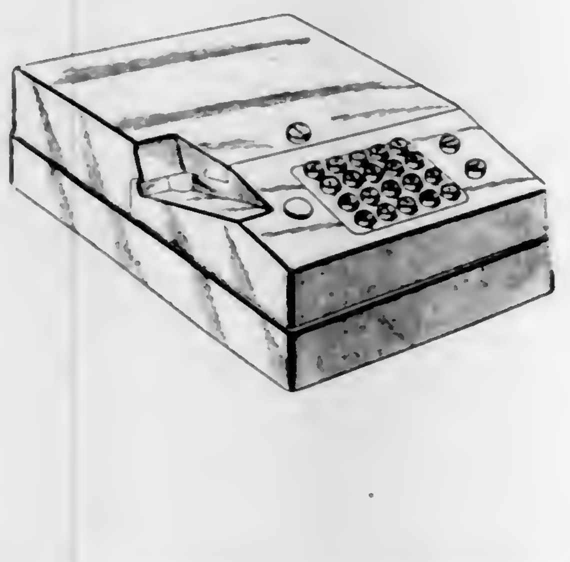
Raymond T. Larson, Chicago, Ill.
Application June 15, 1946, Serial No. 130,752
Term of patent 3½ years
(Cl. D61—1)



The ornamental design for a camera, as shown.

146,801
DESIGN FOR A COMBINED KEYBOARD AND TAPE PRINTER FOR ELECTRICAL COMPUTING APPARATUS

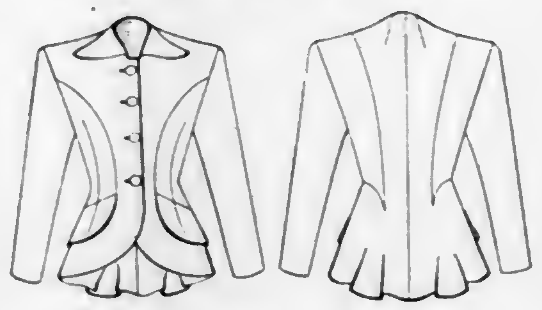
Georges X. Lens, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 11, 1944, Serial No. 115,264
Term of patent 14 years
(Cl. D64—11)



The ornamental design for a combined keyboard and tape printer for electrical computing apparatus, as shown and described.

146,802
DESIGN FOR A JACKET

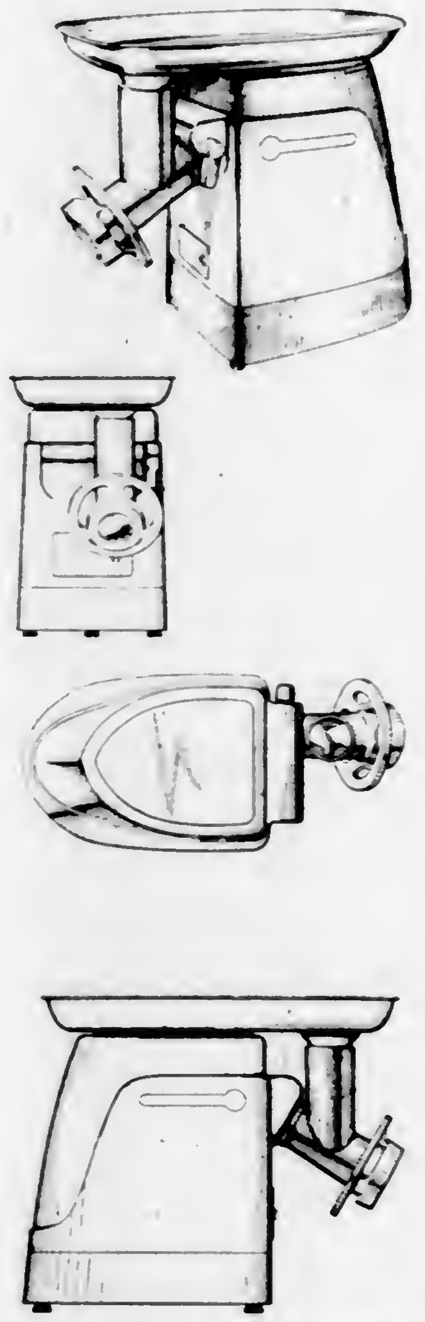
Leon Leventhal, New York, N. Y.
Application December 9, 1946, Serial No. 135,347
Term of patent 7 years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

146,803
DESIGN FOR A MEAT CHOPPER

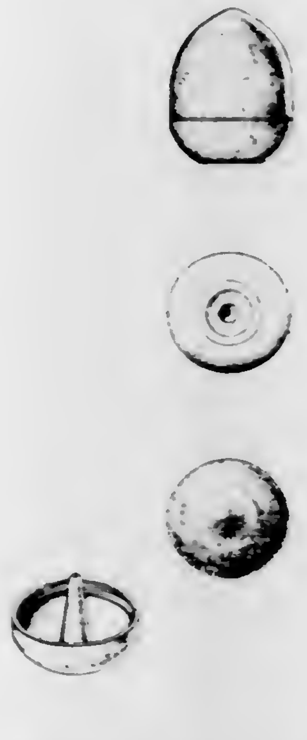
John M. Little, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application January 19, 1946, Serial No. 125,766
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a meat chopper, as shown.

146,804
DESIGN FOR A CONDIMENT SHAKER OR SIMILAR ARTICLE

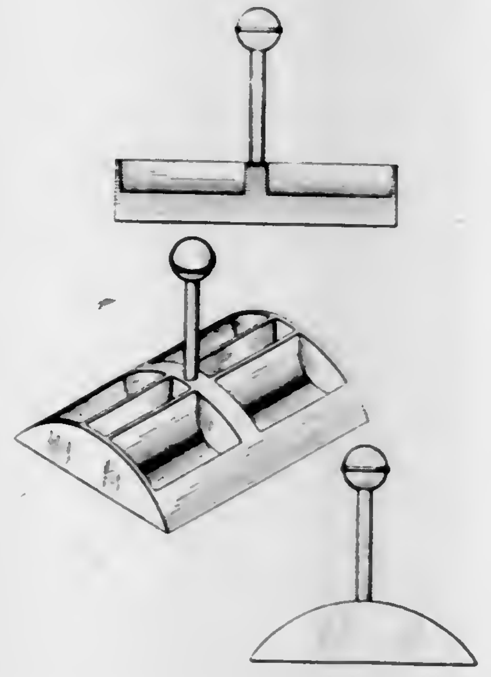
Joseph B. McKee, Los Angeles, Calif.
Application November 26, 1946, Serial No. 135,107
Term of patent 14 years
(Cl. D44—22)



The ornamental design for a condiment shaker or similar article, as shown and described.

146,805
DESIGN FOR A CARD AND POKER CHIP RACK

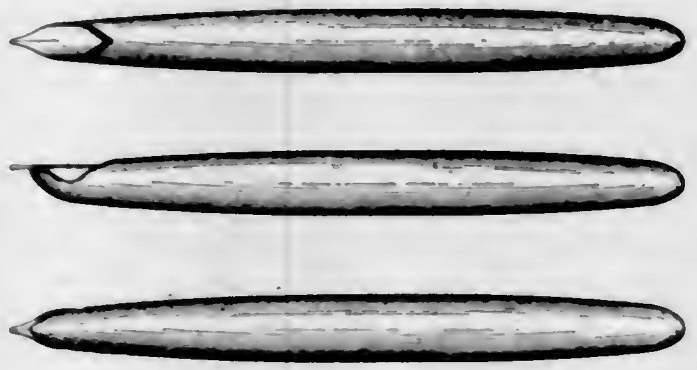
Eugene K. Millhauser, Los Angeles, Calif., assignor to Martin Oedekerk, Jr., Los Angeles, Calif.
Application December 3, 1945, Serial No. 124,292
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a card and poker chip rack, as shown.

146,806
DESIGN FOR A FOUNTAIN PEN

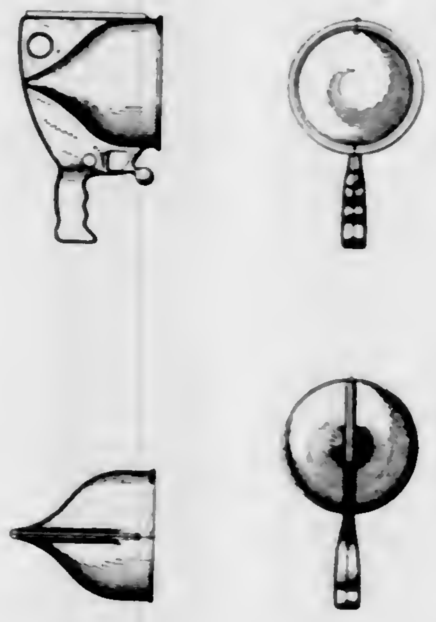
Laszlo Moholy-Nagy, Chicago, Ill., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application February 11, 1946, Serial No. 126,454
Term of patent 14 years
(Cl. D74—17)



The ornamental design for a fountain pen, substantially as shown and described.

146,807
DESIGN FOR A SIGNAL LIGHT

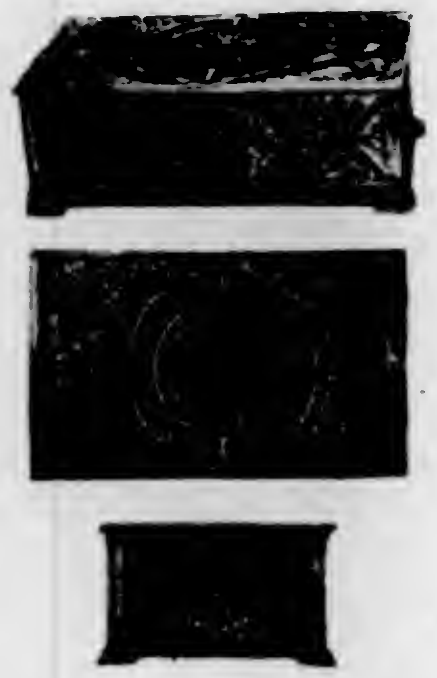
Arthur T. Newell, Huntington, N. Y., assignor to Kenyon Instrument Co., Inc., Huntington Station, N. Y., a corporation of New York
Application November 23, 1945, Serial No. 123,973
Term of patent 14 years
(Cl. D72—1)



The ornamental design for a signal light, substantially as shown.

146,808
DESIGN FOR A BOX OR SIMILAR ARTICLE

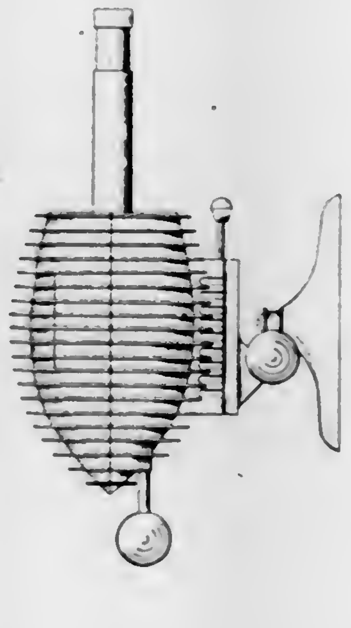
Gaetano Restifo, Jackson Heights, N. Y.
Application April 12, 1946, Serial No. 128,518
Term of patent 3½ years
(Cl. D58—12)



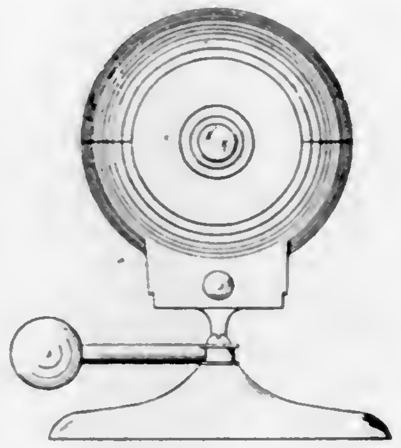
The ornamental design for a box or similar article, substantially as shown and described.

146,809
DESIGN FOR A PHOTOGRAPHIC SPOTLIGHT

Marshall M. Robinson, Houston, Tex., assignor to National Instrument Corporation, Houston, Tex., a corporation of Texas
Application August 17, 1946, Serial No. 132,609
Term of patent 3½ years
(Cl. D61—1)



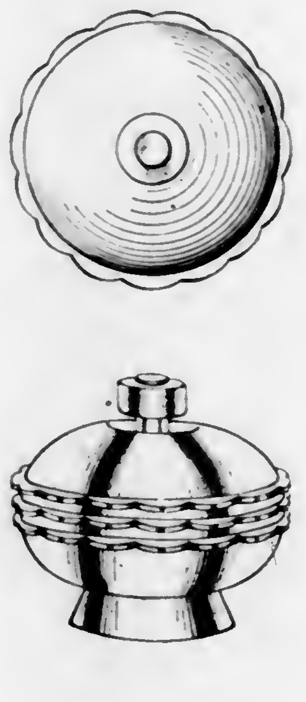
146,809—Continued



The ornamental design for a photographic spotlight, substantially as shown.

146,810
DESIGN FOR A BOWL OR SIMILAR ARTICLE

John Rubel, New York, N. Y.
Application March 25, 1946, Serial No. 127,903
Term of patent 7 years
(Cl. D44—15)

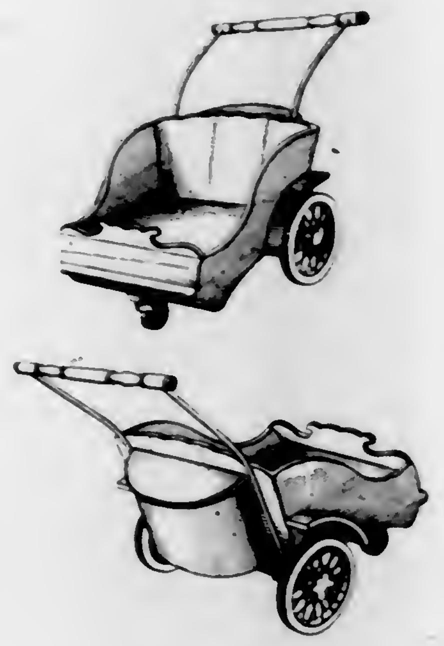


The ornamental design for a bowl or similar article, substantially as shown.

146,811

DESIGN FOR A STROLLER

Gordon A. Schaub, Freeland, Pa., assignor to Richard Dale Kitzmiller, Swarthmore, Pa.
Application March 19, 1946, Serial No. 127,649
Term of patent 14 years
(Cl. D14—3)

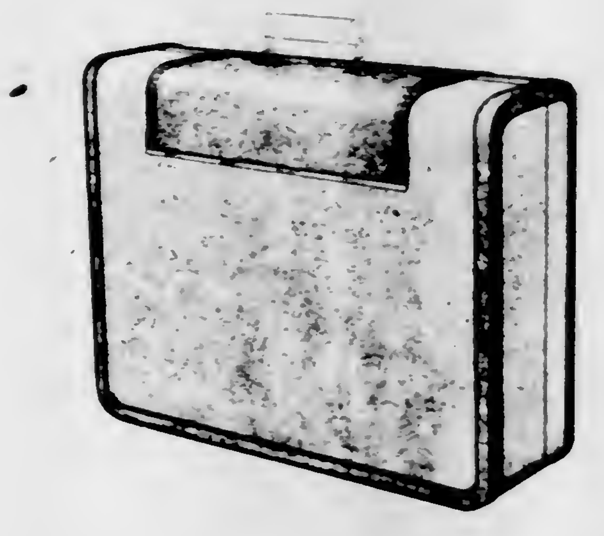


The ornamental design for a stroller as shown.

146,812

DESIGN FOR A HAND LUGGAGE CASE

Clifford Brooks Stevens, Milwaukee, Wis., assignor to Wheary Incorporated, Racine, Wis., a corporation of Wisconsin
Application April 12, 1946, Serial No. 128,535
Term of patent 7 years
(Cl. D87—5)

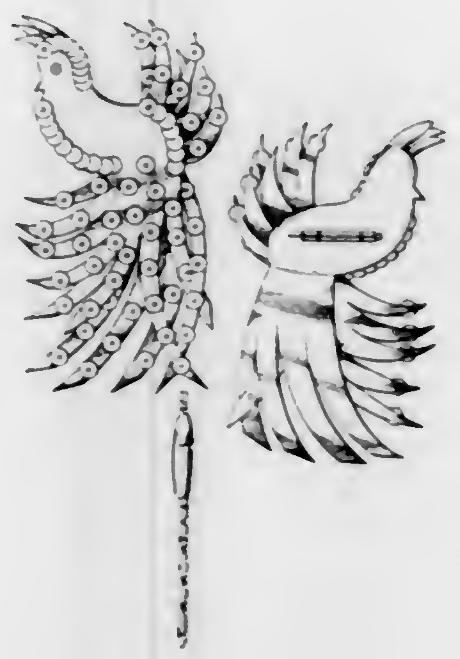


The ornamental design for a hand luggage case, as shown and described.

146,813

DESIGN FOR A PIN OR SIMILAR ARTICLE

Adelaid Strait, Hawthorne, Calif.
Application September 15, 1945, Serial No. 122,109
Term of patent 7 years
(Cl. D45—19)

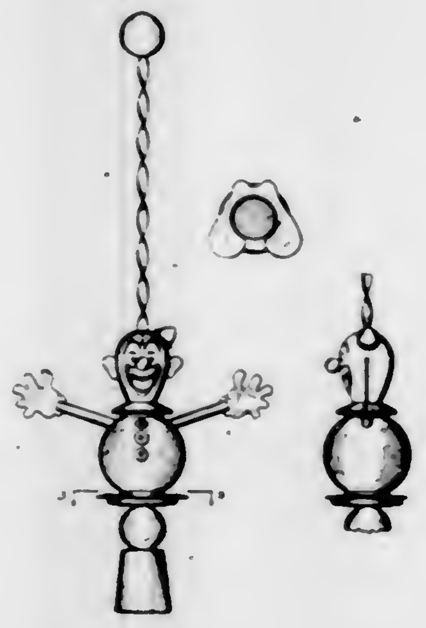


The ornamental design for a pin or similar article, as shown.

146,814

DESIGN FOR A WHIRLING TOY

Richard F. Summers, New York, N. Y.
Application April 10, 1946, Serial No. 128,455
Term of patent 3½ years
(Cl. D34—15)

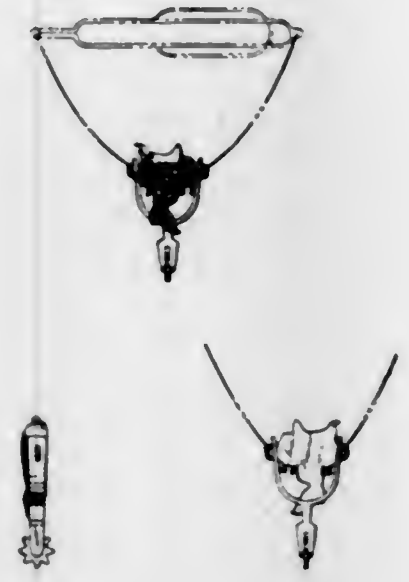


The ornamental design for a whirling toy, substantially as shown.

146,815

DESIGN FOR A CHAIN TIE CLASP

David L. Tandy, Fort Worth, Tex.
Application June 27, 1946, Serial No. 131,111
Term of patent 7 years
(Cl. D17—10)

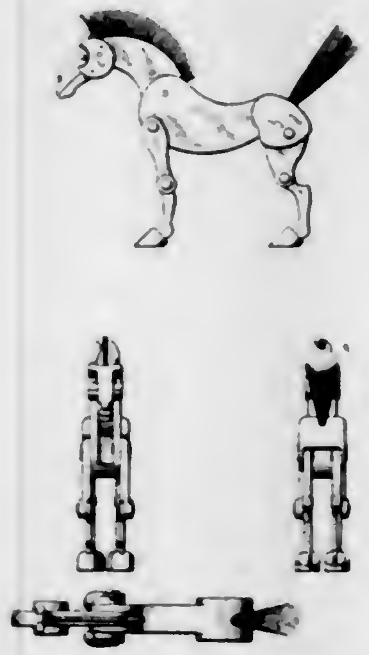


The ornamental design for a chain tie clasp, substantially as shown and described.

146,816

DESIGN FOR AN ARTICULATED ANIMAL FIGURE

Frank Larned Treuting, Newark, N. J., assignor to Herbert R. Treuting, Sr., Newark, N. J.
Application August 14, 1946, Serial No. 132,516
Term of patent 14 years
(Cl. D34—2)

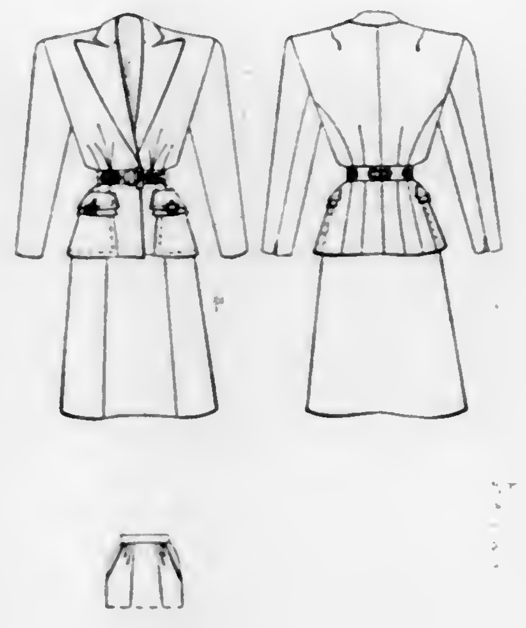


The ornamental design for an articulated animal figure, as shown.

146,817

DESIGN FOR A SUIT

Jane Walker, New York, N. Y.
Application November 20, 1946, Serial No. 134,918
Term of patent 3½ years
(Cl. D3—4)

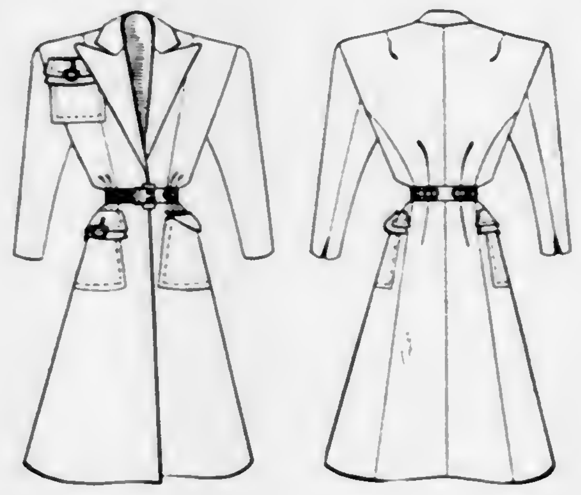


The ornamental design for a suit, substantially as shown and described.

146,818

DESIGN FOR A COAT

Jane Walker, New York, N. Y.
Application November 20, 1946, Serial No. 134,938
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

146,819
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE

George Henry Wheary, Jr., Racine, Wis., assignor to Wheary Incorporated, Racine, Wis., a corporation of Wisconsin

Application January 30, 1947. Serial No. 136,546

Term of patent 7 years

(Cl. D92—1)

The ornamental design for a textile fabric or similar article, as shown.

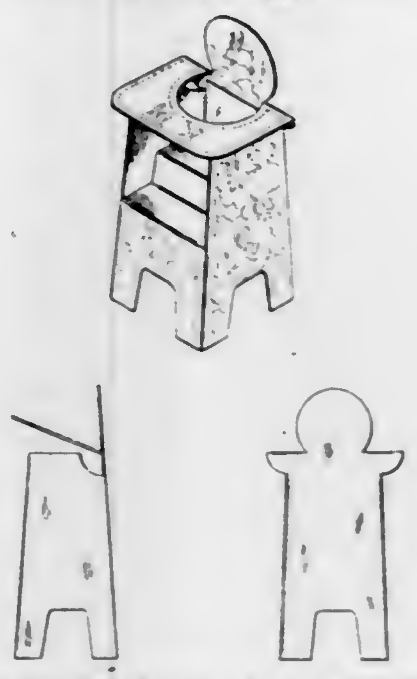
146,820
DESIGN FOR A TOY HIGH CHAIR

William P. Zegel, New York, N. Y., assignor to Molded Products Company, New York, N. Y., a copartnership composed of Leslie S. Steinau, Leslie Steinau, Jr., and Irving Reader

Application April 11, 1946, Serial No. 128,480

Term of patent 3½ years

(Cl. D34—15)



The ornamental design for a toy high chair, substantially as shown.

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

W. AVERELL HARRIMAN, *Secretary*

U. S. Patent Office

CASPER W. OOMS, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

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Reissues	3	—No. 22,883 to No. 22,885, inclusive
Patents	370	—No. 2,420,998 to No. 2,421,367, inclusive
Designs	21	—No. 146,821 to No. 146,841, inclusive
Total	539	

Patents expiring: Patent Numbers 1,759,827 to 1,760,862, inclusive, issued May 27, 1930, expire May 27, 1947

Condition of Applications Under Examination at Close of Business May 9, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 146,162; Trade-Mark Division, 13,531. Oldest new case, July 26, 1945; oldest amended, July 19, 1945.)
(The dates given are 1945 except where * indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Oct. 2	Nov. 30	2,863
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 16	Oct. 26	3,560
3. MARMELSTEIN, N. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus)	Nov. 21	Nov. 15	2,007
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	*Jan. 8	*Jan. 3	2,980
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	July 26	July 27	4,287
6. SURLE, H. (Acting), Carbon Chemistry (part)	*Mar. 9	*Mar. 14	1,972
7. HANLIN, GEORGE, Optics, Photography	*May 7	*May 13	1,999
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	Dec. 8	Nov. 15	3,718
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 27	Oct. 12	2,180
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Dec. 17	*Jan. 9	1,456
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	*Aug. 3	*Aug. 1	810
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Dec. 21	*Jan. 5	2,686
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Aug. 31	Oct. 2	2,261
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	*Feb. 23	*Feb. 12	1,406
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	*Feb. 5	*Apr. 11	1,313
16. LOVEWELL, N. N., Telegraphy; Telephony	*Feb. 23	*Mar. 16	1,309
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	*Jan. 24	*Jan. 17	1,310
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 6	Sept. 19	1,759
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	*Feb. 18	*Feb. 23	1,779
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Oct. 31	Nov. 3	2,237
21. THOMPSON, T. J., Textiles	*June 24	*July 30	930
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Dec. 15	Dec. 11	1,883
23. LEWIS, J. B., Cash Registers; Calculators (part)	*Mar. 14	*Feb. 15	239
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	*Sept. 18	Sept. 5	1,673
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Dec. 20	Dec. 14	1,779
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 26	Dec. 3	2,168
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	*Jan. 2	Dec. 29	2,427
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	Oct. 11	Sept. 10	1,544
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	*Jan. 3	*Jan. 16	2,679
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	*Jan. 23	*Jan. 19	2,508
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons; Halogenated Hydrocarbons; Hydrogenation of Carbon Oxides.	*Nov. 29	*Nov. 29	620
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Dec. 22	Dec. 8	2,486
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.	Oct. 27	Oct. 29	3,715
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	*Jan. 3	*Jan. 3	1,378
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	*Jan. 4	Sept. 1	2,322
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 24	Oct. 18	1,885
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	*Feb. 25	*Feb. 8	1,615
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions; Rubber; Ornamentation	*Mar. 16	Apr. 2	1,371
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Sept. 10	Sept. 11	2,632
40. DRUMMOND, E. J., Receptacles (part); Packages	Dec. 6	*Jan. 18	2,857
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-Controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	Nov. 19	Nov. 2	1,234
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	*June 11	*June 20	1,067
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Dec. 7	*Apr. 19	1,090
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 22	Oct. 8	1,399
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 6	Nov. 2	2,442
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	*Jan. 29	*Mar. 13	1,760
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	*Feb. 18	*Mar. 8	2,860
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Oct. 25	Nov. 9	1,926
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	*Feb. 14	*Feb. 6	1,551
50. LEVIN, SAMUEL, Synthetic Resins	*Mar. 21	*Mar. 21	2,607
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	Dec. 22	Dec. 28	2,087
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	*Mar. 11	*Feb. 18	3,408
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Aug. 9	July 19	4,402
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	*Jan. 8	*Feb. 1	2,141
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Nov. 19	Nov. 1	1,924
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Acetylene; Gas Mixing	*Mar. 13	*Mar. 13	1,456
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 23	Dec. 22	3,181
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	*Mar. 14	*Apr. 6	1,367
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Oct. 25	Oct. 9	2,127
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Nov. 14	*Mar. 1	2,024
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys, Ships and Marine Propulsion.	Dec. 3	Dec. 15	2,788
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Aug. 28	Sept. 13	4,117
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	*Jan. 4	*Jan. 4	2,120
64. NASH, P. M., Compositions—Coating or Plastic (part), Fuel and Miscellaneous	*Nov. 6	*Nov. 5	1,195
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Oct. 10	Oct. 8	2,291
TRADE-MARKS: MERCHANT, J. H	*July 5	*Nov. 13	13,531
DESIGNS: BREHM, G. L., (Acting)	*Feb. 23	*Nov. 5	8,995

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aarhus Oliefabrik A/S, Aarhus, Denmark. Foodstuffs. Serial No. 498,477 ; May 27. Class 46.

Abilene Foods Co., Abilene, Kans. Peanut butter. Serial No. 509,810 ; May 27. Class 46.

Ace Engineering and Machine Co., Inc., Philadelphia, Pa. Electric space heaters. Serial No. 510,921 ; May 27. Class 21.

Acron Insulated Wire Company, Inc., Brooklyn, N. Y. Insulated electric wires or conductors. Serial No. 492,881 ; May 27. Class 21.

Agazim, Michael, doing business as The Floralatoms Company, Chicago, Ill. Perfume. Serial Nos. 506,359–60 ; May 27. Class 6.

Alford, Kenneth W., New York, N. Y. Magazine or periodical issued monthly. Serial No. 505,791 ; May 27. Class 38.

Apex Electrical Manufacturing Co., Cleveland, Ohio. Clothes washing machines. Serial No. 506,363 ; May 27. Class 24.

Arco Company, The, Cleveland, Ohio. Paint mixing machine. Serial No. 501,624 ; May 27. Class 26.

Arkansas Company, Inc., Newark, N. J. Wetting and emulsifying agents. Serial No. 507,292 ; May 27. Class 6.

Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Refrigerator locker storage plants. Serial No. 488,845 ; May 27. Class 31.

Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Felt base floor coverings. Serial No. 507,962 ; May 27. Class 20.

Associated Products, Inc., Chicago, Ill. Compacts and vanities. Serial No. 512,365 ; May 27. Class 28.

Ayvad Water-Wings, Inc., Union City, N. J. Inflatable swimming supports. Serial No. 501,895 ; May 27. Class 22.

Bamby Products : *See*—
Genovese, Joseph.

Becken, A. C., Co., Chicago, Ill. Pearls. Serial No. 512,315 ; May 27. Class 28.

Bendix Helicopter, Inc., New York, N. Y. Rotary wing aircraft. Serial Nos. 506,980–1 ; May 27. Class 19.

Ben-Her Products, Buffalo, N. Y. Dice game. Serial No. 495,651 ; May 27. Class 22.

Best & Co., Inc., assignor to P. H. Le Boutiller, New York, N. Y. Outer shirts. Serial No. 507,615 ; May 27. Class 39.

Boggess, William A., doing business as The Zer-O-Zone Co., Fair Oaks, Calif. Frozen poultry. Serial No. 502,262 ; May 27. Class 46.

Bonoren Company, Inc., The, New York, N. Y. Toy parachutes and catapults. Serial No. 515,218 ; May 27. Class 22.

Briggs, Betty, New York, N. Y. Women's and misses' dresses. Serial No. 506,982 ; May 27. Class 39.

Brookside Mills, Inc., Knoxville, Tenn. Cotton piece goods and rayon and woolen fabrics. Serial No. 506,228 ; May 27. Class 42.

Brown's, Jim, Toy Company, Akron, Ohio. Metal fixture. Serial No. 503,421 ; May 27. Class 13.

Burbank Distributors, Burbank, Calif. Flexible leaders. Serial No. 504,960 ; May 27. Class 23.

Busch, Arnold C., doing business as Busch Mfg. Company, Ann Arbor, Mich. Automobile wash. Serial No. 499,115 ; May 27. Class 4.

Busch Mfg. Company : *See*—
Busch, Arnold C.

Buss, Donald R., doing business as Buss Manufacturing Co., Lanark, Ill. Prepared fish bait and fish hooks. Serial No. 517,828 ; May 27. Class 22.

Buss Manufacturing Co. : *See*—
Buss, Donald R.

Capitol Piece Dye Works, Inc., New York, and Garnerville, West Haverstraw, N. Y. Piece goods. Serial No. 499,380 ; May 27. Class 42.

Carpenter Steel Company, The, Reading, Pa. Steel in the form of wire, strips, etc. Serial No. 506,800 ; May 27. Class 14.

Casey, Matthew A., Montclair, N. J. Brackets. Serial No. 505,949 ; May 27. Class 13.

Cavalier Corporation, Chattanooga, Tenn. Combination desk and chest. Serial No. 507,234 ; May 27. Class 32.

Cedric's Flower Shop, Los Angeles, Calif. Cut flowers. Serial No. 505,149 ; May 27. Class 1.

Cole Chemical Company, St. Louis, Mo. Preparation for the relief of asthmatic paroxysms. Serial No. 479,663 ; May 27. Class 6.

Commercial Shirt Corp., New York, N. Y. Men's and boys' dress, negligee, and sport shirts, slacks, pajamas, etc. Serial No. 488,019 ; May 27. Class 39.

Commercial Uniform Factories, Kankakee, Ill. Overalls and coveralls. Serial Nos. 506,646–8 ; May 27. Class 39.

Crown Overall Mfg. Co., The, doing business as Headlight Manufacturing Co., Cincinnati, Ohio. Overalls, coveralls, trousers, etc. Serial No. 506,737 ; May 27. Class 39.

Dan River Mills, Incorporated : *See*—
Riverside & Dan River Cotton Mills, Inc.

Dougherty, George W., New York, N. Y. Comic magazines. Serial No. 502,430 ; May 27. Class 38.

Dri-Zone Corporation, Kansas City, Kans. Water-proofing compounds. Serial No. 508,588 ; May 27. Class 12.

Eastern Marine Products : *See*—
Karsten, Paul B.

Edox Corn and Callus Rasp Co. : *See*—
Strub, Theodore F.

Ekco Products Company, Chicago, Ill. Kitchen strainers, base metal bake pans, and cooking hollow ware. Serial No. 504,608 ; May 27. Class 13.

Ekco Products Company, Chicago, Ill. Kitchen strainers, base metal bake pans, and cooking hollow ware. Serial No. 504,610 ; May 27. Class 13.

Ekco Products Company, Chicago, Ill. Kitchen tools. Serial No. 506,587 ; May 27. Class 13.

Erasmus Atlass Co., New York, N. Y. Valises, suitcases, and leather purses. Serial No. 513,395 ; May 27. Class 3.

Executive Sales Company : *See*—
Rose, Edith.

F & F Laboratories, Inc., Chicago, Ill. Hard candy drops. Serial No. 497,079 ; May 27. Class 46.

Faith Shoe Company, Inc., Wilkes-Barre, Pa. Lounging shoes and bedroom slippers. Serial No. 508,901 ; May 27. Class 39.

Fashion-Craft Dresses, New York, N. Y. Women's dresses. Serial No. 508,374 ; May 27. Class 39.

Flegenheimer, David, Jamaica, N. Y. Hair nets. Serial No. 509,932 ; May 27. Class 39.

Fleming-Hall Tobacco Co., Inc., New York, N. Y. Cigarettes. Serial No. 500,068 ; May 27. Class 17.

Floralatoms Company, The : *See*—
Agazim, Michael.

Floyd, Wm. H., doing business as Wm. H. Floyd & Co., Los Angeles, Corning, and Del Rosa, Calif. Canned ripe olives. Serial No. 506,022 ; May 27. Class 46.

Floyd, Wm. H., & Co. : *See*—
Floyd, Wm. H.

Follanabee Steel Corporation, Pittsburgh, Pa. Tin and terne plates. Serial Nos. 502,968–9 ; May 27. Class 14.

Frankly Fabrics Corporation, New York, N. Y. Piece goods. Serial No. 495,798 ; May 27. Class 42.

Fredart Leathergoods Manufacturing Company, New York, N. Y. Leathergoods and articles made of plastics. Serial No. 495,875 ; May 27. Class 3.

Fremont Products Company : *See*—
Gundlach, Paul J.

Fritz, Florence, Fort Myers, Fla. Monthly publication. Serial No. 507,677 ; May 27. Class 38.

Future Homemakers of America, Inc., The, Washington, D. C. Organizations' pins, badges, buttons, etc. Serial No. 502,815 ; May 27. Class 28.

Gardner, Anna M., New York, N. Y. Flower arranger. Serial No. 497,931 ; May 27. Class 13.

Gellman Manufacturing Company, Rock Island, Ill. Bread wrapping and packaging machine. Serial No. 503,073 ; May 27. Class 23.

Gem Participations Incorporated, New York, N. Y. Preparation for treatment of athlete's foot, psoriasis, and other fungus infections of the skin. Serial No. 503,812 ; May 27. Class 6.

General Cable Corporation, New York, N. Y. Insulated electric wires and cables. Serial No. 512,663 ; May 27. Class 21.

General Dry Batteries, Inc., Lakewood, Ohio. Dry cell batteries. Serial No. 512,250 ; May 27. Class 21.

Genovese, Joseph, doing business as Bamby Products, Long Island City, N. Y. Soap. Serial No. 498,832 ; May 27. Class 4.

Gigantic S. A., Geneva, Switzerland. Watches and parts thereof. Serial No. 519,391 ; May 27. Class 27.

Goodhugh, Thomas, Wimbledon, London, England. Dental impression compound. Serial No. 488,462 ; May 27. Class 44.

Greenfield, E. & V., Jewelry Manufacturers, New York, N. Y. Jewelry. Serial No. 509,552 ; May 27. Class 28.

Green Lane Hosiery Co., Inc., Green Lane, Pa. Ladies' hosiery. Serial No. 508,599 ; May 27. Class 39.

Grover Photo Products, Los Angeles, Calif. Electric light fixtures. Serial No. 511,148 ; May 27. Class 21.

Gundlach, Paul J., doing business as Fremont Products Company, Cleveland, Ohio. Mineral supplement. Serial No. 478,384 ; May 27. Class 6.

Haco Gesellschaft A.-G., Berne, Switzerland. Antiseptic. Serial No. 493,955 ; May 27. Class 6.

Hagan Corporation, Pittsburgh, Pa. Organic amine. Serial No. 506,522 ; May 27. Class 6.

Hairnet Corporation of America, New York, N. Y. Hairnets. Serial No. 508,221; May 27. Class 39.
Hardy, Katharine K., Worcester, Mass. Sewing kits. Serial No. 512,668; May 27. Class 40.
Headlight Manufacturing Co.: *See—*
  Crown Overall Mfg. Co., The.
Hinde & Dauch Paper Company, Sandusky, Ohio. Paperboard boxes and cartons. Serial No. 495,472; May 27. Class 2.
Home Life Insurance Company, New York, N. Y. Magazine. Serial No. 507,725; May 27. Class 38.
Hotze, Henry, & Sons Company, St. Louis, Mo. Men's and women's luggage. Serial No. 510,514; May 27. Class 3.
House of Lontay, Inc., New York, N. Y. Hair waving fluid, hair rinse, and hand cream. Serial No. 512,065; May 27. Class 6.
Howell Products, Inc., Holmes, Pa. Sectional overhead doors. Serial No. 513,181; May 27. Class 12.
Howitt, Benn B., Brooklyn, N. Y. Newspaper, magazine, and periodical cartoons. Serial No. 505,957; May 27. Class 38.
Hyster Company, Portland, Oreg. Dragline clamshell cranes. Serial No. 509,004; May 27. Class 23.
Isaacs, I. C., & Co. Inc., Baltimore, Md. Jodhpurs and riding breeches. Serial No. 498,848; May 27. Class 39.
Janvillon, New York, N. Y. Perfumes, eau de cologne, toilet water, etc. Serial No. 506,603; May 27. Class 6.
Karsten, Paul B., doing business as Eastern Marine Products, New Haven, Conn. Sailing boats. Serial No. 507,318; May 27. Class 19.
Kay Ruth Dress Company, Inc., Jackson and McComb, Miss. Dresses. Serial No. 506,670; May 27. Class 39.
Keystone Roofing Manufacturing Company, York, Pa. Thermal insulating material. Serial No. 506,240; May 27. Class 12.
Kubatzky, Woodrow P., doing business as Winco Distributing Company, St. Louis, Mo. Baffle type window ventilators. Serial No. 516,988; May 27. Class 34.
Lagess, Arthur J., Industries, Inc., Chicago, Ill. Screwdrivers. Serial No. 503,103; May 27. Class 23.
Lalance & Grosjean Mfg. Co., Woodhaven, N. Y. Sheet metal ware. Serial No. 500,805; May 27. Class 2.
Lalance & Grosjean Mfg. Co., Woodhaven, N. Y. Sheet metal hospital ware. Serial No. 500,808; May 27. Class 44.
Laurel Intimates, Inc., New York, N. Y. Women's, misses', and girls' underwear, foundation garments, nightgowns, etc. Serial No. 484,264; May 27. Class 39.
Laurel Intimates, Inc., New York, N. Y. Women's, misses', and girls' underwear, foundation garments, nightgowns, etc. Serial No. 486,000; May 27. Class 39.
Le Botuiller, Peggy H., assignee: *See—*
  Best & Co., Inc.
Lee Sales Company, New York, N. Y. Ash trays. Serial No. 508,296; May 27. Class 8.
Lehn & Fink Products Corporation, Bloomfield, N. J. Lipsticks. Serial No. 505,500; May 27. Class 6.
Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. Serial No. 507,198; May 27. Class 6.
Lowe, Joe, Corporation, New York, N. Y. Frozen confections and liquid syrups. Serial No. 508,162; May 27. Class 46.
Magitex Company, Inc., Saco, Maine. Insecticide applicator pads. Serial No. 501,674; May 27. Class 44.
Manchester Knitted Fashions, Inc., Manchester, N. H. Men's wearing apparel. Serial No. 505,846; May 27. Class 39.
Mastrangelo, Frank, doing business as New Distributor System, Fitchburg, Mass. Earthenware and china articles. Serial No. 493,796; May 27. Class 30.
May Way Feed Mills, Inc., Kansas City, Mo. Livestock and poultry feeds. Serial No. 487,911; May 27. Class 46.
Mechanicraft, Inc., Jaskson Heights, N. Y. Toy construction sets. Serial No. 502,073; May 27. Class 22.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Emulsified antiseptic lotion. Serial No. 506,827; May 27. Class 6.
Micro-Bilt, Incorporated, New York, N. Y. Ignition system, internal combustion engines, individual ignition inductance coils. Serial No. 512,187; May 27. Class 21.
Miller Bros., Houston, Tex. Overalls, coats, pants, etc. Serial No. 507,767; May 27. Class 39.
Mines, A. S., & Pestcoe, New York, N. Y. Boys' and students' suits. Serial No. 504,124; May 27. Class 39.
Mohawk Rubber Company, Akron, Ohio. Non-metallic tires and tubes, camel-back for retreading and recapping tires, etc. Serial No. 506,764; May 27. Class 35.
Moskey & Geiss Dental Laboratory, Cleveland, Ohio. Artificial teeth, dentures, dental plates, etc. Serial No. 501,919; May 27. Class 44.
Murphy, Brill & Sahner, Inc., New York, N. Y. Hosiery. Serial No. 505,663; May 27. Class 39.
Nehi Corporation, Columbus, Ga. Monthly publication. Serial No. 508,436; May 27. Class 38.
New Distributor System: *See—*
  Mastrangelo, Frank.
New Homemakers of America, Inc., Washington, D. C. Organization pins, badges, buttons, etc. Serial No. 502,831; May 27. Class 28.
Newsome, John Parks, Inc., North Birmingham, Ala. Furniture. Serial No. 496,457; May 27. Class 32.
Ohio Brass Company, The, Mansfield, Ohio. Mechanical supports. Serial No. 510,609; May 27. Class 21.
Okonite Company, The, Passaic, N. J. Non-metallic tape, non-metallic sheaths, and insulation. Serial No. 503,319; May 27. Class 21.
Oxford University Press, New York, Inc., New York, N. Y. Books and pamphlets. Serial No. 497,957; May 27. Class 38.
Paramount Line, Inc., The, Providence, R. I. Greeting cards. Serial No. 498,074; May 27. Class 38.
Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of hypertension. Serial No. 506,470; May 27. Class 6.
Parkinson, George R., Katonah, N. Y. Perfumes and toilet waters. Serial No. 506,388; May 27. Class 6.
Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Solvent emulsion cleaners. Serial Nos. 503,122–4; May 27. Class 4.
Perky Frox, Inc., New York, N. Y. Dresses. Serial No. 508,241; May 27. Class 39.
Perma Board Corporation, New York, N. Y. Flush doors. Serial No. 512,200; May 27. Class 12.
Polizzi, Daniel D., doing business as Polizzi Precision Products Co., North Hollywood, Calif. Lock nuts. Serial No. 502,008; May 27. Class 13.
Polizzi Precision Products Co.: *See—*
  Polizzi, Daniel D.
Pressing Supply Company, Philadelphia, Pa. Ironing board pads and ironing board pad covers. Serial No. 512,747; May 27. Class 24.
Prime Manufacturing Company, The, Milwaukee, Wis. Traveling bags. Serial No. 465,117; May 27. Class 3.
Process Equipment Engineers, Inc., Belding, Mich. Metallic pipe and metallic pipe fittings. Serial No. 497,495; May 27. Class 13.
Radium Industries, Inc., Chicago, Ill. Pressure-sensitive adhesive-coated luminous discs. Serial No. 506,612; May 27. Class 50.
Reynolds Pen Company, Chicago, Ill. Fountain pens. Serial No. 508,311; May 27. Class 37.
Rhodes, William, Limited, Leeds, England. Mattresses, cushions, pillows, etc. Serial No. 492,223; May 27. Class 32.
Richmonds-Phillips, New York, N. Y. Sachet handkerchief cases, sachet lingerie cases, sachet containers. Serial No. 496,571; May 27. Class 2.
Ritter-Price Company, Stockton, Calif. Fresh deciduous fruits and vegetables, fresh melons, etc. Serial No. 502,462; May 27. Class 46.
Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Piece goods. Serial No. 507,426; May 27. Class 42.
Roche-Organon, Inc., Nutley, N. J. Medicinal preparation. Serial Nos. 505,071–2; May 27. Class 6.
Rose, Edith, doing business as Executive Sales Company, Philadelphia, Pa. Carbon paper and typewriter ribbons. Serial No. 506,693; May 27. Class 11.
Ruth, Paul A., doing business as Paul A. Ruth Company, Phoenix, Ariz. Fresh vegetables and melons. Serial No. 509,878; May 27. Class 46.
Ruth, Paul A., Company: *See—*
  Ruth, Paul A.
Safeway Stores, Incorporated, Baltimore, Md., Reno, Nev., Oakland, Calif., and elsewhere. Eggs. Serial No. 463,893; May 27. Class 46.
Santa Clara Frosted Foods Co., Santa Clara, Calif. Frozen fresh fruits and frozen fresh vegetables. Serial No. 505,074; May 27. Class 46.
Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. Serial No. 508,930; May 27. Class 39.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation useful in the treatment and prevention of metabolic deficiencies, etc. Serial No. 507,543; May 27. Class 6.
Silby Chemical Company, Inc., Miami, Fla. Insecticides and insect repellent. Serial No. 492,470; May 27. Class 6.
Smith, Kline & French Laboratories, Philadelphia, Pa. Laxative. Serial No. 507,434; May 27. Class 6.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Petroleum and products of petroleum. Serial No. 504,399; May 27. Class 15.
Sogex SA. Société d'Exportations, Geneva, Switzerland. Spring-actuated and manually-actuated musical boxes, and parts thereof. Serial No. 503,950; May 27. Class 36.
Sorensen, Chris, Parlier, Calif. Fresh deciduous fruits. Serial No. 487,102; May 27. Class 46.
Spacarb, Inc., New York, N. Y. Self-vending, carbonated beverage machines. Serial No. 511,299; May 27. Class 23.
Stein Bros. Mfg. Co., Chicago, Ill. Zipper envelopes, zipper bags, portfolios, etc. Serial No. 510,215; May 27. Class 3.
Stone, L. R., Company, Inc., Los Angeles, Calif. Candy. Serial No. 509,887; May 27. Class 46.
Strub, Theodore F., doing business as Edox Corn and Callus Rasp Co., Chicago, Ill. Corn rasp. Serial No. 517,925; May 27. Class 44.
Swift, T. W., Company: *See—*
  Swift, Thomas W.
Swift, Thomas W., doing business as T. W. Swift Company, Winston-Salem, N. C. Liquid hair dressing. Serial No. 493,987; May 27. Class 6.

Taverner & Fricke, Los Angeles, Calif. Wrapping paper, toilet paper, and wax paper. Serial No. 507,865; May 27. Class 37.
Telex, Inc., St. Paul, Minn. Sound reproducers. Serial No. 518,705; May 27. Class 44.
Thomson, Lucille O., Charlotte, N. C. Soil vitalizer. Serial No. 506,834; May 27. Class 10.
Topics Publishing Co., Inc., New York, N. Y. Cartoon magazine section. Serial No. 507,866; May 27. Class 38.
Ullman Products Corporation, Brooklyn, N. Y. Permanent magnets. Serial No. 513,004; May 27. Class 21.
Ung, Thomas, doing business as United China Trading Co., Los Angeles, Calif. Wave set, a lotion for setting the hair in waves, toilet water, etc. Serial No. 501,790; May 27. Class 6.
United China Trading Co.: *See—*
  Ung, Thomas.
United Clock Corporation, Brooklyn, N. Y. Electric clocks. Serial No. 512,297; May 27. Class 27.
United States Rubber Company, New York, N. Y. Textile fabrics in the piece. Serial No. 499,745; May 27. Class 42.
Universal Camera Corporation, New York, N. Y. Phonographs. Serial No. 498,957; May 27. Class 36.
Universal Clay Products Company, The, Sandusky, Ohio. Electrical insulators. Serial No. 508,758; May 27. Class 21.
Universal Oil Products Company, Chicago, Ill. Organic compounds. Serial Nos. 504,805–7; May 27. Class 6.
Untermeyer, Robbins & Co., New York, N. Y. Finger rings. Serial No. 512,356; May 27. Class 28.
V–43 Laboratories, St. Louis, Mo. Tooth powder. Serial No. 505,782; May 27. Class 6.
Valley Cast Products, Puente, Calif. Pots and pans. Serial No. 493,859; May 27. Class 13.
Warner, William R., & Co., Inc., New York, N. Y. Cathartic, parasiticide, tooth powder, etc. Serial No. 489,548; May 27. Class 6.
Weil, Lewis P., Germantown, Pa. Electric nursery lamps. Serial No. 510,819; May 27. Class 21.
Weissman Co. Inc., New York, N. Y. Articles of pottery and articles of china. Serial No. 498,100; May 27. Class 30.
Welch, Charles W., doing business as Welco Products, Kansas City, Mo. Marking crayons. Serial No. 508,345; May 27. Class 37.
Welco Products: *See—*
  Welch, Charles W.
Welders Supply Company, Little Rock, Ark. Oxygen and acetylene. Serial No. 505,876; May 27. Class 6.
Whale Tool Corp., The, New York, N. Y. Combination pliers, wrench, pipe wrench, etc. Serial No. 504,312; May 27. Class 23.
Wilson, H. A., Company, The, Newark, N. J. Contacts for electrical circuits. Serial No. 512,946; May 27. Class 21.
Winco Distributing Company: *See—*
  Kubatzky, Woodrow P.
Woods Company, The, Somerton, Ariz. Melons. Serial No. 509,901; May 27. Class 46.
Zer-O-Zone Co., The: *See—*
  Boggess, William A.
Zippo Manufacturing Company, assignor to Zippo Manufacturing Company, Bradford, Pa. Flints for pyrophoric type lighters. Serial No. 516,805; May 27. Class 34.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Ammonium o-iodoxy benzoate. 224,691; renewed Mar. 1, 1947. O. G. May 27. Class 6.
Adams, Ann, Inc., St. Louis, Mo. Ladies' and misses' dresses. 429,958; May 27. Class 39.
American Rolling Mill Company, The, Middletown, Ohio. Bars, billets, castings, etc. 224,201; renewed Feb. 22, 1947. O. G. May 27. Class 14.
American Steel & Wire Company of New Jersey, Hoboken, N. J., and New York, N. Y., to The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Wire nails, wire brads, wire spikes, etc. 57,935; re-renewed Dec. 4, 1946. O. G. May 27. Classes 7, 13, and 14.
American Steel and Wire Company of New Jersey, The: *See—*
  American Steel & Wire Company of New Jersey, The.
Appollinaris Company Limited, The, London, England. Mineral water. 58,006; re-renewed Dec. 4, 1946. O. O. May 27. Class 45.
Associated Knitted Outerwear Mills, Inc., New York, N. Y. Men's, boys', and children's underwear and knitted outerwear. 429,914; May 27. Class 39.
Atlantic Mills, The, Olneyville, R. I., to A. D. Juilliard & Co., Inc., New York, N. Y. Woolen dress goods in the piece. 223,652; renewed Feb. 8, 1947. O. G. May 27. Class 42.
Autocall Company, The, Shelby, Ohio. Apparatus and equipment for use in paging service. 218,967; renewed Oct. 5, 1946. O. G. May 27. Class 21.
B. V. D. Company, Inc., The, to The B. V. D. Corporation, Baltimore, Md. Underwear. 224,585; renewed Mar. 1, 1947. O. G. May 27. Class 39.
B. V. D. Corporation, The: *See—*
  B. V. D. Company, Inc., The.
Baker, Arthur D.: *See—*
  Victor Chemical Company.
Bamberger, L., & Co., Newark, N. J. Silverware. 224,567; renewed Mar. 1, 1947. O. G. May 27. Class 28.
Banta, Charles M., Chicago, Ill. Tooth brushes and denture brushes. 429,947; May 27. Class 29.
Bear Brand Hosiery Co., Chicago, Ill. Textile articles. 219,637; renewed Oct. 19, 1946. O. G. May 27. Class 39.
Beatrice Foods Co.: *See—*
  Holland Butter Company.
Becker & Darvie Fashion Jewelry Co., New York, N. Y. Jewelry clips, brooches, earrings, etc. 429,944; May 27. Class 28.
Behn, A. G., Shoe Co.: *See—*
  Behn, Arnold G.
Behn, Arnold G., Kearny, to A. G. Behn Shoe Co., Arlington, N. J. Children's leather shoes. 225,464; renewed Mar. 22, 1947. O. G. May 27. Class 39.
Benal Dress Co., Inc., New York, N. Y. Women's dresses, women's suits, waists, etc. 429,917; May 27. Class 39.
Brummer, Max B., to Max B. Brummer & Son, Inc., New York, N. Y. Ready-made garments. 29,126; re-renewed Nov. 10, 1946. O. G. May 27. Class 39.
Brummer, Max B., & Son, Inc.: *See—*
  Brummer, Max B.
Bush, Richard A., doing business as Southwest Farms, Phoenix, Ariz. Fresh vegetables and fresh melons. 429,952; May 27. Class 46.
California Fruit Exchange, Sacramento, Calif. Fresh cherries, apricots, peaches, etc. 224,869; renewed Mar. 8, 1947. O. G. May 27. Class 46.
Cease Commissary Service: *See—*
  Cease, William W.
Cease, William W., doing business as Cease Commissary Service, Dunkirk, N. Y. Frozen pies. 429,923; May 27. Class 46.
Chemische Fabrik Von Heyden Gesellschaft, mit Beschrankter Haftung, Radebeul, Germany, to Heyden Chemical Corporation, New York, N. Y. Lactate of silver, citrate of silver, and all pharmaceutical preparations of silver. 29,133; re-renewed Nov. 10, 1946. O. G. May 27. Class 6.
Cherry-Burrell Corporation, Chicago, Ill. Food gelatin. 429,912; May 27. Class 46.
Clearfield Cheese Co., Inc., Curwensville, Pa. Cheese food product. 429,942; May 27. Class 46.
Coast Manufacturing & Supply Company: *See—*
  Coast Manufacturing & Supply Co.
Coast Manufacturing & Supply Co., Berkeley, to Coast Manufacturing & Supply Company, Livermore, Calif. Fuses. 61,648; re-renewed Apr. 2, 1947. O. G. May 27. Class 9.
Cohen, Harry A., doing business as Standard Electric Mfg. Co., West Berlin, N. J. Electric fans, electric air circulators, attic fans, etc. 429,918; May 27. Class 34.
Columbian Rope Company, Auburn, N. Y. Rope, cable, tarred lath and fodder yarns, etc. 61,075; re-renewed Mar. 5, 1947. O. G. May 27. Class 7.
Continental Music Company, Chicago, Ill. Accordions, adjustable instrument stands, banjos, etc. 223,324; renewed Feb. 1, 1947. O. G. May 27. Class 36.
Continental Optical Company, Inc.: *See—*
  Continental Optical Corporation.
Continental Optical Corporation, New York, N. Y., to Continental Optical Company, Inc., Indianapolis, Ind. Ophthalmic lenses. 223,894; renewed Feb. 15, 1947. O. G. May 27. Class 26.
Crawford, Charles C., doing business as XLNT Spanish Food Co., Los Angeles, Calif. Uncanned tamales and canned products. 218,877; renewed Oct. 5, 1946. O. G. May 27. Class 46.
Crystal Juniors, Inc., New York, N. Y. Dresses. 429,919; May 27. Class 39.
Davol Rubber Company: *See—*
  Meinecke & Co.
Delong Hook and Eye Company, The, Philadelphia, Pa. Safety pins of nonprecious metal. 225,491; renewed Mar. 22, 1947. O. G. May 27. Class 40.
Delta Mfg. Co., Inc., Fredericksburg, Tex. Boys' clothing. 429,925; May 27. Class 39.
Dixie Cup Company: *See—*
  Individual Drinking Cup Co., Inc.
Dubraks, Joseph W., St. Petersburg, Fla., to J. Pratt Irby, Pittsburgh, Pa. Frozen confection. 225,061; renewed Mar. 8, 1947. O. G. May 27. Class 46.

Dunham, Carrigan & Hayden Co., San Francisco, Calif. Hatchets, axes, chisels, etc. 61,440–1; re-renewed Mar. 19, 1947. O. G. May 27. Class 23.

Eastern Machine Screw Corporation, The, New Haven, Conn. Die heads, taps, and threading machines. 225,428; renewed Mar. 15, 1947. O. G. May 27. Class 23.

Eastern Tablet Corporation, Albany, N. Y. Writing paper. 429,955; May 27. Class 37.

Elliott Paint & Varnish Company: *See*—
Elliott Varnish Co.

Elliott Varnish Co., to Elliott Paint & Varnish Company, Chicago, Ill. Asphalt paint. 187,878; renewed Aug. 12, 1944. O. G. May 27. Class 16.

Emerson Jewelry Company, Inc., Newark, N. J. Watches. 429,949; May 27. Class 27.

Emtee Slacks, Inc., New York, N. Y. Men's and boys' woolen slacks, rayon mufflers, gloves, etc. 429,945; May 27. Class 39.

Esmond Mills, The, to The Esmond Mills, Incorporated, Esmond, Smithfield, R. I. Textile blankets. 225,546; renewed Mar. 22, 1947. O. G. May 27. Class 42.

Esmond Mills, Incorporated, The: *See*—
Esmond Mills, The.

Fenole Chemical Company: *See*—
Powell, Wylie R.

Ferris Instrument Company, Boonton, N. J. Variable and fixed electrical condensers, electrical switches, electrical attenuators, etc. 429,960; May 27. Class 21.

Foreman & Clark, Los Angeles, Calif. Men's overcoats. 429,920; May 27. Class 39.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 219,070; renewed Oct. 12, 1946. O. G. May 27. Class 42.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 219,077; renewed Oct. 12, 1946. O. G. May 27. Class 42.

Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.

4 in 1 Spark Plug Company: *See*—
Gould, Herman C.

Fre-Lax Medicine Company, Fall River, Mass. Cough medicine. 225,857; renewed Mar. 29, 1947. O. G. May 27. Class 6.

Frenkel, Erich, doing business as Hermann Frenkel, Leipzig-Molkau, Germany, to The Pittsburgh Plate Glass Company, Pittsburgh, Pa Oil paints, pigments, varnishes, etc. 221,717; renewed Dec. 7, 1946. O. G. May 27. Class 16.

Frenkel, Hermann: *See*—
Frenkel, Erich.

Fruit Dispatch Company: *See*—
United Fruit Company.

Gillette Safety Razor Company, Boston, Mass. Surgical knives and parts thereof. 225,930; renewed Mar. 29, 1947. O. G. May 27. Class 44.

Gittens, Sidney R., doing business as Screen Patch Company, Philadelphia, Pa. Screen patches. 429,915; May 27. Class 13.

Glenn Scot Sportswear, New York, N. Y. Women's sweaters, skirts, etc. 429,956; May 27. Class 39.

Gould, Herman, Co., doing business as 4 in 1 Spark Plug Company, Decatur, Ill. Spark plug assemblies and component parts. 429,967; May 27. Class 21.

Graham, S. Grover, Co., Newburgh, to The Medic Products Corporation, Monroe, N. Y. Remedies for disease of the digestive organs. 56,549; re-renewed Oct. 2, 1946. O. G. May 27. Class 6.

Great Bear Spring Company, New York, N. Y. Sparkling water. 225,535; renewed Mar. 22, 1947. O. G. May 27. Class 45.

Great Bear Spring Company, New York, N. Y. Sparkling water. 225,663; renewed Mar. 22, 1947. O. G. May 27. Class 45.

Great Lakes Industrial Laboratories, Inc., Toledo, Ohio. Dolomitic hydrate. 222,881; renewed Jan. 11, 1947. O. G. May 27. Class 12.

Grisi, Josefa P., to Viuda De Jose Grisi Sucesores, Mexico City, Mexico. Medicinal plaster. 223,771; renewed Feb. 8, 1947. O. G. May 27. Class 6.

Grisi, Viuda De Jose Sucesores: *See*—
Grisi, Josefa P.

Hackett Electric: *See*—
Hackett, Russell L.

Hackett, Russell L., doing business as Hackett Electric, Pittsburgh, Pa. Freezing cabinets. 429,932; May 27. Class 31.

Harman Watch Company, assigner to Harman Watch Co., Inc., New York, N. Y. Horological instruments. 429,965; May 27. Class 27.

Harman Watch Co., Inc., assignee: *See*—
Harman Watch Company.

Harrington & Waring, New York, N. Y. Hosiery. 429,962; May 27. Class 39.

Harvey's, Washington, D. C., assignor to Harvey's, Inc. of Maryland, Bowie, Md. Hams. 429,951; May 27. Class 46.

Harvey's, Inc. of Maryland, assignee: *See*—
Harvey's.

Hendaye, Ltd., New York, N. Y. Women's and misses' blouses. 429,916; May 27. Class 39.

Heyden Chemical Corporation: *See*—
Chemische Fabrik Von Heyden Gesellschaft, mit Beschrankter Haftung.

Hipsh, Inc., Kansas City, Mo. Men's outer shirts. 429,926; May 27. Class 39.

Hirschman, Albert B., San Pedro, Calif. Tooth paste. 222,984; renewed Jan. 11, 1947. O. G. May 27. Class 6.

Hoffman, S. L., & Co.: *See*—
Hoffman, Samuel L.

Hoffman, Samuel L., doing business as S. L. Hoffman & Co., New York, N. Y. Men's dressing gowns. 225,533; renewed Mar. 22, 1947. O. G. May 27. Class 39.

Holland Butter Company, to Beatrice Foods Co., Chicago, Ill. Butter, eggs, cheese, etc. 218,485; renewed Sept. 28, 1946. O. G. May 27. Class 46.

Hollywood Doll Manufacturing Company: *See*—
Ippolito, Domenick.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 223,669; renewed Feb. 8, 1947. O. G. May 27. Class 6.

Houbigant, Inc., New York, N. Y. Soaps. 225,026; renewed Mar. 8, 1947. O. G. May 27. Class 4.

Hygenol Company, The, Minneapolis, Minn. Hair-tonic and a shampoo. 56,662; re-renewed Oct. 16, 1946. O. G. May 27. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Leverkusen, near Cologne-on-the-Rhine, Germany, to Winthrop Chemical Company, Inc., New York, N. Y. Remedy for the treatment of red water in cattle. 223,407; renewed Feb. 1, 1947. O. G. May 27. Class 6.

Illinois Publishing & Printing Company, Chicago, Ill. Daily newspaper. 219,292; renewed Oct. 12, 1946. O. G. May 27. Class 38.

Individual Drinking Cup Co., Inc., Easton, Pa., to Dixie Cup Company, Chicago, Ill. Paper drinking cups and paper cups. 223,766; renewed Feb. 8, 1947. O. G. May 27. Class 2.

Individual Drinking Cup Co., Inc., Easton, Pa., to Dixie Cup Company, Chicago, Ill. Paper drinking cups and paper cups. 224,216; renewed Feb. 22, 1947. O. G. May 27. Class 2.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 429,933–41; May 27. Class 22.

Irby, J. Pratt: *See*—
Dubraks, Joseph W.

Ismert-Hincke Milling Company, Kansas City, Kans. Wheat-flour. 60,681–2; re-renewed Feb. 19, 1947. O. G. May 27. Class 46.

Juilliard, A. D., & Co., Inc.: *See*—
Atlantic Mills, The.

Kansas City Wholesale Grocery Co. to Pickwick Products, Inc., Kansas City, Mo. Baking powder and bluing, gloss starch and salt. 225,186; reneewed Mar. 15, 1947. O. G. May 27. Classes 6 and 46.

Kansas City Wholesale Grocery Co. to Pickwick Products, Inc., Kansas City, Mo. Canned vegetables, canned fruit, dried fruit, etc. 225,711; renewed Mar. 22, 1947. O. G. May 27. Class 46.

Kaplan, Morris, & Sons, New York, N. Y. Diamonds and precious and semi-precious stones, finger rings, etc. 429,968; May 27. Class 28.

Knickerbocker Silk Co., to Knickerbocker Textile Corporation, New York, N. Y. Silk piece goods and silk velvets in the piece. 226,015; renewed Mar. 29, 1947. O. G. May 27. Class 42.

Knickerbocker Textile Corporation: *See*—
Knickerbocker Silk Co.

Krim, Charles, Los Angeles, Calif. Ladies', misses', and junior misses' coats, suits, jackets, etc. 429,957; May 27. Class 39.

Labatt, John, to John Labatt Limited, London, Ontario, Canada. Porter. 57,040; re-renewed Oct. 30, 1946. O. G. May 27. Class 48.

Labatt, John, Limited: *See*—
Labatt, John.

Light Publishing Company, The, San Antonio, Tex. Daily newspaper. 219,291; renewed Oct. 12, 1946. O. G. May 27. Class 38.

Lodi Fertilizer Company, Lodi, Calif. Mineral soil conditioner. 429,953; May 27. Class 10.

Los Angeles Honey Co., Los Angeles, Calif. Honey. 429,943; May 27. Class 46.

Lowe, E. S., Company, Inc., New York, N. Y. Game. 429,948; May 27. Class 22.

Maclin-Zimmer-McGill Tobacco Co., Petersburg, Va. Smoking and chewing tobacco and snuff. 225,860; renewed Mar. 29, 1947. O. G. May 27. Class 17.

March Corporation, Chicago, Ill. Smoking pipes. 429,961; May 27. Class 8.

Mayer, Franz, Co., New York, N. Y. Ladies', misses', and childrens' dresses, raincoats, raincapes, suits, etc. 429,963; May 27. Class 39.

McAllester Hosiery Mills, Inc., Chattanooga, Tenn. Hosiery. 429,929; May 27. Class 39.

McCain-Wright, Inc.: *See*—
People's Shoe Stores Company, Inc, The.

Medic Products Corporation, The: *See*—
Graham, S. Grover, Co.

Meinecke & Co., New York, N. Y., to Davol Rubber Company, Providence, R. I. Nipples. 29,722; re-renewed Mar. 23, 1947. O. G. May 27. Class 44.

Missouri-Kansas-Texas Railroad Company, St. Louis, Mo. Booklets, circulars, and pamphlets. 224,514; renewed Mar. 1, 1947. O. G. May 27. Class 38.

Missouri-Kansas-Texas Railroad Company, St. Louis, Mo. Booklets, circulars, and pamphlets. 224,857; renewed Mar. 8, 1947. O. G. May 27. Class 38.

Mohn, Howard C., Hosiery Co., Reading, Pa. Wearing apparel. 429,928; May 27. Class 39.

Monmouth Products Co., Inc., Jersey City, N. J. Frozen deciduous fruits, grapes, berries, etc. 429,927; May 27. Class 46.

Morrison Knitwear Co., Brooklyn, N. Y. Knitted outerwear. 429,913; May 27. Class 39.

Murray, Edgar A., doing business as Edgar A. Murray Co., to Edgar A. Murray Co., Detroit, Mich. Fly exterminator. 221,884; renewed Dec. 14, 1946. O. G. May 27. Class 6.

Murray, Edgar A., doing business as Edgar A. Murray Co., to Edgar A. Murray Co., Detroit, Mich. Exterminator for bugs. 221,911; renewed Dec. 14, 1946. O. G. May 27. Class 6.

Murray, Edgar A., doing business as Edgar A. Murray Co., to Edgar A. Murray Co., Detroit, Mich. Roach insecticide. 223,674; renewed Feb. 8, 1947. O. G. May 27. Class 6.

Murray, Edgar A., Co.: *See*—
Murray, Edgar A.

Nash, C. A., & Son, Inc., Norfolk, Va. Dry, paste, and ready-mixed paints and paint enamels. 219,993; renewed Oct. 26, 1946. O. G. May 27. Class 16.

National Blank Book Company: *See*—
National Blank Book Co.

National Blank Book Co., to National Blank Book Company, Holyoke, Mass. Loose-leaf structures, as ring books, post binders and ledgers. 225,957; renewed Mar. 29, 1947. O. G. May 27. Class 37.

New Jersey Zinc Company, The, Newark and Franklin, N. J., to The New Jersey Zinc Company, New York, N. Y. Lithopone used as a paint pigment. 224,495; renewed Mar. 1, 1947. O. G. May 27. Class 16.

Nicholas, Minoa J., New York, N. Y. Candies, salted, shelled, unshelled, and glacé nuts, fresh, canned, and dried fruits, etc. 225,402; renewed Mar. 15, 1947 O. G. May 27. Class 46.

Old Virginia Packing Company, Inc., Front Royal, Va. Fruit preserves, jellies, jams, etc. 429,959; May 27. Class 46.

Panhandle Refining Company, Wichita Falls, Tex. Paint drier. 224,315; renewed Feb. 22, 1947. O. G. May 27. Class 16.

Park Drug Co., New York, N. Y. Laxative. 225,821: renewed Mar. 29, 1947. O. G. May 27. Class 6.

Patterson Foundry & Machine Co., The, East Liverpool, Ohio. Agitators and stirrers. 225,828; renewed Mar. 29, 1947. O. G. May 27. Class 23.

People's Shoe Stores Company, Inc., The, to McCain-Wright, Inc., St. Louis, Mo. Shoes and hosiery. 225,207; renewed Mar. 15, 1947. O. G. May 27. Class 39.

Pickwick Products, Inc.: *See*—
Kansas City Wholesale Grocery Co.

Pilcher, J. V., Mfg. Company, Louisville, Ky. Powder puffs. 429,930; May 27. Class 29.

Pittsburgh Plate Glass Company, The: *See*—
Frenkel, Erich.
Pittsburgh Plate Glass Company, Rennous-Kleinle Division.

Pittsburgh Plate Glass Company, Rennous-Kleinle Division, Baltimore, Md., to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Brushes. 217,177; renewed Aug. 24, 1946. O. G. May 27. Class 29.

Plumb, Fayette R., Inc., Philadelphia, Pa. Nail hammers, tinners' hammers, riveting hammers, etc. 223,157; renewed Jan. 18, 1947. O. G. May 27. Class 23.

Plymouth Rubber Company, Inc., Canton, Mass. Friction tape. 218,836; renewed Oct. 5, 1946. O. G. May 27. Class 5.

Powell, Wylie R., doing business as Fenole Chemical Company, Jacksonville, Fla. Disinfectants, deodorants, and insecticides. 225,132; renewed Mar. 15, 1947. O. G. May 27. Class 6.

Prairie Farmer Publishing Co., The, Chicago, Ill. Weekly periodical. 226,027; renewed Mar. 29, 1947. O. G. May 27. Class 38.

Pure Oil Company, The: *See*—
Pure Oil Company.

Pure Oil Company, Philadelphia, Pa., to The Pure Oil Company, Chicago, Ill. Lubricating-oils. 59,005; re-renewed Dec. 25, 1946. O. G. May 27. Class 15.

Ralston Purina Company, St. Louis, Mo. Poultry and stock food. 61,064; re-renewed Mar. 5, 1947. O. G. May 27. Class 46.

Ricks, Incorporated, Asheboro, N. C. Children's under panties, slips, and pajamas. 429,964; May 27. Class 39.

Ruhmann Grain & Fuel Company, to Ruhmann Grain & Seed Company, Waco, Tex. Poultry and dairy feed. 225,651; renewed Mar. 22, 1947. O. G. May 27. Class 46.

Ruhmann Grain & Seed Company: *See*—
Ruhmann Grain & Fuel Company.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Arch supports. 429,954; May 27. Class 44.

Screen Patch Company: *See*—
Gittens, Sidney R.

Serman, M., & Co., New York, N. Y. Ladies' blouses and pajamas. 429,921; May 27. Class 39.

Sketch-Mor Manufacturing Co., Inc., New York, N. Y. Toy drawing and sketching sets. 429,922; May 27. Class 22.

Snell & Atherton, to Snell-Atherton-Norcross Co., Inc., Brockton, Mass. Edge-planes, welt-trimmers, edge-shaves, etc. 56,734; re-renewed Oct. 16, 1946. O. G. May 27. Class 23.

Snell-Atherton-Norcross Co., Inc.: *See*—
Snell & Atherton.

Southwest Farms: *See*—
Bush, Richard A.

Standard Electric Mfg. Co.: *See*—
Cohen, Harry A.

Star Knitting Company, La Crosse, Wis. Knitted mittens and gloves and certain other named articles of clothing. 222,208; renewed Dec. 28, 1946. O. G. May 27. Class 39.

Steinkellner Co.: *See*—
Steinkellner, Ralph G.

Steinkellner, Peter, & Co.: *See*—
Steinkellner, Ralph G.

Steinkellner, Ralph G., doing business as P. Steinkellner Co. and Peter Steinkellner & Co., San Francisco, Calif. Gelatin dessert preparation and a cream dessert preparation. 429,966; May 27. Class 46.

Strouss-Hirshberg Company, The, Youngstown, Ohio. Women's hats, women's and children's hosiery and underwear. 225,719; renewed Mar. 22, 1947. O. G. May 27. Class 39.

Sydney Ross Co., The, Newark, N. J. Preparations for the treatment of neuralgia, rheumatism, headaches, etc. 225,953; renewed Mar. 29, 1947. O. G. May 27. Class 6.

Top-Notch Manufacturing Company, Inc., El Paso, Tex. Men's and boys' outerwear garments. 429,946; May 27. Class 39.

Torrington Company, The, to The Torrington Company, Torrington, Conn. Knitting machine needles. 225,216: renewed Mar. 15, 1947. O. G. May 27. Class 23.

Towle Manufacturing Company, Newburyport, Mass. Solid and plated silver knives, forks, spoons, etc. 61,366; re-renewed Mar. 19, 1947. O. G. May 27. Class 28.

United Fruit Company, Boston, Mass., to Fruit Dispatch Company, New York, N. Y. Bananas. 220,636; renewed Nov. 16, 1946. O. G. May 27. Class 46.

Victor Chemical Co.: *See*—
Victor Chemical Company.

Victor Chemical Company, to Arthur D. Baker, doing business as Victor Chemical Co., Denver, Colo. Dry cleaner. 223,845; renewed Feb. 15, 1947. O. G. May 27. Class 4.

Wanamaker, John, New York, New York, N. Y. Sheets and pillowcases. 221,327; renewed Nov. 30, 1946. O. G. May 27. Class 16.

Wanamaker, John, Philadelphia, Philadelphia, Pa. Handkerchiefs. 225,572; renewed Mar. 22, 1947. O. G. May 27. Class 39.

Weber & Heilbroner, to Weber and Heilbroner, Inc., New York, N. Y. Men's suits. 226,112; renewed Mar. 29, 1947. O. G. May 27. Class 39.

Weber and Heilbroner, Inc.: *See*—
Weber & Heilbroner.

Weidlich Sterling Spoon Co., Bridgeport, Conn. Silverware. 429,924; May 27. Class 28.

Williams, Robert D., West Tisbury, Mass. Fresh apples, pears, plums, etc. 429,950; May 27. Class 46.

Winthrop Chemical Company, Inc.: *See*—
I. G. Farbenindustrie Aktiengesellschaft.

Wolferman, Fred, to Fred Wolferman, Inc., Kansas City, Mo. Smoked meats. 60,712; re-renewed Feb. 19, 1947. O. G. May 27. Class 46.

Wolferman, Fred, Inc.: *See*—
Wolferman, Fred.

Woodville Lime Products Company, Toledo, Ohio. Lime. 226,086; renewed Mar. 29, 1947. O. G. May 27. Class 12.

XLNT Spanish Food Co.: *See*—
Crawford, Charles C.

Zink Artificial Bait Company: *See*—
Zink, Walter L.

Zink, Walter L., doing business as Zink Artificial Bait Company, Dixon, Ill. Artificial fish bait. 429,931; May 27. Class 2.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Cups and paper cups, Paper drinking. Individual Drinking Cup Co., Inc. 223,776; renewed Feb. 8, 1947. O. G. May 27.

Cups and paper cups, Paper drinking. Individual Drinking Cup Co., Inc. 224,216; renewed Feb. 22, 1947. O. G. May 27.

CLASS 4

Cleaner, Dry. Victor Chemical Company. 223,845; renewed Feb. 15, 1947. O. G. May 27.

Soaps. Houbigant, Inc. 225,026; renewed Mar. 8, 1947. O. G. May 27.

CLASS 5

Tape, Friction. Plymouth Rubber Company, Inc. 218,836; renewed Oct. 5, 1946. O. G. May 27.

CLASS 6

Ammonium o-iodoxy benzoate. Abbott Laboratories. 224,691; renewed Mar. 1, 1947. O. G. May 27.

Baking powder and bluing, gloss starch, and salt. Kansas City Wholesale Grocery Co. 225,186; renewed Mar. 15, 1947. O. G. May 27.

Cough medicine. Fre-Lax Medicine Company. 225,857; renewed Mar. 29, 1947. O. G. May 27.

Disinfectants, deodorants, and insecticide. W. R. Powell. 225,132; renewed Mar. 15, 1947. O. G. May 27.

Exterminator, Fly. E. A. Murray. 221,884; renewed Dec. 14, 1946. O. G. May 27.

Exterminator for bugs. E. A. Murray. 221,911; renewed Dec. 14, 1946. O. G. May 27.

Hair-tonic and a shampoo. Hygenol Company. 56,662; re-renewed Oct. 16, 1946. O. G. May 27.

Insecticide, Roach. E. A. Murray. 223,674; renewed Feb. 8, 1947. O. G. May 27.

Lactate of silver, citrate of silver, and all pharmaceutical preparations of silver. Chemische Fabrik Von Heyden Gesellschaft, mit Beschrankter Haftung. 29,133; re-renewed Nov. 10, 1946. O. G. May 27.

Laxative. Park Drug Co. 225,821; renewed Mar. 29, 1947. O. G. May 27.

Perfume, toilet water, face powder, etc. Houbigant, Inc. 223,669; renewed Feb. 8, 1947. O. G. May 27.

Plaster, Medicinal. J. P. Grisi. 223,771; renewed Feb. 8, 1947. O. G. May 27.

Preparations for the treatment of neuralgia, rheumatism, headaches, etc. Sydney Ross Co. 225,953; renewed Mar. 29, 1947. O. G. May 27.

Remedies for disease of the digestive organs. S. Grover Graham Co. 56,549; re-renewed Oct. 2, 1946. O. G. May 27.

Remedy for the treatment of red water in cattle. I. G. Farbenindustrie Aktiengesellschaft. 223,407; renewed Feb. 1, 1947. O. G. May 27.

Tooth paste. A. B. Hirschman. 222,984; renewed Jan. 11, 1947. O. G. May 27.

CLASS 7

Nails, wire brads, wire spikes, etc., Wire. American Steel & Wire Company of New Jersey. 57,935; re-renewed Dec. 4, 1946. O. G. May 27.

Rope, cable, tarred lath and fodder yarns, etc. Columbian Rope Company. 61,075; re-renewed Mar. 5, 1947. O. G. May 27.

CLASS 8

Pipes, Smoking. March Corporation. 429,961; May 27.

CLASS 9

Fuses. Coast Manufacturing & Supply Co. 61,643; re-renewed Apr. 2, 1947. O. G. May 27.

CLASS 10

Soil conditioner. Mineral. Lodi Fertilizer Company. 429,953; May 27.

CLASS 12

Dolomitic hydrate. Great Lakes Industrial Laboratories. 222,881; renewed Jan. 11, 1947. O. G. May 27.

Lime. Woodville Lime Products Company. 226,086; renewed Mar. 29, 1947. O. G. May 27.

CLASS 13

Nails, wire brads, wire spikes, etc., Wire. American Steel & Wire Company of New Jersey. 57,935; re-renewed Dec. 4, 1946. O. G. May 27.

Patches, Screen. S. R. Gittens. 429,915; May 27.

CLASS 14

Bars, billets, castings, etc. American Rolling Mill Company. 224,201; renewed Feb. 22, 1947. O. G. May 27.

Nails, wire brads, wire spikes, etc., Wire. American Steel & Wire Company of New Jersey. 57,935; re-renewed Dec. 4, 1946. O. G. May 27.

CLASS 15

Lubricating-oils. Pure Oil Company. 59,005; re-renewed Dec. 25, 1946. O. G. May 27.

CLASS 16

Lithopone used as a paint pigment. New Jersey Zinc Company. 224,495; renewed Mar. 1, 1947. O. G. May 27.

Paint, Asphalt. Elliott Varnish Co. 187,878; renewed Aug. 12, 1944. O. G. May 27.

Paint drier. Panhandle Refining Company. 224,315; renewed Feb. 22, 1947. O. G. May 27.

Paints and paint enamels, Dry, paste, and ready-mixed. C. A. Nash & Son, Inc. 219,993; renewed Oct. 26, 1946. O. G. May 27.

Paints, pigments, varnishes, etc., Oil. E. Frenkel. 221,717; renewed Dec. 7, 1946. O. G. May 27.

CLASS 17

Tobacco and snuff, Smoking and chewing. Maclin-Zimmer-McGill Tobacco Co. 225,860; renewed Mar. 29, 1947. O. G. May 27.

CLASS 21

Apparatus and equipment for use in paging service. Autocall Company. 218,967; renewed Oct. 5, 1946. O. G. May 27.

Condensers, electrical switches, electrical attenuators, etc., Variable and fixed electrical. Ferris Instrument Company. 429,960; May 27.

Spark plug assemblies and component parts. H. C. Gould. 429,967; May 27.

CLASS 22

Bait, Artificial fish. W. L. Zink. 429,931; May 27.

Dolls and dolls' clothes. D. Ippolito. 429,933–41; May 27.

Game. E. S. Lowe Company, Inc. 429,948; May 27.

Toy drawing and sketching sets. Sketch-Mor Manufacturing Co., Inc. 429,922; May 27.

CLASS 23

Agitators and stirrers. Patterson Foundry & Machine Co. 225,828; renewed Mar. 29, 1947. O. G. May 27.

Die heads, taps, and threading machines. Eastern Machine Screw Corporation. 225,428; renewed Mar. 15, 1947. O. G. May 27.

Edge-planes, welt-trimmers, edge-shaves, etc. Snell & Atherton. 56,734; re-renewed Oct. 16, 1946. O. G. May 27.

Hammers, tinners' hammers, riveting hammers, etc., Nail. Fayette R. Plumb, Inc. 223,157; renewed Jan. 18, 1947. O. G. May 27.

Hatchets, axes, chisels, etc. Dunham, Carrigan & Hayden Co. 61,440–1; re-renewed Mar. 19, 1947. O. G. May 27.

Needles, Knitting machine. Torrington Company. 225,216; renewed Mar. 15, 1947. O. G. May 27.

CLASS 26

Lenses, Ophthalmic. Continental Optical Corporation. 223,894; renewed Feb. 15, 1947. O. G. May 27.

CLASS 27

Horological instruments. Harman Watch Company. 429,965; May 27.

Watches. Emerson Jewelry Company, Inc. 429,949; May 27.

CLASS 28

Diamonds and precious and semi-precious stones, finger rings, etc. Morris Kaplan & Sons. 429,968; May 27.

Jewelry clips, brooches, earrings, etc. Becker & Darvie Fashion Jewelry Co. 429,944; May 27.

Knives, forks, spoons, etc., Solid and plated silver. Towle Manufacturing Company. 61,366; re-renewed Mar. 19, 1947. O. G. May 27.

Silverware. L. Bamberger & Co. 224,567; renewed Mar. 1, 1947. O. G. May 27.

Silverware. Weidlich Sterling Spoon Co. 429,924; May 27.

CLASS 29

Brushes. Pittsburgh Plate Glass Company, Rennous-Kleinle Division. 217,177; renewed Aug. 24, 1946. O. G. May 27.

Brushes and denture brushes, Tooth. C. M. Banta. 429,947; May 27.

Puffs, Powder. J. V. Pilcher Mfg. Company. 429,930; May 27.

CLASS 31

Cabinets, Freezing. R. L. Hackett. 429,932; May 27.

CLASS 34

Fans, electric air circulators, attic fans, etc., Electric. H. A. Cohen. 429,918; May 27.

CLASS 36

Accordions, adjustable instrument, banjos, etc. Continental Music Company. 223,324; renewed Feb. 1, 1947. O. G. May 27.

CLASS 37

Loose-leaf structures, as ring books, post binders, and ledgers. National Blank Book Co. 225,957; renewed Mar. 29, 1947. O. G. May 27.

Paper, Writing. Eastern Tablet Corporation. 429,955; May 27.

CLASS 38

Booklets, circulars, and pamphlets. Missouri-Kansas-Texas Railroad Company. 224,514; renewed Mar. 1, 1947. O. G. May 27.

Booklets, circulars, and pamphlets. Missouri-Kansas-Texas Railroad Company. 224,857; renewed Mar. 8, 1947. O. G. May 27.

Newspaper, Daily. Illinois Publishing & Printing Company. 219,292; renewed Oct. 12, 1946. O. G. May 27.

Newspaper, Daily. Light Publishing Company. 219,291; renewed Oct. 12, 1946. O. G. May 27.

Periodical, Weekly. Prairie Farmer Publishing Co. 226,027; renewed Mar. 29, 1947. O. G. May 27.

CLASS 39

Blouses and pajamas, Ladies'. M. Serman & Co. 429,921; May 27.

Blouses, Women's and misses'. Hendaye, Ltd. 429,916; May 27.

Clothing, Boys'. Delta Mfg. Co., Inc. 429,925; May 27.

Coats, suits, jackets, etc., Ladies', misses', and junior misses'. C. Krim. 429,957; May 27.

Dresses. Crystal Juniors, Inc. 429,919; May 27.

Dresses, Ladies' and misses'. Ann Adams, Inc. 429,958; May 27.

Dresses, women's suits, waists, etc., Women's. Benal Dress Co., Inc. 429,917; May 27.

Dressing gowns, Men's. S. L. Hoffman. 225,533; renewed Mar. 22, 1947. O. G. May 27.

Garments, Ready-made. M. B. Brummer. 29,126; re-renewed Nov. 10, 1946. O. G. May 27.

Handkerchiefs. John Wanamaker Philadelphia. 225,572; renewed Mar. 22, 1947. O. G. May 27.

Hats, women's and children's hosiery, and underwear, Women's. Strouss-Hirshberg Company. 225,719; renewed Mar. 22, 1947. O. G. May 27.

Hosiery. Harrington & Waring. 429,962; May 27.

Hosiery. McAllester Hosiery Mills Inc. 429,929; May 27.

Mittens and gloves and certain other articles of clothing, Knitted. Star Knitting Company. 222,208; renewed Dec. 28, 1946. O. G. May 27.

Outerwear garments, Men's and boys'. Top-Notch Manufacturing Company, Inc. 429,946; May 27.

Outerwear, Knitted. Morrison Knitwear Co. 429,913; May 27.

Overcoats, Men's. Foreman & Clark. 429,920; May 27.

Panties, slips, and pajamas, Children's under. Ricks, Incorporated. 429,964; May 27.

Raincoats, raincapes, suits, etc., Ladies', misses', and children's. Franz Mayer Co. 429,963; May 27.

Shirts, Men's outer. Hipsh, Inc. 429,926; May 27.

Shoes and hosiery. People's Shoe Stores Company, Inc. 225,207; renewed Mar. 15, 1947. O. G. May 27.

Shoes, Children's leather. A. G. Behn. 225,464; renewed Mar. 22, 1947. O. G. May 27.

Slacks, rayon mufflers, gloves, etc., Men's and boys' woolen. Emtee Slacks, Inc. 429,945; May 27.

Suits, Men's. Weber & Hellbroner. 226,112; renewed Mar. 29, 1947. O. G. May 27.

Sweaters, jackets, skirts, etc., Women's. Glenn Scot Sportswear. 429,956; May 27.

Textile articles. Bear Brand Hosiery Co. 219,637; renewed Oct. 19, 1946. O. G. May 27.

Underwear. B. V. D. Company, Inc. 224,585; renewed Mar. 1, 1947. O. G. May 27.

Underwear and knitted outerwear, Men's, boys', and children's. Associated Knitted Outerwear Mills, Inc. 429,914; May 27.

Wearing apparel. Howard C. Mohn Hosiery Co. 429,928; May 27.

CLASS 40

Safety pins of nonprecious metal. Delong Hook and Eye Company. 225,491; renewed Mar. 22, 1947. O. G. May 27.

CLASS 42

Blankets, Textile. Esmond Mills. 225,546; renewed Mar. 22, 1947. O. G. May 27.

Sheets and pillowcases. John Wanamaker New York. 221,327; renewed Nov. 30, 1946. O. G. May 27.

Silk piece goods and silk velvets in the piece. Knickerbocker Silk Co. 226,015; renewed Mar. 29, 1947. O. G. May 27.

Woolen dress goods in the piece. Atlantic Mills. 223,652; renewed Feb. 8, 1947. O. G. May 27.

Woolen piece goods. Forstmann & Huffmann Company. 219,070; renewed Oct. 12, 1946. O. G. May 27.

Woolen piece goods. Forstmann & Huffmann Company. 219,077; renewed Oct. 12, 1946. O. G. May 27.

CLASS 44

Arch supports. Scholl Mfg. Co., Inc. 429,954; May 27.

Knives and parts thereof, Surgical. Gillette Safety Razor Company. 225,930; renewed Mar. 29, 1947. O. G. May 27.

Nipples. Meinecke & Co. 29,722; re-renewed Mar. 23, 1947. O. G. May 27.

CLASS 45

Mineral water. Apollinaris Company Limited. 58,006; re-renewed Dec. 4, 1946. O. G. May 27.

Sparkling water. Great Bear Spring Company. 225,535; renewed Mar. 22, 1947. O. G. May 27.

Sparkling water. Great Bear Spring Company. 225,663; renewed Mar. 22, 1947. O. G. May 27.

CLASS 46

Apples, pears, plums, etc., Fresh. R. D. Williams. 429,950; May 27.

Baking powder and bluing, gloss starch, and salt. Kansas City Wholesale Grocery Co. 225,186; renewed Mar. 15, 1947. O. G. May 27.

Bananas. United Fruit Company. 220,636; renewed Nov. 16, 1946. O. G. May 27.

Butter, eggs, cheese, etc. Holland Butter Company. 218,485; renewed Sept. 28, 1946. O. G. May 27.

Candies; salted, shelled, unshelled, and glacé nuts; fresh, canned, and dried fruits, etc. M. J. Nicholas. 225,402; renewed Mar. 15, 1947. O. G. May 27.

Canned vegetables, canned fruit, dried fruit, etc. Kansas City Wholesale Grocery Co. 225,711; renewed Mar. 22, 1947. O. G. May 27.

Cherries, apricots, peaches, etc., Fresh. California Fruit Exchange. 224,869; renewed Mar. 8, 1947. O. G. May 27.

Dessert preparation and a cream dessert preparation, Gelatine. R. G. Steinkellner. 429,966; May 27.

Feed, Poultry and dairy. Ruhmann Grain & Fuel Company. 225,651; renewed Mar. 22, 1947. O. G. May 27.

Food gelatin. Cherry-Burrell Corporation. 429,912; May 27.

Food product, Cheese. Clearfield Cheese Co., Inc. 429,942; May 27.

Frozen confection. J. W. Dubraks. 225,061; renewed Mar. 8, 1947. O. G. May 27.

Fruits, grapes, berries, etc., Frozen deciduous. Monmouth Products Co., Inc. 429,927; May 27.

Hams. Harvey's. 429,951; May 27.

Honey. Los Angeles Honey Co. 429,943; May 27.

Meats, Smoked. F. Wolferman. 60,712; renewed Feb. 19, 1947. O. G. May 27.

Pies, Frozen. W. W. Cease. 429,923; May 27.

Poultry and stock food. Ralston Purina Company. 61,064; re-renewed Mar. 5, 1947. O. G. May 27.

Preserves, jellies, jams, etc., Fruit. Old Virginia Packing Company, Inc. 429,959; May 27.

Tamales and canned products, Uncanned. C. C. Crawford. 218,877; renewed Oct. 5, 1946. O. G. May 27.

Vegetables and fresh melons, Fresh. R. A. Bush. 429,952; May 27.

Wheat-flour. Ismert-Hincke Milling Company. 60,681–2; re-renewed Feb. 19, 1947. O. G. May 27.

CLASS 48

Porter. J. Labatt. 57,040; re-renewed Oct. 30, 1946 O. G. May 27.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

General Electric Company, assignee: *See*—
Kline, Halsey W.

Heyer, Benjamin F. W., Tenafly, assignor to J. J. McDonough, trustee, Newark, N. J. Battery charging thermostat. Re. 22,883; May 27.

Kline, Halsey W., Schenectady, N. Y., assignor to General Electric Company. Radio transmission system. Re. 22,884; May 27.

McDonough, John J., assignee, trustee: *See*—
Heyer, Benjamin F. W.

Press, Jack, Rahway, N. J. Leakproof container. Re. 22,885; May 27.

LIST OF DESIGN PATENTEES

Baby World Company, Inc., assignee: *See*—
Daniels, Alan.

Bartlett, Ivan, Long Beach, Calif., assignor to Edgar C. Hyman Co., New York, N. Y. 146,821; May 27.

Cocke, Harold E., Oakland, Calif. Butter cutter. 146,822; May 27.

Daniels, Alan, assignor to Baby World Company, Inc., New York, N. Y. Comb. 146,823; May 27.

Goodwin, Jay L., Tujunga, Calif. Spoon. 146,824; May 27.

Gottschalk, Rose, assignor to Edgar C. Hyman Co., New York, N. Y. Scarf. 146,825; May 27.

Gottschalk, Rose, assignor to Edgar C. Hyman Co., New York, N. Y. Scarf. 146,826; May 27.

Grossman Music Company, assignee: *See*—
Thompson, Josephus.

Herman, Joseph S.: *See*—
Herman, Stephen B. and J. S.

Herman, Stephen B., Cleveland, and J. S. Herman, Brooklyn Village, Ohio. Ash tray holder or similar article. 146,827; May 27.

Howard, Viola T., Saylesville, R. I., assignor to Swank, Inc. Necktie holder. 146,828; May 27.

Hyman, Edgar C., Co., assignee: *See*—
Bartlett, Ivan.

Kastner, Mortimer M., Montreal, Quebec, Canada. Game board. 146,829; May 27.

Kendall, Paul D.: *See*—
Tresise, Raleigh E., and Kendall.

Kimmelstiel, Ruth M., New York, N. Y. Napkin holder. 146,830; May 27.

London, Murrey M., assignor to California Slack Rack Co., Venice, Calif. Combined tie, trouser, and jewelry holder. 146,831; May 27.

O'Connell, Daniel C., New York, N. Y., assignor to Sterno, Inc. Buffet chafing dish. 146,832; May 27.

Paraphone Hearing Aid, Inc., assignee: *See*—
Tresise, Raleigh E., and Kendall.

Peterson, James E., Los Angeles, Calif. Cork puller. 146,833; May 27.

Provol, George J., Winnetka, Ill. Toy goose. 146,834; May 27.

Slack Rack Co., assignee: *See*—
London, Murrey M.

Sternberger, Arthur, New York, N. Y. Skirt or similar article. 146,835; May 27.

Sterno, Inc., assignee: *See*—
O'Connell, Daniel C.

Stevens, Clifford B., Milwaukee, assignor to Wheary Incorporated, Racine, Wis. Handle for hand luggage. 146,836; May 27.

Swank, Inc., assignee: *See*—
Howard, Viola T.

Thompson, Josephus, Covington, assignor of one-third to Grossman Music Company, Cleveland, Ohio. Multitone whistle. 146,837; May 27.

Tresise, Raleigh E., Cleveland Heights, and P. D. Kendall, Maple Heights, assignors to Paraphone Hearing Aid, Inc., Cleveland, Ohio. Casing for hearing aid apparatus. 146,838; May 27.

Tresise, Raleigh E., Cleveland Heights, and P. D. Kendall, Maple Heights, assignors to Paraphone Hearing Aid, Inc., Cleveland, Ohio. Casing for hearing aid apparatus. 146,839; May 27.

Vinnedge, George E., Fort Worth, Tex. Combination sundial and bird bath. 146,840; May 27.

Wheary Incorporated, assignee: *See*—
Stevens, Clifford.

Wolfe, Russell J., Buffalo, N. Y. Vacuum cleaner. 146,841; May 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF MAY, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adams, David, Detroit, Mich. Demountable wheel. 2,421,176; May 27.

Adams, Joseph, Chicago, Ill., assignor, by meane assignments, to Regents of the University of Minnesota, Minneapolis, Minn. Producing crystals of nordihydroguaiaretic acid. 2,421,109; May 27.

Adams, Paul R.: *See*—
Deloraine, Edmond M., and Adams.

Agins, George, Brooklyn, N. Y., assignor to Arma Corporation. Electrohydraulic position control. 2,421,230; May 27.

Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Burnett, Raymond S., and Roberts.

Air Reduction Company, Incorporated, assignee: *See*—
Tyrner, Joseph M.

Aktiebolaget Thulinverken, assignee: *See*—
Von Sneidern, Arne A.

Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Huber, Jakob.

Albrecht, William T., Detroit, Mich. Garment hanger. 2,421,307; May 27.

Allen, Walter F., Los Angeles, Calif. Chipping apparatus. 2,421,231; May 27.

Alox Corporation, assignee: *See*—
Shields, James E., and Reilly.

Amac Refinements Limited, assignee: *See*—
MacKenzie, Albert K.

American Chain & Cable Company, Inc., assignee: *See*—
Delano, Howard A.

American Cyanamid Company, assignee: *See*—
Scalera, Mario.

American Display Company, The, assignee: *See*—
Dunkelberger, Milton S.

American Laundry Machinery Company, The, assignee: *See*—
Johnson, George W.

American Smelting and Refining Company, assignee: *See*—
Lindner, Karl A., Morrison, and Busche.

American Steel Foundries, assignee: *See*—
Kinne, Edmund P.

American Steel and Wire Company of New Jersey, The, assignee: *See*—
Harter, Noah S.

Anderson, Frederick, and F. D. Couzzen, Hawthorne; said Anderson assignor to A. Brearley and V. M. Bramel, Monterey Park, Los Angeles, Calif. Venetian blind. 2,421,308; May 27.

Anderson, Reuben B., St. Paul, Minn. Window construction. 2,421,309; May 27.

Antepenko, Alexander S., Berwyn, Ill. Lacing probe. 2,421,110; May 27.

Apfelbaum, Huna L., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Nasal inhaler. 2,421,177; May 27.

Applegate, Walter N., Point Pleasant, N. J., and C. A. Petersen, Brooklyn, N. Y. Display support or fixture. 2,421,232; May 27.

Arma Corporation, assignee: *See*—
Agins, George.
Davis, Arthur P.

Armatys, Edward, assignor to Interchemical Corporation, New York, N. Y. Textile decorating composition. 2,421,000; May 27.

Arrow-Hart & Hegemann Electric Company, The, assignee: *See*—
Schleicher, Harold E.

Ash, Harry K., Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Coating composition comprising cellulose-aceto-propionate and an alkyd resin. 2,421,001; May 27.

Attorney General of the United States, assignee: *See*—
Pier, Mathias, and Christmann.

Auchincloss, Reginald, and F. Linsker, New York, N. Y. Ureido acid esters and making the same. 2,421,233; May 27.

Auto Arc-Weld Manufacturing Co., The, assignee: *See*—
Ekins, William J.

Autogiro Company of America, assignee: *See*—
De la Cierva, Juan.

Automatic Electric Laboratories Inc., assignee: *See*—
Hadfield, Bertram M.
Parker, Leslie K.
Taylor, Reginald, and Baker.

Avco Manufacturing Corporation, assignee: *See*—
Vutz, Wilhelm.

Avery, Harold T., Oakland, Calif., assignor to Marchant Calculating Machine Company. Carriage shifting mechanism. 2,421,111; May 27.

Ayers, Joseph W., Easton, Pa., assignor to Phillips Petroleum Company, Bartlesville, Okla. Apparatus for the manufacture of amorphous carbon. 2,420,999; May 27.

Babcock, Albert L., Newark, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Tensile strength testing apparatus. 2,421,002; May 27.

Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron lens assembly. 2,421,234; May 27.

Baier, Willard E., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Recovery of naringin. 2,421,063; May 27.

Baker, George T.: *See*—
Taylor, R., and Baker.

Baker, Morton H., Brookline, and J. F. Blackburn, Cambridge, Mass., assignors, by mesne assignments, to United States of America, as represented by the Secretary of War. 2,421,178; May 27.

Baker, Thomas A., Logansport, Ind. Fluid flow responsive device. 2,421,003; May 27.

Baldwin Locomotive Works, The, assignee: *See*—
Schaevitz, Herman.

Ballamy, Leslie M., Caterham, and R. H. Sheepshanks, Eyke, Woodbridge, England. Looper mechanism for sewing machines. 2,421,179; May 27.

Bardons and Oliver, Inc., assignee: *See*—
Kylin, Oskar and H. O.

Barnhart, Edgar W., assignor to The General Excavator Company, Marion, Ohio. Dual steering mechanism. 2,421,139; May 27.

Barrett, Harry B., Ladue, Mo. Equipment for grinding brake-shoe lining sections. 2,421,180; May 27.

Bartsch, Cornelius, Van Nuys, Calif. Berry box carrier. 2,421,048; May 27.

Basinger, Elmer A., Washington, D. C. Direct drive vacuum cleaner agitator roller. 2,421,235; May 27.

Bassick Company, The, assignee: *See*—
Herold, Walter F.

Batchelder, James W., Alstead, N. H. Stud bolt. 2,421,181; May 27.

Baxter Laboratories, Inc., assignee: *See*—
Brandon, Wayne D.

Bay Chemical Company, Inc., assignee: *See*—
Comstock, Rock L.

Bayne, Robert T., Manitowoc, Wis. Stroboscope. 2,421,182; May 27.

Beesch, Samuel C., and D. A. Legg, Philadelphia, Pa., assignors to Publicker Industries Inc. Fermenting carbohydrates to produce butanol and isopropanol. 2,420,998; May 27.

Bell, Cleo D., Spokane, Wash. Wire insulation cutting tool. 2,421,049; May 27.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Ellwood, Walter B.
Frosch, Carl J.
Hall, John A., and Mason.
King, Archie P.
Mason, Warren P.
McKim, Burton.
McLean, David A.
Walsh, Edward G.

Bendix Aviation Corporation, assignee: *See*—
Linton, Thomas B.
Miller, Joseph R.
Rylsky, Gregory V.
Stamper, Hamilton A.

Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Electric circuit interrupter. 2,421,236; May 27.

Berger, Henry G., Glen Rock, and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company Incorporated. Mineral oil composition. 2,421,004; May 27.

Bergh, Charles J., assignor to Jacobsen Manufacturing Company, Racine, Wis. Air charger for jet pumps. 2,421,237; May 27.

Berlincourt, William E., Montreal, Quebec, Canada. Watchmaker's staking tool and jewel setter. 2,421,310; May 27.

Bibicoff, Hilarion, Belleville, Mich. Clutch actuator. 2,421,050; May 27.

Binnington, Donald S., Minneapolis, Minn., assignor to General Mills, Inc. Steam generator. 2,421,311; May 27.

Blackburn, John F.: *See*—
Baker, Morton H., and Blackburn.

Blaner, John, Sharon, Pa. Christmas tree stand. 2,421,140; May 27.

Boardman, Harry D., assignee: *See*—
Merriman, Henry H.

Bobb, Lloyd J., Glenside, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Deflection signal generator for polar scanning of cathode-ray tubes. 2,421,312; May 27.

Borah, John E., Penn Township, St. Joseph County, Ind. Reinforced collapsible paperboard container. 2,421,238; May 27.

Borg-Warner Corporation, assignee: *See*—
McCulloch, Robert P., and Ryde.
Swennes, Benjamin A.

Bramel, Vera M., assignee, et al.: *See*—
Anderson, Frederick, and Couzzen.

Brandon, Wayne D., Skokie, assignor to Baxter Laboratories, Inc., Glenview, Ill. Closure for containers. 2,421,313; May 27.

Bray, Frederick H., and L. R. Brown, assignors to Standard Telephones and Cables Limited, London, England. Circuit for counting electrical impulses. 2,421,005; May 27.

Brearley, Albert, assignee, et al.: *See*—
Anderson, Frederick, and Couzzen.

Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Hydroxylating pot type burner. 2,421,006; May 27.

Brinkman, Carl F., Milwaukee, Wis. Clothes hanger. 2,421,051; May 27.

Brinkoeter, Paul H., assignor to Ed. Friedrich, Inc., San Antonio, Tex. Open top refrigerated display case. 2,421,314; May 27.

Brooks, William H., San Francisco, Calif. Fruit cake method. 2,421,112; May 27.

Brown, Alexander P., Beechhurst, N. Y. Piano action. 2,421,239; May 27.

Brown, Leslie R.: *See*—
Bray, Frederick H., and Brown.

Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle steering spindle mounting. 2,421,007; May 27.

Burch, Roy F., Sr., Denver, Colo. Hair-waving rod. 2,421,008; May 27.

Burkholder, Alden H.: *See*—
Kline, Hayden B., and Burkholder.

Burnett, Raymond S., and E. J. Roberts, New Orleans, La., assignors to United States of America, as represented by the Secretary of Agriculture. Vegetable protein hydrates. 2,421,113; May 27.

Busche, Adolph: *See*—
Lindner, Karl A., Morrison, and Busche.

Busignies, Henri G., Forest Hills, N. Y., and A. G. Richardson, Boonton, N. J., assignors to Federal Telephone and Radio Corporation. Direction finding system. 2,421,009; May 27.

Cakebread, Courtenay, Fortyhill, Enfield, England. Apparatus for spraying powders, atomized liquids, and the like. 2,421,183; May 27.

California Fruit Growers Exchange, assignee: *See*—
Baier, Willard E.
Higby, Ralph H.
Thompson, Donald R.
Wilson, Clarence W.

California Institute Research Foundation, assignee: *See*—
Haagen-Smith, Arie J.

Camburn, Elwyn, Logan, Utah. Casting rod. 2,421,240; May 27.

Cameron, William J., Chicago, Ill. Apparatus for reading blood-pressure and pulse. 2,421,114; May 27.

Campbell, Daniel C.: *See*—
Groebe, John L., Reeves, and Campbell.

Candy, Albert M., La Grange, assignor to Hollup Corporation, Chicago, Ill. Apparatus for electric welding of studs. 2,421,184; May 27.

Cantley, Joseph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Magazine. 2,421,052; May 27.

Cape, Arthur T.: *See*—
Griswold, Howard L., and Cape.

Carbide and Carbon Chemicals Corporation, assignee: *See*—
Kratz, Edouard M.
Toussaint, Walter J., and Dunn.

Card, William C., Jr., Winthrop, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Sole treating apparatus. 2,421,053; May 27.

Carlson, Arnold, Trumbull, assignor to F. L. Lindstrom, Bridgeport, Conn. Securing laminations on a rotor shaft. 2,421,115; May 27.

Carr, Trem, Hollywood, Calif. Dispensing package. 2,421,141; May 27.

Carrier Corporation, assignee: *See*—
Goddard, Merrill B.
Shawhan, Sam F.

Carson, Boyce G., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chromium complex of monazo pyrazolone. 2,421,315; May 27.

Carson, Kenneth J., North Caldwell, and J. M. Kelly, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrolytic etching bath. 2,421,316; May 27.

Cavedon, Alexander, Woonsocket, R. I. Method of and apparatus for producing nubbed yarns. 2,421,010; May 27.

Celanese Corporation of America, assignee: *See*—
Thomas, Allan C.

Chandler, Austin S.: *See*—
Lakso, Eino E., and Chandler.

Chapin, Reynold S., Flushing, assignor to Press Wireless, Inc., New York, N. Y. Carrier-shift signal control circuits. 2,421,054; May 27.

Cherry-Burrell Corporation, assignee: *See*—
Dalzell, Charles B., and Wyman.

Chevigny, Paul G., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Metal-cutting system. 2,421,011; May 27.

Chew, Thornton W., U. S. Navy. Homing system. 2,421,012; May 27.

Christmann, Friedrich: *See*—
Pier, Mathias, and Christmann.

Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Liquid-quenched switch. 2,421,241; May 27.

Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic washing machine and method. 2,421,242; May 27.

Clark, Lewis P., Akron, Ohio. Control for lighting effects. 2,421,116; May 27.

Clayton Manufacturing Company, assignee: *See*—
Griswold, Donald G.

Cleveland Clinic Foundation, assignee: *See*—
Gardner, William J.

Coast Reduction, Inc., assignee: *See*—
Griswold, Howard L., and Cape.

Commercial Solvents Corporation, assignee: *See*—
Dale, Julian K.
Senkus, Murray.

Compo Shoe Machinery Corporation, assignee: *See*—
Card, William C., Jr.

Comstock, Rock L., Weeks, assignor to Bay Chemical Company, Inc., New Orleans, La. Dustless salt and process. 2,421,185; May 27.

Continental Can Company, Inc., assignee: *See*—
Maier, Curtis E.

Copperweld Steel Company, assignee: *See*—
Pyle, Ralph D.

Cornwell, Ralph E., La Canada, Calif. Hydraulic driving, braking, and free wheeling mechanism for vehicles. 2,421,013; May 27.

Coss, George R., and K. M. Hammell, Detroit, Mich., assignors to Eureka Williams Corporation. Garbage grinder of the vertical axis rotary hammer type. 2,421,014; May 27.

Conch, Glenn F., assignor to The Symington-Gould Corporation, Rochester, N. Y. Railway truck. 2,421,317; May 27.

Couzzen, Frank D.: *See*—
Anderson, Frederick, and Couzzen.

Cowan, Irma M., Chicago, Ill. Safety pouch. 2,421,055; May 27.

Crane Co., assignee: *See*—
Patrick, John A.

Crater, Willard D., Jr.: *See*—
Warner, Arthur J., and Crater.

Curtis, Ernest B., Yonkers, assignor to R. T. Vanderbilt Co., Inc., New York, N. Y. Vulcanization accelerator. 2,421,243; May 27.

Curtis, Helene, Industries, Inc., assignee: *See*—
Grant, Samuel.
Reininger, Carl A.

Cutler-Hammer, Inc., assignee: *See*—
Eckstein, James F.
Newman, John M.

Daiber, Ome C., Seattle, Wash. Packboard. 2,421,244; May 27.

Dake, George E., and E. F. Speiden, assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Conveyor control system. 2,421,056; May 27.

Dale, Julian K., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Obtaining crystalline riboflavin. 2,421,142; May 27.

Dalzell, Charles B., and E. Wyman, Little Falls, N. Y., assignors to Cherry-Burrell Corporation, Wilmington, Del. Heat exchange element. 2,421,245; May 27.

Darland, Edison M., and C. Kassebaum, Rockford, Ill. Grinder wheel dresser. 2,421,143; May 27.

David, Roger H., St. Paul, Minn. Coated shoe polish stick and coating same. 2,421,246; May 27.

Davidson, Harold B., U. S. Navy. Salvage device. 2,421,015; May 27.

Davis, Arthur P., New York, N. Y., assignor to Arma Corporation. Motion reproducing system. 2,421,247; May 27.

Deere & Company, assignee: *See*—
Korum, Henry E.
White, Charles H.

De Forest, Lee, Los Angeles, Calif., assignor to Allen B. Du Mont Laboratories, Inc. Method of and apparatus for determining absolute altitude. 2,421,248; May 27.

De la Cierva, Juan, Madrid, Spain, assignor, by mesne assignments, to Autogiro Company of America. Sustaining-rotor-equipped aircraft, including autorotatable rotor construction and the regulation of rotor blade pitch. 2,421,364; May 27.

De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fluid pressure motor of the expansible chamber type with piston operated snap action valve. 2,421,318; May 27.
Delano, Howard A., York, Pa., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Chain link. 2,421,186; May 27.
Deloraine, Edmond M., and E. Labin, New York, N. Y., asignors to Federal Telephone and Radio Corporation. Radar testing apparatus. 2,421,016; May 27.
Deloraine, Edmond M., New York, N. Y., and P. R. Adams, Cranford, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Communication and guiding system. 2,421,017; May 27.
Delsole, Joseph H., assignor to Olin Industries, Inc., New Haven, Conn. Extractor-and-breech-bolt assembly for firearms. 2,421,249; May 27.
De Rosa, Louis A., Staten Island, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Radio detection system. 2,421,018; May 27.
Derungs, Ernest A., Le Locle, Switzerland. Braking device regulated by motor speed and load. 2,421,187; May 27.
Derungs, Ernest A., Le Locle, Switzerland. Transmission control device. 2,421,188; May 27.
De Swart, Jan, Los Angeles, Calif., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio. Lipstick holder. 2,421,250; May 27.
Dial Light Co. of America, Inc., assignee: *See—*
  Foreman, Paul.
Dillon, Harry R., Niagara Falls, N. Y. Supporting frame for fabricating material. 2,421,189; May 27.
Dodge, Adiel Y., Rockford, Ill. Hydraulic transmission control. 2,421,190; May 27.
Doherty, William H., Elmhurst, N. Y. Supporting frame for articles of footwear. 2,421,019; May 27.
Donnelly, William J., New Britain, Conn. Steam trap. 2,421,144; May 27.
Downer, Richard F.: *See—*
  Johnstone, Roy L., and Downer.
Du Mont, Allen B., Laboratories, Inc., assignee: *See—*
  De Forest, Lee.
Dunham, George W., Westport, Conn., assignor to General Electric Company. Supporting means for vertical axis washing machine spinner baskets. 2,421,251; May 27.
Dunham, George W., Westport, Conn., assignor to General Electric Company. Tub construction for two-tub spinner type clothes washing machines. 2,421,252; May 27.
Dunkelberger, Milton S., assignor to The American Display Company, Dayton, Ohio. Adjustable reflector. 2,421,057; May 27.
Dunn, Jesse T.: *See—*
  Toussaint, Walter J., and Dunn.
Du Pont, E. I., de Nemours & Company, assignee: *See—*
  Carson, Boyce G.
  Haefele, Walter R.
Durdin, Augustus C., Jr., assignee, et al: *See—*
  Durdin, Augustus C., III.
Durdin, Augustus C., III, Rockford, Ill., assignor of twenty four per cent to L. H. Durdin, Franklin, Pa., and fifty two per cent to A. C. Durdin, Jr.; The Northern Trust Company, executor of said A. C. Durdin, Jr., deceased. Mechanical aerating device. 2,421,191; May 27.
Durdin, Lewis H., assignor, et al.: *See—*
  Durdin, Augustus C., III.
Earp, Charles W., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Detection of obstacles by electromagnetic waves. 2,421,020; May 27.
Eckstein, James F., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Apparatus for producing heat insulating handles. 2,421,058; May 27.
Ehret, John, Jr., Trenton, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Filament scraper. 2,421,319; May 27.
Ekins, William J., assignor to The Auto Arc-Weld Manufacturing Co., Cleveland, Ohio. Clothesline pulley assembly. 2,421,059; May 27.
Elastic Stop Nut Corporation of America, asignee: *See—*
  Hallock, Robert L.
Electraulic Presses Limited, assignee: *See—*
  Towler, John M., and F. H.
Ellwood, Walter B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spot-welding machine. 2,421,021; May 27.
Emery Industries, Inc., assignee: *See—*
  Myers, Latimer D., and Muckerheide.
Engelhardt, Hugo, assignee, et al.: *See—*
  Schwartz, John L.
Engstrom, Ralph W., Lancaster, Pa., assignor to Radio Corporation of America. Multicathode phototube. 2,421,192; May 27.
Ernest, Joseph C., assignor to Mid-West Refineries, Inc., Grand Rapids, Mich. Desulphurizing hydrocarbon oils. 2,421,320; May 27.
Eureka Williams Corporation, assignee: *See—*
  Coss, George R., and Hammell.
Ex-Cell-O Corporation, assignee: *See—*
  Hoffer, James F.

Federal Telephone and Radio Corporation, assignee: *See—*
  Babcock, Albert L.
  Busignies, Henri G., and Richardson.
  Chevigny, Paul G.
  Deloraine, Edmond M., and Labin.
  De Rosa, Louis A.
  Frink, Frederick W.
  Grieg, Donald D.
  Marchand, Nathan.
  Segerstrom, Carl A., Jr.
  Warner, Arthur J., and Crater.
Field, Oscar S.: *See—*
  Wight, Sedgwick N., and Field.
Fleischner, Richard P., Scarsdale, N. Y. Wrist watch attachment. 2,421,253; May 27.
Forman, Paul, Bronx, assignor to Dial Light Co. of America, Inc., New York, N. Y. Gaseous conduction lamp socket. 2,421,321; May 27.
Francis, Oliver T., Renville, Minn. Duration impulse receiver. 2,421,022; May 27.
Frazin, Benjamin, New York, N. Y. Shopping cart. 2,421,322; May 27.
Friden Calculating Machine Co., Inc., assignee: *See—*
  Moody, John L.
Friedrich, Ed., Inc., assignee: *See—*
  Brinkoeter, Paul H.
Frink, Frederick W., East Orange, N. J., assignor to Federal Telephone and Radio Corporation. Defining radio courses. 2,421,023; May 27.
Froelich, Gustave H., assignor to The Torrington Manufacturing Company, Torrington, Conn. Wheel and shaft assembly means. 2,421,254; May 27.
Frosch, Carl J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Linear polymer containing cyclic imide groups. 2,421,024; May 27.
Fruengel, Hermann R., assignor to Zipp Fastener Company Limited, London, England. Manufacture of sliding clasp fasteners. 2,421,323; May 27.
Fuller, Everett W.: *See—*
  Berger, Henry G., and Fuller.
Fyler, George W., Stratford, Conn., assignor to General Electric Company. Ultra high frequency oscillator. 2,421,255; May 27.
G. Q. Parachute Company, Limited, assignee: *See—*
  Jones, George F.
Galford, Everett H., Charleston, W. Va. Plumb line reel. 2,421,256; May 27.
Gardner, William J., Cleveland Heights, Ohio, assignor to Cleveland Clinic Foundation. Surgical dressing. 2,421,193; May 27.
Geigy Company, Inc., assignee: *See—*
  Skeuse, Thomas, Jr.
General Aniline & Film Corporation, assignee: *See—*
  Jacobson, Carl H.
General Controls Co., assignee: *See—*
  Ray, William A.
General Electric Company, assignee: *See—*
  Bachman, Charles H.
  Bennett, Ralph S.
  Clark, Frank M.
  Dunham, George W.
  Fyler, George W.
  Johnson, Wallace M.
  Lafferty, James M.
  Stephens, Howard O.
  Sutherland, James R.
General Excavator Company, The, assignee: *See—*
  Barnhart, Edgar W.
General Mills, Inc., assignee: *See—*
  Binnington, Donald S
General Motors Corporation, assignee: *See—*
  Clark, Kendall.
General Panel Corporation, assignee: *See—*
  Wachsmann, Konrad L., and Gropius.
General Railway Signal Company, assignee: *See—*
  O'Brien, John C.
  Wight, Sedgwick N., and Field.
Genter, Albert H., Mount Lebanon, Pa. Railhead clamp. 2,421,257; May 27.
Gibson, James G., Vancouver, British Columbia, Canada. Building log rafts. 2,421,145; May 27.
Gilbert & Barker Manufacturing Company, assignee: *See—*
  De Lancey, Warren H.
Gisvold, Ole, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Producing plant extracts. 2,421,117; May 27.
Gisvold, Ole, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Plant extracts and producing same. 2,421,118; May 27.
Given, David M., Jr., Newark, N. J. Suction actuated motor for windshield wipers. 2,421,194; May 27.
Goddard, Merrill B., Chicago, Ill., assignor to Carrier Corporation, Syracuse, N. Y. Control arrangement for refrigeration apparatus. 2,421,258; May 27.
Goldberg, Herman R., Brooklyn, N. Y. Device to teach speech to deaf and hard of hearing students and others. 2,421,146; May 27.

Goldberg, Samuel D.: *See—*
  Reasenberg, Julian R., and Goldberg.
Goldsmith, Pauline, New York, N. Y. Apron. 2,421,195; May 27.
Graham, George M., Detroit, assignor to Hinckley-Myers Division of Kent-Moore Organization Inc., Jackson, Mich. Thrust element for cylinder liner removing and inserting tool. 2,421,324; May 27.
Granberg, Fred, Chicago, Ill. Sash lock. 2,421,196; May 27.
Grant, Samuel, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Curling device. 2,421,259; May 27.
Green, Douglas H., London, England. Structural members formed of metal and timber. 2,421,197; May 27.
Greenleaf, Rupert L., Auburn, Maine. Worktable for stamping and embossing machines. 2,421,260; May 27.
Grief, Bonney H., assignor of one-half to H. H. Hayduk, Chicago, Ill. Margin calculator for typewriters. 2,421,119; May 27.
Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Demodulator system. 2,421,025; May 27.
Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Nonsurge means. 2,421,325; May 27.
Griswold, Howard L., Canton, and A. T. Cape, Columbus, Ohio, assignors to Coast Reduction, Inc., Watsonville, Calif. Apparatus for effecting chemical reactions. 2,421,120; May 27.
Groebe, John L., W. B. Reeves, and D. C. Campbell, Phillips, Tex., assignors to Phillips Petroleum Company. Refortification of aluminum halide-hydrocarbon complex catalysts. 2,421,326; May 27.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Orbital lathe feed mechanism. 2,421,147; May 27.
Gropius, Walter: *See—*
  Wachsmann, Konrad L., and Gropius.
Guaraldi, Leonard A., Somerville, Mass. Internal-combustion engine. 2,421,198; May 27.
Gulf Oil Corporation, assignee: *See—*
  Smith, Herschel G., and Hill.
Gutmann, Hanns A., Vineland, N. J. Preserving eggs. 2,421,199; May 27.
Haagen-Smit, Arie J., assignor to California Institute Research Foundation, Pasadena, Calif. Dehydrating foodstuffs. 2,421,121; May 27.
Hadfield, Bertram M., Harrow Weald, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Electromagnetic relay circuit. 2,421,148; May 27.
Haefele, Walter R., Seaford, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sizing compositions and yarn sized therewith. 2,421,122; May 27.
Hall, Clinton S., Farmington, Mich. Lathe dog. 2,421,200; May 27.
Hall, John A., Summit, and W. P. Mason, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Delay device. 2,421,026; May 27.
Hallock, Robert L., Larchmont, N. Y., assignor to Elastic Stop Nut Corporation of America, Union Township, N. J. Fastening means. 2,421,201; May 27.
Hallowell, Howard T., Jr., assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa. Traversing and indexing device. 2,421,327; May 27.
Hammell, Kemper M.: *See—*
  Coss, George R., and Hammell.
Hanson-Van Winkle-Munning Company, assignee: *See—*
  Hogaboom, George B.
Hard af Segerstad, Carl G., assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Pressure actuated switch. 2,421,149; May 27.
Harter, Noah S., Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Hardware and screen cloth machine. 2,421,261; May 27.
Haskins, Bradley, Brooklyn, assignor to Remington Rand Inc., Buffalo, N. Y. Tabulator. 2,421,060; May 27.
Hayduk, H. H., assignee: *See—*
  Grief, Bonney H.
Hazeltine Research, Inc., assignee: *See—*
  Wheeler, Harold A.
Heintz Manufacturing Company, assignee: *See—*
  Trautvetter, George, and Lambert.
Helldén, Knut G. V., Lysekil, Sweden. Machine for cutting fish. 2,421,262; May 27.
Herbst, Philip J., Fort Wayne, Ind., assignor to Radio Corporation of America. Magnetostrictive electroacoustic transducer. 2,241,263; May 27.
Herold, Walter F., Easton, assignor to The Bassick Company, Bridgeport, Conn. Industrial truck. 2,421,328; May 27.
Herwig, George H., Benton Harbor, Mich. Packing device having fastener means for facilitating the formation of attractive display layers. 2,421,264; May 27.
Higby, Ralph H., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Recovery of flavanone glycosides. 2,421,061; May 27.
Higby, Ralph H., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Recovery of naringin. 2,421,062; May 27.

Hill, Mark L.: *See—*
  Smith, Herschel G., and Hill.
Hilliker, Frank T., St. Louis, Mo. Garbage disposal device. 2,421,064; May 27.
Hinckley-Myers Division of Kent-Moore Organization Inc., assignee; *See—*
  Graham, George M.
Hoffer, Howard G., Santa Monica, Calif. Device for shaping lenses. 2,421,065; May 27.
Hoffer, James F., assignor to Ex-Cell-O Corporation, Detroit, Mich. Fuel injection nozzle. 2,421,329; May 27.
Hogaboom, George B., New Britain, Conn., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Rapid zinc depositing bath. 2,421,265; May 27.
Holden, Arteman F., assignee: *See—*
  Solakian, Haig, and Vincent.
Hollup Corporation, assignee: *See—*
  Candy, Albert M.
Hönger, Guido, Petit-Lancy, Geneva, assignor to Mefina, S. A., Binningen, Switzerland. Fuse for ordnance projectiles or bombs. 2,421,266; May 27.
Hopkins-Wyrick Laboratories, Inc., assignee: *See—*
  Wyrick, Clayton E.
Howard, Harold M., Elmhurst, Long Island, N. Y. Hairpin dispenser. 2,421,202; May 27.
Howe, Elra F., Chicago, Ill. Flood control system. 2,421,066; May 27.
Howe, William C., Chicago, Ill. Laundry bag and closing device therefor. 2,421,067; May 27.
Huber, Jakob, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Mechanical switching device. 2,421,267; May 27.
Hunter, Byron A.: *See—*
  Paul, Philip T., and Hunter.
Huntsbery, Harlan E., Washington, D. C. Resilient tire. 2,421,330; May 27.
Imperial Chemical Industries Limited, assignee: *See—*
  Thomson, Robin H. K.
Industrial Development Corporation of South Africa, Limited, assignee: *See—*
  Totney, Frank.
Industrial Rayon Corporation, assignee: *See—*
  Kline, Hayden B., and Burkholder.
Interchemical Corporation, assignee: *See—*
  Armatys, Edward.
  Ash, Harry K.
International Standard Electric Corporation, assignee: *See—*
  Katchatouroff, Leon, and Lalande.
  Lévy, Maurice M.
  Wolfson, Henry, and Shepard.
Isaacson, Herbert M., Buffalo, N. Y. Device for removing the tarnish from silver and the like. 2,421,027; May 27.
Isenberg, Hans D., Wilmette, Ill. Method and apparatus for making air insulated cable. 2,421,268; May 27.
Jacobsen Manufacturing Company, assignee: *See—*
  Bergh, Charles J.
Jacobson, Carl H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Contact printer. 2,421,150; May 27.
Jamerson, Brandford W., St. Louis, Mo. Fishing line float. 2,421,068; May 27.
Jensen, Nels, Grass Valley, Calif. Hand truck. 2,421,123; May 23.
Johnson, Everett A., Park Ridge, assignor to Standard Oil Company, Chicago, Ill. Production of alkylaromatics. 2,421,331; May 27.
Johnson, George W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Garment finishing apparatus. 2,421,203; May 27.
Johnson, Paul P., Willoughby, assignor to Thompson Products, Inc., Cleveland, Ohio. Quick disconnect coupling. 2,421,332; May 27.
Johnson, Wallace M., Pittsfield, Mass., assignor to General Electric Company. Transformer connection. 2,421,299; May 27.
Johnstone, Roy L., San Francisco, and R. F. Downer, Oakland, Calif. Rat guard for ships' cables and lines. 2,421,151; May 27.
Jones, George F., Highgate, London, assignor of two-thirds to G. Q. Parachute Company, Woking, Surrey, England. Load coupling device for parachutes. 2,421,152; May 27.
Joyce, Francis J., Keyport, N. J. Strand winding apparatus. 2,421,269; May 27.
Jung, William, Forest Hills, N. Y. Fastener for adjoining sheets or plates. 2,421,204; May 27.
Kassebaum, Christopher: *See—*
  Barland, Edison M., and Kassebaum.
Katchatouroff, Leon, and M. A. Lalande, Lyon, France, assignors to International Standard Electric Corporation, New York, N. Y. Multiplex carrier current communication system with transmission line impedance control means. 2,421,333; May 27.
Kelley, Walter F., Whitestone, and E. O. Roggenstein, Ilion, assignors to Remington Rand Inc., Buffalo, N. Y. Punch. 2,421,069; May 27.
Kellogg Company, assignee: *See—*
  Penty, William P.

- Kelly, Justin M.: *See—*
  - Carson, Kenneth J., and Kelly.
- Kendall, Max J., Benton Harbor, Mich. Rocking horse. 2,421,270; May 27.
- Kerns, Roy S., Chicago, Ill., assignor to The Linde Air Products Company. Pressure welding apparatus. 2,421,070; May 27.
- Kiang, Piao, Washington, D. C. Fuse construction. 2,421,271; May 27.
- King, Archie P., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave reflection aircraft detector using rotating polarization. 2,421,028; May 27.
- Kingsley, Errol F., Multnomah County, Oreg. Razor. 2,421,205; May 27.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupler. 2,421,153; May 27.
- Kline, Hayden B., and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Treating twisted filamentary materials. 2,421,334; May 27.
- Kline, Hayden B., and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Treating twisted filamentary materials. 2,421,335; May 27.
- Kline, Hayden B., and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Treating twisted filamentary materials. 2,421,336; May 27.
- Knearem, Harry T., Dallas, Tex., assignor to G. T. Shipman. Papermaking apparatus. 2,421,272; May 27.
- Koon, Arthur J.: *See—*
  - McKay, William J. A., and Koon.
- Korum, Henry E., East Moline, assignor to Deere & Company, Moline, Ill. Feeding device. 2,421,124; May 27.
- Kraft, George J., Wilkes-Barre, Pa. Garment hanger. 2,421,071; May 27.
- Kramer, Daniel, Fairview Village, Ohio. Removable spike for golf shoes. 2,421,072; May 27.
- Kratz, Edouard M., Gary, Ind., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y. Sheet making mechanism. 2,421,073; May 27.
- Krebs, Paul, Detroit, Mich. Low voltage hot knife. 2,421,125; May 27.
- Kuhner, Max H., assignor to Riley Stoker Corporation, Worcester, Mass. Steam generator. 2,421,074; May 27.
- Kylin, Henrik O.: *See—*
  - Kylin, Oskar and H. O.
- Kylin, Oskar and H. O., Cleveland Heights, assignors to Bardons and Oliver, Inc., Cleveland, Ohio. Hydraulic brake mechanism and control therefor. 2,421,206; May 27.
- Labin, Emile: *See—*
  - Deloraine, Edmond M., and Labin.
- Lafferty, James M., Colonie, N. Y., assignor to General Electric Company. Ultra high frequency electric discharge device. 2,421,273; May 27.
- Lakso, Eino E.: *See—*
  - Vogt, Clarence W., and Lakso.
- Lakso, Eino E., Fitchburg, Mass., assignor to C. W. Vogt, Norwalk, Conn. Process and apparatus for repair of tires. 2,421,097; May 27.
- Lakso, Eino E., Fitchburg, Mass., assignor to C. W. Vogt, Norwalk, Conn. Apparatus for the repair of tires. 2,421,100; May 27.
- Lakso, Eino E., Fitchburg, Mass., assignor to C. W. Vogt, Norwalk, Conn. Apparatus and method for repair of tires. 2,421,101; May 27.
- Lakso, Eino E., and A. S. Chandler, Fitchburg, Mass., assignors to C. W. Vogt, Norwalk, Conn. Repair of tires. 2,421,102; May 27.
- Lalande, Marc A.: *See—*
  - Katchatouroff, Leon, and Lalande.
- Lambert, Francis: *See—*
  - Trautvetter, George, and Lambert.
- Landis Tool Company, assignee: *See—*
  - Price, Ralph E.
- Lavietes, David P., Brooklyn, N. Y. Smoker's pipe. 2,421,337; May 27.
- Lavietes, David P., Brooklyn, N. Y. Smoker's pipe. 2,421,338; May 27.
- Le Blond, R. K., Machine Tool Co., The, assignee: *See—*
  - Groene, William F.
- Leger, Henry, New York, N. Y. Knife or dagger. 2,421,339; May 27.
- Legg, David A.: *See—*
  - Beesch, Samuel C., and Legg.
- Lehman, Edward H., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,421,075; May 27.
- Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Manufacturing luminescent sulfides and selenides. 2,421,207; May 27.
- Leverenz, Humboldt W., Princeton, N. J., assignor to Radio Corporation of America. Applying phosphor material to a support member. 2,421,208; May 27.
- Levey, Lawrence, New York, N. Y. Television studio construction. 2,421,274; May 27.
- Lévy, Maurice M., London, W. C. 2, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Detection of obstacles by electromagnetic impulses. 2,421,340; May 27.
- Linde Air Products Company, The, assignee: *See—*
  - Kerns, Roy S.
- Lindner, Karl A., and W. M. Morrison, Plainfield, and A. Busche, Stelton, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Electrolytic refining of metals. 2,421,209; May 27.
- Lindsay, Frank E. P.: *See—*
  - Robinson, William J., II, and Lindsay.
- Lindstrom, Frank L., assignee: *See—*
  - Carlson, Arnold.
- Linsker, Fred: *See—*
  - Auchincloss, Reginald, and Linsker.
- Linton, Thomas B., North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Accumulator. 2,421,076; May 27.
- Lopez, Leandro G., Habana, Cuba. Metallic safety bar for doors. 2,421,275; May 27.
- Lotz, Homer W., assignor to Lotz Industrial Research Center, Detroit, Mich. Tool for inserting cylinder liners. 2,421,276; May 27.
- Lotz Industrial Research Center, assignee: *See—*
  - Lotz, Homer W.
- Louft, Nathan, Silver Spring, Md. Screen stencil machine with traveling orbital inker. 2,421,210; May 27.
- Luce, Richard W., Southport, Conn. Reflective sign. 2,421,277; May 27.
- Luce, Richard W., Southport, Conn. Nut structure. 2,421,278; May 27.
- Lutz, Wilmer A., Bucyrus, Ohio. Spreading attachment. 2,421,211; May 27.
- Lynch, Edward A., Merion, Pa. Play crib. 2,421,341; May 27.
- MacKenzie, Albert K., Northwood, assignor to Amac Refinements Limited, Chesham Bois, England. Sanitary cabinet with means for dispensing papers. 2,421,342; May 27.
- Mageoch, Nelson H., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Article coating apparatus. 2,421,343; May 27.
- Magram, Sidney J., Baltimore, Md. Starting mixture. 2,421,029; May 27.
- Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Synthesis of amides. 2,421,030; May 27.
- Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Process for synthesis of thioamides. 2,421,031; May 27.
- Maier, Curtis E., Elmhurst, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Aluminum powder and resin spot facing material. 2,421,154; May 27.
- Marchand, Nathan, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Unidirectional antenna. 2,421,032; May 27.
- Marchant Calculating Machine Company, assignee: *See—*
  - Avery, Harold T.
- Marty, Meinrad, Zurich, assignor to E. Merian, Basel, Switzerland. Body with movable parts. 2,421,279; May 27.
- Mason, Warren P.: *See—*
  - Hall, John A., and Mason.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission network. 2,421,033; May 27.
- Mass, Morris, New York, N. Y. Colorimeter. 2,421,344; May 27.
- Mathewson, Wilfred B., North Weymouth, assignor to United Mattress Machinery Co. Inc., Quincy, Mass. Tufting button. 2,421,280; May 27.
- McConnaughay, Kenneth E., West Lafayette, Ind. Mixer. 2,421,345; May 27.
- McCulloch, Robert P., Fox Point, and J. L. Ryde, Milwaukee, Wis., assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Valve. 2,421,346; May 27.
- McKay, William J. A., and A. J. Koon, Grand Rapids, Mich. Chuck. 2,421,281; May 27.
- McKim, Burton, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,421,034; May 27.
- McLean, David A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Composition for and method of extinguishing fires. 2,421,035; May 27.
- Medlin, William V., assignor to Shell Development Company, San Francisco, Calif. Operation of fluidized systems. 2,421,212; May 27.
- Mefina, S. A., assignee: *See—*
  - Hönger, Guido.
- Meister, Leo T., Bradley Beach, N. J. Method and apparatus for testing centrifugally actuated members. 2,421,036; May 27.
- Merian, Emanuel, assignee: *See—*
  - Marty, Meinrad.
- Merriman, Henry H., assignor to H. D. Boardman, Jackson, Mich. Rapid traverse pressure unit. 2,421,282; May 27.
- Merwin, Harry H., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Material handling apparatus. 2,421,347; May 27.

- Meyer, Ewald F., St. Cloud, Minn. Method and apparatus for tagging garments. 2,421,348; May 27.
- Meyers, W. F., Company, assignee: *See—*
  - Sneva, Ingolf.
- Mid-West Refineries, Inc., assignee: *See—*
  - Ernest, Joseph C.
- Miller, James B., Webster Groves, and J. H. Simpson, Maplewood, assignors to Mines Equipment Company, St. Louis, Mo. Electric cable unit and making the same. 2,421,155; May 27.
- Miller, Joseph R., Forest Hills, assignor to Bendix Aviation Corporation, Brooklyn, N. Y. Projector apparatus. 2,421,077; May 27.
- Miner, W. H., Inc., assignee: *See—*
  - Lehman, Edward H.
- Mines Equipment Company, assignee: *See—*
  - Miller, James B., and Simpson.
- Minneapolis-Moline Power Implement Company, assignee: *See—*
  - Ronning, Martin.
- Modern Plastic Machinery Corporation, assignee: *See—*
  - Tornberg, Henning T.
- Moeller, Morris A., Long Beach, Calif. Pressure modulating device for stone saws. 2,421,349; May 27.
- Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Centrifugal operated switch. 2,421,213; May 27.
- Morey, Howard E., Aurora, Ill. Rabbit feeder. 2,421,214; May 27.
- Morrison, William M.: *See—*
  - Lindner, Karl A., Morrison, and Busche.
- Morrow, Emerson M., Gibsonia, Pa. Speed equalizing landing wheel. 2,421,156; May 27.
- Moutran, Felix: *See—*
  - Watson, Frederick J., and Moutran.
- Muckerheide, Victor J.: *See—*
  - Myers, Latimer D., and Muckerheide.
- Mueller, John, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y. Cross totalizing mechanism for record controlled tabulators. 2,421,078; May 27.
- Myers, Latimer D., Cincinnati, and V. J. Muckerheide, Silverton, assignors to Emery Industries, Inc., Cincinnati, Ohio. Separating fatty acids. 2,421,157; May 27.
- Myers, Latimer D., Cincinnati, and V. J. Muckerheide, Silverton, assignors to Emery Industries, Inc., Cincinnati, Ohio. Cutting oil base. 2,421,158; May 27.
- Myers, Latimer D., Cincinnati, and V. J. Muckerheide, Silverton, assignors to Emery Industries, Inc., Cincinnati, Ohio. Cutting oil base. 2,421,159; May 27.
- Nagel-Chase Mfg. Co., The, assignee: *See—*
  - Schultz, Edward.
- Narcus, Harold, Worcester, Mass. Silvering nonconductive materials. 2,421,079; May 27.
- Newbill, Carl V., Portland, Oreg. Slat clasp for Venetian blinds. 2,421,160; May 27.
- Newman, John M., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Motor control for hoists. 2,421,080; May 27.
- North American Aviation, Inc., assignee: *See—*
  - Ulrich, Charles J., and Weissenberger.
- Northern Trust Company, The, executor: *See—*
  - Durdin, Augustus C., III.
- O'Brien, John C., assignor to General Railway Signal Company, Rochester, N. Y. Tested channel radio communicating system. 2,421,081; May 27.
- Odell, Benjamin B., Burbank, Calif. Tank cap. 2,421,350; May 27.
- Offen, Bernard, Chicago, Ill. Web dryer arrangement. 2,421,283; May 27.
- Oil Devices, assignee: *See—*
  - Breese, James L.
- Olbrys, Leo, Hamtramck, Mich. Automobile wheel balancer. 2,421,215; May 27.
- Olin Industries, Inc., assignee: *See—*
  - Delsole, Joseph H.
- Olsen, Tinius, Testing Machine Company, assignee: *See—*
  - Sivertsen, Jens.
- Oradent Chemical Co., Inc., assignee: *See—*
  - Reasenberg, Julian R., and Goldberg.
- Ott, Harvey N., Buffalo, N. Y. Microscope. 2,421,126; May 27.
- Page, Herbert E., Alhambra, Calif. Vehicle chassis construction. 2,421,351; May 27.
- Parker, Leslie K., Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Grid structure for electron discharge tubes. 2,421,161; May 27.
- Parkersburg Rig & Reel Company, The, assignee: *See—*
  - Dake, George E., and Speiden.
- Patrick, John A., assignor to Crane Co., Chicago, Ill. Dolly lifting device. 2,421,365; May 27.
- Paul, Philip T., and B. A. Hunter, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Substituted thiocarbamo sulfenamides. 2,421,352; May 27.
- Peckham, Paul L., Glendale, Calif. Combined folding table and seat. 2,421,127; May 27.
- Pennsylvania Manufacturing Company, assignee: *See—*
  - Hallowell, Howard T., Jr.
- Penty, William P., assignor to Kellogg Company, Battle Creek, Mich. Making ready-to-eat food. 2,421,216; May 27.
- Penty, William P., assignor to Kellogg Company, Battle Creek, Mich. Ready-to-eat food product. 2,421,217; May 27.
- Pessak, Leo and R., Miami Beach, Fla. Tubular plastic shoe upper. 2,421,353; May 27.
- Pessak, Rose: *See—*
  - Pessak, Leo and R.
- Petersen, Charles A.: *See—*
  - Applegate, Walter N., and Petersen.
- Peterson, William R., Lowell, Ind., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Pressure actuated switch. 2,421,284; May 27.
- Philadelphia Thermometer Company, The: *See—*
  - Schwartz, John L.
- Philco Corporation, assignee: *See—*
  - Bobb, Lloyd J.
  - Smith, Helen E.
- Phillips Petroleum Company, assignee: *See—*
  - Ayers, Joseph W.
  - Groebe, John L., Reeves, and Campbell.
  - Mahan, John E.
- Pier, Mathias, Heidelberg, and F. Christmann, Ludwigshafen-on-the-Rhine, Germany; vested in the Attorney General of the United States. Lubricant. 2,421,082; May 27.
- Pollak, Frederick F., Brooklyn, N. Y. Noninflammable waterproofed textiles and making same. 2,421,218; May 27.
- Press Wireless, Inc., assignee: *See—*
  - Chapin, Reynold S.
- Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Balancing valve. 2,421,219; May 27.
- Pride, George H., New York, N. Y. Handling loads in vehicles. 2,421,128; May 27.
- Prince, John, Brooklands, England. Induction type electricity meter. 2,421,285; May 27.
- Publicker Industries Inc., assignee: *See—*
  - Beesch, Samuel C., and Legg.
- Pyle, Ralph D., Pleasant Hills, assignor to Copperweld Steel Company, Glassport, Pa. Insulator tie for line conductors. 2,421,286; May 27.
- Quindry, John M., Fairfield, Ill. Snath for scythes. 2,421,162; May 27.
- Radio Corporation of America, assignee: *See—*
  - Engstrom, Ralph W.
  - Herbst, Philip J.
  - Leverenz, Humboldt W.
  - Solomon, Myer.
- Rawson, Louis W., assignor to Worcester Polytechnic Institute, Worcester, Mass. Centrifugal coupling. 22,421,083; May 27.
- Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Electric motor control system. 2,421,084; May 27.
- Reasenberg, Julian R., Brooklyn, and S. D. Goldberg, Jamaica Estates, assignors to Oradent Chemical Co., Inc., New York, N. Y. Beta-isobutyl amino-beta, beta-dimethyl, ethyl benzoate. 2,421,129; May 27.
- Reeves, William B.: *See—*
  - Groebe, John L., Reeves, and Campbell.
- Regents of the University of Minnesota, assignee: *See—*
  - Adams, Joseph.
  - Gisvold, Ole.
  - Smith, Lee I., and Sprung.
- Reid, Joseph H., Los Angeles, Calif. Timing device. 2,421,130; May 27.
- Reilly, Edward V.: *See—*
  - Shields, James E., and Reilly.
- Reininger, Carl A., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Curling rod. 2,421,287; May 27.
- Reiter, David, Woodside, Long Island, N. Y. Surgical instrument with mallet action. 2,421,354; May 27.
- Remington Rand Inc., assignee: *See—*
  - Haskins, Bradley.
  - Kelley, Walter F., and Roggenstein.
  - Mueller, John.
- Richardson, Avery G.: *See—*
  - Busignies, Henri G., and Richardson.
- Riley Stoker Corporation, assignee: *See—*
  - Kuhner, Max H.
- Roberts, Earl J.: *See—*
  - Burnett, Raymond S., and Roberts.
- Robinette, Willard C., South Pasadena, Calif. High-speed motor. 2,421,355; May 27.
- Robinson, William J., II, and F. E. P. Lindsay, Wilmington, Del. Basketball game goal. 2,421,220; May 27.
- Roby, Roy, Staunton, Va. Dual-purpose light. 2,421,288; May 27.
- Roggenstein, Edwin O.: *See—*
  - Kelley, Walter F., and Roggenstein.
- Ronning, Martin, St. Louis Park, assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Crop conveyor mechanism. 2,421,037; May 27.
- Rose, Paul R.: *See—*
  - Walter, Harold J., and Rose.
- Rossman, Clarence A., assignee, et al.: *See—*
  - Schwartz, John L.
- Roth, Louis, Du Bois, and J. M. Schnaus, Jasper, Ind. Abrasive belt machine. 2,421,289; May 27.
- Rothe, Walter F., Washington, D. C. Letter box. 2,421,221; May 27.

Ryde, John L.: *See*—
McCulloch, Robert P., and Ryde.
Rylsky, Gregory V., Ridgefield Park, assignor to Bendix Aviation Corporation, Teterboro, N. J. Target seeking aerial bomb. 2,421,085; May 27.
Sabol, George, Duquesne, Pa. Television cathode-ray tube with rotary deflecting plates. 2,421,086; May 27.
Sadtler, Robert E., deceased, Ridley Park, Pa.; W. B. Sadtler, administrator. Cigarette holder. 2,421,087; May 27.
Sadtler, William, administrator: *See*—
Sadtler, Robert E.
Saffady, Thomas F., Detroit, assignor to Sav-Way Industries, Inc., Warren Township, Macomb County, Mich. Bottle cap. 2,421,356; May 27.
Saftlas, Samuel, Newark, N. J. Strip lace and making same. 2,421,357; May 27.
Sandvikens Jernverks Aktiebolag, assignee: *See*—
Hard af Segerstad, Carl G.
Sav-Way Industries, Inc., assignee: *See*—
Saffady, Thomas F.
Scalera, Mario, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Purification of 1-1′-5′-1″-trianthrimide-2-2′-6′-2″ dicarbazole. 2,421,163; May 27.
Schaevitz, Herman, Collingswood, N. J., assignor to The Baldwin Locomotive Works. Multirange load measuring apparatus. 2,421,222; May 27.
Schleicher, Harold E., West Hartford, assignor to The Arrow-Hart & Hegemann Electric Company, Hartford, Conn. Electromagnetic switch. 2,421,290; May 27.
Schmutzler, Alfred F., Boonton, N. J., assignor to Sun Chemical Corporation. Printing ink. 2,421,291; May 27.
Schnaus, John M.: *See*—
Roth, Louis, and Schnaus.
Schultz, Edward, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Wrench. 2,421,038; May 27.
Schwartz, J. Leonard, assignee, et al.: *See*—
Schwartz, John L.
Schwartz, John L., assignor to C. A. Rossman, J. L. Schwartz, and H. Engelhardt, a co-partnership doing business as The Philadelphia Thermometer Company Philadelphia, Pa. Adjustable thermostat switch. 2,421,292; May 27.
Segerstrom, Carl A., Jr., Teaneck, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Cathode structure. 2,421,039; May 27.
Self-Priming Pump & Engineering Co., Limited, assignee: *See*—
Watson, Frederick J., and Moutran.
Senkowski, Alexander, Cheltenham, England. Sleeve balancing arrangement for radial engines. 2,421,164; May 27.
Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Preparing nitro amines. 2,421,165; May 27.
Shawhan, Sam F., assignor to Carrier Corporation, Syracuse, N. Y. Defrosting method and apparatus. 2,421,293; May 27.
Sheepshanks, Richard H.: *See*—
Ballamy, Leslie M., and Sheepshanks.
Shell Development Company, assignee: *See*—
Medlin, William V.
Shellmar Products Corporation, assignee: *See*—
De Swart, Jan.
Shepard, Stanley C.: *See*—
Wolfson, Henry, and Shepard.
Sherlock, John E., Sunbury-on-Thames, England. Giving warning of the formation of ice on aircraft. 2,421,166; May 27.
Shields, James E., and E. V. Reilly, Niagara Falls, assignors to Alox Corporation, New York, N. Y. Obtaining polar-type corrosion-inhibiting agents soluble in petroleum lubricating oils. 2,421,040; May 27.
Shipman, Gerald T., assignee: *See*—
Knearem, Harry T.
Shotton, John C., Lakewood, Ohio. Vaginal irrigator. 2,421,294; May 27.
Simpson, James H.: *See*—
Miller, James B., and Simpson.
Sims, James M., Atlanta, Ga. Insert sole. 2,421,088; May 27.
Sivertsen, Jens, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Apparatus for applying load to testing machines. 2,421,295; May 27.
Skeuse, Thomas, Jr., Bayside, assignor to Geigy Company, Inc., New York, N. Y. Development of chromed dyes on nylon by steaming under pressure. 2,421,131; May 27.
Smith, Helen E., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerator shelf. 2,421,089; May 27.
Smith, Herschel G., Wallingford, and M. L. Hill, Yeadon, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Stabilized insecticide. 2,421,223; May 27.
Smith, Howard C., assignee: *See*—
Sylvester, Harold K.
Smith, Lee I., and J. A. Sprung, assignors, to Regents of the University of Minnesota, Minneapolis, Minn. Long chain aliphatic halides and preparing same. 2,421,090; May 27.
Smith, Prevost F., San Diego, Calif. Parachute cluster. 2,421,167; May 27.
Sneva, Ingolf, assignor to W. F. Meyers Company, Bedford, Ind. Radius former for end mills. 2,421,358; May 27.
Socony-Vacuum Oil Company Incorporated, assignee: *See*—
Berger, Henry G., and Fuller.
Solakian, Haig, New Haven, Conn., and C. M. Vincent, Detroit, Mich., assignors to A. F. Holden, New Haven, Conn. Furnace for heat treatment of metal. 2,421,224; May 27.
Solomon, Joseph H., Columbia, Pa. Can opener. 2,421,296; May 27.
Solomon, Joseph H., Columbia, Pa. Clothes pounder. 2,421,297; May 27.
Solomon, Myer, deceased, Westmont, by N. W. Solomon, Princeton, N. J., administratrix, assignor to Radio Corporation of America. Fibrous sheet material for the electrolytic formation of azo dyes thereon. 2,421,367; May 27.
Solomon, Nellie W., administratrix: *See*—
Solomon, Myer.
Speiden, Edgar F.: *See*—
Dake, George E., and Speiden.
Sperry Gyroscope Company, Inc., assignee: *See*—
Thompson, Herbert H.
Sprung, Joseph A.: *See*—
Smith, Lee I., and Sprung.
Stamper, Hamilton A., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Positioning mechanism. 2,421,168; May 27.
Standard Oil Company, assignee: *See*—
Johnson, Everett A.
Standard Telephones and Cables Limited, assignee: *See*—
Bray, Frederick H., and Brown.
Earp, Charles W.
Tomlin, Stanley G.
Stensgaard, W. L., and Associates, Inc., assignee: *See*—
Stensgaard, William L.
Stensgaard, William L., Chicago, Ill., assignor to W. L. Stensgaard and Associates, Inc. Reusable nesting shipping container. 2,421,225; May 27.
Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Transformer circuit. 2,421,300; May 27.
Sun Chemical Corporation, assignee: *See*—
Schmutzler, Alfred F.
Sutherland, James R., New Lebanon, N. Y., assignor to General Electric Company. Transformer. 2,421,298; May 27.
Sutherland, Thomas S., Aberdeen, Scotland. Atomiser. 2,421,359; May 27.
Swennes, Benjamin A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Fluid coupling. 2,421,360; May 27.
Swenson, Arthur W., Salem, Oreg. Toy vehicle. 2,421,041; May 27.
Swisher, Murray T., Clairton, Pa. Single-phase alternating current synchronous motor. 2,421,301; May 27.
Sylvester, Harold K., Redondo Beach, assignor of one-hlaf to H. C. Smith, Conoga Park, Los Angeles, Calif. Mechanical horse. 2,421,091; May 27.
Symington-Gould Corporation, assignee: *See*—
Couch, Glenn F.
Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Automatic Electric Laboratories Inc., Chicago, Ill. Automatic telephone system directed with the aid of revertive audio-frequency signals. 2,421,169; May 27.
Theiler, Hans J., assignor to Whitin Machine Works, Whitinsville, Mass. Textile marking apparatus. 2,421,366; May 27.
Thomas, Allan C., Cumberland, Md., assignor to Celanese Corporation of America. Stop motion for knitting machines and the like. 2,421,092; May 27.
Thomas, Harry J., Greensboro, N. C. Car rerailer. 2,241,170; May 27.
Thompson, Donald R., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Making nonrigid gels. 2,421,093; May 27.
Thompson, Herbert H., Manhasset, N. Y., assignor to Sperry Gyroscope Company, Inc. Slave directional gyroscope. 2,421,042; May 27.
Thompson Products, Inc., assignee: *See*—
Johnson, Paul P.
Venditty, Anthony.
Thomson, Robin H. K., Kilwinning, Scotland, assignor to Imperial Chemical Industries Limited. Improving the extensibility and strength of hardened artificial filaments, films, and like thin materials having a protein basis. 2,421,302; May 27.
Tiede, William A., Bridgeport, Mich. Chuck. 2,421,226; May 27.
Timken-Detroit Axle Company, The, assignee: *See*—
Buckendale, Lawrence R.
Tomlin, Stanley G., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Detector of modulated carrier frequencies. 2,421,043; May 27.
Tornberg, Henning T., Ridgewood, N. J., assignor to Modern Plastic Machinery Corporation, Wilmington, Del. Tension equalizer for plastic extruders. 2,421,132; May 27.

Torrington Manufacturing Company, The, assignee: *See*—
Froelich, Gustave H.
Totney, Frank, Hillbrow, assignor to Industrial Development Corporation of South Africa, Limited, Johannesburg, Transvaal, Union of South Africa. Treatment of wool-washing effluent. 2,421,094; May 27.
Toussaint, Walter J., South Charleston, and J. T. Dunn, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Process for making diolefins. 2,421,361; May 27.
Towler, Frank H.: *See*—
Towler, John M. and F. H.
Towler, John M., Harrogate, and F. H. Towler, Otley, assignors to Electraulic Presses Limited, Rodley, near Leeds, England. Automatic pressure operated hydraulic piston type admission and exhaust valve. 2,421,133; May 27.
Trautvetter, George, Jenkintown, and F. Lambert, Narberth, assignors to Heintz Manufacturing Company, Philadelphia, Pa. Antislip surface. 2,421,171; May 27.
Tyrner, Joseph M., New York, N. Y., assignor to Air Reduction Company, Incorporated. Apparatus for fillet arc welding. 2,421,095; May 27.
Ulrich, Charles J., and A. F. Weissenberger, Los Angeles, Calif., assignors to North American Aviation, Inc. Quickly detachable fastener. 2,421,172; May 27.
Ulrich, Eugene L., Pendleton, Oreg. Bridle bit. 2,421,173; May 27.
United Mattress Machinery Co. Inc., assignee: *See*—
Mathewson, Wilfred B.
United Shoe Machinery Corporation, assignee: *See*—
Cantley, Joseph C.
United States Rubber Company, assignee: *See*—
Paul, Philip T., and Hunter.
Young, Howard A.
Universal Oil Products Company, assignee: *See*—
Zimmerman, Gordon B.
Vanderbilt, R. T., Co., Inc., assignee: *See*—
Curtis, Ernest B.
Van Houten, Stephen T., Allendale, N. J. Fire extinguishing system. 2,421,303; May 27.
Vapor Car Heating Company, Inc., assignee: *See*—
Peterson, William R.
Venditty, Anthony, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Universal joint. 2,421,134; May 27.
Victor Metal Products Corporation, assignee: *See*—
Apfelbaum, Huna L.
Vincent, Chester M.: *See*—
Solakian, Haig, and Vincent.
Vogt, Clarence W., assignee: *See*—
Lakso, Elno E.
Vogt, Clarence W., Norwalk, Conn. Process and apparatus for repairing tires. 2,421,096; May 27.
Vogt, Clarence W., Norwalk, Conn., and E. E. Lakso, Fitchburg, Mass.; said Lakso assignor to said Vogt. Repair of tires. 2,421,098; May 27.
Vogt, Clarence W., Norwalk, Conn. Recapping of tires. 2,421,099; May 27.
Von Sneidern, Arne A., assignor, by mesne assignments, to Aktiebolaget Thulinverken, Landskrona, Sweden. Portable electric exhausting fan. 2,421,304; May 27.
Vutz, Wilhelm, Coldwater, Ohio, assignor, by mesne assignments, to Avco Manufacturing Corporation. Power transmission mechanism. 2,421,044; May 27.
Wachsmann, Konrad L., New York, N. Y., and W. Gropius, Lincoln, Mass., assignors to General Panel Corporation, New York, N. Y. Building structure. 2,421,305; May 27.
Wadsworth, Donald E., Miami, Fla. Sprinkler unit. 2,421,103; May 27.
Wadsworth, Donald E., Miami, Fla. Swivel joint for sprinklers. 2,421,104; May 27.
Walsh, Edward G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Solderless connection. 2,421,045; May 27.
Walter, Harold J., Uxbridge, Mass., and P. R. Rose, East Orange, N. J. Method and apparatus for conditioning warp, threads, yarns, and the like. 2,421,135; May 27.
War, United States of America, as represented by the Secretary of, assignee: *See*—
Baker, Morton H., and Blackburn.
Warner, Arthur J., South Orange, and W. D. Crater, Jr., New Brunswick, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Plasticized ethyl cellulose and making the same. 2,421,046; May 27.
Warren, Richard F., Jr., Stratford, Conn. Lock nut. 2,421,105; May 27.
Watson, Frederick J., Old Windsor, and F. Moutran, Slough, assignors to Self-Priming Pump & Engineering Co., Limited, London, England. Apparatus for testing electric coils. 2,421,227; May 27.
Weissenberger, Anthony F.: *See*—
Ulrich, Charles J., and Weissenberger.
Western Electric Company, Incorporated, assignee: *See*—
Carson, Kenneth J., and Kelly.
Ehret, John, Jr.
Mageoch, Nelson H.
Merwin, Harry H.
Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Gain control system for pulse modulation receivers. 2,421,136; May 27.
Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Transmission line. 2,421,137; May 27.
Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave signal translating arrangement. 2,421,138; May 27.
White, Charles H., assignor to Deere & Company, Moline, Ill. Disk harrow and bearing therefor. 2,421,306; May 27.
White, Gilbert E., Milwaukee, Wis. Hose coupling. 2,421,228; May 27.
Whitin Machine Works, assignee: *See*—
Theiler, Hans J.
Wight, Sedgwick N., and O. S. Field, assignors to General Railway Signal Company, Rochester, N. Y. Airway traffic control system. 2,421,106; May 27.
Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Thickening latex. 2,421,107; May 27.
Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Treating latex. 2,421,108; May 27.
Wolfson, Henry, and S. C. Shepard, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Attaching wires to metal surfaces. 2,421,047; May 27.
Worcester Polytechnic Institute, assignee: *See*—
Rawson, Louis W.
Wyman, Ellsworth: *See*—
Dalzell, Charles B., and Wyman.
Wyrick, Clayton E., deceased; M. R. Wyrick, executrix, assignor to Hopkins-Wyrick Laboratories, Inc., Miami, Fla. Quick-change chuck 2,421,174; May 27.
Wyrick, Mary R., executrix: *See*—
Wyrick, Clayton E.
Young, Fred M., Racine, Wis. Heat exchanger. 2,421,362; May 27.
Young, Howard A., Westfield, N. J., assignor to United States Rubber Company, New York, N. Y. Treating fabrics. 2,421,363; May 27.
Zahodiakin, Victor F., Short Hills, N. J. Piston ring. 2,421,175; May 27.
Zimmerman, Gordon B., assignor to Universal Oil Products Company, Chicago, Ill. Separation of isobutene from a mixture of C_4 hydrocarbons. 2,421,229; May 27.
Zipp Fastener Company Limited, assignee: *See*—
Fruengel, Hermann R.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF MAY, 1947

Note.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Leakproof container. J. Press. Re. 22,885; May 27.
Radio transmission system. H. W. Kline. Re. 22,884; May 27.
Thermostat, Battery charging. B. F. W. Heyer. Re. 22,883; May 27.

LIST OF DESIGN INVENTIONS

Board, Game. M. M. Kastner. 146,829; May 27.
Casing for hearing aid apparatus. R. E. Tresise and P. D. Kendall. 146,838–9; May 27.
Comb. A. Daniels. 146,823; May 27.
Cutter, Butter. H. E. Cocke. 146,822; May 27.
Dish, Buffet chafing. D. C. O'Connell. 146,832; May 27.
Handle for hand luggage. C. B. Stevens. 146,836; May 27.
Holder, Combined tie, trouser, and jewelry. M. M. London. 146,831; May 27.
Holder, Napkin. R. M. Kimmelstiel. 146,830; May 27.
Holder, Necktie. V. T. Howard. 146,828; May 27.
Holder or similar article, Ash tray. S. B. and J. S. Herman. 146,827; May 27.
Puller, Cork. J. E. Peterson. 146,833; May 27.
Scarf. I. Bartlett. 146,821; May 27.
Scarf. R. Gottschalk. 146,825–6; May 27.
Skirt or similar article. A. Sternberger. 146,835; May 27.
Spoon. J. L. Goodwin. 146,824; May 27.
Sundial and bird bath, Combination. G. Vinnedge. 146,840; May 27.
Toy goose. G. J. Provol. 146,834; May 27.
Vacuum cleaner. R. J. Wolfe. 146,841; May 27.
Whistle, Multitone. J. Thompson. 146,837; May 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF MAY, 1947

Note.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Absolute altitude, Method and apparatus for determining. L. de Forest. 2,421,248; May 27.
Accelerator, Vulcanization. E. B. Curtis. 2,421,243; May 27.
Accumulator. T. B. Linton. 2,421,076; May 27.
Acids, Separating fatty. L. D. Myers and V. J. Muckerheide. 2,421,157; May 27.
Actuator, Clutch. H. Bibicoff. 2,421,050; May 27.
Adjustable thermostat switch. J. L. Schwartz. 2,421,292; May 27.
Aircraft detector using rotating polarization, Wave reflection. A. P. King. 2,421,028; May 27.
Aircraft, including autorotatable rotor construction and the regulation of rotor blade pitch, Sustaining-rotor-equipped. J. de la Cierva. 2,421,364; May 27.
Air insulated cable, Method and apparatus for making. H. D. Isenberg. 2,421,268; May 27.
Aliphatic halides, and preparing same, Long chain. L. I. Smith and J. A. Sprung. 2,421,090; May 27.
Alkylaromatics, Production of. E. A. Johnson. 2,421,331; May 27.
Aluminum halide-hydrocarbon complex catalysts, Refortification of. J. L. Groebe, W. B. Reeves, and D. C. Campbell. 2,421,326; May 27.
Aluminum powder and resin spot facing material. C. E. Maier. 2,421,154; May 27.
Amides, Synthesis of. J. E. Mahan. 2,421,030; May 27.
Antenna, Unidirectional. N. Marchand. 2,421,032; May 27.
Antislip surface. G. Trautvetter and F. Lambert. 2,421,171; May 27.
Apparatus for applying load to testing machines. J. Sivertsen. 2,421,295; May 27.
Apparatus for effecting chemical reactions. H. L. Griswold and A. T. Cape. 2,421,120; May 27.
Apparatus for electric welding of studs. A. M. Candy. 2,421,184; May 27.
Apparatus for fillet arc welding. J. M. Tyrner. 2,421,095; May 27.
Apparatus for producing heat insulating handles. J. F. Eckstein. 2421,058; May 27.
Apparatus for reading blood-pressure and pulse. W. J. Cameron. 2,421,114; May 27.
Apparatus for spraying powders, atomized liquids, and the like. C. Cakebread. 2,421,183; May 27.
Apparatus for testing electric coils. F. J. Watson and F. Moutran. 2,421,227; May 27.
Apparatus for the manufacture of amorphous carbon. J. W. Ayers. 2,420,999; May 27.
Apparatus for the repair of tires. E. E. Lakso. 2,421,100; May 27.
Apron. P. Goldsmith. 2,421,195; May 27.
Atomiser. T. S. Sutherland. 2,421,359; May 27.
Automatic pressure operated hydraulic piston type admission and exhaust valve. J. M. and F. H. Towler. 2,421,133; May 27.
Automobile wheel balancer. L. Olbrys. 2,421,215; May 27.
Bag and closing device therefor, Laundry. W. C. Howe. 2,421,067; May 27.
Balancing arrangement for radial engines, Sleeve. A. Senkowski. 2,421,164; May 27.
Balancing valve. R. E. Price. 2,421,219; May 27.
Bar for doors, Metallic safety. L. G. Lopez. 2,421,275; May 27.
Belt machine, Abrasive. L. Roth and J. M. Schnaus. 2,421,289; May 27.
Berry box carrier. C. Bartsch. 2,421,048; May 27.
Beta-isobutyl amino-beta, beta-dimethyl, ethyl benzoate. J. R. Reasenberg and S. D. Goldberg. 2,421,129; May 27.
Body with movable parts. M. Marty. 2,421,279; May 27.
Bolt, Stud. J. W. Batchelder. 2,421,181; May 27.
Bomb, Target seeking aerial. G. V. Rylsky. 2,421,085; May 27.
Bottle cap. T. F. Saffady. 2,421,356; May 27.
Box: *See—*
  Letter box.
Brake mechanism and control therefor, Hydraulic. O. and H. O. Kylin. 2,421,206; May 27.
Braking device regulated by motor speed and load. E. A. Derungs. 2,421,187; May 27.
Bridle bit. E. L. Ulrich. 2,421,173; May 27.
Building structure. K. L. Wachsmann and W. Gropius. 2,421,305; May 27.
Burner: *See—*
  Hydroxylating pot type burner.
Button, Tufting. W. B. Mathewson. 2,421,280; May 27.
Cabinet with means for dispensing papers, Sanitary. A. K. MacKenzie. 2,421,342; May 27.
Cable unit and making the same, Electric. J. B. Miller and J. H. Simpson. 2,421,155; May 27.
Cake method, Fruit. W. H. Brooks. 2,421,112; May 27.
Calculator for typewriters, Margin. B. H. Grief. 2,421,119; May 27.
Can opener. J. H. Solomon. 2,421,296; May 27.
Cap: *See—*
  Bottle cap.
  Tank cap.
Carbohydrates to produce butanol and isopropanol, Fermenting. S. C. Beesch and D. A. Legg. 2,420,998; May 27.
Carriage shifting mechanism. H. T. Avery. 2,421,111; May 27.
Carrier: *See—*
  Berry box carrier.
Cart, Shopping. B. Frazin. 2,421,322; May 27.
Case: *See—*
  Open top refrigerated display case.
Casting rod. E. Camburn. 2,421,240; May 27.
Cathode structure. C. A. Segerstrom. 2,421,039; May 27.
Centrifugal coupling. L. W. Rawson. 2,421,083; May 27.
Centrifugal operated switch. J. L. Moody. 2,421,213; May 27.
Centrifugally actuated members, Method and apparatus for testing. L. T. Meister. 2,421,036; May 27.
Chain link. H. A. Delano. 2,421,186; May 27.
Charger for jet pumps, Air. C. J. Bergh. 2,421,237; May 27.
Chassis construction, Vehicle. H. E. Page. 2,421,351; May 27.
Chipping apparatus. W. F. Allen. 2,421,231; May 27.
Christmas tree stand. J. Blaner. 2,421,140; May 27.
Chromed dyes on nylon by steaming under pressure, Development of. T. Skeuse, Jr. 2,421,131; May 27.
Chromium complex of monazo pyrazolone. B. G. Carson. 2,421,315; May 27.
Chuck. W. J. A. McKay and A. J. Koon. 2,421,281; May 27.
Chuck. W. A. Tiede. 2,421,226; May 27.
Chuck, Quick-change. C. E. Wyrick. 2,421,174; May 27.
Cigarette holder. R. E. Sadtler. 2,421,087; May 27.
Circuit: *See—*
  Electromagnetic relay circuit.
  Transformer circuit.
Circuit, Carrier-shift signal control. R. S. Chapin. 2,421,054; May 27.
Circuit for counting electrical impulses. F. H. Bray and L. R. Brown. 2,421,005; May 27.
Circuit interrupter, Electric. R. S. Bennett. 2,421,236; May 27.
Clamp: *See—*
  Railhead clamp.
Clamp. M. H. Baker and J. F. Blackburn. 2,421,178; May 27.
Clasp for Venetian blinds, Slat. C. V. Newbill. 2,421,160; May 27.
Closure for containers. W. D. Brandon. 2,421,313; May 27.
Clothes hanger. C. F. Brinkman. 2,421,051; May 27.
Clothesline pulley assembly. W. J. Ekins. 2,421,059; May 27.
Clothes pounder. J. H. Solomon. 2,421,297; May 27.
Coating apparatus, Article. N. H. Mageoch. 2,421,343; May 27.
Coating composition comprising cellulose-aceto-propionate and an alkyd resin. H. K. Ash. 2,421,001; May 27.
Colorimeter. M. Mass. 2,421,344; May 27.
Communication and guiding system. E. M. Deloraine and P. R. Adams. 2,421,017; May 27.
Communicational system with transmission line impedance control means, Multiplex carrier current. L. Katchatouroff and M. A. Lalande. 2,421,333; May 27.
Container: *See—*
  Leakproof container.
  Reinforced collapsible paperboard container.
  Reusable nesting shipping container.
Control arrangement for refrigeration apparatus. M. B. Goddard. 2,421,258; May 27.
Control for hoists, Motor. J. M. Newman. 2,421,080; May 27.
Control for lighting effects. L. P. Clark. 2,421,116; May 27.
Control system, Airway traffic. S. N. Wight and O. S. Field. 2,421,106; May 27.
Control system, Flood. E. F. Howe. 2,421,066; May 27.
Control system for pulse modulation receivers, Gain. H. A. Wheeler. 2,421,136; May 27.

Conveyer control system. G. E. Dake and E. F. Spelden. 2,421,056; May 27.
Conveyer mechanism. Crop. M. Ronning. 2,421,037; May 27.
Coupler. E. P. Klune. 2,421,153; May 27.
Coupling: *See*—
  Centrifugal coupling.
  Fluid coupling.
  Hose coupling.
  Quick disconnect coupling.
Coupling device for parachutes. Load. G. F. Jones. 2,421,152; May 27.
Crib, Play. E. A. Lynch. 2,421,341; May 27.
Crystalline riboflavin. Obtaining. J. K. Dale. 2,421,142; May 27.
Crystals of nordihydroguaiaretic acid. Producing. J. Adams. 2,421,109; May 27.
Curling device. S. Grant. 2,421,259; May 27.
Curling rod. C. A. Reininger. 2,421,287; May 27.
Defrosting method and apparatus. S. F. Shawhan. 2,421,293; May 27.
Delay device. J. A. Hall and W. P. Mason. 2,421,026; May 27.
Demodulator system. D. D. Grieg. 2,421,025; May 27.
Demountable wheel. D. Adams. 2,421,176; May 27.
Detector of modulated carrier frequencies. S. G. Tomlin. 2,421,043; May 27.
Device for removing the tarnish from silver and the like. H. M. Isaacson. 2,421,027; May 27.
Device for shaping lenses. H. G. Hoffer. 2,421,065; May 27.
Device to teach speech to deaf and hard of hearing students and others. H. R. Goldberg. 2,421,146; May 27.
Diolefins. Making. W. J. Toussaint and J. T. Dunn. 2,421,361; May 27.
Direction finding system. H. G. Busignies and A. G. Richardson. 2,421,009; May 27.
Discharge device. Ultra high frequency electric. J. M. Lafferty. 2,421,273; May 27.
Dispenser: *See*—
  Hairpin dispenser.
Dispensing package. T. Carr. 2,421,141; May 27.
Dresser, Grinder wheel. E. M. Darland and C. Kasselbaum. 2,421,143; May 27.
Driving, braking, and free wheeling mechanism for vehicles, Hydraulic. R. E. Cornwell. 2,421,013; May 27.
Dryer arrangement. Web. B. Offen. 2,421,283; May 27.
Dual-purpose light. R. Roby. 2,421,288; May 27.
Eggs, Preserving. H. A. Gutmann. 2,421,199; May 27.
Electromagnetic relay circuit. B. M. Hadfield. 2,421,148; May 27.
Electromagnetic switch. H. E. Schleicher. 2,421,290; May 27.
Engine: *See*—
  Internal-combustion engine.
Equalizer for plastic extruders, Tension. H. T. Tornberg. 2,421,132; May 27.
Equipment for grinding brake-shoe lining sections. H. B. Barrett. 2,421,180; May 27.
Etching bath, Electrolytic. K. J. Carson and J. M. Kelly. 2,421,316; May 27.
Ethyl cellulose and making the same, Plasticized. A. J. Warner and W. D. Crater, Jr. 2,421,046; May 27.
Exhausting fan. Portable electric. A. A. von Sneidern. 2,421,304; May 27.
Extinguishing fires, Composition for and method of. D. A. McLean. 2,421,035; May 27.
Extractor-and-breech-bolt assembly for firearms. J. H. Delsole. 2,421,249; May 27.
Fabrics, Treating. H. A. Young. 2,421,363; May 27.
Fastener: *See*—
  Quickly detachable fastener.
Fastener for adjoining sheets or plates. W. Jung. 2,421,204; May 27.
Fasteners, Manufacture of sliding clasp. H. R. Fruengel. 2,421,323; May 27.
Fastening means. R. L. Hallock. 2,421,201; May 27.
Feed mechanism, Orbital lathe. W. F. Groene. 2,421,147; May 27.
Feeder: *See*—
  Rabbit feeder.
Feeding device. H. E. Korum. 2,421,124; May 27.
Filamentary materials, Treating twisted. H. B. Kline and A. H. Burkholder. 2,421,334–6; May 27.
Filaments, films, and like thin materials having a protein basis, Improving the extensibility and strength of hardened artificial. R. H. K. Thomson. 2,421,302; May 27.
Fire extinguishing system. S. T. Van Houten. 2,421,303; May 27.
Flavanone glycosides. Recovery of. R. H. Higby. 2,421,061; May 27.
Float, Fishing line. B. W. Jamerson. 2,421,068; May 27.
Fluid coupling. B. A. Swennes. 2,421,360; May 27.
Fluid flow responsive device. T. A. Baker. 2,421,003; May 27.
Fluidized systems, Operation of. W. V. Medlin. 2,421,212; May 27.
Food, Making ready-to-eat. W. P. Penty. 2,421,216; May 27.
Food product, Ready-to-eat. W. P. Penty. 2,421,217; May 27.
Foodstuffs, Dehydrating. A. J. Haagen-Smit. 2,421,121; May 27.
Frame for articles of footwear, Supporting. W. H. Doherty. 2,421,019; May 27.
Frame for fabricating material, Supporting. H. R. Dillon. 2,421,189; May 27.
Friction shock absorbing mechanism E. H. Lehman. 2,421,075; May 27.
Furnace for heat treatment of metal. H. Solakian and C. M. Vincent. 2,421,224; May 27.
Fuse construction. P. Klang. 2,421,271; May 27.
Fuse for ordnance projectiles or bombs. G. Hönger. 2,421,266; May 27.
Game goal, Basketball. W. J. Robinson, II, and F. E. P. Lindsay. 2,421,220; May 27.
Garbage disposal device. F. T. Hilliker. 2,421,064; May 27.
Garment finishing apparatus. G. W. Johnson. 2,421,203; May 27.
Garment hanger. W. T. Albrecht 2,421,307; May 27.
Garment hanger. G. J. Kraft. 2,421,071; May 27.
Garments. Method and apparatus for tagging. E. F. Meyer. 2,421,348; May 27.
Gels, Making nonrigid. D. R. Thompson. 2,421,093; May 27.
Generator: *See*—
  Steam generator.
Generator for polar scanning of cathode ray tubes, Deflection signal. L. J. Bobb. 2,421,312; May 27.
Grid structure for electron discharge tubes. L. K. Parker. 2,421,161; May 27.
Grinder of the vertical axis rotary hammer type, Garbage. G. R. Coss and K. M. Hammell. 2,421,014; May 27.
Guard for ships' cables and lines, Rat. R. L. Johnstone and R. F. Downer. 2,421,151; May 27.
Gyroscope, Slave directional. H. H. Thompson. 2,421,042; May 27.
Hairpin dispenser. H. M. Howard. 2,421,202; May 27.
Hair-waving rod. R. F. Burch, Sr. 2,421,008; May 27.
Handling apparatus, Material. H. H. Merwin. 2,421,347; May 27.
Hanger: *See*—
  Clothes hanger.
  Garment hanger.
Hardware and screen cloth machine. N. S. Harter. 2,421,261; May 27.
Harrow and bearing therefor, Disk. C. H. White. 2,421,306; May 27.
Heat exchange element. C. B. Dalzell and E. Wyman. 2,421,245; May 27.
Heat exchanger. F. M. Young. 2,421,362; May 27.
High-speed motor. W. C. Robinette. 2,421,355; May 27.
Holder: *See*—
  Cigarette holder.
  Lipstick holder.
Homing system. T. W. Chew. 2,421,012; May 27.
Hose coupling. G. E. White. 2,421,228; May 27.
Hydrates, Vegetable protein. R. S. Burnett and E. J. Roberts. 2,421,113; May 27.
Hydrocarbon oils. Desulphurizing. J. C. Ernest. 2,421,320; May 27.
Hydroxylating pot type burner. J. L. Breese. 2,421,006; May 27.
Ice on aircrafts, Giving warning of the formation of. J. E. Sherlock. 2,421,166; May 27.
Impulse receiver, Duration. O. T. Francis. 2,421,022; May 27.
Induction type electricity meter. J. Prince. 2,421,285; May 27.
Inhaler, Nasal. H. L. Apfelbaum. 2,421,177; May 27.
Ink, Printing. A. F. Schmutzler. 2,421,291; May 27.
Insecticide, Stabilized. H. G. Smith and M. L. Hill. 2,421,223; May 27.
Instrument with mallet action, Surgical. D. Reiter. 2,421,354; May 27.
Internal-combustion engine. L. A. Guaraldi. 2,421,198; May 27.
Irrigator, Vaginal. J. C. Shotton. 2,421,294; May 27.
Isobutene from a mixture of C_4 hydrocarbons, Separation of. G. B. Zimmerman. 2,421,229; May 27.
Joint: *See*—
  Universal joint.
Joint for sprinklers, Swivel. D. E. Wadsworth. 2,421,104; May 27.
Knife, Low voltage hot. P. Krebs. 2,421,125; May 27.
Knife or dagger. H. Leger. 2,421,339; May 27.
Lace and making same, Strip. S. Saftlas. 2,421,357; May 27.
Laminations on a rotor shaft, securing. A. Carlson. 2,421,115; May 27.
Lamp socket, Gaseous conduction. P. Forman. 2,421,321; May 27.
Latex, Thickening. C. W. Wilson. 2,421,107; May 27.
Latex, Treating. C. W. Wilson. 2,421,108; May 27.
Lathe dog. C. S. Hall. 2,421,200; May 27.
Lens assembly, Electron. C. H. Bachman. 2,421,234; May 27.
Letter box. W. F. Rothe. 2,421,221; May 27.
Lifting device, Dolly. J. A. Patrick. 2,421,365; May 27.

Light: *See*—
  Dual-purpose light.
Lipstick holder. J. de Swart. 2,421,250; May 27.
Liquid-quenched switch. F. M. Clark. 2,421,241; May 27.
Lock: *See*—
  Sash lock.
Looper mechanism for sewing machines. L. M. Ballamy and R. H. Sheepshanks. 2,421,179; May 27.
Lubricant. M. Pier and F. Christmann. 2,421,082; May 27.
Luminescent sulfides and selenides, Manufacturing. H. W. Leverenz. 2,421,207; May 27.
Machine for cutting fish. K. G. V. Helldén. 2,421,262; May 27.
Magazine. J. C. Cantley. 2,421,052; May 27.
Measuring apparatus. Multirange load. H. Schaevitz. 2,421,222; May 27.
Mechanical aerating device. A. C. Durdin, III. 2,421,191; May 27.
Mechanical horse. H. K. Sylvester. 2,421,091; May 27.
Metal-cutting system. P. G. Chevigny. 2,421,011; May 27.
Metals, Electrolytic refining of. K. A. Lindner, W. M. Morrison and A. Busche. 2,421,209; May 27.
Meter: *See*—
  Induction type electricity meter.
Microscope. H. N. Ott. 2,421,126; May 27.
Mineral oil composition. H. G. Berger and E. W. Fuller. 2,421,004; May 27.
Mixer. K. E. McConnaughay. 2,421,345; May 27.
Modulating device for stone saws, Pressure. M. A. Moeller. 2,421,349; May 27.
Motion for knitting machines and the like, Stop. A. C. Thomas. 2,421,092; May 27.
Motion reproducing system. A. P. Davis. 2,421,247; May 27.
Motor: *See*—
  High-speed motor.
  Single-phase alternating current synchronous motor.
Motor control system, Electric. W. A. Ray. 2,421,084; May 27.
Motor for the expansible chamber type with piston operated snap action valve, Fluid pressure. W. H. De Lancey. 2,421,318; May 27.
Motor for windshield wipers, Suction actuated. D. M. Given, Jr. 2,421,194; May 27.
Mounting: *See*—
  Vehicle steering spindle mounting.
Naringin, Recovery of. W. E. Baier. 2,421,063; May 27.
Naringin, Recovery of. R. H. Higby. 2,421,062; May 27.
Nitro amines, Preparing. M. Senkus. 2,421,165; May 27.
Nonconductive materials, Silvering. H. Narcus. 2,421,079; May 27.
Nonsurge means. D. G. Griswold. 2,421,325; May 27.
Nozzle, Fuel injection. J. F. Hoffer. 2,421,329; May 27.
Nut, Lock. R. F. Warren, Jr. 2,421,105; May 27.
Nut structure. R. W. Luce. 2,421,278; May 27.
Obstacles by electromagnetic impulses, Detection of. M. M. Lévy. 2,421,340; May 27.
Obstacles by electromagnetic waves, Detection of. C. W. Earp. 2,421,020; May 27.
Oil base, Cutting. L. D. Myers and V. J. Muckerheide. 2,421,158–9; May 27.
1-1′-5′-1′′-trianthrimide-2-2′-6′-2′′ Dicarbazole, Purification of. M. Scalera. 2,421,163; May 27.
Open top refrigerated display case. P. H. Brinkoeter. 2,421,314; May 27.
Oscillator, Ultra high frequency. G. W. Fyler. 2,421,255; May 27.
Packboard. O. C. Dalber. 2,421,244; May 27.
Packing device having fastener means for facilitating the formation of attractive display layers. G. H. Herwig. 2,421,264; May 27.
Papermaking apparatus. H. T. Knearem. 2,421,272; May 27.
Parachute cluster. P. F. Smith. 2,421,167; May 27.
Phosphor material to a support member, Applying. H. W. Leverenz. 2,421,208; May 27.
Phototube, Multicathode. R. W. Engstrom. 2,421,192; May 27.
Piano action. A. P. Brown. 2,421,239; May 27.
Pipe: *See*—
  Smoker's pipe.
Piston ring. V. F. Zahodiakin. 2,421,175; May 27.
Plant extracts and producing same. O. Gisvold. 2,421,118; May 27.
Plant extracts, Producing. O. Gisvold. 2,421,117; May 27.
Plumb line reel. E. H. Galford. 2,421,256; May 27.
Polar-type corrosion-inhibiting agents soluble in petroleum lubricating oils, Obtaining. J. E. Shields and E. V. Reilly. 2,421,040; May 27.
Polymer containing cyclic imide groups, Linear. C. J. Frosch. 2,421,024; May 27.
Position control system, Electrohydraulic. G. Agins. 2,421,230; May 27.
Positioning mechanism. H. A. Stamper. 2,421,168; May 27.
Pouch, Safety. I. M. Cowan. 2,421,055; May 27.
Pressure actuated switch. C. G. Hard af Segerstad. 2,421,149; May 27.
Pressure actuated switch. W. R. Peterson. 2,421,284; May 27.
Pressure unit. Rapid traverse. H. H. Merriman. 2,421,282; May 27.
Printer, Contact. C. H. Jacobson. 2,421,150; May 27.
Probe, Lacing. A. S. Antepenko. 2,421,110; May 27.
Projector apparatus. J. R. Miller. 2,421,077; May 27.
Punch. W. F. Kelley and E. O. Roggenstein. 2,421,069; May 27.
Quick disconnect coupling. P. P. Johnson. 2,421,332; May 27.
Quickly detachable fastener. C. J. Ulrich and A. F. Weissenberger. 2,421,172; May 27.
Rabbit feeder. H. E. Morey. 2,421,214; May 27.
Radar testing apparatus. E. M. Deloraine and E. Labin. 2,421,016; May 27.
Radio communicating system, Tested channel. J. C. O'Brien. 2,421,081; May 27.
Radio courses, Defining. F. W. Frink. 2,421,023; May 27.
Radio detection system. L. A. de Rosa. 2,421,018; May 27.
Radius former for end mills. I. Sneva. 2,421,358; May 27.
Rafts, Building log. J. G. Gibson. 2,421,145; May 27.
Railhead clamp. A. H. Genter. 2,421,257; May 27.
Razor. E. F. Kingsley. 2,421,205; May 27.
Reel: *See*—
  Plumb line reel.
Reflective sign. R. W. Luce. 2,421,277; May 27.
Reflector, Adjustable. M. S. Dunkelberger. 2,421,057; May 27.
Reinforced collapsible paperboard container. J. E. Borah. 2,421,238; May 27.
Rerailer, Car. H. J. Thomas. 2,421,170; May 27.
Reusable nesting shipping container. W. L. Stensgaard. 2,421,225; May 27.
Ring: *See*—
  Piston ring.
Rocking horse. M. J. Kendall. 2,421,270; May 27.
Rod: *See*—
  Casting rod.
  Curling rod.
  Hair-waving rod.
Salt and process, Dustless. R. L. Comstock. 2,421,185; May 27.
Salvage device. H. B. Davidson. 2,421,015; May 27.
Sash lock. F. Granberg. 2,421,196; May 27.
Scraper, Filament. J. Ehret, Jr. 2,421,319; May 27.
Screen stencil machine with travelling orbital inker. N. Louft. 2,421,210; May 27.
Sheet making mechanism. E. M. Kratz. 2,421,073; May 27.
Sheet material for the electrolytic formation of azo dyes thereon, Fibrous. M. Solomon. 2,421,367; May 27.
Shelf, Refrigerator. H. E. Smith. 2,421,089; May 27.
Shoe polish stick and coating same, Coated. R. H. David. 2,421,246; May 27.
Shoe upper, Tubular plastic. L. and R. Pessak. 2,421,353; May 27.
Sign: *See*—
  Reflective sign.
Single-phase alternating current synchronous motor. M. T. Swisher. 2,421,301; May 27.
Sizing compositions and yarn sized therewith. W. R. Haefele. 2,421,122; May 27.
Smoker's pipe. D. P. Lavietes. 2,421,337–8; May 27.
Snath for scythes. J. M. Quindry. 2,421,162; May 27.
Solderless connection. E. G. Walsh. 2,421,045; May 27.
Sole, Insert. J. M. Sims. 2,421,088; May 27.
Sole treating apparatus. W. C. Card, Jr. 2,421,053; May 27.
Speed equalizing landing wheel. E. M. Morrow. 2,421,156; May 27.
Spike for golf shoes, Removable. D. Kramer. 2,421,072; May 27.
Spot-welding machine. W. B. Ellwood. 2,421,021; May 27.
Spreading attachment. W. A. Lutz. 2,421,211; May 27.
Sprinkler unit. D. E. Wadsworth. 2,421,103; May 27.
Stand: *See*—
  Christmas tree stand.
Starting mixture. S. J. Magram. 2,421,029; May 27.
Steam generator. D. S. Binnington. 2,421,311; May 27.
Steam generator. M. H. Kuhner. 2,421,074; May 27.
Steam trap. W. J. Donnelly. 2,421,144; May 27.
Steering mechanism, Dual. E. W. Barnhart. 2,421,139; May 27.
Stroboscope. R. T. Bayne. 2,421,182; May 27.
Structural members formed of metal and timber. D. H. Green. 2,421,197; May 27.
Support or fixture, Display. W. N. Applegate and C. A. Petersen. 2,421,232; May 27.
Supporting means for vertical axis washing machine spinner baskets. G. W. Dunham. 2,421,251; May 27.
Surgical dressing. W. J. Gardner. 2,421,193; May 27.

Switch: *See*—

  Adjustable thermostat switch.

  Centrifugal operated switch.

  Electromagnetic switch.

  Liquid-quenched switch.

  Pressure actuated switch.

Switching device, Mechanical. J. Huber. 2,421,267; May 27.

Table and seat, Combined folding. P. L. Peckham. 2,421,127; May 27.

Tabulator. B. Haskins. 2,421,060; May 27.

Tank cap. B. B. Odell. 2,421,350; May 27.

Telephone system. B. McKim. 2,421,034; May 27.

Telephone system directed with the aid of revertive audio-frequency signals, Automatic. R. Taylor and G. T. Baker. 2,421,169; May 27.

Television studio construction. L. Levey. 2,421,274; May 27.

Tensile strength testing apparatus. A. L. Babcock. 2,421,002; May 27.

Textile decorating composition. E. Armatys. 2,421,000; May 27.

Textile marking apparatus. H. J. Theiler. 2,421,366; May 27.

Textiles and making same, Noninflammable waterproofed. F. F. Pollak. 2,421,218; May 27.

Thioamides, Synthesis of. J. E. Mahan. 2,421,031; May 27.

Thiocarbamo sulfenamides, Substituted. P. T. Paul and B. A. Hunter. 2,421,352; May 27.

Thrust element for cylinder liner removing and inserting tool. G. M. Graham. 2,421,324; May 27.

Tie for line conductors, Insulator. R. D. Pyle. 2,421,286; May 27.

Timing device. J. H. Reid. 2,421,130; May 27.

Tire, Resilient. H. E. Huntsbery. 2,421,330; May 27.

Tires, Apparatus and method for repair of. E. E. Lakso. 2,421,101; May 27.

Tires, Process and apparatus for repair of. E. E. Lakso. 2,421,097; May 27.

Tires, Process and apparatus for repairing. C. W. Vogt. 2,421,096; May 27.

Tires, Recapping of. C. W. Vogt. 2,421,099; May 27.

Tires, Repair of. E. E. Lakso and A. S. Chandler. 2,421,102; May 27.

Tires, Repair of. C. W. Vogt and E. E. Lakso. 2,421,098; May 27.

Tool: *See*—

  Wire insulation cutting tool.

Tool and jewel setter, Watchmaker's staking. W. E. Berlincourt. 2,421,310; May 27.

Tool for inserting cylinder liners. H. W. Lotz. 2,421,276; May 27.

Totalizing mechanism for record controlled tabulators, Cross. J. Mueller. 2,421,078; May 27.

Toy vehicle. A. W. Swenson. 2,421,041; May 27.

Transducer, Magnetrostrictive electroacoustic. P. J. Herbst. 2,421,263; May 27.

Transformer. J. R. Sutherland. 2,421,298; May 27.

Transformer circuit. H. O. Stephens. 2,421,300; May 27.

Transformer connection. W. M. Johnson. 2,421,299; May 27.

Transmission control device. E. A. Derungs. 2,421,188; May 27.

Transmission control, Hydraulic. A. Y. Dodge. 2,421,190; May 27.

Transmission line. H. A. Wheeler. 2,421,137; May 27.

Transmission mechanism, Power. W. Vutz. 2,421,044; May 27.

Transmission network, Wave. W. P. Mason. 2,421,033; May 27.

Traversing and indexing device. H. T. Hallowell, Jr. 2,421,327; May 27.

Truck, Hand. N. Jensen. 2,421,123; May 27.

Truck, Industrial. W. F. Herold. 2,421,328; May 27.

Truck, Railway. G. F. Couch. 2,421,317; May 27.

Tub construction for two-tub spinner type clothes washing machines. G. W. Dunham. 2,421,252; May 27.

Tube with rotary deflecting plates, Television cathode-ray. G. Sabol. 2,421,086; May 27.

Universal joint. A. Venditty. 2,421,134; May 27.

Ureido acid esters and making the same. R. Auchincloss and F. Linsker. 2,421,233; May 27.

Vacuum cleaner agitator roller, Direct drive. E. A. Basinger. 2,421,235; May 27.

Valve: *See*—

  Automatic pressure operated hydraulic piston type admission and exhaust valve.

  Balancing valve.

Valve. R. P. McCulloch and J. L. Ryde. 2,421,346; May 27.

Vehicle steering spindle mounting. L. R. Buckendale. 2,421,007; May 27.

Vehicles, Handling loads in. G. H. Pride. 2,421,128; May 27.

Venetian blind. F. Anderson and F. D. Couzzen. 2,421,308; May 27.

Warp, threads, yarns, and the like, Method and apparatus for conditioning. H. J. Walter and P. R. Rose. 2,421,135; May 27.

Washing machine and method, Domestic. K. Clark. 2,421,242; May 27.

Wave signal translating arrangement. H. A. Wheeler. 2,421,138; May 27.

Welding apparatus, Pressure. R. S. Kerns. 2,421,070; May 27.

Wheel: *See*—

  Demountable wheel.

  Speed equalizing landing wheel.

Wheel and shaft assembly means. G. H. Froelich. 2,421,254; May 27.

Winding apparatus, Strand. F. J. Joyce. 2,421,269; May 27.

Window construction. R. B. Anderson. 2,421,309; May 27.

Wire insulation cutting tool. C. D. Bell. 2,421,049; May 27.

Wires to metal surfaces, Attaching. H. Wolfson and S. C. Shepard. 2,421,047; May 27.

Wool-washing effluent, Treatment of. F. Totney. 2,421,094; May 27.

Worktable for stamping and embossing machines. R. L. Greenleaf. 2,421,260; May 27.

Wrench. E. Schultz. 2,421,038; May 27.

Wrist watch attachment. R. P. Fleischner. 2,421,253; May 27.

Yarns, Method of and apparatus for producing nubbed. A. Cavedon. 2,421,010; May 27.

Zinc depositing bath, Rapid. G. B. Hogaboom. 2,421,265; May 27.

CLASSIFICATION OF PATENTS

ISSUED MAY 27, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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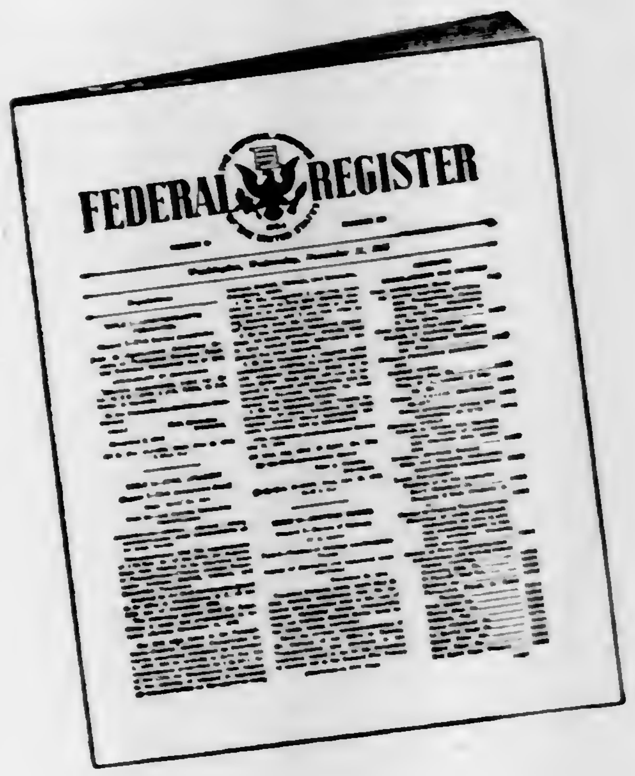

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DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE DEBELL

No. 5,221. Decided January 7, 1947

[158 F.(2d) 1021; 72 USPQ 261]

INVENTION—USE OF REINFORCING ELEMENTS.

Certain claims to a structural flooring made of a reinforced molded plastic material *Held* unpatentable over the prior art, since invention is not involved in placing metal reinforcing elements at a point, or points, where they are most needed.

APPEAL from the Patent Office. Affirmed.

Donald W. Farrington for DeBell.

W. W. Cochran (*James L. Brewrink* and *R. F. Whitehead* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 5, 6, 12, and 15 to 18, inclusive) in appellant's application for a patent for an alleged invention relating to reinforced plastic flooring for aircraft.

Claims 16 and 17 are illustrative of the appealed claims. They read:

> 16. A reinforced, molded plastic structure comprising a plane sheet of plastic material, plastic reinforcing members secured to said sheet, high tensile strength reinforcing members in said plastic reinforcing members, extending in the same general direction in a plane substantially parallel to said sheet but spaced from said sheet.
>
> 17. A structural flooring comprising a flat sheet of laminated fabric impregnated and bonded with a resinous compound, laterally positioned spaced apart rib members consisting of channel members having opposite flat sides, and having one side bonded to said sheet and being formed of laminated fabric impregnated with a resinous compound, and a flat, metallic perforated strip, molded in the rib member in the side opposite that secured to said sheet.

The references relied upon are: Steinmetz, 1,332,930, March 9, 1920; Kempton, 1,400,078, December 13, 1921; Kemp, 1,469,220, October 2, 1923; Dornier (British), 457,369, November 26, 1936; O'Brien, 2,146,758, February 14, 1939.

It appears from appellant's application that his flooring comprises, as stated in quoted claim 17, "a flat sheet of laminated fabric impregnated and bonded with a resinous compound" and "laterally positioned spaced apart * * * channel members having opposite flat sides * * * formed of laminated fabric impregnated with a resinous compound," one side being bonded to the flat flooring surface and the opposite side, according to quoted claim 17, reinforced by a "flat, metallic perforated strip" molded therein.

It is the purpose of appellant to provide a flooring for aircraft which is light in weight but strong and durable. Appellant states in his application that his flooring may be "composed of a laminated fabric material such as canvas or duck impregnated with a resinous compound preferably phenol formaldehyde"; that the flooring "is provided with laterally spaced apart longitudinal stiffening members integrally bonded to it" and forming hollow tubular channels; that the channels are composed of similar laminated fabric which is impregnated with a resinous compound; and that the channels forming the underneath portion of the flooring contain perforated metallic reinforcing strips in the sides opposite those secured to the flooring surface.

Appellant further states, among other things, that "Properly-designed metallic inserts * * * will permit a reduction in the amount of the tensile area and weight required in a plastic and will provide a more efficient load-carrying structure of higher strength to size and weight ratios. In most designs the inserts need only be used on the tension side as the plastic material generally provides adequate compressive strength."

The patent to Steinmetz relates to improvements in aircraft construction and discloses the making of framework of various portions of planes "* * * by pressing plastic material, for example, papier-mâché, reinforced if desired, into proper forms, and when desired, incorporating therein strong threads of metal or other material."

The patent to Kempton relates particularly to reinforced tubular elements used in constructing aircraft. The patentee states that he prefers to use "a woven fabric material, such as duck, a matted calendered material, such as paper, or a loosely matted, spinnable, fibrous material, such as cotton batting." The fabric material may be impregnated with a "phenolic condensation product." The patentee uses as reinforcing elements relatively light wires of steel which, he states, are covered with a fibrous covering which may be impregnated with the same material with which the fibrous sheet is composed.

The patent to Kemp relates to structural elements particularly adapted for airplane construction and discloses structural elements of fibrous material impregnated with a suitable binder. The patentee states that the fibrous material is preferably in sheet form and may be muslin, duck or paper and

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that the binder is preferably a "phenolic condensation product."

The patent to O'Brien relates to concrete structural units, such as joists, beams and the like, reinforced by metal bars or rods or other forms impregnated therein.

It is unnecessary to refer to the patent to Dornier as it was cited by the Primary Examiner merely as a matter of interest and apparently not relied upon by him in his rejection of the appealed claims.

All of the appealed claims were rejected on the patent to Kemp in view of the disclosure in the patents to Steinmetz and Kempton, and claims 15 and 16 were also rejected on the disclosure in the patent to O'Brien.

We quote from the Examiner's statement to the Board relative to his rejection of the appealed claims on the patent to Kemp, in view of the patent to Steinmetz and Kempton:

> Kemp discloses a structural laminated body of fibrous material impregnated with a phenolic condensation product, comprising superposed sheets one of which is deformed to provide reinforcing ribs. Kemp in itself therefore meets all recitals excepting "flooring" and the metallic reinforcement. The "flooring" constitutes merely a statement of use and no invention is seen in the broad use of any structural member as a roof, wall, floor or otherwise.
>
> Reinforcing any member is so common and conventional that it constitutes the obvious manner of overcoming structural deficiencies. This is true regardless of what material is involved. (Note Steinmetz and Kempton which reinforce papier-mâché and laminated fabric impregnated with a phenolic condensation product respectively.) It is within the purview of any designer to place the reinforcement where it is needed and where it will do the most good. * * *

With reference to claims 15 and 16 which were also rejected on the patent to O'Brien, the Examiner stated that the patentee disclosed concrete as a plastic substance and that the only distinction between the appealed claims and the disclosure in the patent to O'Brien is in the plastic materials, and that in view of the common substitution "of 'plastic' for other materials and the absence of any unobvious result from such broad substitution in the present case, no invention is seen in these claims over O'Brien."

The Board of Appeals affirmed the decision of the Primary Examiner and with reference to that portion of appellant's specification where it is stated that the perforated metallic inserts are preferably molded into the channels, that is, where the plastic material flows into and completely fills the perforation in the metal inserts, the Board stated that "The specification states that by filling the perforations, the metallic inserts are definitely keyed to the plastic material. It appears further that the real problem involved is to eliminate warpage due to unequal coefficients of contraction of the materials. The process to eliminate warpage was covered by original claim 7 which was cancelled after rejection on prior art." The Board further concluded that it was only a matter of choice to use a perforated metal plate as a reinforcement.

It is obvious from what has been stated that the prior art discloses the elements called for by the appealed claims. It is argued by counsel for appellant, however, that appellant's flooring has greater strength ratio per unit of weight than any of the prior art disclosures and that as the appealed claims call for "materials and elements combined in a particular way," and that as the structure defined by those claims is commercially successful, the appealed claims are patentable over the references of record.

We are unable to concur in the views expressed by counsel for appellant. On the contrary, we are in accordance with the views expressed by the Primary Examiner that it is common practice, as disclosed in the patents of record, to reinforce plastic materials for the purpose of overcoming structural deficiencies and that invention is not involved in placing the metal reinforcing elements at a point, or points, where they are most needed.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

In re Parlanti et al.

No. 5,230. Decided January 7, 1947

[158 F.(2d) 1018; 72 USPQ 275]

Patentability—Evidence of—Affidavits.

Where affidavits upon which appellants rely to establish superiority of the claimed process show comparative tests with disclosures other than that of the reference, it cannot follow that such tests thereby disclose a superiority which the reference does not likewise disclose.

Same—Difference in Principle Only.

Where the reference teaches the use of an oxide coating as a heat insulator while appellants establish by actual tests that the oxide coating serves as a heat conductor, *Held* that since the reference discloses the same coating, it is immaterial whether or not the patentee understood the principle upon which the coating operates.

Same—Process—Commercial Success.

Since appellants have failed to show that the claimed process is patentable over the art of record, the question of commercial success is immaterial.

Same—Same—Use of Different Material.

Certain claims to a process of casting aluminum involving the use of an aluminum mold having an oxide coating, *Held* unpatentable over a reference showing the mold, since the steps recited are conventional and the use of aluminum with the mold of the reference does not involve a patentable distinction.

Appeal from the Patent Office. Affirmed.

Glascock, Downing & Seebold and *Henry C. Parker* (*John J. McLaughlin* and *Sidney Wallenstein* of counsel) for Parlanti et al.

W. W. Cochran (*E. L. Reynolds* of counsel) for the Commissioner of Patents.

O'Connell, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in his rejection of claims 21, 23, and 24, being all the claims in appellants' application for a patent for alleged "new and useful improvements in Casting of Nonferrous Metals."

The rejection was based upon the ground that the appealed claims lacked invention over the disclosure of the patent to Newton et al. in view of the patent to Todt, cited as follows: Todt, 1,973,550, Sept. 11, 1934; Newton et al., 2,023,645, Dec. 10, 1935.

Appellants request that the appeal be dismissed as to claim 21 for the stated reason that the involved subject matter is amply defined by claims 23 and 24, which read—

> 23. The process of casting light metals, selected from a class consisting of aluminum, magnesium and alloys of these metals, which comprises casting such a metal in a mold formed from a metal consisting substantially of aluminum, the mold cavity of which has been anodized to produce an oxide film on the surface thereof.
>
> 24. In the casting of aluminum and aluminum alloys, the process which comprises melting such a metal and pouring the molten metal into the cavity of a mold formed from a metal consisting substantially of aluminum and having a melting point not substantially higher than that of the metal to be cast, said mold cavity having a surface formed of an integral anodized oxide coating, whereby adherence of the metal to said mold cavity is prevented owing to the increased rate of heat transfer from the cast metal to the mold.

The Todt patent relates to a mold made of cast iron, steel, copper, brass, or other suitable material, having a liner made of copper, brass or other metal of high heat-conductivity, and used to cast metals having a relatively high melting point. The cavity in the mold, as noted, is lined with metal and no suggestion appears that the cavity be coated with anodized oxide.

The patent to Newton et al., hereinafter identified as Newton, relates to the manufacture of casting dies, particularly for use in making castings of low melting point metal. The claims define not only a zinc base alloy die or mold whose cavity has been coated with anodized oxide but also the method of finishing zinc base alloy dies for casting low point metals.

The specification states, however, that it is also possible to make satisfactory dies from alloys consisting principally of aluminum, provided such alloys are practically free from lead or tin.

The Board in its decision directed attention to the fact that the Examiner cited Todt for its teaching that it is old to cast metals in a mold which is made of a metal of the same or lower melting point than the metal to be cast and that to anticipate the complete method defined by the appealed claims it was necessary only to cast aluminum in the mold defined by Newton.

The Board in reaching its final conclusion, however, considered that it would not amount to invention to cast light metals, such as aluminum, magnesium and alloys of these metals, in the mold of Newton. The Solicitor for the Patent Office takes the same position here.

Appellants take no issue with the fact that Newton discloses a mold and coating of the type defined by the appealed claims. They contend, however, that Newton not only does not teach the claimed process but on the contrary actually teaches the use of a mold which would be wholly inoperative to carry out such process.

The issue thus presented is whether invention was involved in casting aluminum, magnesium, or the alloys thereof in the coated mold disclosed by the patent to Newton.

In the determination of that issue it is necessary for the court to consider the following language quoted from the disclosure of the patent to Newton:

> * * * The invention is especially applicable to the making of toys of cheap though low melting point metals, which metals necessarily are largely composed of lead. It is important therefore to use an alloy for manufacturing the dies which contains practically no lead or tin, as the presence of even minute quantities of such metals would tend to cause the surfaces of the dies to blister, and alloying of the casting metal with the lead and tin in the die with subsequent pitting and erosion of the die will gradually take place. * * *

Relying upon the language hereinbefore quoted, appellants draw the conclusion that the class of metals utilized for casting by Newton is limited solely to "low melting point metals" which, as defined by the patent, "necessarily are largely composed of lead."

It is argued that since aluminum and magnesium are not low melting point metals, the disclosure of Newton is in nowise germane as an anticipatory reference to the process defined by the rejected claims.

There can be no doubt that Newton does not expressly suggest the casting of aluminum or magnesium in his zinc die but, examining the question in the light of the entire specification, it is clear that Newton's die is applicable to low melting point metals generally, and is not limited in use solely to metals which "necessarily are largely composed of lead."

The clause just quoted is relied upon by appellants to establish that Newton's die is restricted in use solely to low melting point metals such as lead alloy. That clause is not susceptible, however, to the interpretation upon which appellants rely for the reason that it is directed only to the making of toys for which cheap and low melting point metals are required and for which Newton states his die is especially applicable.

Appellants argue that Newton defines a die made out of zinc or aluminum, both of which are metals having a higher melting point than that of the metals to be cast, and that Newton admonishes any person skilled in the art not to employ a metal for the die which contains the same metal that is employed in making the casting in the die, "even though the oxide coating is employed."

The difficulty with appellants' argument is that it is based upon a misapplication of Newton's disclosure.

Newton, as hereinbefore described, states that in the making of toys of low melting point metals which "necessarily are largely composed of lead," it is important to use an alloy for manufacturing the die which contains practically no lead or tin, as the presence of such metals in the die would tend not only to cause the surface of the die to blister but also tend to cause the lead and tin in the die to alloy with the lead and low melting point metals used in the casting of the toys.

There is nothing in the disclosure of Newton, however, that supports the statement of appellants that such blistering of the die and the alloying of the metals will occur "even though the oxide coating is employed." On the contrary, Newton discloses that if the surface of the die is provided with the oxide coating as described by him it will protect the die and prevent possible alloying therewith of the metal being cast.

Appellants contend that a patentable distinction is defined by their claims over the disclosure of Newton due to the fact that Newton teaches the use of an oxide coating as a heat insulator whereas appellants have fully established by actual tests that in the practice of the claimed process the oxide coating serves not as a heat insulator but as a heat conductor.

There is nothing in the record which establishes that the particular metal employed has anything to do one way or another with the conductivity of the claimed coating in the casting of metals. In any event, Newton discloses the same coating and, as correctly pointd out by the Solicitor for the Patent Office, it is immaterial whether or not Newton understood the principle upon which the coating operates, citing *Smith* v. *Hall*, 301 U. S. 216, 481 O. G. 211.

Appellants contend that they have established by a proper showing in the record that the practice of the claimed process results not only in an increased output and a material saving in costs but also in aluminum castings having characteristics or qualities of utility that are new and materially different from the aluminum castings produced according to practices previously known in the art.

The affidavits upon which appellants rely to establish superiority of the claimed process show that sand and iron molds were employed by appellants in conducting comparative tests. It cannot follow that such tests thereby disclose a superiority which Newton does not likewise disclose.

It is further urged that the disclosure of the patent to Newton does not anticipate the process defined by the appealed claims and is therefore not pertinent as a reference, citing *Carnegie Steel Company* v. *Cambria Iron Company*, 185 U. S. 403, 99 O. G. 1866, and other authorities.

The steps recited by the appealed claims are the conventional steps of melting and pouring the molten metal into the cavity of a coated mold and thereby casting such metal. The novelty chiefly relied upon by appellants is that the mold is made out of the same material as the metal to be cast.

The disclosure of the patent to Newton suggests the use of an aluminum mold coated with the same coating that is employed by appellants. Appellants have failed to establish that Newton's mold in its normal and usual operation will not perform the same function that is performed by the process defined by the rejected claims. Therefore the use of aluminum in the aluminum mold of Newton does not involve a patentable distinction. *In re Ernst*, 32 C. C. P. A. (Patents) 1106, 150 F.(2d) 133, 66 USPQ 271, 570 O. G. 5.

Appellants allege that the outstanding merits of the claimed process have been recognized and practiced on an extensive scale in the United Kingdom and in other countries. Since appellants have failed to show that the claimed process is patentable over the art of record, the question of commercial success is immaterial. *In re Irnscher*, 32 C. C. P. A. (Patents) 1259, 150 F.(2d) 705, 66 USPQ 314, 581 O. G. 357.

Other and subordinate questions raised by appellants do not require statement and discussion in this opinion. Inasmuch as the appeal as to claim 21 has been withdrawn, the appeal with respect to that claim is hereby dismissed; and since the record fully warrants the action of the Board in rejecting claims 23 and 24, its decision in so doing is accordingly affirmed.

Affirmed.

PATENT SUITS

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

830,331, J. E. Knight, Unloading apparatus, D. C. W. D. Wash. (Bellingham), Doc. E15, *J. E. Knight* v. *Three Lakes Logging Co.* Order dismissing cause for lack of prosecution Apr. 1, 1947.

1,513,076, F. Visintainer, System for locating breaks in electric power lines; D. C. Wash., N. Div., Doc. (594 Seattle) E24, *F. Visintainer* v. *Puget Sound Power & Light Co.* Order dismissing cause for want of prosecution Apr. 1, 1947.

1,581,188, C. G. Fink, Process of electrodepositing chromium and of preparing baths therefor; 1,802,463, same, Producing chromium plated articles with mirror-like, scratch finish, or like surfaces. D. C., E. D. Wis. (Milwaukee), Doc. 742, *United Chromium, Inc.*, v. *Kohler Co.* Claims 4, 6, 10, 13, 16, and 18 of 1,581,188, and claims 1, 2, 3, and 4 of 1,802,463 held invalid; complaint dismissed on the merits Apr. 14, 1947.

1,802,463. (See 1,581,188.)

1,816,700, A. W. Rosen, Automobile mirror, filed Apr. 21, 1947, D. C., E. D. N. Y., Doc. 8002, *A. W. Rosen* v. *Strauss Stores Corp. et al.*

1,887,926, S. Fox, Combination garment, filed Apr. 10, 1947, D. C., S. D. N. Y., Doc. 41/111, *S. Fox* v. *Lane Bryant, Inc., et al.*

1,929,274. (See Re. 20,817.)

1,970,920, I. Roth, Brassière, filed Apr. 18, 1947, D. C., S. D. N. Y., Doc. 41/262, *Royal Worcester Corset Co.* v. *Exquisite Form Brassiere Corp.*

1,991,455, C. Gottwald, Conduit and conduit system; 2,378,214, same, Expansion means; 2,050,968, Gottwald & McLeish, Conduit construction; 2,360,067, W. S. McLeish, Anchor, filed Apr. 15, 1947, D. C., N. D. Ill., E. Div., Doc. 47c611, *The Ric-Wil Co.* v. *E. B. Kaiser Co.*

1,991,472, E. Stern, Method and apparatus for producing and projecting sound-motion pictures, filed Apr. 18, 1947, D. C., S. D. N. Y., Doc. 41/277, *E. Stern* v. *R. K. O. Radio Pictures, Inc.*

2,050,968. (See 1,991,455.)

2,118,468, T. G. Jungersen, Method of casting articles of intricate design and a product thereof, D. C., S. D. N. Y., Doc. 24/221, *T. G. Jungersen* v. *Baden & Foss.* Judgment dismissing complaint Apr. 23, 1947.

2,156,798, W. Bangser, Cloth-cutting machine, filed Apr. 22, 1947, D. C., S. D. N. Y., Doc. 41/316, *H. Maimin Co., Inc.*, v. *Simplex Cloth-Cutting Machine Co., Inc.*

2,285,770, Frank & Messring, Circuit breaker, appeal filed Apr. 14, 1947, C. C. A., 2d Cir., Doc. —, *Bulldog Electric Products Co.* v. *Westinghouse Electric Corp.*

2,321,041, G. K. Porter, Rotameter construction. D. C., E. D. Pa., Doc. 3644, *Fischer & Porter Co.* v. *Rotameters, Inc.* Order dismissing action without prejudice Dec. 24, 1946.

2,341,520, M. A. Babb, Starting and operating circuit for gaseous electric discharge device, C. C. A., 2d Cir., Doc. 20443, *Industrial Electronics Corp.* v. *Westinghouse Electric Supply Co. et al.* Decree affirmed (notice Mar. 7, 1947).

2,360,067. (See 1,991,455.) 2,378,214. (See 1,991,455.)

Re. 20,817, W. J. Maddox, Abrading roll; 1,929,274, W. J. Ellis, Abrasive element, D. C., N. D. Ohio, E. Div., Doc. 21008, *The Cleveland Container Co.* v. *The Even-Cut Abrasive Band & Equipment Corp. et al.* Order confirming report of Master and holding claims 3 and 4 of Re. 20,817 invalid; complaint dismissed as to H. Coe and R. L. Bacher, counterclaim dismissed Apr. 15, 1947.

Re. 22,865, D. B. Vincent, Process of making a food product, filed Apr. 8, 1947, D. C., S. D. Fla. (Tampa), Doc. 1364, *Suni-Citrus Products Co.* v. *D. B. Vincent.*

T. M. 188,741, Jay-Thorpe, Inc., Perfumes, powders, etc.; T. M. 206,799, same, Bath tablets, sachet, etc.; T. M. 209,518, Lionel Trading Co., Inc., Perfumes, powders, etc., notice received Apr. 25, 1947, D. C. N. J. (Camden), Doc. 10103, *Parfums Corday, Inc.*, v. *P. S. Willingmyre.*

T. M. 206,799. (See T. M. 188,741.)

T. M. 209,518. (See T. M. 188,741.)

T. M. 252,655, Philadelphia Storage Battery Co., Radio receiving sets and radio speakers; T. M. 400,943, Philco Corp., Battery parts and supplies; T. M. 402,689, same, Radio Cabinets and record album stands, filed Apr. 9, 1947, D. C., S. D. Tex. (Houston), Doc. 2673, *Philco Corp.* v. *J. Alco et al.*

T. M. 286,805, Canadian Pale Products Assn., Cereal beverage, filed Apr. 3, 1947, D. C. N. J. (Newark), Doc. 9993, *S. O. S. Products Co., Inc.* v. *Brad Chemical Corp.*

T. M. 314,493, J. L. Younghusband, Lipstick and rouge; T. M. 407,797, Associated Distributors, Lipstick, anti-perspirant, etc.; T. M. 426,323, Consolidated Cosmetics, Perfume, face powder, etc., D. C. N. J. (Camden), Doc. 9793, *Consolidated Cosmetics* v. *P. S. Willingmyre et al.* Consent decree dismissing complaint Apr. 16, 1947.

T. M. 349,417, B. G. Pratt Co., Insecticides, filed Apr. 3, 1947, D. C. N. J. (Newark). Doc. 9974, *B. G. Pratt Co.* v. *Kem Products Co.*

T. M. 390,357, Abbott Laboratories, Medicinal wafers, filed Apr. 17, 1947, D. C., N. D. Ill., E. Div., Doc. 47c618, *Abbott Laboratories* v. *National Drug Laboratories, Inc.*

T. M. 400,943. (See T. M. 252,655.)

T. M. 402,689. (See T. M. 252,655.)

T. M. 407,797. (See T. M. 314,493.)

T. M. 426,323. (See T. M. 314,493.)

NOTICES

Advance Deposit of Applications Under the Trade-Mark Act of 1946

U. S. Patent Office, *Washington 25, D. C., May 12, 1947.*

The Patent Office will accept applications for registration under the Trade-Mark Act of 1946, prior to July 5, 1947, the day when the new act comes into effect. In submitting such applications it must be clearly indicated that they are to be filed under the new act and the filing fee of twenty-five dollars ($25.00) required by the new act must accompany each application. All such applications deposited in the Patent Office prior thereto, will be filed on July 5, 1947, and given that filing date.

Until rules under the Trade-Mark Act of 1946 are adopted, these applications may be prepared in accordance with the proposed revision of trade-mark rules announced April 30, 1947, but revision and amendment will be required if they do not comply with the rules as finally adopted and promulgated. If the papers are executed within five weeks of July 5, 1947, they will be considered as executed within a reasonable time prior to the date of filing.

It will facilitate handling if envelopes forwarding such applications are marked "Trade-Mark Application, Act of 1946" or some such similar phrase.

A notice of claim of benefits under the Trade-Mark Act of 1946 (section 12(c) of the act) will likewise be accepted prior to July 5, 1947, for filing on that date. Such notices may be prepared in accordance with the proposed revision of the trade-mark rules (see proposed Rule 21.1 and proposed Form M) but revision and amendment will be required if they do not comply with the rules as finally adopted and promulgated. The notice must be accompanied by the required fees (see section 31 of the act for fee for filing the notice and fees for abstract of title or title report).

Applications for renewal of registrations, regularly filed prior to July 5, 1947, need only comply with the requirements of the act of 1905.

CASPER W. OOMS,
Commissioner.

Interference Notice

U. S. Patent Office, *Washington, D. C., May 8, 1947.*

Oxford Confectionery Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of H. L. Hildreth Co., 549 Albany Street, Boston, Mass., for registration of a trade-mark and trade-mark registered October 28, 1930, No. 276,718, to Oxford Confectionery Company, South and Franklin Sts., Oxford, Pa., and the notice of such declaration sent by registered mail to said Oxford Confectionery Company at the said address of record having been returned by the post office undeliverable, notice is hereby given that unless said Oxford Confectionery Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Disclaimer

1,954,405.—*Andrew J. Dotterweich,* Pittsburgh, Pa. Water Softening Apparatus. Patent dated Apr. 10, 1934. Disclaimer filed Apr. 26, 1947, by the assignee, *The Permutit Company.*

Hereby enters this disclaimer to claims 2, 3, 4, 9, 16, 17, 18, 19, 20, 21, 22, 23, 31, 32, 44, 45, 46, and 47 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,263,216. Motor Car Body. Patented Nov. 18, 1941. Body in normal external appearance resembles a sedan body of conventional form with a luggage boot projecting at the rear. The top may be partly opened or converted into a full open touring body. The top comprises two telescopic roof panels and a back panel, all slidably mounted in rails at the top of the body framework. Rollers or runners are mounted on the panels. The rails branch at the rear to provide two separate sets of tracks on which the panels are slid into and out of the boot. The back panel slides on one set while the other two sections in telescoped relation slide on the other set. In use any panel may be moved jointly with or independently of the other two. The panels may be equipped with any suitable operating mechanism together with any desirable locking means. (Owner) John H. Latchford, 55 Poppythorn Lane, Prestwich, Manchester, England. Group 38—21. Reg. No. 5,632.

Pat. 2,375,225. Portable Leg and Foot Rest. Patented May 8, 1945. A pair of extensible trough-like leg supports, with adjustable telescopic props, are mounted in spaced relation on a frame. Frame may be attached to any sized bed or chair. Leg supports are made of light weight sheet metal with frame and props of metal tubing. The article is collapsible and may be easily carried or stored. (Owner) Lionel Herbert, P. O. Box 1561, Charlotte, N. C. Groups 25—14; 33—73. Reg. No. 5,633.

Pat. 2,412,649. Process of Separating 3-Picoline, 4-Picoline, and 2,6-Lutidine. Patented Dec. 17, 1946. Group 28—83—89. Reg. No. 5,634.

Pat. 2,412,650. Process of Separating 3-Picoline, 4-Picoline, and 2,6-Lutidine. Patented Dec. 17, 1946. Group 28—83—89. Reg. No. 5,635.

Pat. 2,412,651. Process of Separating 3-Picoline, 4-Picoline, and 2,6-Lutidine. Patented Dec. 17, 1946. Group 28—83—89. Reg. No. 5,636.

The above three patents refer to azeotropic distillation processes for the separation of 3-picoline, 4-picoline, 2,6-lutidine which occur as a basic coal tar oil mixture. All processes involve maximum boiling azeotropic mixtures other than phenol: Ortho-hydroxy-chloro-benzene (Patent 2,412,649); formic acid (Patent 2,412,650); and aliphatic acids such as acetic, butyric, and propionic (Patent 2,412,651). The separated products obtained are substantially pure. (Owner) George Riethof, Ph. D., 136 Rae Ave., Pittsburgh 16, Pa.

Pat. 2,267,658. Collapsible Tower. Patented Dec. 23, 1941. A portable shower used in combination with an air cooled gas engine and pump to supply water to reservoir. May be quickly erected or dismantled by the use of only one tool—a pipe wrench. Designed primarily for military and camp use, it is capable of supplying hot water over long periods of time despite constant use. Temperature of water may be regulated as desired. Several parts, including legs and braces, are interchangeable. When dismantled the structural parts are used for crating thus making it very compact for transportation. (Owner) Hans C. Larsen, Room 105, City Hall, Fayetteville, N. C. Group 33—81. Reg. No. 5,637.

Pat. 2,361,041. Tensioning Device for Yarn Throwing Machines of the Up-Twister Type. Patented Oct. 24, 1944. The yarn passes through two guides which automatically correct variations and maintain a normal even tension of the yarn at all times. The guides, one of which replaces the usual balloon guide, are pivotally mounted in angular relationship to each other to impart substantial deflection to the yarn. A single adjustable counter-weight means is operatively associated with the guides to determine their position and the amount of deflection by the tension of the yarn against the influence of the counter-weight. If the tension of the yarn increases the guides will pivot simultaneously to lessen the amount of deflection and shorten the balloon area to relieve the tension. If the tension of the yarn decreases the guides will move in the opposite direction and increase the amount of deflection to increase the tension. (Owner) Herbert Lasch, 39 Parsonage Road, Withington, Manchester, England. Group 35—52. Reg. No. 5,638.

Pat. 1,979,499. Vulcanization of Caoutchouc. Patented Nov. 6, 1934. According to the patent, a better vulcanized product is obtained by the use of a mixture of phosphorus sesquisulphide, magnesium oxide and free sulphur heated at 80° C., in a closed vessel using mineral oil as a vehicle if desired. When cooled, the agent is ground into a paste and incorporated into rubber or rubber compounds. (Owner) Allon Skipsey, Sunny Meed, Park Road West, Woking, Surrey, England. Groups 28—83; 30—41. Reg. No. 5,639.

Pat. 2,398,764. Sheathed Knife Clasp. Patented Apr. 23, 1946. A pair of resilient jaw members are secured adjacent the mouth of a conventional sheath to yieldably engage stops carried by a knife to prevent accidental removal of the knife from the sheath. Convex heads on a rivet extending through the knife form the stops. Each jaw has a guide channel and a depression forming an enlarged recess to engage a stop. (Owner) Donald C. Bailey, Box 422, Middletown, Conn. Groups 31—72; 40. Reg. No. 5640.

Pat. 2,411,632. Automatic Emergency Brake Release for Motor Vehicles. Patented Nov. 26, 1946. By depressing the accelerator pedal when the ignition switch is on, this mechanism automatically releases an automobile emergency brake. Accelerator pedal cannot be depressed when ignition switch is off since a pivoted lever of the release mechanism, actuated by the pedal, is normally latched to prevent it from pivoting. Solenoid controlled means are provided for unlatching the lever when the ignition is turned on. (Owner) Harold Moran, Harmon St., Lincoln Park, N. J. Group 38—31. Reg. No. 5,641.

Pat. 2,401,321. Geometrical Instrument. Patented June 4, 1946. A threaded connection for the legs of a bow compass or like instrument to reduce wear in the connections and to lessen time required for adjustments. The threaded connection for each leg comprises a pivoted split nut consisting of a pair of pins rockably and slidably fitted in coaxial bearings formed in each leg. The adjacent ends of the pins are threaded to form a connection for an adjusting screw which varies the spacing of the legs. Leaf springs bearing against each leg tend to hold the pins against the screw to insure a snug fit, taking up wear and preventing any backlash or clearance. (Owner) Fred N. Schwend, 4331 Kenwood Ave., Los Angeles 37, Calif. Group 39—11. Reg. No. 5,642.

Pat. 2,114,250. Display. Patented Apr. 12, 1938. Full length display and advertising medium for overalls or the like. Comprises a light, inexpensive, resilient frame made of stiff wire. It may be shipped in folded condition and readily assembled to display the garment so that the seams, reinforced portions and shoulder straps are exposed to view. An advertising plate may be slipped over the top of the display. (Owner) Lyndon W. Joyce, 32 Hamilton St., N. W., Washington 11, D. C. Groups 33—49; 39—93. Reg. No. 5,643.

Pat. 2,413,579. Crystal Holder. Patented Dec. 31, 1946. Hermetically sealed holder for a piezo-electric crystal has contact pins for plugging into a socket. It is highly compact so that a large number may be mounted in a relatively small space. Final hermetic sealing of the holder is accomplished by soldering a metallic cap to the holder without any danger of the resultant heat deleteriously affecting the crystal. The body of the holder is made of glass and is closed at one end and open at the other. The lower extremities of all the walls merge into a common press through which the pins project. The edges of the open end of the holder are provided with a bonded metallic coating or collar to which a metal cover is soldered after the crystal has been inserted. (Owner) Miles Pennybacker, %Voltarc Tubes, Inc., 44 Cross St., Norwalk, Conn. Group 36—61—92. Reg. No. 5,644.

Pat. 2,327,073. Soldering Iron Holder and Circuit Control. Patented Aug. 17, 1943. The free end of a soldering iron is supported by a rest connected intermediate its ends to a pivoted switch projecting through the top of the housing of the holder. The end of the iron may be selectively placed on either arm of the rest to actuate the switch. The holder is provided with an extension cord and two outlet sockets. An extension cord may be plugged into either socket. (Owner) Ralph Smith, Jr., % T. S. Jemson, 357 Baker St., Nelson, British Columbia, Canada. Group 36—11—21. Reg. No. 5,645.

Pat. 2,413,202. Walking Aid. Patented Dec. 24, 1946. Designed to be used in lieu of crutches or canes. Device comprises a horizontal bar forming a handle with the top ends of three inclined legs secured to the handle. Cross braces are connected to the legs. A pair of the legs are connected to opposite sides of the handle near its forward end while the third leg is connected to the rear end of the handle. A patient may grasp the handle with either one or both hands and move or slide the device along the floor in front of him. (Owners) Leon Vrooman and Stanley Smalley. Address correspondence to Stanley Smalley, Gloversville, N. Y. Groups 25—99; 39—16. Reg. No. 5,646.

Pat. 2,312,956. Collapsible Horse. Patented Mar. 2, 1943. Carpenter's horse is made collapsible for storage or transportation by a compound hinge and linkage arrangement. The hinge is composed of a pair of plates joined in the familiar manner. One plate has a pair of converging flanges adapted to fit the rail of the horse which is notched for that purpose. The other plate has a pair of hinged wings, each of which has a pair of flanges projecting at right angles to accommodate the upper ends of the legs. When the linkage connected to opposite pairs of legs is expanded, the horse is rigid enough to serve as a work support for scaffolding, platforms, etc. (Owner) Harry C. Campbell, Box 115, State Soldiers Home, Ohio. Group 33—73. Reg. No. 5,647.

Pat. 2,412,716. Folding Horse. Patented Dec. 17, 1946. This carpenter's horse is similar in purpose and construction to that described in Patent 2,312,956, except that the fabrication is of stamped metal. Legs and rails are tubular and the cross-section is rectangular so that the horses are conventional in appearance. (Owner) Harry C. Campbell, Box 115, State Soldiers Home, Ohio. Group 33—73. Reg. No. 5,648.

Pat. 2,399,140. Method for Reclaiming Crankcase Oil. Patented Apr. 23, 1946. A process for the treatment of crankcase oil. A solvent and/or neutralizer such as alkali is added to the oil and thoroughly stirred to dissolve the soluble impurities and neutralize the acids. It is then subjected to centrifugal force to separate the solvent with the impurities from the oil. Metal and other soluble impurities are readily separated. In some cases the neutralizer may be omitted. The process may be carried out with various types of well known centrifugal machines. (Owner) Fred I. McCarthy, 30 Rockefeller Plaza, New York 20, N. Y. Group 29—11. Reg. No. 5,649.

Pat. 2,357,602. Spark Plug. Patented Sept. 5, 1944. Group 38—31. Reg. No. 5,650.

Pat. 2,394,865. Spark Plug. Patented Feb. 12, 1946. Group 38—31. Reg. No. 5,651.

In the above two patents a filling of powdered copper or other suitable material is inserted in a chamber of the plug and converted under pressure into a solid to seal the interior of the plug, to balance or neutralize compression stresses and strains, and to dissipate heat. In Patent 2,304,865 the filling is inserted into a chamber formed between the wall of the shell of the plug and a cylindrical ceramic member which surrounds the spindle. In Patent 2,357,602 the filling is inserted in a wedge-shaped bore between the side of the shell and a thin copper sleeve having a wedge-shaped lower end, or the wedge-shaped end may be a separate member. The sleeve and wedge-shaped member surround a mica sleeve or tube which surrounds the spindle of the plug. A series of mica washers may be placed above the compacted filling and held together by a locking ring. Modifications are shown in each patent. (Co-owner) Fred. I. McCarthy, 30 Rockefeller Plaza, New York 20, N. Y.

Pat. 2,210,826. Fluid Packing. Patented Aug. 6, 1940. Particularly adaptable for packing swiveled joints of rotary drilling rigs. Four separate and independent sets of packing rings (substantially V-shape in cross section) are employed. One set is disposed in each end of an annular packing recess in the swivel. Two sets (placed back to back with a follower ring in between) divide the recess into two separate chambers and provide a longitudinally movable packing which is acted upon from opposite directions by opposed springs. Both chambers are filled with oil. Additional oil under pressure is introduced into one chamber to force the movable packing against the spring in the other chamber. Should any high pressure fluid leak into the packing gland it will enter one chamber and tend to force the movable packing against the spring in the other chamber creating an opposing or equalizing counter-force, thus preventing such fluid leaking into the other chamber. (Owner) James H. Williams, % Wayland D. Keith, 904 City National Bldg., Wichita Falls, Tex. Groups 32—93; 35—32. Reg. No. 5,652.

Pat. 2,135,771. Snap Hook. Patented Nov. 8, 1938. Hook is made from a single piece of wire-like material and may be detachably connected to the end of a cable or the like. An opening is provided in its butt end for receiving a swivel connection. Various objects, such as a link to be engaged by the hook will be securely held against accidental displacement. Device comprises a hook end having a shank bent to form two oppositely disposed, elongated shank members with their lower ends forming a U-shaped return bend, which constitutes the butt. One of these shank members (both of which diverge upwardly) with its free upper end constituting a keeper for engaging the end of the hook, is bent intermediate its ends into a lateral V, the apex of which is welded to the opposite shank member. To open the hook the keeper shank is flexed inwardly by thumb pressure. A modification is shown. (Owner) Mrs. Frank L. Roof, 209 North Waterloo St., Jackson, Mich. Group 33—49. Reg. No. 5,653.

Pat. 2,406,132. TOOL RETAINER. Patented Aug. 20, 1946. Attachment is primarily intended for use with power operated hammers to prevent the tool from slipping out of the hammer. It is conveniently operable for securing and releasing the tool and comprises few parts. It may be readily attached to the outside of common types of existing hammers or form a part of new hammers by threadedly connecting it to the lower ends of the usual stud bolts (associated with such hammers) which carry the absorber springs. A pivoted L-shaped arm of the attachment may be swung into and out of tool-retaining position and provision is made for latching and unlatching the horizontal free end of the arm. The horizontal portion of the arm has a semi-hexagonal notch intermediate its ends for engaging the exposed surface of the tool directly below an annular flange, which is usually formed on such tools, so that the flange rests on the arm. (Owner) Anthony J. Calaman, 12 Hawley St., Oswego, N. Y. Group 35—41—43. Reg. No. 5,654.

Pat. 2,368,970. CAMERA CONSTRUCTION. Patented Feb. 6, 1945. Camera assembly is intended for identification photography to simultaneously photograph the features of a person together with legible informative data on a small card without the necessity of first enlarging the card. The camera is equipped with double angularly mounted lenses to cast separate images on separate portions of a single film. One lens is directed toward the subject at a remote point. The other lens, confined in a tube-like extension chamber is directed toward a card placed in the outer end of the chamber. A light impervious divider plate placed inside the camera between the lenses is arranged for vertical adjustment to define a border between the portions of the film receiving the images. (Owner) Norman L. Cook, % Norco Laboratories, 226 East Thirteenth St., Anderson, Ind. Group 39—12. Reg. No. 5,655.

Pat. 2,007,353. DEVICE FOR COVERING LIPS. Patented July 9, 1935. A loosely fitting hood, of gauze or any flexible material, to be worn over the head during dress try-ons to prevent the hair of the wearer from becoming disarranged. The hood is provided with a wide band which shields the lips and prevents the dress from being soiled by lipstick stains. May be inexpensively manufactured and thrown away after a single use. (Owner) Martha C. Tarantoles, 1235 Park Ave., New York 28, N. Y. Group 22—11. Reg. No. 5,656.

Pat. 2,410,613. FLUSHING OIL. Patented Nov. 5, 1946. A solvent, for removing sludge from automobile crankcases, in which a fraction of the product formed in the catalytic reforming of heavy naphtha is utilized. Basically, the fraction selected has an initial boiling point ranging from 200–250° F. Under suitable reaction conditions the fraction is contacted with 10% molybdenum oxide (or a like catalyst) on activated alumina. The solvent may be used as a flushing oil or as a flushing oil component. When used in admixture with a mineral lubricating oil, the solvent exhibits a kauri butanol value in excess of 100. (Owner) Robert F. Ruthruff, 1711 West 100th St., Chicago 43, Ill. Group 29—11. Reg. No. 5,657.

Pat. 2,406,950. SELF-SQUEEZING MOP. Patented Sept. 3, 1946. Absorbent material is attached to the head of a mop and squeezed by an auxiliary presser block pivoted to the main mop head by a lever arrangement so that the hands of the operator need not contact the material. In size, the presser approximates that of the main head, a short handle being provided so that the presser may be swung into squeezing position. The lever arms are slotted so that adjustment may be made to accommodate different thicknesses of absorbent material. (Owner) J. P. Ball, 9441 Pleasant Ave., Chicago 20, Ill. Groups 23—93; 35—69. Reg. No. 5,658.

Pat. 1,960,952. SELF SHARPENING SAFETY RAZOR. Patented May 29, 1934. A self-sharpening safety razor in which the friction between a guard roller and the face automatically hones the opposite edge of the blade while shaving with the other edge. (Owner) Alex Pascoo, 1039 Ward Ave., Bronx 59, N. Y. Group 33—41. Reg. No. 5,659.

Pat. 1,960,953. HOOD CONSTRUCTION FOR MOTOR VEHICLES. Patented May 29, 1934. Construction permits hood of an automobile to be moved both to open and closed positions by manipulating control means adjacent the driver's seat. (Owner) Alex Pascoo, 1039 Ward Ave., Bronx 59, N. Y. Group 38—31. Reg. No. 5,660.

Pat. 2,053,681. DOOR AND HOOD LOCKING MECHANISM FOR AUTOMOBILES. Patented Sept. 8, 1936. Locking mechanism enables all four doors and the hood of an automobile to be locked or unlocked by the actuation of a single turn of a key. May be incorporated into conventional body constructions without radical changes in construction. (Owner) Alex Pascoo, 1039 Ward Ave., Bronx 59, N. Y. Group 38—31. Reg. No. 5,661.

Pat. 2,368,564. TIRE PRESSURE GAUGE. Patented Jan. 30, 1945. Combination tire-gauge and valve for inner tubes indicates the amount of air pressure in an automobile or bicycle tire without checking the tire itself. Reading is taken by referring to either side of the valve stem on which graduations are read in line with the top edge of a flanged sleeve surrounding the stem and fitted into the usual rim opening. A normally compressed helical spring around the stem between the inner tube and the flange of the sleeve moves the valve inwardly when deflation occurs. (Owner) Alex Pascoo, 1039 Ward Ave., Bronx 59, N. Y. Groups 35—69; 38—31. Reg. No. 5,662.

Pat. 2,412,906. SAFETY RAZOR. Patented Dec. 17, 1946. A safety razor with reversible handle for use with any conventional double edged blade. May also be used as a straight razor by pivoting the head. (Owner) Alex Pascoo, 1039 Ward Ave., Bronx 59, N. Y. Group 35—41. Reg. No. 5,663.

Des. 145,739. DESIGN FOR AN ASH TRAY. Patented Oct. 15, 1946. (Owner) Louis Lomasney, 135 North Washington St., North Attleboro, Mass. Group 32—29. Reg. No. 5,664.

Pat. 2,165,715. CAN OPENER. Patented July 11, 1939. An opener and shield for a sealed beverage-containing can which prevents the escape of any liquid having a tendency to foam upon exposure to air. The shield is domed and engages the rim of the can to which it is applied and acts to provide a space between the top of the can and the shield for the escaping foam. The usual beer can opener may be inserted through an opening in the shield to pierce the can and the contents poured after removal of the opener. The shield may be inexpensively manufactured as a separate article (which may include a simple piercing cutter) or integrally formed on a discardable can. (Owner) Harold H. Holle, 237 North Oraton Parkway, East Orange 4, N. J. Group 33—31—73. Reg. No. 5,665.

Pat. 2,412,870. SURFACE LAYOUT GAUGE. Patented Dec. 17, 1946. This layout gauge is used in marking exact heights above a supporting base. Comprises a base which supports a scaled vertical column, grooved to accommodate an adjustable slide which is linked to an auxiliary slide by a threaded rod. The lower end of the scale is attached to an adjustable strap which holds the scale in different positions of adjustment. An indicator arm or scriber projects laterally from the slide. A pair of cooperating lugs or contact members are used to obtain extreme accuracy in adjustment of the scale (so that its position is always a predetermined distance above the supporting base). One lug member is secured to the slide and the other to the scale. These lugs are so positioned relative to the markings on the scale that when in contact, the zero markings on the scale register with the index line on the slide. A direct reading of a dimension may be taken of any two points on the indicator. An important feature of the device is that it permits the user to summarize a series of successive markings in one total on the scale. (Owner) W. B. Champlin, 815 South Holly Road, Fenton, Mich. Group 39—11. Reg. No. 5,666.

Des. 140,630. DESIGN FOR A WELDING ELECTRODE HOLDER. Patented Mar. 20, 1945. Group 36—19. Reg. No. 5,667.

Pat. 2,411,652. WELDING TOOL. Patented Nov. 26, 1946. Group 36—19. Reg. No. 5,668.

The above two patents cover structural features and the design of a light streamlined welding electrode holder in which all exposed parts are completely insulated. It may be easily assembled or disassembled by a workman. A pair of hinged metallic members are formed with angularly extending gripping jaws in their forward ends. The jaws, urged into gripping engagement by a spring, are opened by pivoting the lower jaw member. The top member has a circular extension with a cylindrical insulating shield adapted to encompass the handle and a cable electrically connected therewith. A pair of separate U-shaped insulating shields of different size are attached to the jaw members with one shield overlapping the other. The forward ends of these U-shields overlie the ends of the jaws. (Owner) Joseph U. Garibay, % Garibay Manufacturing Co., 1517 Colegrove Ave., Montebello, Calif.

Pat. 2,412,741. HEADBAND TERMINAL. Patented Dec. 17, 1946. Terminal is provided for attachment to the ends of headbands of hearing aids or the like to uniformly and comfortably distribute pressure against wearer's head. An envelope of cushioned material is slipped over the terminal. The terminal comprises a single blank stamped from thin sheet metal in a single operation. The blank is contoured to form two integral flat oblong sections with tabs and a T-extension at the end of one section. The sections are folded together on the end of the headband. The tabs and arms of the T are then bent to form retaining means. No additional fastening means are necessary. (Owner) William E. Morgan, 608 Waller St., San Francisco 17, Calif. Group 36—99. Reg. No. 5,669.

Pat. 2,178,196. TYPEWRITER CASE. Patented Oct. 31, 1939. Case for a portable typewriter or the like has a tray chamber with an open front end formed in its base for reception of a sliding tray which has its front wall omitted. When case is closed, the lower end of the front wall of a cover which is detachably hinged to the base overlies and closes the open end of the chamber to maintain the tray in closed position. To prevent the tray from accidentally sliding out of the chamber when the case is open, cam latches in the sides of the tray near its front end engage the sides of the chamber. To hold stationery or other papers in place in the tray a plate pivotally connected to rear of tray is normally urged downwardly against the bottom of the tray by springs. The tary slides in and out of the chamber on guide tracks. (Owner) P. Baker Witmer, 9 Chester St., Lancaster, Pa. Group 35—72. Reg. No. 5,670.

Pat. 2,413,160. POTATO SLICER. Patented Dec. 24, 1946. A hand manipulated slicer for household use wherein a whole potato, apple, or the like may be placed and sliced into strips or cubes without danger of cutting hand or fingers. A flat base supports a V-shaped rack for receiving the vegetable or fruit. Each side of the rack is provided with a series of narrow aligned panels which are spaced apart to form slots for the reception of a series of knife blades. A detachable vertically swinging frame having a series of knife blades and a handle may be hingedly connected to the end of either side of the rack. By interchanging the position of the bladed frame relative to the rack, the vegetable or fruit may be cut lengthwise and crosswise. (Owner) P. Baker Witmer, 9 Chester St., Lancaster, Pa. Groups 33—51; 34—41; 40. Reg. No. 5,671.

Pat. 2,409,766. METAL TYPE STOP MOTION ATTACHMENT FOR LOOMS. Patented Oct. 22, 1946. A detachable adjustable device for stopping a loom when a harness wire or strap breaks. Comprises an adapter unit in the form of a bendable metal rod with insulators at opposite ends and a loop on one end for mounting on frame bar. The circuit make and break element comprises a coiled spring anchored to the two insulators. (Owner) Jonas F. Koskela, Waldoboro, Maine. Group 35—52. Reg. No. 5,672.

Pat. 2,318,139. TOY PISTOL. Patented May 4, 1943. This toy pistol is capable of hurling a ball attached to a band, causing a bell to ring and a projector lever to toss a cardboard disc simultaneously. The pistol has an elongated body and a hand grip to which a spring drawn trigger is pivoted. A rod, which extends through the rear of the body, is pivoted to the trigger so that when pressure is exerted on the trigger a projector lever is released, hurling the ball and tossing the disc. The toy is incapable of damaging a target and safely handled by children. (Owner) Gio Calabrese, 901 World Bldg., New York 7, N. Y. Group 39—41. Reg. No. 5,673.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING APRIL, 1947

Charles A. Rolley (Rolley, Inc., Assignee Substituted) *v.* Chaim L. Szalet, Interference No. 3722.

In a decision rendered April 2, 1947 (169 Ms. Dec. 305, 73 USPQ 66), *First Assistant Commissioner Frazer* denied a petition by the party Chaim L. Szalet, of New York, N. Y., seeking a review and reversal of the decision of the Examiner of Interferences granting the motion of Charles A. Rolley (Rolley, Inc., Assignee Substituted), of San Francisco, Calif., to strike a request for admissions of fact served by Szalet under Rule 36 of the Rules of Civil Procedure.

It was held that the procedure set forth in Rule 36 and similar rules of the Federal Rules of Civil Procedure is inapplicable in interferences; there are no pleadings, and the only issue to be determined is that of priority of use; since elaborate provision is made in the rules of practice for the manner in which evidence shall be adduced and Rule 159 expressly excludes from consideration evidence which shall not have been taken and filed in compliance with these rules, admissions under Rule 36 of the Rules of Civil Procedure may not properly be required.

It was further held, moreover, that the facts, the admission of which is here requested, are irrelevant to the sole issue of priority and that the motion to strike should be sustained on that additional ground, for Rule 36 relates only to relevant documents and relevant matters of fact.

Ex parte Porst Brothers (Porst Bros. Mfg. Co., Assignee, Substituted) Serial No. 427,561.

In a decision rendered April 2, 1947 (169 Ms. Dec. 306, 73 USPQ 66), *First Assistant Commissioner Frazer* dismissed the petition by Levermatic Corporation, which had filed on December 10, 1946, for recording a certified copy of its articles of organization, showing itself to be a corporation of the State of Massachusetts, requesting that the Patent Office, without expense to petitioner, shall cause to be canceled a registration of the word "Levermatic" issued February 11, 1947, on the application of Porst Brothers, (Porst Bros. Mfg. Co., Assignee, Substituted), of Chicago, Ill., where the application to register had been passed for publication and the mark was published in the Official Gazette of November 12, 1946, but the registration had been issued before the document had been reached for recording.

In response to petitioner's argument that the mark was registered in violation of section 5, U. S. C., Title 15, sec. 85, which provides that no mark which consists merely in the name of a corporation shall be registered, it was held that the only appropriate action in view of the premises is to dismiss the petition; the Patent Office has authority to cancel a registration only in accordance with statutory proceedings duly instituted for that purpose; within thirty days after publication of the mark, petitioner might have filed a notice of opposition to the proposed registration; having failed to do so, its only remaining remedy is by formal application to cancel under section 13 of the Trade-Mark Act.

Ex parte Laabs Cheese Company, Serial No. 462,621.

In a decision rendered April 9, 1947 (169 Ms. Dec. 309, 73 USPQ 85), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks rejecting the application of Laabs Cheese Company, of Milan, Wis., to register the notation "Pine Tree" as a trade-mark for natural bulk American cheese in view of prior registrations of the same mark for canned vegetables and sardines.

In response to applicant's argument that likelihood of confusion is the only acceptable test in determining whether goods possess the same descriptive properties and that since confusion is here unlikely, the proposed registration should have been granted, it was held that while such argument might once have been persuasive, it comes too late, for both the United States Court of Customs and Patent Appeals and the United States Court of Appeals for the District of Columbia are committed to the rule that identical marks may not be registered for merchandise of the same class, regardless of confusion; and that cheese and canned goods are broadly of the same descriptive properties, there is no longer room for doubt.

Pocahontas Fuel Company Incorporated *v.* Carter Coal Company, Oppositions Nos. 23,264 and 23,265.

In a single decision rendered April 14, 1947 (169 Ms. Dec. 310, 73 USPQ 117), *First Assistant Commissioner Frazer* denied in two opposition proceedings two identical petitions brought by opposer, Pocahontas Fuel Company Incorporated, of New York, N. Y., that four marks, whose registrability has been adjudicated (oppositions thereto having been dismissed by the First Assistant Commissioner in a decision rendered May 14, 1945 (575 O. G. 572, 65 USPQ 430) which decision was affirmed by the United States Court of Customs and Patent Appeals (73 USPQ 51) on February 11, 1947) be withheld from issue pending determination of the two oppositions brought by petitioner against later closely similar trade-mark of the same applicant, Carter Coal Company, of New York, N. Y., opposer not having been a party to the earlier four opposition proceedings, the applications there involved having been opposed by Pocahontas Operators Association, of which opposer is one of several members.

After noting that it may well require a period of three years after the final hearing before the Examiner of Interferences, now set for September 25, 1947, to effect the final determination of the instant proceedings, it was held that there is nothing in the record to justify such additional delay in the issuance of the registrations previously opposed; if petitioner believed it would be damaged thereby, it should have filed appropriate notices of opposition as provided by section 6 of the act of February 20, 1905; having failed to do so, its only remaining remedy is to await the issuance of the certificates of registration, and apply for their cancelation under section 13 of the act.

The Haloid Company *v.* REX-O-graph, Inc., Oppositions Nos. 23,313, 23,332, 23,333. and 23,540.

In a single decision rendered April 17, 1947 (169 Ms. Dec. 312, 73 USPQ 119), *First Assistant Commissioner Frazer* affirmed in each of four cases the decision of the Examiner of Interferences sustaining the oppositions of the Haloid Company, of Rochester, N. Y., to four applications of REX-O-graph, Inc., of Milwaukee, Wis., for registration of a trade-mark, applicant's mark in each case being the notation "REX-O-graph," the first four letters in block capitals and the word "graph" in lower-case script, and the mark being appropriated to duplicating machines and various supplies intended for use in connection with their operation. The opposition was predicated upon opposer's prior use and ownership of the trade-mark "Rectigraph" for photocopy machines and related merchandise.

It was held that the language used in the application in describing applicant's machines as business machines, namely, duplicating machines, both hand and motor driven, is sufficiently broad to include the photographic duplicating machines manufactured by opposer.

After noting that the two marks differ somewhat in appearance and to a lesser degree in probable significance, it was held that in sound they are obviously confusable and that their close similarity in sound alone constitutes a bar to the registration of applicant's mark for goods of the same descriptive properties as the goods upon which opposer's mark is used.

Remington Rand Inc. *v.* REX-O-graph, Inc., Oppositions Nos. 23,338, 23,364, 23,365, and 23,545.

In a single decision rendered April 17, 1947 (169 Ms. Dec. 313, 73 USPQ 118), *First Assistant Commissioner Frazer* affirmed in each of four cases the decision of the Examiner of Interferences sustaining the oppositions of Remington Rand Inc., of New York, N. Y., to four applications of REX-O-graph, Inc., of Milwaukee, Wis., applicant's mark in each case being a notation "REX-O-graph," and the mark being appropriated to duplicating machines and various supplies for use in their operation, use of the mark being claimed since July 3, 1934.

After noting the ruling of the Examiner of Interferences contrasting opposer's and applicant's machines with the conclusion that these machines are in the nature of specialized apparatus and each has its own particular field of use where it may be operated to the best advantage, it was held that nevertheless both are duplicating machines, and applicant's description of goods is not restricted to duplicating machines of the spirit or fluid type; rather the language employed is sufficiently broad to include the exact machine in which opposer deals so that the wide differences in structure of the two machines and in their methods of operation thus become immaterial for the proposed registration would afford prima facie evidence of applicant's ownership of its mark for duplicating machines of all types.

In response to applicant's argument that confusion is nevertheless unlikely, because opposer's mark and its own are decidedly different in appearance, sound and meaning, it was held that although the marks are not identical and in appearance they differ quite considerably by reason of the peculiar manner in which applicant's mark is printed, the first four letters being in block capitals and the last five in lower-case script, nevertheless insofar as they have any meaning, the resemblance is close and in sound they are practically indistinguishable; and that if the mark of a newcomer when voiced is so constituted as to be similar in sound to the language expressed in a trade-mark attached to identical goods or merchandise of the same descriptive properties, the registration of the newcomer's mark will be prohibited regardless of its significance otherwise in appearance and meaning.

The American Products Company *v.* Paint Merchandising Council, Opposition No. 23,320.

In a decision rendered April 22, 1947 (169 Ms. Dec. 317, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of The American Products Company, of Cincinnati, Ohio, to the application of Paint Merchandising Council, of Chicago, Ill., for registration of the word "Swish" as a trade-mark for paints (ready mixed or liquid, paste form, and dry), paint enamels, japans, and varnishes, use of the mark being claimed since May 1943.

Opposer owns a registration of the same mark, issued in 1920, and renewed for a powder to be used as a washing preparation.

After noting that both parties agree that the only question to be determined is whether applicant's goods have the same descriptive properties as the goods of opposer, in response to opposer's argument that both are household items which are likely to be purchased by the housewife for application to the same walls, it was held that opposer's washing powder is not essentially for a wall finish or particularly suggestive of such use, so that the Examiner of Interferences was correct in dismissing the opposition.

THE CROWN OVERALL MFG. CO. *v.* PEOPLE'S OUTFITTING COMPANY, Opposition No. 23,949.

In a decision rendered April 22, 1947 (169 Ms. Dec. 315, — 73 USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of The Crown Overall Mfg. Co., of Cincinnati, Ohio, to the application of People's Outfitting Company, of Detroit, Mich., for registration of a trade-mark for fur coats, jackets, hats, and scarfs, the mark being the representation of a crown and the words "Crown Jewel" in an oval. Opposer relied upon its long prior use and ownership of two trade-marks registered, respectively, for overalls and for overalls, union suit working garments for boys, young men, and men, the first mark comprising the word "Crown" and the representation of a crown and the second being the notation "Crown Adjust-Alls." After the appeal was argued, applicant submitted a proposed amendment, to which opposer consented, changing the description of the goods to read "women's fur coats, women's fur jackets, women's fur hats and women's fur scarfs." Such amendment was considered as entered.

After noting that the Examiner dismissed the opposition on the ground that the goods of the parties to which their marks are applied are of different descriptive properties within the meaning of the Trade-Mark Act, it was held that the Examiner's conclusion was correct, but even were the goods involved broadly of the same descriptive properties, there would be no reasonable likelihood that purchasers would be deceived or the public confused through their concurrent sale under the contesting trade-marks, since with applicant's use restricted to the goods set forth in the amendment referred to, confusion is well nigh impossible because women's furs are definitely in the luxury class and have no relationship to the lowly overall; nor would there be any rational basis for the assumption that the two were produced by the same concern, or were otherwise of common origin, even if sold under identical trade-marks.

It was further held that the marks here in question are not identical; they are of course quite similar, but their dominating portions, namely, "Crown" and "Crown Jewel," are both well understood terms which differ considerably in meaning and when regarded as a whole differ also in appearance and in sound, so that as applied to these particular goods, they are not confusable.

EX PARTE LA UNION AGRICOLA SOCIEDAD ANONIMA, Serial No. 485,223.

In a decision rendered April 28, 1947 (169 Ms. Dec. 318, 73 USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to La Union Agricola Sociedad Anonima, of Barcelona, Spain, the notation "La Tarragonesa," under the provisions of the act of February 20, 1905, as a trade-mark for brandy on the ground that the mark is geographically descriptive since it indicates that the goods have their origin in the province of Tarragona in Spain.

After noting that in its brief on appeal applicant stated that the notation sought to be registered in the Spanish language indicates a feminine person or thing from Tarragona, it was held that although the gender of applicant's brandy is not made to appear nevertheless the labels do disclose that it is produced in Tarragona so that while the mark may have other meanings, as applied to applicant's goods, it is primarily geographical.

EX PARTE LEDERLE LABORATORIES, INC., Serial No. 487,784.

In a decision rendered April 28, 1947 (169 Ms. Dec. 319, 73 USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks rejecting the application of Lederle Laboratories, Inc., of New York, N. Y., to register the notation "Tri-Immunol" as a trade-mark for a preparation containing diphtheria toxoid, tetanus toxoid and bacterin antigen made from pertussis baccilli for use in active immunization against diphtheria, tetanus and pertussis, use of the mark being claimed since May 25, 1943, in view of the prior registration issued June 23, 1936, covering the trade-mark "Immunolites" for a preparation used in the treatment of cancer, tuberculosis, diabetis, toxic goiter, and infantile paralysis.

It was held that the Examiner rightly ruled that the two marks are applied to merchandise of the same descriptive properties and that they bear such close resemblance as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers.

In response to applicant's argument that both marks are fanciful or arbitrary expressions and that they are coined and have no meaning other than their trade-mark significance, it was held that this is one good reason why confusion is likely; for it is well recognized that such likelihood is greater as to marks of this character than as to marks made up of ordinary words used in everyday conversation.

After noting that in the brief on appeal applicant refers to an instrument duly executed by the owner of the cited registration, giving his consent to the use and registration by applicant of its trade-mark here in question, it was held that no such instrument is found in the file nor is it mentioned by the Examiner in any of his actions but, in any event, it would add nothing to the registrability of the applicant's mark.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 27, 1947

[VOL. 598. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 505,149. CEDRIC'S FLOWER SHOP, Los Angeles, Calif. Filed July 6, 1946.

CEDRIC'S

FOR CUT FLOWERS.
Claims use since Jan. 2, 1938.

CLASS 2

RECEPTACLES

Ser. No. 495,472. THE HINDE & DAUCH PAPER COMPANY, Sandusky, Ohio. Filed Jan. 26, 1946.

INSULPAK

FOR PAPERBOARD BOXES AND CARTONS FOR SHIPPING SEA FOODS, FRUITS AND VEGETABLES AND OTHER PERISHABLE OR FRAGILE MERCHANDISE.
Claims use since Nov. 1, 1945.

Ser. No. 496,571. RICHMOND-PHILLIPS, New York, N. Y. Filed Feb. 14, 1946.

Fleur de Barbezon

FOR SACHET HANDKERCHIEF CASES, SACHET LINGERIE CASES, SACHET CONTAINERS—NAMELY, DECORATED AND PERFUMED BOXES OF WOOD AND CARDBOARD COVERED AND/OR LINED WITH TEXTILE FABRIC.
Claims use since Dec. 15, 1945.

Ser. No. 500,805. LALANCE & GROSJEAN MFG. CO., Woodhaven, N. Y. Filed Apr. 24, 1946.

CRUSADER

FOR SHEET METAL WARE—VIZ., NEEDLE BOXES, BATTER BUCKETS, MILK CANS, JARS, PAILS AND CRYSTALLIZING TANKS.
Claims use since Apr. 15, 1946; and the trade-mark "Crusader" has been used on needle boxes and crystallizing tanks since Oct. 1, 1934, and on the other items listed since Dec. 11, 1928.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 465,117. THE PRIME MANUFACTURING COMPANY, Milwaukee, Wis. Filed Nov. 18, 1943.

CARRYOLA RED CAP

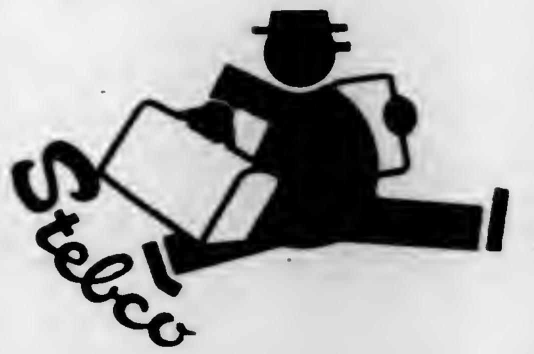
FOR TRAVELING BAGS.
Claims use since Sept. 15, 1943.

Ser. No. 495,875. FREDART LEATHERGOODS MANUFACTURING COMPANY, New York, N. Y. Filed Feb. 2, 1946.

FREDART

FOR LEATHERGOODS AND ARTICLES MADE OF PLASTICS—NAMELY, PORTFOLIOS, POCKETBOOKS, HAND BAGS, SUIT CASES, KEY CASES, TRAVEL CASES, BRIEF CASES, TOILET CASES, BILLFOLDS, PURSES, AND WALLETS.
Claims use since 1939.

Ser. No. 510,215. Stein Bros. Mfg. Co., Chicago, Ill. Filed Oct. 3, 1946.



No registration rights are claimed for the illustration of the suitcase and brief case apart from the mark shown.

FOR ZIPPER ENVELOPES, ZIPPER BAGS, PORTFOLIOS, TRAVELLING BAGS, SUIT CASES, DOCUMENT CASES, BRIEF CASES, FRAME-OPENING BRIEF BAGS, ZIPPER OPENING BRIEF BAGS, ZIPPER RING BINDERS AND A PORTFOLIO WITH ACETATE ENVELOPES.

Claims use since Oct. 1, 1937.

Ser. No. 510,514. Henry Hotze & Sons Company, St. Louis, Mo. Filed Oct. 9, 1946.

FOR MEN'S AND WOMEN'S LUGGAGE—NAMELY, TRAVELING BAGS AND SUITCASES COMPOSED MAINLY OF LEATHER AND/OR CANVAS.

Claims use since 1925.

Ser. No. 513,395. Erasmus Atlass Co., New York, N. Y. Filed Nov. 29, 1946.

Flightmaster

FOR VALISES, SUITCASES, AND LEATHER PURSES IN FORM OF POUCHES.

Claims use since Nov. 15, 1946.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 498,832. Joseph Genovese, doing business as Bamby Products, Long Island City, N. Y. Filed Mar. 23, 1946.

Bamby

FOR SOAP.

Claims use since Dec. 10, 1945.

Ser. No. 499,115. Arnold C. Busch, doing business as Busch Mfg. Company, Ann Arbor, Mich. Filed Mar. 28, 1946.

TWIN ACTION

FOR AUTOMOBILE WASH HAVING INCIDENTAL WAXING AND POLISHING PROPERTIES.

Claims use since July 9, 1945.

Ser. No. 503,122. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed May 31, 1946.

EC-1

FOR SOLVENT EMULSION CLEANERS FOR CLEANING METAL, CERAMIC, PLASTIC, PAINTED, AND LIKE SURFACES.

Claims use since February 1944.

Ser. No. 503,123. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed May 31, 1946.

EC-7

FOR SOLVENT EMULSION CLEANERS FOR CLEANING METAL, CERAMIC, PLASTIC, PAINTED AND LIKE SURFACES.

Claims use since August 1944.

Ser. No. 503,124. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed May 31, 1946.

EC-12

FOR SOLVENT EMULSION CLEANERS FOR CLEANING METAL, CERAMIC, PLASTIC, PAINTED, AND LIKE SURFACES.

Claims use since January 1944.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 478,384. Paul John Gundlach, doing business as Fremont Products Company, Cleveland, Ohio. Filed Jan. 8, 1945.

MINEREX

FOR MINERAL SUPPLEMENT TO THE DIET.

Claims use since Aug. 1, 1942.

Ser. No. 479,663. Cole Chemical Company, St. Louis, Mo. Filed Feb. 10, 1945.

ASMINYL

FOR PREPARATION FOR THE RELIEF OF ASTHMATIC PAROXYSMS.

Claims use since Mar. 25, 1941.

Ser. No. 489,548. William R. Warner & Co., Inc., New York, N. Y. Filed Oct. 6, 1945. Under section 5b of the act of 1905 as amended in 1920.

WILLIAM R. WARNER & CO., INC.

FOR CATHARTIC; PARASITICIDE; TOOTH POWDER; ANTACID; SEDATIVE; EXPECTORANTS; MYDRIATIC, OPIUM AND CODEINE CONTAINING PREPARATIONS, ANODYNE; GERMICIDE, COUNTER-IRRITANT; HYPNOTIC; ALTERATIVE, DIURETIC; INTESTINAL ANTISEPTIC; ASTRINGENT; AROMATIC ELIXIR FOR USE AS PROTEIN DIGESTANT VEHICLE; ANTIPYRETIC, ANALGESIC; HEMATINIC; PASTILLE FOR MAKING AROMATIC SPRAY SOLUTION; LAXATIVE; ANTISEPTIC, DEODORANT; CARMINATIVE; ANTISEPTIC AND ASTRINGENT SUPPOSITORIES; ENZYMATIC DIGESTANT; STOMACHIC; SPINAL RESPIRATORY AND CIRCULATORY STIMULANT; MECHANICAL LAXATIVE, MINERAL OIL; SALINE LAXATIVE; RECTAL EVACUANT; EMOLLIENT; MOUTH WASH; EMBROCATION; ANTI-RHEUMATIC; URINARY ANTISEPTIC; COUNTER-IRRITANT LINIMENT; INHALANT, VULNERARY; DETERGENT LINIMENT; DISINFECTANT; DEPRESSANT; EFFERVESCENT ALKALIZER; ANTI-MALARIAL; BACTERIOSTAT; CARDIAC STIMULANT; APHRODISIAC; ANTI ARIBOFLAVINOSIS VITAMIN; ANTISCORBUTIC VITAMIN; PELLAGRA PREVENTIVE VITAMIN; ANTI BERI BERI VITAMIN ELIXIR; DILUENT; MEDICINAL PREPARATION FOR CONTROL OF GASTROINTESTINAL HYPERACIDITY; ANTI BERI BERI VITAMIN; PARENTERAL CARBOHYDRATE SOLUTION; VASO CONSTRICTOR; ECBOLIC, PERISTALTIC STIMULANT; ANTICOAGULANT; ANTIXEROPHTHALMIC VITAMIN; FILTRATE FACTOR VITAMIN (A "B" COMPLEX FACTOR); ANTIXEROPHTHALMIC AND ANTIRACHITIC VITAMIN INJECTION; VITAMIN B_6 (A "B" COMPLEX FACTOR); POLYVITAMIN CAPSULES; CALCIUM GLUCONATE INJECTABLE; ANTIDOTE FOR HEAVY METAL; VITAMIN E; VITAMIN B COMPLEX ELIXIR AND CAPSULES; SYNTHETIC ESTROGEN; BACTERIOCIDE; HEMATOPIETIC AND ANTIPRURETIC.

Claims use on said carminative, sedative, cathartic, diuretic, mydriatic, opium and codeine containing preparations, anodyne, inhalant, vulnerary, stomachic and expectorant since 1895; on antipyretic, analgesic, antirheumatic since June 29, 1915; on detergent liniment, laxative and saline laxative since November 1918; on urinary antiseptic, antiseptic and germicide since September 1918; on deodorant and mouth wash since July 1918; on embrocation since February 1919; on counter-irritant liniment since June 1919; on alterative since November 1919; on emollient and astringent since 1920; on rectal evacuant since late 1921; on ecbolic, intestinal antiseptic and spinal respiratory and circulatory stimulant since early 1922; on mechanical laxative and mineral oil since late 1922; on enzymatic digestant since January 1923; on antacid since April 1925; on antiseptic and astringent suppositories since late 1925; on antiseptic deodorant since late 1926; on pastille for making aromatic spray solution since late 1927; on hematinic since early 1928; on hypnotic since early 1931; on aromatic elixir for use as protein digestant vehicle since late 1931; on parasiticide since March 1932; on digestant powder and tablets since October 1932; on tooth powder and counter-irritant since November 1932; on disinfectant since 1933; on depressant and effervescent alkalizer since late 1934; on antimalarial since August 1936; on bacteriostat since December 1938; on cardiac stimulant since September 1939; on aphrodisiac since December 1939; on antiscorbutic vitamin, anti Beri Beri vitamin elixir and antipruretic since early 1940; on anti Beri Beri vitamin, anti ariboflavinosis vitamin, pellagra preventive vitamin; diluent and medicinal preparation for control of gastrointestinal hyperacidity since late 1940; on parenteral carbohydrate solution and anticoagulant since early 1941; on vaso constrictor and peristaltic stimulant since late 1941; on antixerophthalmic and antirachitic vitamin injection, vitamin B_6 complex factor, and antidote for heavy metal since early 1942; on filtrate factor vitamin, polyvitamin capsules, calcium gluconate injectable and antixerophthalmic vitamin since late 1942; on vitamin E, vitamin B complex elixir and capsules, synthetic estrogen, bactericide and hematopoietic since early 1943.

Ser. No. 492,470. Silby Chemical Company, Inc., Miami, Fla. Filed Nov. 30, 1945.

VITOX

Applicant disclaims the exclusive right to the use of the word "Tox" apart from the rest of the mark.

FOR INSECTICIDES AND INSECT REPELLENT.

Claims use since Aug. 26, 1944, on insecticide; and since about Aug. 26, 1944, on insect repellent.

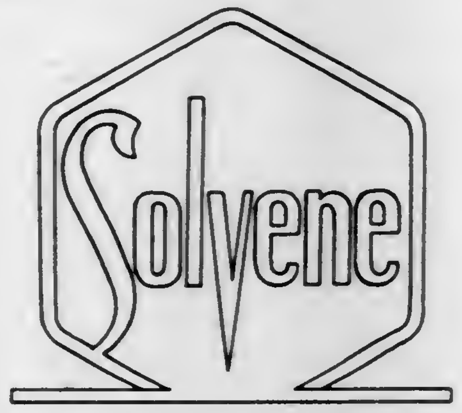
Ser. No. 493,955. Haco Gesellschaft A.-G., Berne, Switzerland. Filed Dec. 28, 1945.

HACO

FOR ANTISEPTIC FOR EXTERNAL AND INTERNAL USE CONTAINING ALBUMINOUS COMPOUNDS FOR THE TREATMENT OF INFECTIOUS ILLNESS.

Claims use since 1922.

Ser. No. 493,987. THOMAS WESLEY SWIFT, doing business as T. W. Swift Company, Winston-Salem, N. C. Filed Dec. 28, 1945.



FOR LIQUID HAIR DRESSING.
Claims use since Sept. 15, 1945.

Ser. No. 501,790. THOMAS UNG, doing business as United China Trading Co., Los Angeles, Calif. Filed May 9, 1946.

GUNG LANG

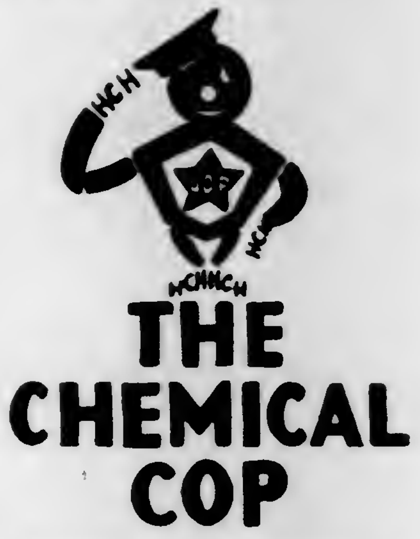
FOR WAVE SET, A LOTION FOR SETTING THE HAIR IN WAVES, TOILET WATER, BRILLIANTINE, HAIR OIL, FACE POWDER, COLD CREAM, AND HAND LOTION.
Claims use since Apr. 2, 1946.

Ser. No. 503,812. GEM PARTICIPATIONS INCORPORATED, New York, N. Y. Filed June 13, 1946.

EMDOR

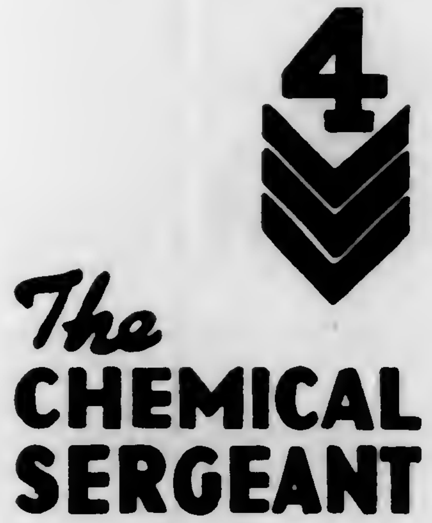
FOR PREPARATION FOR TREATMENT OF ATHLETE'S FOOT, PSORIASIS AND OTHER FUNGUS INFECTIONS OF THE SKIN.
Claims use since May 20, 1946.

Ser. No. 504,805. UNIVERSAL OIL PRODUCTS COMPANY, Chicago, Ill. Filed June 28, 1946.



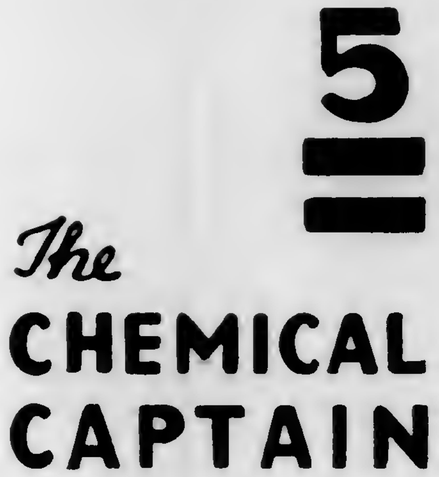
The letters "HCH" and "HCHHCH" and the words "The Chemical" are disclaimed apart from the mark.
FOR ORGANIC COMPOUNDS USED AS INHIBITORS TO PREVENT OR RETARD DETERIORATION OF PETROLEUM PRODUCTS, ANIMAL FATS AND OILS, VEGETABLE FATS AND OILS, AND FEEDSTUFF.
Claims use since Sept. 27, 1937.

Ser. No. 504,806. UNIVERSAL OIL PRODUCTS COMPANY, Chicago, Ill. Filed June 28, 1946.



The words "The Chemical" are disclaimed apart from the mark as shown.
FOR ORGANIC COMPOUNDS USED AS INHIBITORS TO PREVENT OR RETARD DETERIORATION OF PETROLEUM PRODUCTS, ANIMAL FATS AND OILS, VEGETABLE FATS AND OILS, AND FEEDSTUFF.
Claims use since Sept. 23, 1937.

Ser. No. 504,807. UNIVERSAL OIL PRODUCTS COMPANY, Chicago, Ill. Filed June 28, 1946.



The words "The Chemical" are disclaimed apart from the mark.
FOR ORGANIC COMPOUNDS USED AS INHIBITORS TO PREVENT OR RETARD DETERIORATION OF PETROLEUM PRODUCTS, ANIMAL FATS AND OILS, VEGETABLE FATS AND OILS, AND FEEDSTUFF.
Claims use since Nov. 13, 1941.

Ser. No. 505,071. ROCHE-ORGANON, INC., Nutley, N. J. Filed July 3, 1946.

NIDATON

FOR MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF HORMONE DEFICIENCY AND/OR ALLIED CONDITIONS.
Claims use since June 14, 1946.

Ser. No. 505,072. ROCHE-ORGANON, INC., Nutley, N. J. Filed July 3, 1946.

NIDURAN

FOR MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF HORMONE DEFICIENCY AND/OR ALLIED CONDITIONS.
Claims use since June 15, 1946.

Ser. No. 505,500. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J. Filed July 12, 1946.

TRANS-WORLD

FOR LIPSTICKS.
Claims use since June 14, 1946.

Ser. No. 505,782. V-43 LABORATORIES, St. Louis, Mo. Filed July 17, 1946.

V-43

FOR TOOTH POWDER.
Claims use since Aug. 10, 1943.

Ser. No. 505,876. WELDERS SUPPLY COMPANY, Little Rock, Ark. Filed July 18, 1946.

FOR OXYGEN AND ACETYLENE.
Claims use since June 1, 1942.

Ser. No. 506,359. MICHAEL AGAZIM, doing business as the Floralatoms Company, Chicago, Ill. Filed July 27, 1946.

FLORALATOMS

FOR PERFUME.
Claims use since May 9, 1946.

Ser. No. 506,360. MICHAEL AGAZIM, doing business as the Floralatoms Company, Chicago, Ill. Filed July 27, 1946.

HEAVENLY NIGHT

FOR PERFUME.
Claims use since May 9, 1946.

Ser. No. 506,388. GEORGE R. PARKINSON, Katonah, N. Y. Filed July 27, 1946.

EROS

FOR PERFUMES AND TOILET WATERS.
Claims use since July 24, 1946.

Ser. No. 506,470. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 29, 1946.

ETAMON

FOR PREPARATION FOR THE TREATMENT OF HYPERTENSION.
Claims use since July 8, 1946.

Ser. No. 506,522. HAGAN CORPORATION, Pittsburgh, Pa. Filed July 30, 1946.

HAGAMIN

FOR ORGANIC AMINE USED TO PREVENT CORROSION IN STEAM SYSTEMS.
Claims use since July 21, 1944.

Ser. No. 506,603. JANVILLON, New York, N. Y. Filed July 31, 1946.

janvillon

FOR PERFUMES, EAU DE COLOGNE, TOILET WATER, TOILET LOTIONS, AFTER-SHAVE-LOTIONS, HAIR LOTIONS, BRILLIANTINE, FACE POWDER, TALCUM POWDER, FACE AND HAND CREAM.
Claims use since June 1, 1946.

Ser. No. 506,827. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Aug. 3, 1946.

DERMA-CEEPRYN

No claim is made to the term "Derma" apart from the mark as shown.
FOR EMULSIFIED ANTISEPTIC LOTION.
Claims use since July 5, 1946.

Ser. No. 507,198. LENTHERIC, INCORPORATED, New York, N. Y. Filed Aug. 10, 1946.

VIVID BLACK

FOR PERFUMES, TOILET WATERS, AND COSMETIC CREAMS.
Claims use since July 8, 1946.

Ser. No. 507,292. ARKANSAS COMPANY, INC., Newark, N. J. Filed Aug. 13, 1946.

KERIPON

FOR WETTING AND EMULSIFYING AGENTS USED IN WET PROCESSING OF TEXTILES AND LEATHER.
Claims use since about May 1, 1946.

Ser. No. 507,434. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa. Filed Aug. 14, 1946.

ESKALOSE

FOR LAXATIVE.
Claims use since July 26, 1946.

Ser. No. 507,543. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Aug. 16, 1946.

LIRYETOL

FOR PREPARATION USEFUL IN THE TREATMENT AND PREVENTION OF METABOLIC DEFICIENCIES, AND PARTICULARLY A LIVER AND YEAST PREPARATION.
Claims use since July 17, 1946.

Ser. No. 512,065. HOUSE OF LONTAY, INC., New York, N. Y. Filed Nov. 5, 1946.

HOUSE OF
Lontay
INC.

No claim is made to the word abbreviation "Inc." and the words "House of" apart from the mark as shown.
FOR HAIR WAVING FLUID, HAIR RINSE, AND HAND CREAM.
Claims use since Aug. 31, 1944.

CLASS 8
SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 508,296. LEE SALES COMPANY, New York, N. Y. Filed Aug. 30, 1946.

STAIZON

FOR ASH TRAYS.
Claims use since June 1946.

CLASS 10
FERTILIZERS

Ser. No. 506,834. LUCILLE THOMSON OLIVE, Charlotte, N. C. Filed Aug. 3, 1946.

MOTALIZER

FOR SOIL VITALIZER, CONTAINING MOTES AND CHEMICALS.
Claims use since July 13, 1946.

CLASS 11
INKS AND INKING MATERIALS

Ser. No. 506,693. EDITH ROSE, doing business as Executive Sales Company, Philadelphia, Pa. Filed Aug. 1, 1946.

EXLINE

FOR CARBON PAPER AND TYPEWRITER RIBBONS.
Claims use since May 1942.

CLASS 12
CONSTRUCTION MATERIALS

Ser. No. 506,240. KEYSTONE ROOFING MANUFACTURING COMPANY, York, Pa. Filed July 25, 1946.

Conewago
Jr.

FOR THERMAL INSULATING MATERIAL, CONSISTING OF ASPHALT SATURATED AND COATED PAPER, FOR BUILDING PURPOSES, BETWEEN OUTER AND INNER WALLS, AND BENEATH FLOORING, ALSO AS UNDERLAY FOR ROOFING.
Claims use since Nov. 10, 1913.

Ser. No. 508,588. DRI-ZONE CORPORATION, Kansas City, Mo. Filed Sept. 6, 1946.

DRIZONE

FOR WATER-PROOFING COMPOUNDS HAVING AN ASPHALTIC BASE AND SOLD IN PASTE OR SEMI-PASTE FORM.
Claims use since Feb. 11, 1944.

Ser. No. 512,200. PERMA BOARD CORPORATION, New York, N. Y. Filed Nov. 7, 1946.

PERMADOOR

FOR FLUSH DOORS MADE FROM BALSA WOOD AND USED FOR HOUSES.
Claims use since Oct. 1, 1946.

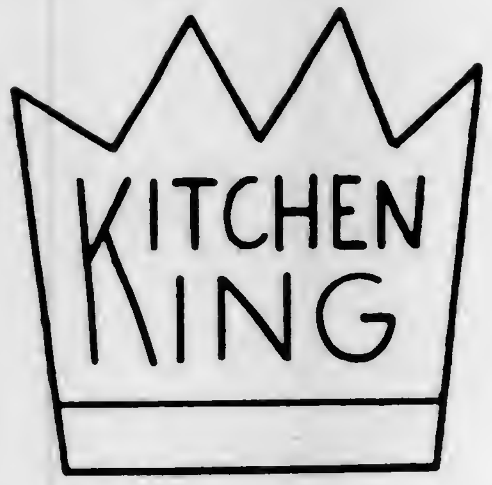
Ser. No. 513,181. HOWELL PRODUCTS, INC., Holmes, Pa. Filed Nov. 25, 1946.

"The Commander Door"

No claim is made to the word "Door" except in connection with other features of the mark.
FOR SECTIONAL OVERHEAD DOORS.
Claims use since Apr. 1, 1946.

CLASS 13
HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 493,859. VALLEY CAST PRODUCTS, Puente, Calif. Filed Dec. 22, 1945.



The word "Kitchen" is disclaimed apart from the mark as shown.
FOR POTS AND PANS MADE OF BASE METAL, FOR CULINARY USE.
Claims use since Nov. 19, 1945.

Ser. No. 497,495. PROCESS EQUIPMENT ENGINEERS, INC., Belding, Mich. Filed Mar. 1, 1946.

PERMA
SAN

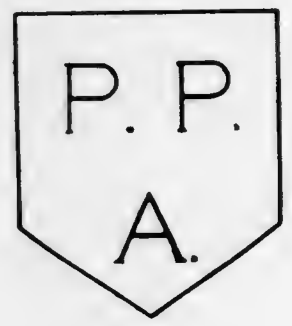
FOR METALLIC PIPE AND METALLIC PIPE FITTINGS.
Claims use since about June 14, 1943.

Ser. No. 497,931. ANNA M. GARDNER, New York, N. Y. Filed Mar. 9, 1946.

PENDULUM

FOR FLOWER ARRANGER IN THE FORM OF A HOLDER FOR FLOWERS, PREFERABLY MADE OF BASE METAL.
Claims use since Mar. 6, 1946.

Ser. No. 502,008. DANIEL D. POLIZZI, doing business as Polizzi Precision Products Co., North Hollywood, Calif. Filed May 13, 1946.



FOR LOCK NUTS.
Claims use since Apr. 14, 1946.

Ser. No. 503,421. JIM BROWN'S TOY COMPANY, Akron, Ohio. Filed June 7, 1946.

5 IN 1

FOR METAL FIXTURE FOR HOLDING GARDEN AND HOUSEHOLD TOOLS.
Claims use since Nov. 6, 1945.

Ser. No. 504,608. Ekco Products Company, Chicago, Ill. Filed June 26, 1946.

EKCO

FOR KITCHEN STRAINERS, BASE METAL BAKE PANS AND COOKING HOLLOW WARE.
Claims use since Nov. 1, 1944.

Ser. No. 504,610. Ekco Products Company, Chicago, Ill. Filed June 26, 1946.

EKCO

FOR KITCHEN STRAINERS, BASE METAL BAKE PANS AND COOKING HOLLOW WARE.
Claims use since Nov. 1, 1944.

Ser. No. 505,949. Matthew A. Casey, Montclair, N. J. Filed July 20, 1946.

LADA CK BRACS

FOR BRACKETS OF METAL FOR ATTACHMENT TO STEP-LADDERS.
Claims use since July 16, 1946.

Ser. No. 506,587. Ekco Products Company, Chicago, Ill. Filed July 31, 1946.

A&J

FOR KITCHEN TOOLS—NAMELY, STRAINERS.
Claims use since Sept. 1, 1945.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 502,968. Follansbee Steel Corporation, Pittsburgh, Pa. Filed May 29, 1946. Under 10-year proviso.

RAYMOND

FOR TIN AND TERNE PLATES.
Claims use since 1890.

Ser. No. 502,969. Follansbee Steel Corporation, Pittsburgh, Pa. Filed May 29, 1946. Under 10-year proviso.

SCOTT'S EXTRA COATED

FOR TIN AND TERNE PLATES.
Claims use since 1886.

Ser. No. 506,800. The Carpenter Steel Company, Reading, Pa. Filed Aug. 3, 1946.

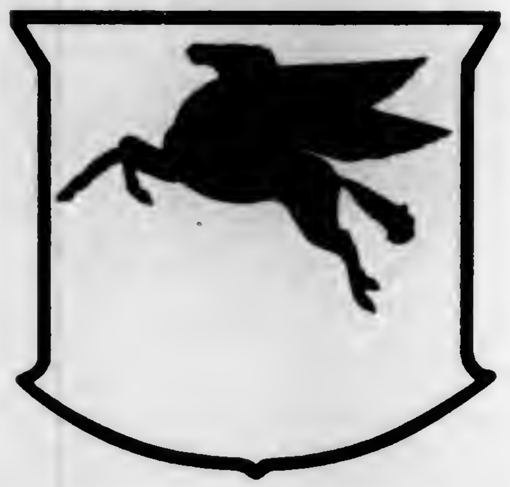
DIOK

FOR STEEL IN THE FORM OF WIRE, STRIPS, BARS, BILLETS, AND SHAPES.
Claims use since August 1929.

CLASS 15

OILS AND GREASES

Ser. No. 504,399. Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Filed June 21, 1946.



FOR PETROLEUM AND PRODUCTS OF PETROLEUM WITH OR WITHOUT ADMIXTURES OF OTHER MATERIALS FOR ILLUMINATING, HEATING, POWER, BURNING, LUBRICATING, CUTTING, GREASING, TEMPERING, QUENCHING, SLUSHING, AND FLUSHING; MINERAL WAX, CANDLES, AND PENETRATING OILS.
Claims use since February 1941.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 500,068. Fleming-Hall Tobacco Co., Inc., New York, N. Y. Filed Apr. 12, 1946.

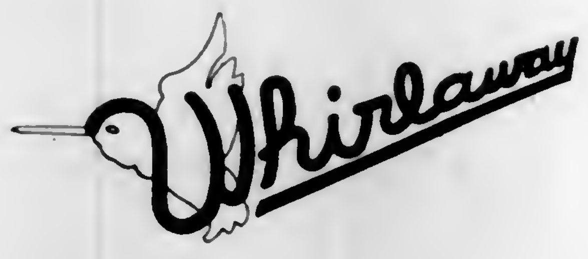
BANQUETS

FOR CIGARETTES.
Claims use since 1931.

CLASS 19

VEHICLES

Ser. No. 506,980. Bendix Helicopter, Inc., New York, N. Y. Filed Aug. 7, 1946.



FOR ROTARY WING AIRCRAFT.
Claims use since July 16, 1946.

Ser. No. 506,981. Bendix Helicopter, Inc., New York, N. Y. Filed Aug. 7, 1946.

Whirlaway

FOR ROTARY WING AIRCRAFT.
Claims use since July 16, 1946.

Ser. No. 507,318. Paul B. Karsten, doing business as Eastern Marine Products, New Haven, Conn. Filed Aug. 13, 1946.

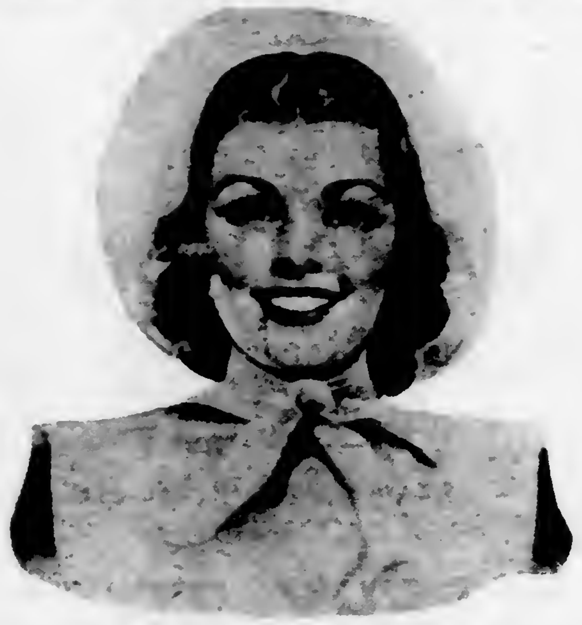
SNAPPER

FOR SAILING BOATS.
Claims use since April 30, 1946.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 507,962. Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Filed Aug. 24, 1946.

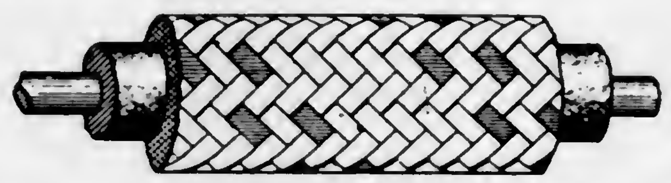


The representation of a girl in Quaker dress is fanciful.
FOR FELT BASE FLOOR COVERINGS, BOTH PIECE GOODS AND RUGS.
Claims use since Aug. 15, 1946.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 492,881. Acorn Insulated Wire Company, Inc., Brooklyn, N. Y. Filed Dec. 8, 1945.



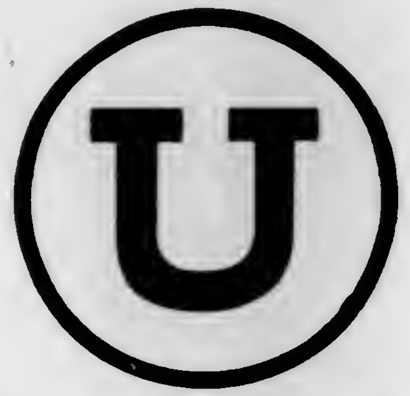
The lining appearing on the drawing is to indicate the color blue. The mark consists of two parallel blue threads or strands in any one or more coverings enclosing one or more conductors. No claim being made herein to the representation of a section of wire.
FOR INSULATED ELECTRIC WIRES OR CONDUCTORS.
Claims use since June 1, 1924.

Ser. No. 503,319. The Okonite Company, Passaic, N. J. Filed June 5, 1946.

OKOPRENE

FOR NON-METALLIC TAPE, NON-METALLIC SHEATHS AND INSULATION FOR ELECTRIC CABLES. Claims use since November 1936.

Ser. No. 508,758. The Universal Clay Products Company, Sandusky, Ohio. Filed Sept. 9, 1946.



FOR ELECTRICAL INSULATORS MADE OF PORCELAIN, CERAMIC OR OTHER EARTHENWARE. Claims use since 1918.

Ser. No. 510,609. The Ohio Brass Company, Mansfield, Ohio. Filed Oct. 10, 1946.

MARATHON

FOR MECHANICAL SUPPORTS FOR TROLLEY WIRES. Claims use since Jan. 10, 1925.

Ser. No. 510,819. Lewis P. Weil, Germantown, Pa. Filed Oct. 12, 1946.

SLEEPY TOT

FOR ELECTRIC NURSERY LAMPS. Claims use since October 1939.

Ser. No. 510,921. Ace Engineering and Machine Co., Inc., Philadelphia, Pa. Filed Oct. 16, 1946.

CHUMMY

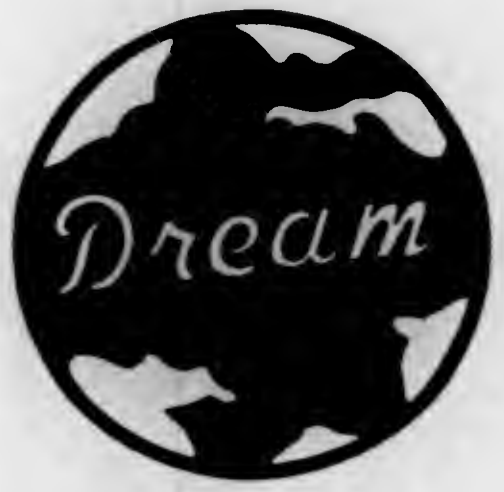
FOR ELECTRIC SPACE HEATERS. Claims use since Sept. 10, 1946.

Ser. No. 511,148. Grover Photo Products, Los Angeles, Calif. Filed Oct. 19, 1946.

GROVERLITE

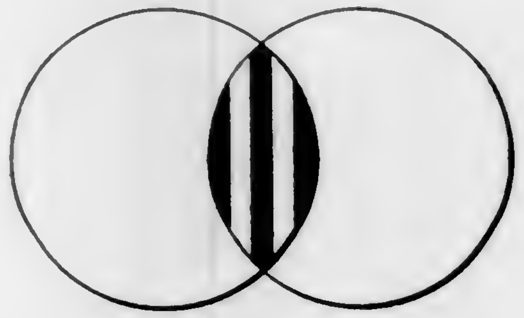
FOR ELECTRIC LIGHT FIXTURES. Claims use since Oct. 1, 1946.

Ser. No. 511,856. Associated Merchandising Corporation, New York, N. Y. Filed Nov. 1, 1946.



FOR ELECTRIC IRONS. Claims use since Sept. 13, 1946.

Ser. No. 512,187. Micro-Bilt, Incorporated, New York, N. Y. Filed Nov. 7, 1946.



FOR IGNITION SYSTEM FOR FRACTIONAL HORSEPOWER INTERNAL COMBUSTION ENGINES, INDIVIDUAL IGNITION INDUCTION COILS, CONDENSERS AND BATTERY BOOSTER-JACKS FOR MODEL AIRPLANES AND MODEL VEHICLES. Claims use since Feb. 25, 1946.

Ser. No. 512,250. General Dry Batteries, Inc., Lakewood, Ohio. Filed Nov. 8, 1946.

DURO-MITE

FOR DRY CELL BATTERIES PARTICULARLY FOR HEARING AIDS. Claims use since Oct. 29, 1946.

Ser. No. 512,663. General Cable Corporation, New York, N. Y. Filed Nov. 15, 1946.

WIREFLEX

FOR INSULATED ELECTRIC WIRES AND CABLES. Claims use since Aug. 27, 1925.

Ser. No. 512,946. The H. A. Wilson Company, Newark, N. J. Filed Nov. 20, 1946.

WILCOLOY

FOR CONTACTS FOR ELECTRICAL CIRCUITS. Claims use since 1935.

Ser. No. 513,004. Ullman Products Corporation, Brooklyn, N. Y. Filed Nov. 21, 1946.

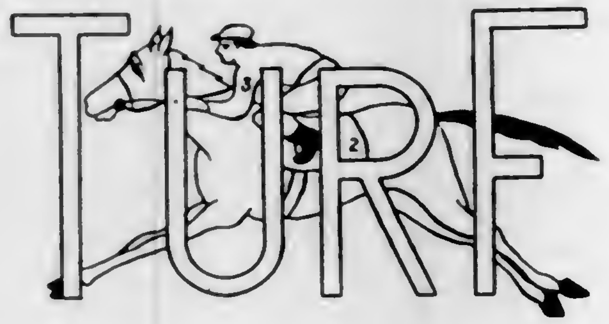
MAGIMMICK

FOR PERMANENT MAGNETS. Claims use since Oct. 22, 1946.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 495,651. Ben-Her Products, Buffalo, N. Y. Filed Jan. 30, 1946.



The representation of the jockey shown is fanciful.
FOR DICE GAME INCLUDING A GAME BOARD HAVING A TRACK DIVIDED INTO SPACES AND ALONG WHICH PLAYING PIECES ARE MOVED. Claims use since about Dec. 3, 1945.

Ser. No. 501,895. Ayvad Water-Wings, Inc., Union City, N. J. Filed May 11, 1946.

WATER-WINGS

Applicant is owner of trade-mark registration No. 37,600, registered Dec. 31, 1901, and renewed Dec. 31, 1931, covering the trade-mark "Water-Wings." Applicant disclaims "Water" apart from the mark as shown.
FOR INFLATABLE SWIMMING SUPPORTS. Claims use since Oct. 15, 1900.

Ser. No. 502,073. Mechanicraft, Inc., Jackson Heights, N. Y. Filed May 14, 1946.

"Junior Mechanic"

FOR TOY CONSTRUCTION SETS. Claims use since Apr. 1, 1946.

Ser. No. 515,218. The Bonoren Company, Inc., New York, N. Y. Filed Jan. 3, 1947.

ROCKETCHUTE

FOR TOY PARACHUTES AND CATAPULTS FOR PROJECTING THEM INTO THE AIR. Claims use since Oct. 30, 1946.

Ser. No. 517,828. Donald R. Buss, doing business as Buss Manufacturing Co., Lanark, Ill. Filed Feb. 20, 1947.

LUCKY BOY

FOR PREPARED FISH BAIT AND FISH HOOKS. Claims use since Jan. 25, 1947.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 503,073 Gellman Manufacturing Company, Rock Island, Ill. Filed May 31, 1946.

VARIETY

FOR BREAD WRAPPING AND PACKAGING MACHINE. Claims use since Oct. 10, 1945.

Ser. No. 503,103. Arthur J. Lagess Industries, Inc., Chicago, Ill. Filed May 31, 1946.

SKILLMASTER

FOR SCREWDRIVERS. Claims use since Mar. 18, 1946.

Ser. No. 504,312. The Whale Tool Corp., New York, N. Y. Filed June 20, 1946.

Pli-rench

The word "Rench" is disclaimed apart from the mark.
FOR COMBINATION PLIERS, WRENCH, PIPE WRENCH, CLAMP AND HAND VISE. Claims use since Aug. 17, 1945.

Ser. No. 504,960. Burbank Distributors, Burbank, Calif. Filed July 2, 1946.

N - E - BEND

The term "Bend" is disclaimed.

FOR FLEXIBLE LEADERS FOR ELECTRICAL FISHING TAPE.

Claims use since May 21, 1946.

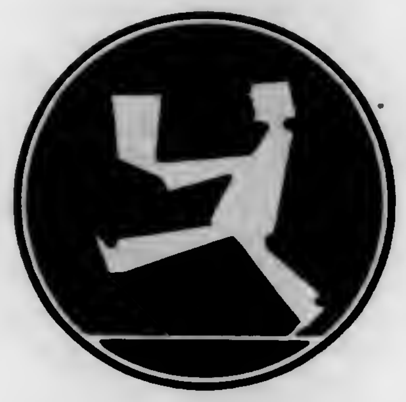
Ser. No. 509,004. Hyster Company, Portland, Oreg. Filed Sept. 13, 1946.

HYSTAWAY

FOR DRAGLINE CLAMSHELL CRANES.

Claims use since July 3, 1946.

Ser. No. 511,299. Spacarb, Inc., New York, N. Y. Filed Oct. 22, 1946.



FOR SELF-VENDING, CARBONATED BEVERAGE MACHINES.

Claims use since Sept. 24, 1946.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

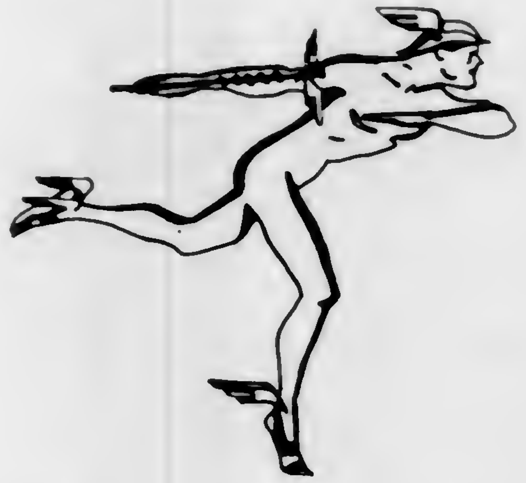
Ser. No. 506,363. The Apex Electrical Manufacturing Co., Cleveland, Ohio. Filed July 27, 1946.

MONITOR

FOR CLOTHES WASHING MACHINES.

Claims use since Dec. 1, 1935.

Ser. No. 512,747. Pressing Supply Company, Philadelphia, Pa. Filed Nov. 16, 1946.



FOR IRONING BOARD PADS AND IRONING BOARD PAD COVERS.

Claims use since May 1, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 501,624. The Arco Company, Cleveland, Ohio. Filed May 8, 1946.

COLOR BAR

No claim is made to the word "Color" apart from the mark.

FOR PAINT MIXING MACHINE DESIGNED TO PRODUCE A PRE-CHOSEN COLOR BY MIXING MEASURED QUANTITIES OF DIFFERENT COLORED PAINT MATERIALS.

Claims use since Nov. 5, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 512,297. United Clock Corporation, Brooklyn, N. Y. Filed Nov. 8, 1946.

·FLAMINGO·

FOR ELECTRIC CLOCKS.

Claims use since about June 10, 1946.

Ser. No. 519,391. Gigantic S. A., Geneva, Switzerland. Filed Mar. 21, 1947.

GIGANTIC

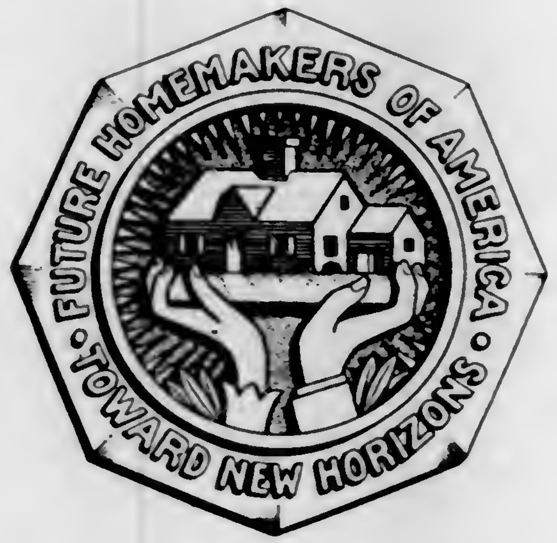
FOR WATCHES AND PARTS THEREOF.

Claims use since Oct. 15, 1945.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 502,815. The Future Homemakers of America, Inc., Washington, D. C. Filed May 27, 1946. Under the act of February 20, 1905, as amended June 10, 1938.

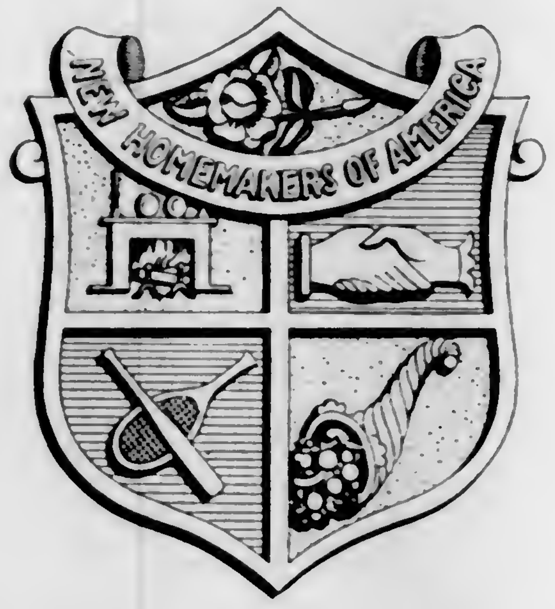


The word "America" appearing in applicant's mark is disclaimed apart from the mark.

FOR ORGANIZATION PINS, BADGES, BUTTONS, BUCKLES, DEGREE PINS AND KEYS; JEWELRY FOR PERSONAL WEAR OTHER THAN WATCHES; MEDALS, DEGREE BADGES AND KEYS, PLAQUES, AND FINGER RINGS, ALL OF THE GOODS BEING IN WHOLE OR PART OF PRECIOUS METAL, OR PRECIOUS METAL PLATED WARE.

Claims use since July 1, 1945.

Ser. No. 502,831. The New Homemakers of America, Inc., Washington, D. C. Filed May 27, 1946. Under the act of February 20, 1905, as amended June 10, 1938.



The word "America" appearing in applicant's mark is disclaimed apart from the mark.

FOR ORGANIZATION PINS, BADGES, BUTTONS, BUCKLES, DEGREE PINS AND KEYS; JEWELRY FOR PERSONAL WEAR OTHER THAN WATCHES; MEDALS, DEGREE BADGES AND KEYS; PLAQUES AND FINGER RINGS, ALL OF THE GOODS BEING IN WHOLE OR PART OF PRECIOUS METAL, OR PRECIOUS METAL PLATED WARE.

Claims use since July 1, 1945.

Ser. No. 509,552. E. & V. Greenfield Jewelry Manufacturers, New York, N. Y. Filed Sept. 20, 1946.

EGV

FOR JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES.

Claims use since June 25, 1946.

Ser. No. 512,315. A. C. Becken Co., Chicago, Ill. Filed Nov. 9, 1946.

Sea-ISLAND

FOR PEARLS, BOTH CULTURED AND SIMULATED OR ARTIFICIAL.

Claims use since on or about Oct. 23, 1946.

Ser. No. 512,356. Untermeyer, Robbins & Co., New York, N. Y. Filed Nov. 9, 1946.

LOCKED-IN-LOVE

FOR FINGER RINGS.

Claims use since August 1946.

Ser. No. 512,365. Associated Products, Inc., Chicago, Ill. Filed Nov. 12, 1946.

TATTOO

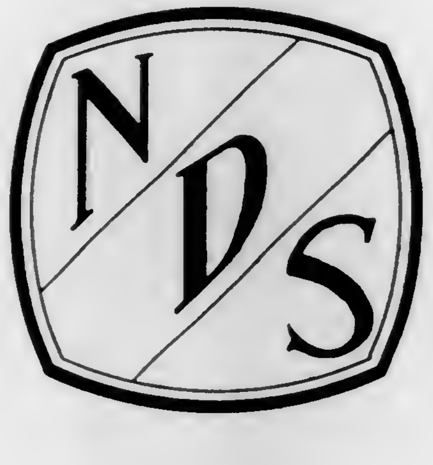
FOR COMPACTS AND VANITIES MADE OF GOLD AND GOLD PLATE.

Claims use since Oct. 2, 1946.

CLASS 30

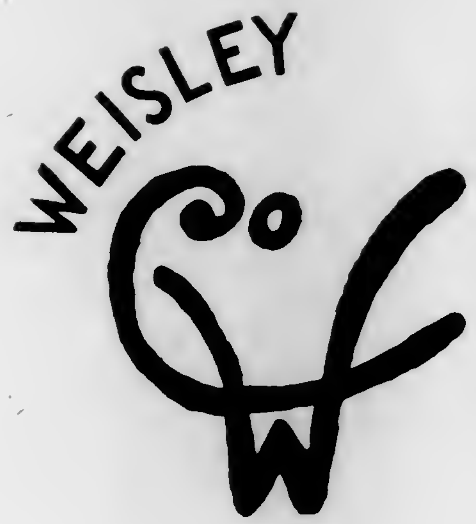
CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 493,796. Frank Mastrangelo, doing business as New Distributor System, Fitchburg, Mass. Filed Dec. 22, 1945.



FOR EARTHENWARE AND CHINA ARTICLES—NAMELY, BOWLS, DRINKING GLASSES AND CUPS, DISHES, PLATTERS AND SAUCERS.
Claims use since January 1940.

Ser. No. 498,100. Weissman Co. Inc., New York, N. Y. Filed Mar. 12, 1946.



FOR ARTICLES OF POTTERY AND ARTICLES OF CHINA—NAMELY, BOWLS, CANDY BOXES, CUPS, FLOWER POTS, JUGS, PIN TRAYS, PITCHERS, PLATES, SAUCERS, SALT AND PEPPER SHAKERS, AND VASES.
Claims use since March 1941.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 488,845. Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Filed Sept. 22, 1945.

Polar Wheel

Exclusive use of the word "Wheel" is disclaimed apart from the mark.
FOR REFRIGERATOR LOCKER STORAGE PLANTS ESSENTIALLY COMPRISED OF AN INSULATED AREA HOUSING A ROTATABLE SUPPORT UPON WHICH ARE MOUNTED LOCKERS FOR PRESENTATION TO AN ACCESS DOOR.
Claims use since May 26, 1941.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 492,223. William Rhodes Limited, Leeds, England. Filed Nov. 26, 1945.

SOMNUS

FOR MATTRESSES, CUSHIONS, PILLOWS, AND BOLSTERS.
Claims use since Dec. 31, 1909.

Ser. No. 496,457. John Parks Newsome, Inc., North Birmingham, Ala. Filed Feb. 12, 1946.

LuJo Craft

The word "Craft" is disclaimed apart from the mark.
FOR FURNITURE—NAMELY, STRAIGHT CHAIRS, ARMCHAIRS, SETTEES, DINING TABLES, UTILITY TABLES, BREAKFAST TABLES, SERVING TABLES AND ROUND TABLES.
Claims use since Aug. 21, 1945.

Ser. No. 507,234. Cavalier Corporation, Chattanooga, Tenn. Filed Aug. 12, 1946.

Write· away

FOR COMBINATION DESK AND CHEST.
Claims use since July 25, 1946.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 516,805. Zippo Manufacturing Company, Bradford, Pa., assignor to Zippo Manufacturing Company, a corporation. Filed Feb. 1, 1947.

ZIPPO

FOR FLINTS FOR PYROPHORIC TYPE LIGHTERS.
Claims use since 1936.

Ser. No. 516,988. Woodrow P. Kubatzky, doing business as Winco Distributing Company, St. Louis, Mo. Filed Feb. 5, 1947.

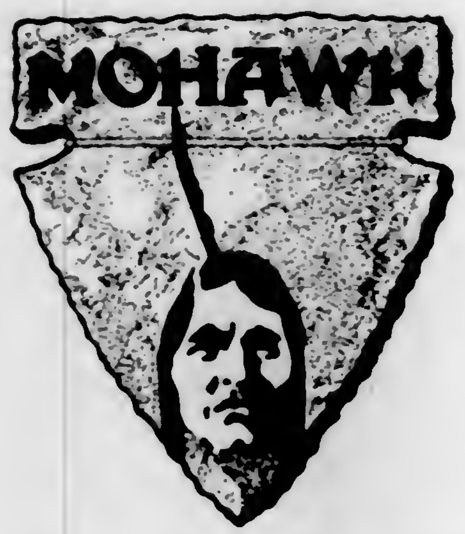
WIN-VNT

FOR BAFFLE TYPE WINDOW VENTILATORS.
Claims use since Dec. 10, 1946.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 506,764. The Mohawk Rubber Company, Akron, Ohio. Filed Aug. 2, 1946.



FOR NON-METALLIC TIRES AND TUBES, CAMELBACK FOR RETREADING AND RECAPPING TIRES AND SYNTHETIC RECAPPING STOCK FOR TIRES.
Claims use since Feb. 25, 1939.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 498,957. Universal Camera Corporation, New York, N. Y. Filed Mar. 25, 1946.

ULTRAVOX

FOR PHONOGRAPHS, MANUALLY OPERATED.
Claims use since Feb. 4, 1946.

Ser. No. 503,950. Sogex SA. Société d'Exportations, Geneva, Switzerland. Filed June 14, 1946.

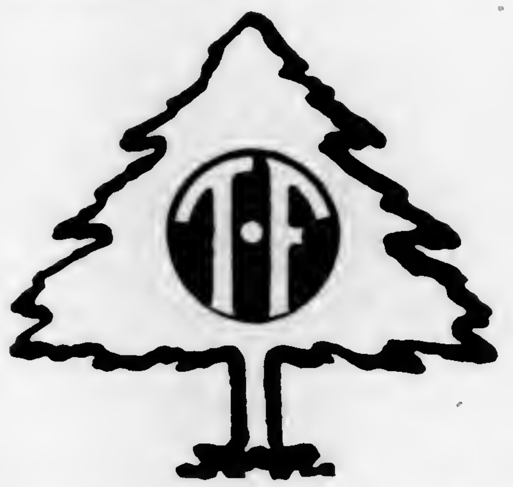
SOGEX

FOR SPRING-ACTUATED AND MANUALLY-ACTUATED MUSICAL BOXES AND PARTS THEREOF.
Claims use since Mar. 9, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 507,865. Taverner & Fricke, Los Angeles, Calif. Filed Aug. 22, 1946.



FOR WRAPPING PAPER, TOILET PAPER, AND WAX PAPER.
Claims use since Jan. 20, 1920.

Ser. No. 508,311. Reynolds Pen Company, Chicago, Ill. Filed Aug. 30, 1946.

ROCKET

FOR FOUNTAIN PENS.
Claims use since Aug. 12, 1946.

Ser. No. 508,345. Charles W. Welch, doing business as Welco Products, Kansas City, Mo. Filed Aug. 30, 1946.

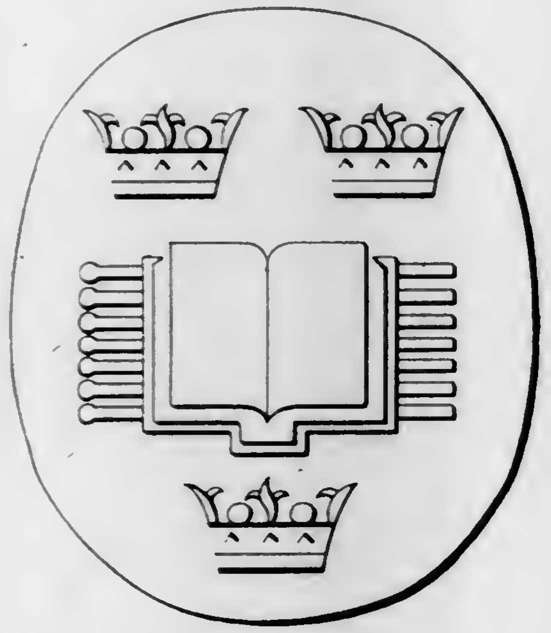
Welco

FOR MARKING CRAYONS IN STICK FORM.
Claims use since September 1945.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 497,957. Oxford University Press, New York, Inc., New York, N. Y. Filed Mar. 9, 1946.



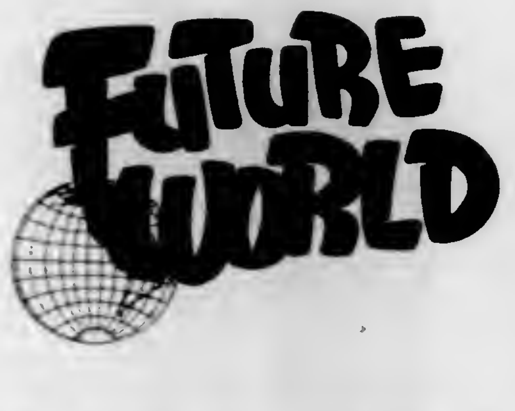
FOR BOOKS AND PAMPHLETS.
Claims use since Nov. 8, 1945.

Ser. No. 498,074. The Paramount Line, Inc., Providence, R. I. Filed Mar. 12, 1946.

GAY CHERUBS

FOR GREETING CARDS.
Claims use since March 1943.

Ser. No. 502,430. George W. Dougherty, New York, N. Y. Filed May 20, 1946.



FOR COMIC MAGAZINES CONSISTING OF COMICS, COMIC STRIPS, CARTOONS, CARTOON STRIPS, NEWS, PUZZLES, TRICKS OF MAGIC, GAMES, STORIES, LESSONS, ADVERTISEMENTS, QUIZZES, ETC., PUBLISHED IN A SERIES.
Claims use since Apr. 20, 1946.

Ser. No. 505,791. Kenneth W. Alford, New York, N. Y. Filed July 18, 1946.

TODAY'S BABY

FOR MAGAZINE OR PERIODICAL ISSUED MONTHLY.
Claims use since July 10, 1946.

Ser. No. 505,957. Benn B. Howitt, Brooklyn, N. Y. Filed July 20, 1946.

JUNIOR--

FOR NEWSPAPER, MAGAZINE AND PERIODICAL CARTOONS.
Claims use since Mar. 15, 1946.

Ser. No. 507,677. Florence Fritz, Fort Myers, Fla. Filed Aug. 20, 1946.

HELLO STRANGER!

FOR MONTHLY PUBLICATION.
Claims use since Apr. 1, 1944.

Ser. No. 507,725. Home Life Insurance Company, New York, N. Y. Filed Aug. 21, 1946.

HOME LIFE

FOR MAGAZINE.
Claims use since Apr. 5, 1946.

Ser. No. 507,866. Topics Publishing Co., Inc., New York, N. Y. Filed Aug. 22, 1946.

Can You Beat That!

FOR CARTOON MAGAZINE SECTION.
Claims use since Aug. 12, 1946.

Ser. No. 508,436. Nehi Corporation, Columbus, Ga. Filed Sept. 3, 1946.

Teen-Talk

FOR MONTHLY PUBLICATION.
Claims use since on or about July 10, 1944.

CLASS 39

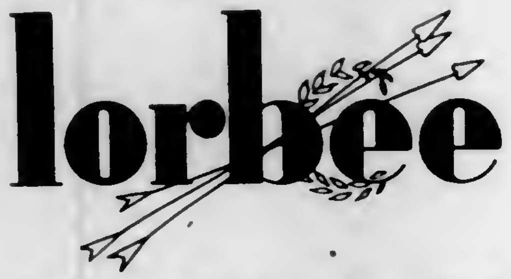
CLOTHING

Ser. No. 484,264. Laurel Intimates, Inc., New York, N. Y. Filed June 7, 1945.

Slim Kitten

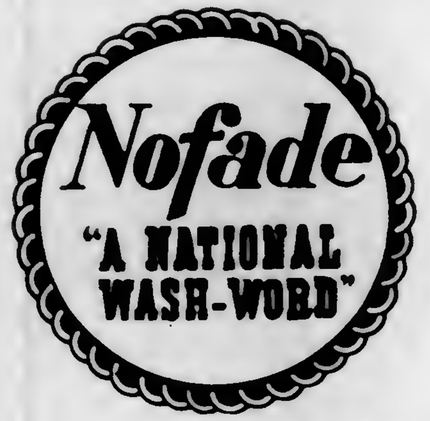
FOR WOMEN'S, MISSES' AND GIRLS' UNDERWEAR, FOUNDATION GARMENTS, NIGHTGOWNS, PAJAMAS, PANTIES, CHEMISES, DANCE SETS, PETTICOATS, BRASSIÈRES, GIRDLES, AND PANTY GIRDLES.
Claims use since Mar. 16, 1945.

Ser. No. 486,000. Laurel Intimates, Inc., New York, N. Y. Filed July 19, 1945.



FOR WOMEN'S, MISSES' AND GIRLS' UNDERWEAR, FOUNDATION GARMENTS, NIGHTGOWNS, PAJAMAS, PANTIES, CHEMISES, DANCE SETS, PETTICOATS, BRASSIÈRES, GIRDLES, AND PANTY GIRDLES.
Claims use since May 7, 1945.

Ser. No. 488,019. Commercial Shirt Corp., New York, N. Y. Filed Sept. 6, 1945. Under section 5b of the act of 1905 as amended in 1920 as to "Nofade."



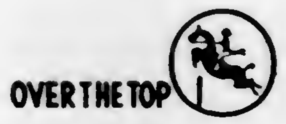
Applicant is the owner of the trade-mark "Nofade", registration No. 122,194, dated July 9, 1918, renewed, effected under the 10-year proviso clause of the 1905 act.

FOR MEN'S AND BOYS' DRESS, NEGLIGEE AND SPORT SHIRTS, SLACKS, PAJAMAS, ROBES, UNDERSHIRTS, SHORTS, NECKTIES AND BATHING TRUNKS AND WOMEN'S AND GIRLS' AFTERNOON AND EVENING DRESSES, SPORT AND PLAY-TIME DRESSES, BLOUSES, ROBES, PAJAMAS AND BATHING SUITS.

Claims use on men's dress, negligee and sport shirts, slacks, pajamas, robes, undershirts, shorts, neckties and bathing trunks since May 28, 1945; on boys' dress, negligee and sport shirts, slacks, pajamas, robes, undershirts, shorts, neckties and bathing trunks since Aug. 2, 1945; and on women's and girls' afternoon and evening dresses, sport and play-time dresses, blouses, robes, pajamas and bathing suits since Aug. 3, 1945; and the name "Nofade" has been in actual use since August 1892.

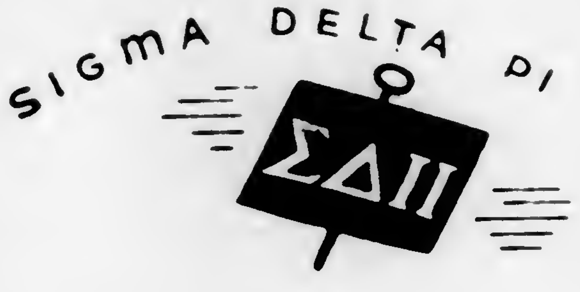
Ser. No. 498,848. I. C. Isaacs & Co., Inc., Baltimore, Md. Filed Mar. 23, 1946.

BRAVO



FOR JODHPURS AND RIDING BREECHES FOR LADIES AND GIRLS.
Claims use since Jan. 10, 1942.

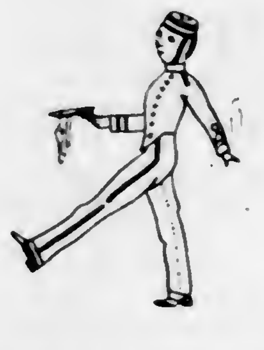
Ser. No. 504,124. A. S. Mines & Pestcoe, New York, N. Y. Filed June 18, 1946.



FOR BOYS' AND STUDENTS' SUITS.
Claims use since Feb. 1, 1946.

Ser. No. 505,663. Murphy, Brill & Sahner, Inc., New York, N. Y. Filed July 15, 1946.

SERVITOR



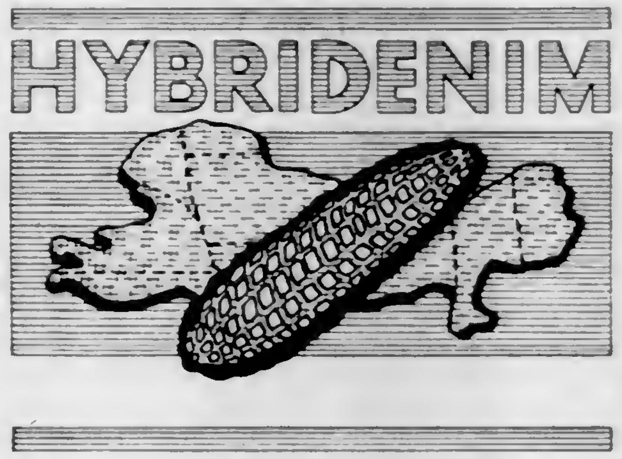
The bellhop shown is a fanciful person.
FOR HOSIERY.
Claims use since Feb. 18, 1936.

Ser. No. 505,846. Manchester Knitted Fashions, Inc., Manchester, N. H. Filed July 18, 1946.

"MATESON"

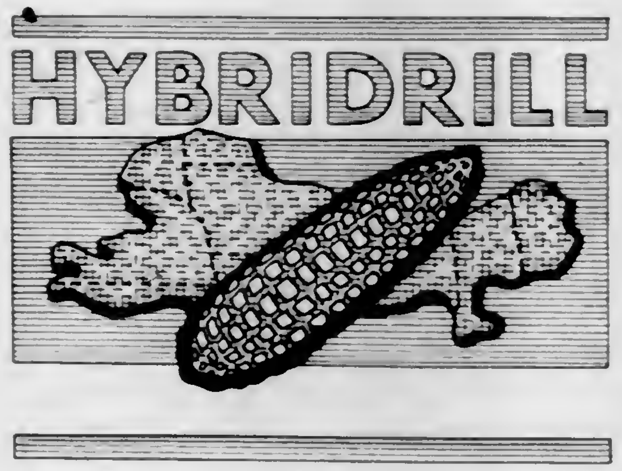
FOR MEN'S WEARING APPAREL—NAMELY, SPORT SHIRTS, SLACKS, SPORT JACKETS, AND LOAFER COATS.
Claims use since May 31, 1946.

Ser. No. 506,646. Commercial Uniform Factories, Kankakee, Ill. Filed Aug. 1, 1946.



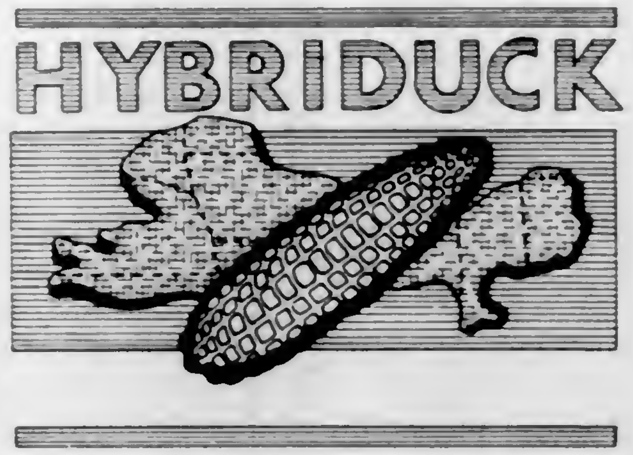
The drawing is shaded in the conventional linings to show the colors, yellow and blue.
FOR MEN'S, WOMEN'S AND CHILDREN'S OVERALLS AND COVERALLS.
Claims use since June 25, 1946.

Ser. No. 506,647. Commercial Uniform Factories, Kankakee, Ill. Filed Aug. 1, 1946.



The drawing is shaded in the conventional linings to show the colors, yellow and blue.
FOR MEN'S, WOMEN'S AND CHILDREN'S OVERALLS AND COVERALLS.
Claims use since June 26, 1946.

Ser. No. 506,648. Commercial Uniform Factories, Kankakee, Ill. Filed Aug. 1, 1946.



The drawing is shaded in the conventional linings to show the colors, yellow and blue.
FOR MEN'S, WOMEN'S AND CHILDREN'S OVERALLS AND COVERALLS.
Claims use since June 27, 1946.

Ser. No. 506,670. Kay Ruth Dress Company, Inc., Jackson and McComb, Miss. Filed Aug. 1, 1946.

Lady Catherine

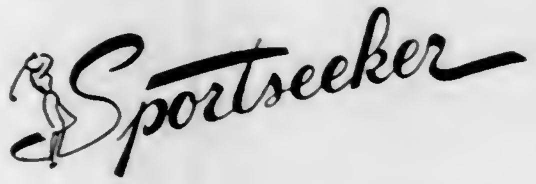
No registration rights are claimed for the word "Lady" apart from the mark.
FOR DRESSES.
Claims use since Nov. 10, 1944.

Ser. No. 506,737. The Crown Overall Mfg. Co., doing business as Headlight Manufacturing Co., Cincinnati, Ohio. Filed Aug. 2, 1946.

STEAM ROLLER

FOR OVERALLS, COVERALLS, TROUSERS, SLACKS, ROMPERS, JACKETS, SHIRTS AND VESTS FOR MEN, WOMEN, AND CHILDREN.
Claims use since on or about Dec. 12, 1936.

Ser. No. 506,982. Betty Briggs, New York, N. Y. Filed Aug. 7, 1946.



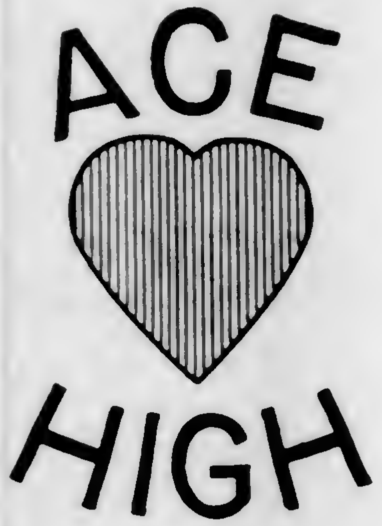
FOR WOMEN'S AND MISSES' DRESSES.
Claims use since May 6, 1946.

Ser. No. 507,615. Best & Co., Inc., New York, N. Y., assignor to Peggy H. Le Boutillier, New York, N. Y. Filed Aug. 19, 1946.

USHMAL

FOR OUTER SHIRTS FOR MEN AND WOMEN.
Claims use since July 24, 1946.

Ser. No. 507,767. Miller Bros., Houston, Tex. Filed Aug. 20, 1946.



The drawing is lined for red color.
FOR OVERALLS, COATS, PANTS AND COMBINATION ONE PIECE, COVER ALL WORK SUITS.
Claims use since 1907.

Ser. No. 508,221. Hairnet Corporation of America, New York, N. Y. Filed Aug. 29, 1946.

Jac-o-net

Applicant disclaims the exclusive right to the use of the word "Net" except as used in association with the other features of the mark.
FOR HAIRNETS.
Claims use since Apr. 26, 1946.

Ser. No. 508,241. Perky Frox, Inc., New York, N. Y. Filed Aug. 29, 1946.

PERKETTES

FOR DRESSES FOR GIRLS AND YOUNG WOMEN.
Claims use since Apr. 15, 1946.

Ser. No. 508,374. Fashion-Craft Dresses, New York, N. Y. Filed Aug. 31, 1946.

Key-to-youth

Applicant disclaims the exclusive right to the word "Youth" except in the relation and association shown.
FOR WOMEN'S DRESSES.
Claims use since January 1938.

Ser. No. 508,599. Green Lane Hosiery Co., Inc., Green Lane, Pa. Filed Sept. 6, 1946.

Rebette

FOR LADIES' HOSIERY.
Claims use since Dec. 1, 1935.

Ser. No. 508,901. Faith Shoe Company, Inc., Wilkes-Barre, Pa. Filed Sept. 12, 1946.

Lullaboots

FOR LOUNGING SHOES AND BEDROOM SLIPPERS.
Claims use since July 5, 1946.

Ser. No. 508,930. J. Schoeneman, Inc., Baltimore, Md. Filed Sept. 12, 1946.

VERY Cooly YOURS

FOR COATS, VESTS, TROUSERS, KNICKERBOCKERS, TOP COATS AND OVERCOATS FOR MEN, YOUTHS AND BOYS.
Claims use since Sept. 6, 1946.

Ser. No. 509,932. David Flegenheimer, Jamaica, N. Y. Filed Sept. 28, 1946.

DEVINET

FOR HAIR NETS.
Claims use since Aug. 27, 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 512,668. KATHARINE K. HARDY, Worcester, Mass. Filed Nov. 15, 1946.

SEWIN-GENIUS

No claim is made to the exclusive use of the word "Sewin" apart from the mark.

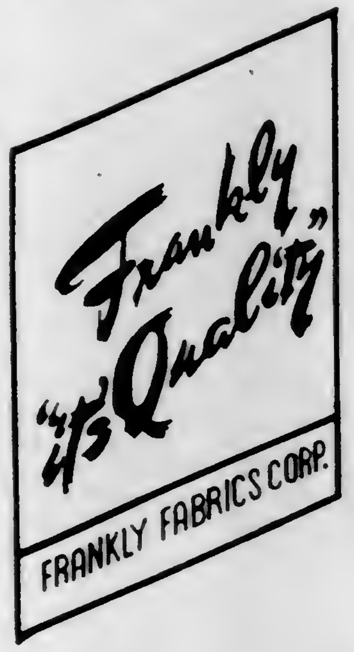
FOR SEWING KITS IN THE NATURE OF A FABRIC FOLDER.

Claims use since Oct. 7, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 495,798. FRANKLY FABRICS CORPORATION, New York, N. Y. Filed Feb. 1, 1946.

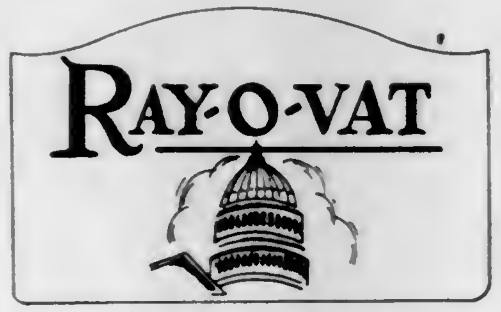


The words "It's Quality," "Fabrics" and "Corp.," and the outline of the label are disclaimed apart from the mark.

FOR PIECE GOODS OF RAYON, SILK, COTTON AND MIXTURES THEREOF.

Claims use since Jan. 10, 1934.

Ser. No. 499,380. CAPITOL PIECE DYE WORKS, INC., New York and Garnerville, West Haverstraw, N. Y. Filed Apr. 1, 1946.



Applicant makes no claim to the word "Vat" apart from the mark.

FOR PIECE GOODS OF SILK, RAYON AND COTTON, AND MIXTURES THEREOF.

Claims use since Jan. 1, 1945.

Ser. No. 499,745. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Apr. 5, 1946.

STREX

FOR ALL TEXTILE FABRICS IN THE PIECE MADE OF COTTON, RAYON, NYLON, AND WOOL YARNS, AND YARNS MADE OF BLENDS OF THESE FIBERS IN VARIOUS PROPORTIONS, SOME OR ALL OF SUCH YARNS BEING SPECIFICALLY COILED TO IMPART ELASTIC PROPERTIES TO THE FABRIC.

Claims use since Apr. 1, 1946.

Ser. No. 506,228. BROOKSIDE MILLS, INC., Knoxville, Tenn. Filed July 25, 1946.

BROOKSIDE

FOR COTTON PIECE GOODS AND RAYON AND WOOLEN FABRICS SOLD IN THE PIECE AND IN BOLT.

Claims use since 1884 for cotton piece goods; since 1932 for rayon fabrics; and since 1940 for woolen fabrics.

Ser. No. 507,426. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., now by change of name to Dan River Mills, Incorporated. Filed Aug. 14, 1946.

McDAN

FOR PIECE GOODS OF COTTON, RAYON, WOOL, OR MIXTURES THEREOF.

Claims use since July 16, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

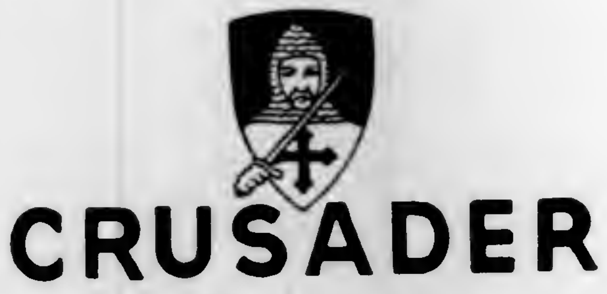
Ser. No. 488,462. THOMAS GOODHUGH, Wimbledon, London, England. Filed Sept. 14, 1945.

OLODENT

FOR DENTAL IMPRESSION COMPOUND.

Claims use since Feb. 4, 1936.

Ser. No. 500,808. LALANCE & GROSJEAN MFG. CO., Woodhaven, N. Y. Filed Apr. 24, 1946.



FOR SHEET METAL HOSPITAL WARE, VIZ., BASINS, BOWLS, KETTLES, JARS, PAILS, BED PANS, TRAYS, PORTABLE BATHS, PORTABLE URINALS, AND IRRIGATORS.

Claims use since Apr. 15, 1946; the trade-mark "Crusader" has been used on bed pans, portable urinals and irrigators since Oct. 1, 1934, and on the other items listed since Dec. 11, 1928.

Ser. No. 501,674. MAGITEX COMPANY, INC., Saco, Maine. Filed May 8, 1946.

FIEESIT

FOR INSECTICIDE APPLICATOR PADS ADAPTED TO BE ATTACHED TO DOG COLLARS AND THE LIKE.

Claims use since on or about January 1946.

Ser. No. 501,919. MOSKEY & GEISS DENTAL LABORATORY, Cleveland, Ohio. Filed May 11, 1946.

Moskey

The trade-mark consists of a part of the facsimile signature of Moskos S. Moskey, a member of the applicant firm.

FOR ARTIFICIAL TEETH, DENTURES, DENTAL PLATES, AND DENTAL CROWNS.

Claims use since Aug. 1, 1945.

Ser. No. 517,925. THEODORE F. STRUB, doing business as Edox Corn and Callus Rasp Co., Chicago, Ill. Filed Feb. 21, 1947.

Edox

FOR CORN RASP.

Claims use since Jan. 10, 1947.

Ser. No. 518,705. TELEX, INC., St. Paul, Minn. Filed Mar. 7, 1947.

TELEMOLD

FOR SOUND REPRODUCERS OF HEARING AIDS WORN IN THE EAR OF USERS.

Claims use since Dec. 10, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

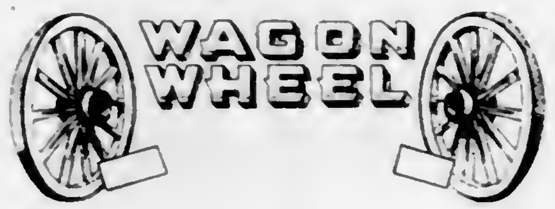
Ser. No. 463,893. SAFEWAY STORES, INCORPORATED, Baltimore, Md., Reno, Nev., Oakland, Calif., and elsewhere. Filed Oct. 4, 1943.

MORNING STAR

FOR EGGS.

Claims use since Aug. 2, 1939.

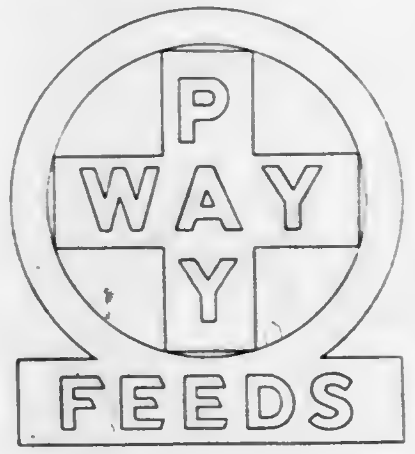
Ser. No. 487,102. CHRIS SORENSEN, Parlier, Calif. Filed Aug. 13, 1945.



FOR FRESH DECIDUOUS FRUITS—NAMELY, PEACHES, GRAPES, NECTARINES, AND PLUMS.

Claims use since June 18, 1945.

Ser. No. 487,911. MAY WAY FEED MILLS, INC., Kansas City, Mo. Filed Sept. 1, 1945.



The word "Feeds" is disclaimed.

FOR LIVESTOCK AND POULTRY FEEDS—NAMELY, CHICK, TURKEY AND LIVESTOCK FEED AND FEED SUPPLEMENTS COMPRISING PRINCIPALLY A MIXTURE OF GRAIN MASH AND MINERALS.

Claims use since Aug. 11, 1945.

Ser. No. 497,079. F & F Laboratories, Inc., Chicago, Ill. Filed Feb. 23, 1946.

LARKS

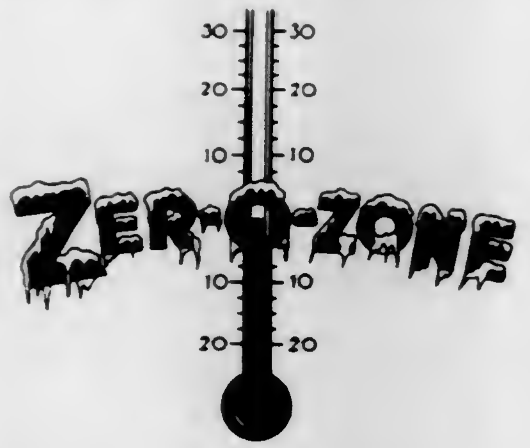
FOR HARD CANDY DROPS.
Claims use since Feb. 12, 1946.

Ser. No. 498,477. Aarhus Oliefabrik A/S, Aarhus, Denmark. Filed Mar. 19, 1946.

Palmela

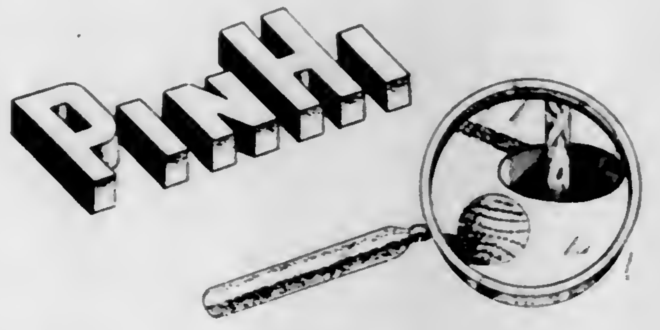
FOR FOODSTUFFS CONSISTING OF CEREALS AND GRAINS—NAMELY, BARLEY, WHEAT, RYE, OATS, MAIZE, AND VEGETABLE AND RAW MATERIALS—NAMELY, PEANUTS, COCOANUTS, PALM-KERNELS, SOYA BEANS; COTTON SEED IN THE FORM OF CAKES AND GROUND (FINELY CUT OR COARSE GROUND) FOR ALL LIVESTOCK.
Claims use since 1920.

Ser. No. 502,262. William A. Boggess, doing business as The Zer-O-Zone Co., Fair Oaks, Calif. Filed May 17, 1946.



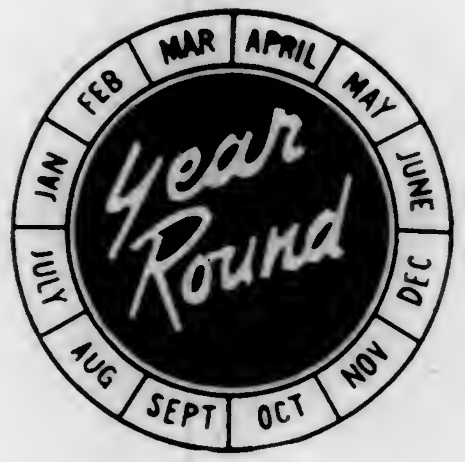
FOR FROZEN POULTRY—NAMELY, CHICKENS AND TURKEYS.
Claims use since Dec. 1, 1945.

Ser. No. 502,462. Ritter-Price Company, Stockton, Calif. Filed May 20, 1946.



FOR FRESH DECIDUOUS FRUITS AND VEGETABLES, FRESH MELONS AND FROZEN DECIDUOUS FRUITS AND FROZEN VEGETABLES AND DRIED FRUITS.
Claims use since Feb. 15, 1946.

Ser. No. 505,074. Santa Clara Frosted Foods Co., Santa Clara, Calif. Filed July 3, 1946.



Applicant is the owner of registration No. 392,623, dated Jan. 6, 1942.
FOR FROZEN FRESH FRUITS AND FROZEN FRESH VEGETABLES.
Claims use since Nov. 15, 1945.

Ser. No. 506,022. Wm. H. Floyd, doing business as Wm. H. Floyd & Co., Los Angeles, Corning, and Del Rosa, Calif. Filed July 22, 1946.

WILFLOYD

FOR CANNED RIPE OLIVES.
Claims use since July 11, 1946.

Ser. No. 508,162. Joe Lowe Corporation, New York, N. Y. Filed Aug. 28, 1946.

ORANGESICLE

FOR FROZEN CONFECTIONS AND LIQUID SYRUPS OR CONCENTRATES FOR MAKING THE SAME.
Claims use since May 9, 1946, on concentrates; and since Aug. 13, 1946, on frozen confections.

Ser. No. 509,810. Abilene Foods Co., Abilene, Kans. Filed Sept. 27, 1946.

Ricky

FOR PEANUT BUTTER.
Claims use since Sept. 1, 1946.

Ser. No. 509,878. Paul A. Ruth, doing business as Paul A. Ruth Company, Phoenix, Ariz. Filed Sept. 27, 1946.

BLACK PANTHER

FOR FRESH VEGETABLES AND MELONS.
Claims use since July 1945 on melons; and since April 1946 on fresh vegetables.

Ser. No. 509,887. L. R. Stone Company, Inc., Los Angeles, Calif. Filed Sept. 27, 1946.

Stephen Foster

The mark consists of the name of the famous American composer, now deceased.
FOR CANDY.
Claims use since Aug. 27, 1946.

Ser. No. 509,901. The Woods Company, Somerton, Ariz. Filed Sept. 27, 1946.

FIGHTER

FOR MELONS.
Claims use since June 11, 1946.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 506,612. Radium Industries, Inc., Chicago, Ill. Filed July 31, 1946.

ATOMIC DOTS

No exclusive claim is made to the term "Dots" apart from the mark.
FOR PRESSURE-SENSITIVE ADHESIVE-COATED LUMINOUS DISCS TO BE APPLIED TO OBJECTS TO LOCATE THEM IN THE DARK.
Claims use since July 12, 1946.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF MARCH 19, 1920, SEC. 1 (b)

These registrations are not subject to opposition

MAY 27, 1947

429,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHERRY-BURRELL CORPORATION, Chicago, Ill. Filed Aug. 17, 1942. Serial No. 454,938.

VOGT

FOR FOOD GELATIN IN GROSS SALE TO MANUFACTURERS OF ICE CREAM, CONFECTIONS, ETC.
Claims use since March 1934.

429,913. (CLASS 39. CLOTHING.) MORRISON KNITWEAR CO., Brooklyn, N. Y. Filed Dec. 28, 1944. Serial No. 478,013.

Morrison

M

FOR KNITTED OUTERWEAR—NAMELY, SWEATERS FOR MEN, WOMEN, AND CHILDREN.
Claims use since April 1943.

429,914. (CLASS 39. CLOTHING.) ASSOCIATED KNITTED OUTERWEAR MILLS, INC., New York, N. Y. Filed Mar. 29, 1945. Serial No. 481,455.

MacDUFF

FOR MEN'S, BOYS', AND CHILDREN'S UNDERWEAR AND KNITTED OUTERWEAR—NAMELY, SWEATERS, INCLUDING PULLOVERS AND BUTTONED SWEATERS; JACKETS AND SPORT COATS.
Claims use since Mar. 1, 1945.

429,915. (CLASS 13. HARDWARE AND PLUMBING AND STEAM FITTING SUPPLIES.) SIDNEY R. GITTENS, doing business as Screen Patch Company, Philadelphia, Pa. Filed Apr. 30, 1945. Serial No. 482,797.

Snap-Patch

FOR SCREEN PATCHES.
Claims use since Dec. 12, 1944.

429,916. (CLASS 39. CLOTHING.) HENDAYE, LTD., New York, N. Y. Filed June 9, 1945. Serial No. 484,344.

DIANE Young

FOR WOMEN'S AND MISSES' BLOUSES.
Claims use since May 8, 1945.

429,917. (CLASS 39. CLOTHING.) BENAL DRESS CO., INC., New York, N. Y. Filed Aug. 7, 1945. Serial No. 486,849.

BEN-AL Basic Average

FOR WOMEN'S DRESSES, WOMEN'S SUITS, WAISTS AND BLOUSES.
Claims use since about Mar. 1, 1945.

429,918. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATNS.) HARRY A. COHEN, doing business as Standard Electric Mfg. Co., West Berlin, N. J. Filed Oct. 3, 1945. Serial No. 489,314.

STANDARD ELECTRIC

FOR ELECTRIC FANS, ELECTRIC AIR CIRCULATORS, ATTIC FANS, EXHAUST FANS, ELECTRIC BLOWERS AND FAN PARTS—NAMELY, GUARDS, AND BLADES, ALL USED AS COMPONENTS OF HEATING AND VENTILATING SYSTEMS.
Claims use since February 1939.

429,919. (CLASS 39. CLOTHING.) CRYSTAL JUNIORS, INC., New York, N. Y. Filed Nov. 1, 1945. Serial No. 490,877.

KEEN-TEENS

FOR DRESSES FOR LADIES.
Claims use since Oct. 30, 1945.

429,920. (CLASS 39. CLOTHING.) FOREMAN & CLARK, Los Angeles, Calif. Filed Nov. 5, 1945. Serial No. 491,079.

KILGOR

FOR MEN'S OVERCOATS.
Claims use since March 1941.

429,921. (CLASS 39. CLOTHING.) M. SERMAN & CO., New York, N. Y. Filed Nov. 24, 1945. Serial No. 492,158.

Babs May

FOR LADIES' BLOUSES AND PAJAMAS.
Claims use since June 1944.

429,922. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SKETCH-MOR MANUFACTURING CO., INC., New York, N. Y. Filed Nov. 24, 1945. Serial No. 492,161.

SKETCH-MOR

FOR TOY DRAWING AND SKETCHING SETS CONSISTING OF A DRAWING BOARD, CRAYONS, AN ERASER AND A PANTOGRAPH.
Claims use since Aug. 25, 1945.

429,923. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM W. CEASE, doing business as Cease Commissary Service, Dunkirk, N. Y. Filed Nov. 30, 1945. Serial No. 492,426.

BAKE-N-EAT

Applicant is the owner of Reg. No. 425,873.
FOR FROZEN PIES.
Claims use since Nov. 9, 1945.

429,924. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WEIDLICH STERLING SPOON CO., Bridgeport, Conn. Filed Dec. 20, 1945. Serial No. 493,637.

Silver Rose

FOR SILVERWARE—NAMELY, HOLLOW-WARE AND FLAT-WARE: GOLD AND SILVER PLATED WEAR—NAMELY, CAKE BASKETS, CAKE TRAYS, RELISH DISHES, BON-BON DISHES, SALT AND PEPPER SETS, ROLL BASKETS, WATER PITCHERS, CANDLESTICKS, SANDWICH PLATES, SUGAR BOWL AND CREAMER, ASH AND PIN TRAYS, TROPHIES, AND COCKTAIL SHAKERS.
Claims use since Nov. 16, 1945.

429,925. (CLASS 39. CLOTHING.) DELTA MFG. CO., INC., Fredericksburg, Tex. Filed Jan. 4, 1946. Serial No. 494,263.

"PETER-LOR"

FOR BOYS' CLOTHING—NAMELY, COATS, DRESS SHIRTS, TROUSERS, AND SUITS.
Claims use since Aug. 15, 1945.

429,926. (CLASS 39. CLOTHING.) HIRSH, INC., Kansas City, Mo. Filed Jan. 16, 1946. Serial No. 494,845.

Pla-Shirt
by PINE RIDGE

FOR MEN'S OUTER SHIRTS.
Claims use since Dec. 10, 1945.

429,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MONMOUTH PRODUCTS CO., INC., Jersey City, N. J. Filed Jan. 22, 1946. Serial No. 495,183.

MONMOUTH HOUSE

FOR FROZEN DECIDUOUS FRUITS, GRAPES, BERRIES, CURRANTS, APPLESAUCE, FRUIT PUREES, PINEAPPLE, COCOANUT MEAT, VEGETABLES, WHOLE EGGS, EGG YOLKS, EGG WHITES, MIXED EGGS, POULTRY AND FISH.
Claims use since Oct. 15, 1943.

429,928. (CLASS 39. CLOTHING.) HOWARD C. MOHN HOSIERY Co., Reading, Pa. Filed Jan. 30, 1946. Serial No. 495,680.

Mohn-Knit

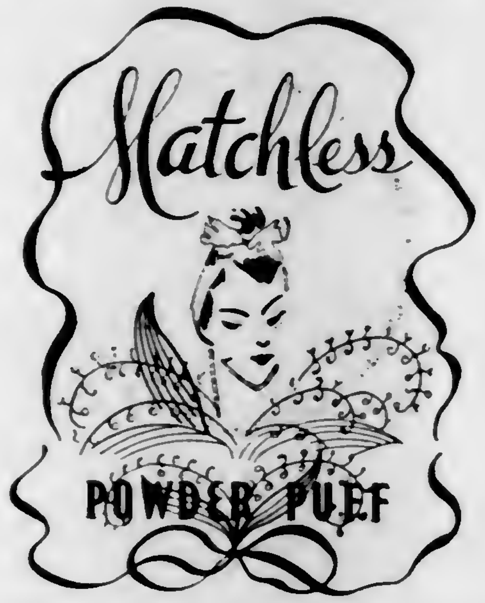
FOR WEARING APPAREL FOR MEN, WOMEN AND CHILDREN—NAMELY, HOSIERY, UNDERWEAR, SWEATERS, COATS, SUITS, DRESSES AND BLOUSES.
Claims use since Jan. 23, 1946.

429,929. (CLASS 39. CLOTHING.) MCALLESTER HOSIERY MILLS, INC., Chattanooga, Tenn. Filed Feb. 6, 1946. Serial No. 496,093.

BONNY WEANS

FOR HOSIERY.
Claims use since Jan. 2, 1946.

429,930. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) J. V. PILCHER MFG. COMPANY, Louisville, Ky. Filed Feb. 11, 1946. Serial No. 496,402.



The representation of the lady's head constituting a part of the mark is merely fanciful.
FOR POWDER PUFFS.
Claim use since Jan. 1, 1946.

429,931. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WALTER L. ZINK, doing business as Zink Artificial Bait Company, Dixon, Ill. Filed Feb. 13, 1946. Serial No. 496,530.

SCREWTAIL

FOR ARTIFICIAL FISH BAIT.
Claims use since Sept. 4, 1945.

429,932. (CLASS 31. FILTERS AND REFRIGERATORS.) RUSSELL L. HACKETT, doing business as Hackett Electric, Pittsburgh, Pa. Filed Feb. 18, 1946. Serial No. 496,785.

Z-R-O FREEZ

FOR FREEZING CABINETS FOR FOODS, PARTICULARLY FOR HOME USE.
Claims use since Feb. 15, 1946.

429,933. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,789.

A Wee Bonnie Lassie

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

429,934. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,791.

American Beauty

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Mar. 21, 1944.

429,935. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,807.

Little Blue Apron

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

429,936. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,809.

Little Miss Bunnie

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 30, 1945.

429,937. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,811.

Little Red

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Sept. 1, 1945.

429,938. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,813.

Little Shepherdess

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 28, 1944.

429,939. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,821.

Miss Hollywood

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Mar. 21, 1944.

429,940. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,824.

Nancy Lee

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 28, 1944.

429,941. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Feb. 18, 1946. Serial No. 496,839.

The Bride

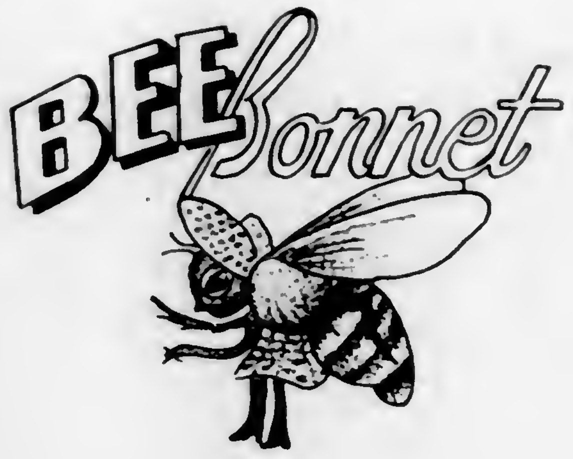
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Oct. 31, 1944.

429,942. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLEARFIELD CHEESE CO., INC., Curwensville, Pa. Filed Feb. 20, 1946. Serial No. 496,951.

Chee Zee

FOR A CHEESE FOOD PRODUCT—NAMELY, A SPREAD.
Claims use since August 1941.

429,943. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOS ANGELES HONEY CO., Los Angeles, Calif. Filed Feb. 20, 1946. Serial No. 496,972.



FOR HONEY.
Claims use since Feb. 7, 1946.

429,944. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BECKER & DARVIE FASHION JEWELRY Co., New York, N. Y. Filed Feb. 26, 1946. Serial No. 497,223.

DARBY

FOR JEWELRY CLIPS, BROOCHES, EARRINGS, FINGER RINGS AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME: BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, FANCY BUCKLES, AND JEWELRY INITIALS.
Claims use since Jan. 16, 1946.

429,945. (CLASS 39. CLOTHING.) EMTEE SLACKS, INC., New York, N. Y. Filed Feb. 28, 1946. Serial No. 497,379.

lord douglas

FOR MEN'S AND BOYS' WOOLEN SLACKS, RAYON MUFFLERS, GLOVES OF FABRIC, PAJAMAS, RUBBERIZED RAIN COATS, UNDER SHIRTS, SHORTS, NECKTIES, DRESS SHIRTS, SUSPENDERS, HANDKERCHIEFS, UNION SUITS, GARTERS AND GARMENT BELTS.
Claims use since Nov. 26, 1945.

429,946. (CLASS 39. CLOTHING.) Top-Notch Manufacturing Company, Inc., El Paso, Tex. Filed Mar. 18, 1946. Serial No. 498,467.

Western MADE IN
TEXAS

FOR MEN'S AND BOYS' OUTERWEAR GARMENTS—NAMELY, OVERALLS AND PANTS.
Claims use since Jan. 15, 1946.

429,947. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) Charles M. Banta, Chicago, Ill. Filed Mar. 22, 1946. Serial No. 498,748.

Chas. M. Banta

FOR TOOTH BRUSHES AND DENTURE BRUSHES.
Claims use since Mar. 1, 1918.

429,948. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) E. S. Lowe Company, Inc., New York, N. Y. Filed Mar. 22, 1946. Serial No. 498,786.

Riviera

FOR A GAME COMPRISING GAME BOARD, COUNTERS AND DICE.
Claims use since Mar. 1, 1946.

429,949. (CLASS 27. HOROLOGICAL INSTRUMENTS.) Emerson Jewelry Company, Inc., Newark, N. J. Filed Mar. 26, 1946. Serial No. 498,988.

DALTON

FOR WATCHES.
Claims use since Mar. 21, 1946.

429,950. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Robert D. Williams, West Tisbury, Mass. Filed Mar. 26, 1946. Serial No. 499,031.

CRANBERRY HILL

FOR FRESH APPLES, PEARS, PLUMS, PEACHES, APRICOTS, CRANBERRIES, HUCKLEBERRIES, BLUEBERRIES, BOYSENBERRIES, AND GOOSEBERRIES, FRESH VEGETABLES, EGGS, BUTTER AND FRESH MILK.
Claims use since Mar. 2, 1946.

429,951. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Harvey's Washington, D. C., ass'gnor to Harvey's Inc. of Maryland, Bowie, Md., a corporation of Maryland. Filed Mar. 29, 1946. Serial No. 499,226.

HAM OF THE MONTH CLUB

FOR HAMS.
Claims use since Feb. 6, 1946.

429,952. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Richard A. Bush, doing business as Southwest Farms, Phoenix, Ariz. Filed Apr. 15, 1946. Serial No. 500,206.

PRE-PAK

FOR FRESH VEGETABLES AND FRESH MELONS.
Claims use since January 1946.

429,953. (CLASS 10, FERTILIZERS.) Lodi Fertilizer Company, Lodi, Calif. Filed Apr. 15, 1946. Serial No. 500,233.

CAL-GRO

FOR MINERAL SOIL CONDITIONER FOR USE AS A FERTILIZER.
Claims use since Mar. 15, 1946.

429,954. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES. The Scholl Manufacturing Co., Inc., Chicago, Ill. Filed Apr. 17, 1946. Serial No. 500,423.

Maternity

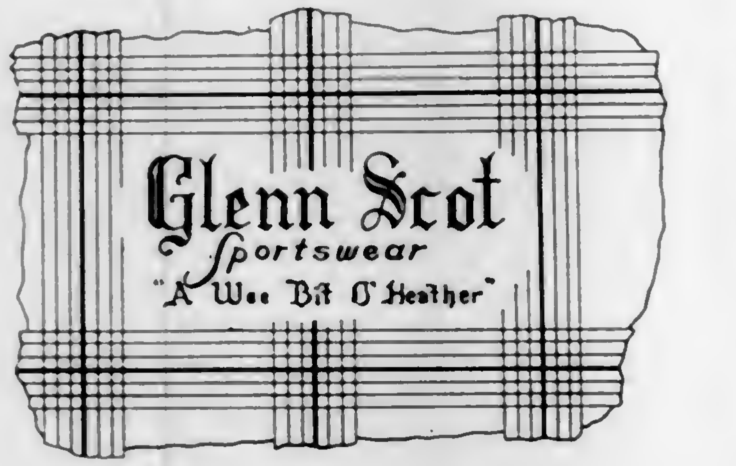
FOR ARCH SUPPORTS.
Claims use since Feb. 28, 1946.

429,955. (CLASS 37. PAPER AND STATIONERY.) Eastern Tablet Corporation, Albany, N. Y. Filed Apr. 29, 1946. Serial No. 501,124.

White Beauty

FOR WRITING PAPER.
Claims use since June 12, 1945.

429,956. (CLASS 39. CLOTHING.) Glenn Scot Sportswear, New York, N. Y. Filed May 4, 1946. Serial No. 501,449.



FOR WOMEN'S SWEATERS, JACKETS, SKIRTS, AND SLACKS.
Claims use since January 1946.

429,957. (CLASS 39. CLOTHING.) Charles Krim, Los Angeles, Calif. Filed May 7, 1946. Serial No. 501,577.

CHARLES OF CALIFORNIA

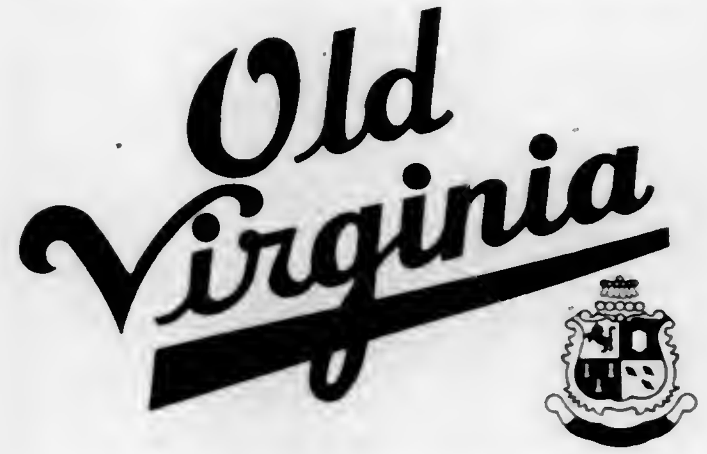
FOR LADIES', MISSES' AND JUNIOR MISSES' COATS, SUITS, JACKETS, SKIRTS AND JUMPERS.
Claims use since May 1, 1945.

429,958. (CLASS 39. CLOTHING.) Ann Adams, Inc., St. Louis, Mo. Filed May 8, 1946. Serial No. 501,617.

Ann Adams

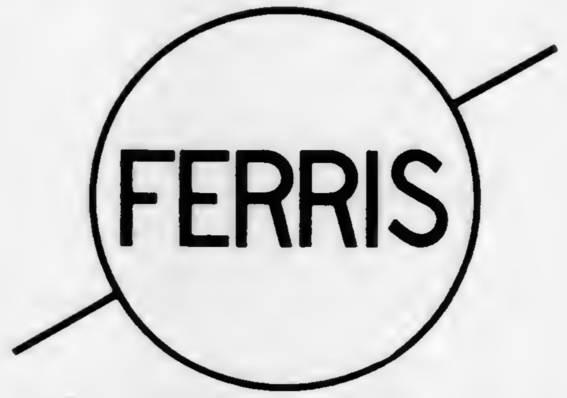
FOR LADIES' AND MISSES' DRESSES.
Claims use since Dec. 1, 1945.

429,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Old Virginia Packing Company, Inc., Front Royal, Va. Filed May 8, 1946. Serial No. 501,685.



Applicant is the owner of trade-mark registrations Nos. 221,515 and 426,232.
FOR FRUIT PRESERVES, JELLIES, JAMS, FRUIT BUTTER, MINCE MEAT, TABLE SYRUP, VINEGAR, MARMALADE, AND KETCHUP.
Claims use since 1910.

429,960. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) Ferris Instrument Company, Boonton, N. J. Filed May 10, 1946. Serial No. 501,842.



FOR VARIABLE AND FIXED ELECTRICAL CONDENSERS; ELECTRICAL SWITCHES; ELECTRICAL ATTENUATORS; ELECTRICAL RHEOSTATS; ELECTRICAL RESISTORS; ELECTRICAL INDUCTANCE COILS; ELECTRICAL COIL DRUMS; DIALS FOR ELECTRICAL INSTRUMENTS; ELECTRICAL INSTRUMENT CASES; ELECTRICAL INSTRUMENT CONTROL KNOBS; ELECTRICAL OUTPUT CABLES; ELECTRICAL OUTPUT CABLE TERMINATING BOXES; RADIO DUMMY ATTENNAE; RADIO ROD ANTENNAE; ELECTRONIC INSTRUMENT CARRYING STRAPS; ELECTRICAL BATTERY CASES; ELECTRICAL SHIELDING CANS; ELECTRICAL POWER SUPPLIERS; ELECTRONIC TUBES; AND TERMINATING UNITS FOR CENTRALIZED ELECTRICAL TRANSMISSION SYSTEMS.
Claims use since Feb. 28, 1940.

429,961. (CLASS 8. SMOKERS' ARTICLES NOT INCLUDING TOBACCO PRODUCTS.) March Corporation, Chicago, Ill. Filed May 13, 1946. Serial No. 501,995.

SMOKE-KOOLER

FOR SMOKING PIPES.
Claims use since Apr. 5, 1945.

429,962. (CLASS 39. CLOTHING.) Harrington & Waring, New York, N. Y. Filed May 22, 1946. Serial No. 502,578.

HOLLYWOOD
HOSE

FOR HOSIERY.
Claims use since Jan. 10, 1923.

429,963. (CLASS 39. CLOTHING.) Franz Mayer Co., New York, N. Y. Filed June 29, 1946. Serial No. 504,853.

WEATHER-PRUFE

FOR LADIES', MISSES', AND CHILDREN'S DRESSES, RAINCOATS, RAINCAPES, SUITS, COATS, UNDERWEAR, SWEATERS, FABRIC AND LEATHER JACKETS, BLOUSES, SLACKS, HATS, STOCKINGS, SHOES MADE OF LEATHER, FABRIC AND COMBINATIONS THEREOF, PLAY AND BEACH SUITS, SKI PANTS, SKI JACKETS AND SKI MITTS OF FABRIC AND LEATHER; AND MEN'S AND BOYS' SUITS, OVERCOATS, RAINCOATS, RAIN CAPES, SOCKS, HATS, CAPS, SCARFS, NECKTIES, LEATHER AND FABRIC GLOVES, LEATHER AND FABRIC JACKETS, SKI PANTS, SKI JACKETS, AND SKI MITTS OF FABRIC AND LEATHER.
Claims use since Apr. 16, 1945.

429,964. (CLASS 39. CLOTHING.) Ricks, Incorporated, Asheboro, N. C. Filed July 2, 1946. Serial No. 505,008.

Fashioned
by Ricks

FOR CHILDREN'S UNDER PANTIES, SLIPS AND PAJAMAS.
Claims use since Feb. 15, 1946.

429,965. (CLASS 27. HOROLOGICAL INSTRUMENTS.) Harman Watch Company, New York, N. Y., assignor to Harman Watch Co., Inc., New York, N. Y., a corporation of New York. Filed Aug. 8, 1946. Serial No. 507,054.

HARMAN, THE WATCH OF GYRO-BALANCED ACCURACY

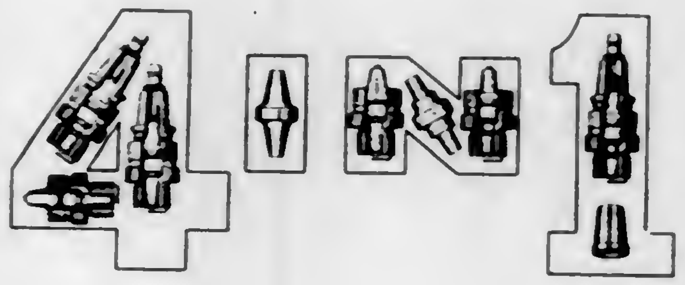
FOR HOROLOGICAL INSTRUMENTS—NAMELY, WATCHES, CLOCKS, AND PARTS OF THE SAID INSTRUMENTS.
Claims use since Aug. 5, 1940.

429,966. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Ralph G. Steinkellner, doing business as P. Steinkellner Co. and Peter Steinkellner & Co., San Francisco, Calif. Filed Aug. 9, 1946. Serial No. 507,153.

CAL-JELL

FOR GELATINE DESSERT PREPARATION AND A CREAM DESSERT PREPARATION.
Claims use since March 1936.

429,967. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) Herman C. Gould, doing business as 4 in 1 Spark Plug Company, Decatur, Ill. Filed Aug. 26, 1946. Serial No. 508,039.



FOR SPARK PLUG ASSEMBLIES AND COMPONENT PARTS.
Claims use since Feb. 17, 1943.

429,968. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) Morris Kaplan & Sons, New York, N. Y. Filed Aug. 27, 1946. Serial No. 508,116.

MARQUETTE Creations

FOR DIAMONDS AND PRECIOUS AND SEMI-PRECIOUS STONES; FINGER RINGS, EAR RINGS, PENDANTS, BRACELETS AND CHOKERS, ALL MADE OF OR DESIGNED TO SIMULATE PRECIOUS OR SEMI-PRECIOUS METAL.
Claims use since January 1926.

TRADE-MARK REGISTRATIONS RENEWED

29,126. **"NON NOBIS SOLUM" AND DESIGN.** READY-MADE GARMENTS. Registered Nov. 10, 1896. Max B. Brummer. Re-renewed Nov. 10, 1946, to Max B. Brummer & Son, Inc., New York, N. Y., a corporation of Delaware. Class 39.

29,133. **CREDÉ.** LACTATE OF SILVER, CITRATE OF SILVER, AND ALL PHARMACEUTICAL PREPARATIONS OF SILVER. Registered Nov. 10, 1896. Chemische Fabrik Von Heyden Gesellschaft, mit Beschrankter Haftung, Radebeul, Germany. Re-renewed Nov. 10, 1946, to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware. Class 6.

29,722. **ANTI-COLIC.** NIPPLES FOR NURSING BOTTLES. Registered Mar. 23, 1897. Meinecke & Co., New York, N. Y. Re-renewed Mar. 23, 1947, to Davol Rubber Company, Providence, R. I., a corporation of Rhode Island. Class 44.

56,549. **AIS-PEP-SYD.** REMEDIES FOR DISEASE OF THE DIGESTIVE ORGANS. Registered Oct. 2, 1906. S. Grover Graham Co., Newburgh, N. Y. Re-renewed Oct. 2, 1946, to The Medic Products Corporation, Monroe, N. Y., a corporation of New York. Class 6.

56,662. **"HYGENOL" ETC. AND WREATH DESIGN.** HAIR-TONIC AND A SHAMPOO. Registered Oct. 16, 1906. The Hygenol Company, Minneapolis, Minn., a corporation of Minnesota. Re-renewed Oct. 16, 1946. Class 6.

56,734. **DESIGN OF A STAR.** EDGE-PLANES, WELT-TRIMMERS, EDGE-SHAVES, SOLE-ROUNDING KNIVES, AND HEEL-SHAVES. Registered Oct. 16, 1906. Snell & Atherton. Re-renewed Oct. 16, 1946, to Snell-Atherton-Norcross Co., Inc., Brockton, Mass., a corporation of Massachusetts. Class 23.

57,040. **"LABATT'S" ETC. AND DESIGN.** PORTER. Registered Oct. 30, 1906. John Labatt. Re-renewed Oct. 30, 1946, to John Labatt Limited, London, Ontario, Canada, an incorporated company of Canada. Class 48.

57,935. **REPRESENTATION OF TWO GLOBES WITHIN SHIELD DESIGN.** WIRE NAILS, WIRE BRADS, WIRE SPIKES, WIRE DOWEL-PINS, WIRE TACKS, WIRE HOOPS FOR BARRELS, BOXES, ETC., WIRE TIES FOR BALES, BUNDLES, ETC., WIRE ROPE, INCLUDING CABLES, CORDS, HAWSERS, AND LINES, WIRE SPRINGS, WIRE FENCING, AND BARBED AND WOVEN WIRE. Registered Dec. 4, 1906. The American Steel & Wire Company of New Jersey, Hoboken, N. J., and New York, N. Y. Re-renewed Dec. 4, 1946, to The American Steel and Wire Company of New Jersey, Cleveland, Ohio, a corporation of New Jersey. Classes 7, 13 and 14.

58,006. **REPRESENTATION OF A TRIANGLE.** MINERAL WATER. Registered Dec. 4, 1906. The Apollinaris Company Limited, London, England, an organized joint stock company of Great Britain. Re-renewed Dec. 4, 1946. Class 45.

59,005. **POCO.** LUBRICATING-OILS. Registered Dec. 25, 1906. Pure Oil Company, Philadelphia, Pa. Re-renewed Dec. 25, 1946, to The Pure Oil Company, Chicago, Ill., a corporation of Ohio. Class 15.

60,681. **THUNDERBOLT.** WHEAT-FLOUR. Registered Feb. 19, 1907. Ismert-Hincke Milling Company, Kansas City, Kans., a corporation of Kansas. Re-renewed Feb. 19, 1947. Class 46.

60,682. **I-H.** WHEAT-FLOUR. Registered Feb. 19, 1907. Ismert-Hincke Milling Company, Kansas City, Kans., a corporation of Kansas. Re-renewed Feb. 19, 1947. Class 46.

60,712. **GOOD THINGS TO EAT.** SMOKED MEATS. Registered Feb. 19, 1907. Fred Wolferman. Re-renewed Feb. 19, 1947, to Fred Wolferman, Inc., Kansas City, Mo., a corporation of Missouri. Class 46.

61,064. **PURINA.** POULTRY AND STOCK FOOD. Registered Mar. 5, 1907. Ralston Purina Company, St. Louis, Mo., a corporation of Missouri. Re-renewed Mar. 5, 1947. Class 46.

61,075. **COLUMBIAN.** ROPE, CABLE, TARRED LATH AND FODDER YARNS, AND COMMERCIAL TWINES OF HARD OR SOFT FIBER. Registered Mar. 5, 1907. Columbian Rope Company, Auburn, N. Y., a corporation of New York. Re-renewed Mar. 5, 1947. Class 7.

61,366. **"PR" AND DESIGN.** SOLID AND PLATED SILVER KNIVES, FORKS, SPOONS, DISHES, AND CONDIMENT-RECEPTACLES. Registered Mar. 19, 1907. Towle Manufacturing Company, Newburyport, Mass., a corporation of Massachusetts. Re-renewed Mar. 19, 1947. Class 28.

61,440. **SEQUOIA.** HATCHES, AXES, CHISELS, GOUGES, DRAWING-KNIVES, COLD-CHISELS, AUGUR-BITS, SAWS, PRUNING-SHEARS, TINNERS' SNIPS, MATTOCKS, SCYTHES, BUSH-HOOKS, FILES, AND RASPS. Registered Mar. 19, 1907. Dunham, Carrigan & Hayden Co., San Francisco, Calif., a corporation of California. Re-renewed Mar. 19, 1947. Class 23.

61,441. **COMSTOCK.** HATCHETS, AXES, CHISELS, GOUGES, DRAWING-KNIVES, COLD-CHISELS, AUGER-BITS, SAWS, PRUNING-SHEARS, TINNERS' SNIPS, MATTOCKS, SCYTHES, BUSH-HOOKS, FILES, AND RASPS. Registered Mar. 19, 1907. Dunham, Carrigan & Hayden Co., San Francisco, Calif., a corporation of California. Re-renewed Mar. 19, 1947. Class 23.

61,643. **"WHITE COUNTERED" ETC. AND REPRESENTATION OF A BEAR.** FUSES. Registered Apr. 2, 1907. Coast Manufacturing & Supply Co., Berkeley, Calif. Re-renewed Apr. 2, 1947, to Coast Manufacturing & Supply Company, Livermore, Calif., a corporation of California. Class 9.

187,878. **VITRA-LASTIC.** ASPHALT PAINT. Registered Aug. 12, 1924. Elliott Varnish Co. Renewed Aug. 12, 1944, to Elliott Paint & Varnish Company, Chicago, Ill., a corporation of Illinois. Class 16.

217,177. **LIBERTAR.** BRUSHES—NAMELY, ARTISTS', CALCIMINE, FITCH, FRESCO, FLOWING, FURNITURE, RUBBING, GLUE, AND CERTAIN OTHER NAMED BRUSHES. Registered Aug. 24, 1926. Pittsburgh Plate Glass Company, Rennous-Kleinle Division, Baltimore, Md. Renewed Aug. 24, 1946, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Class 29.

218,485. **ILLUSTRATION OF DUTCH BOY AND GIRL ETC.** BUTTER, EGGS, CHEESE AND DRESSED POULTRY. Registered Sept. 28, 1926. Holland Butter Company. Renewed Sept. 28, 1946, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. Class 46.

218,836. **"CANTON" ETC. AND DESIGN.** FRICTION TAPE, A FABRIC IMPREGNATED WITH AN ADHESIVE RUBBER COMPOUND. Registered Oct. 5, 1926. Plymouth Rubber Company, Inc., Canton, Mass., a corporation of Massachusetts. Renewed Oct. 5, 1946. Class 5.

218,877. **"XLNT" ETC.** UNCANNED TAMALES AND CANNED PRODUCTS AS FOLLOWS: CHILE CON CARNE, CHILI SAUCE, CHILE AND BEANS, AND SPAGHETTI COOKED OR PREPARED WITH CHILI AND TOMATO SAUCE. Registered Oct. 5, 1926. Charles C. Crawford, doing business as XLNT Spanish Food Co., Los Angeles, Calif. Renewed Oct. 5, 1946. Class 46.

218,967. **"EXECUTIVE"**. APPARATUS AND EQUIPMENT FOR USE IN PAGING SERVICE, SUCH APPARATUS AND EQUIPMENT CONSISTING OF ELECTRICALLY-OPERATED CODE SENDERS, AND OTHER SUCH APPARATUS AND EQUIPMENT. Registered Oct. 5, 1926. The Autocall Company, Shelby, Ohio, a corporation of Ohio. Renewed Oct. 5, 1946. Class 21.

219,070. **KASHERINA**. WOOLEN PIECE GOODS. Registered Oct. 12, 1926. Forstmann & Huffmann Company. Renewed Oct. 12, 1946, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Class 42.

219,077. **KASHMIROVA**. WOOLEN PIECE GOODS. Registered Oct. 12, 1926. Forstmann & Huffmann Company. Renewed Oct. 12, 1946, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Class 42.

219,291. **"THE LIGHT" ETC.** DAILY NEWSPAPER. Registered Oct. 12, 1926. The Light Publishing Company, San Antonio, Tex., a corporation of Texas. Renewed Oct. 12, 1946. Class 38.

219,292. **HERALD CHICAGO EXAMINER**. DAILY NEWSPAPER. Registered Oct. 12, 1926. Illinois Publishing & Printing Company, Chicago, Ill., a corporation of Illinois. Renewed Oct. 12, 1946. Class 38.

219,637. **LAMONTA**. TEXTILE ARTICLES—NAMELY, HOSIERY. Registered Oct. 19, 1926. Bear Brand Hosiery Co., Chicago, Ill., a corporation of Illinois. Renewed Oct. 19, 1946. Class 39.

219,993. **DUL-GLO**. DRY, PASTE, AND READY-MIXED PAINTS AND PAINT ENAMELS. Registered Oct. 26, 1926. C. A. Nash & Son, Inc., Norfolk, Va., a corporation of Virginia. Renewed Oct. 26, 1946. Class 16.

220,636. **UNIFRUIT**. BANANAS. Registered Nov. 16, 1926. United Fruit Company, Boston, Mass. Renewed Nov. 16, 1946, to Fruit Dispatch Company, New York, N. Y., a corporation of Delaware. Class 46.

221,327. **SUNNINGDALE**. SHEETS AND PILLOWCASES. Registered Nov. 30, 1926. John Wanamaker New York, New York, N. Y., a corporation of New York. Renewed Nov. 30, 1946. Class 42.

221,717. **FAKTOR**. OIL PAINTS, PIGMENTS, VARNISHES, AND LACQUERS. Registered Dec. 7, 1926. Erich Frenkel, doing business as Hermann Frenkel, Leipzig-Molkau, Germany. Renewed Dec. 7, 1946, to The Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Class 16.

221,884. **"FLY DOOM" AND REPRESENTATION OF TWO FLIES**. FLY EXTERMINATOR. Registered Dec. 14, 1926. Edgar A. Murray, doing business as Edgar A. Murray Co. Renewed Dec. 14, 1946, to Edgar A. Murray Co., Detroit, Mich., a corporation of Michigan. Class 6.

221,911. **BUG DOOM**. EXTERMINATOR FOR BUGS. Registered Dec. 14, 1926. Edgar A. Murray, doing business as Edgar A. Murray Co. Renewed Dec. 14, 1946, to Edgar A. Murray Co., Detroit, Mich., a corporation of Michigan. Class 6.

222,208. **"STARKNIT" ETC.** KNITTED INFANTS' MITTENS AND GLOVES, CHILDREN'S MITTENS AND GLOVES, MEN'S AND WOMEN'S MITTENS AND GLOVES, AND CERTAIN OTHER NAMED ARTICLES OF CLOTHING. Registered Dec. 28, 1926. Star Knitting Company, La Crosse, Wis., a corporation of Wisconsin. Renewed Dec. 28, 1946. Class 39.

222,881. **REX**. DOLOMITIC HYDRATE. Registered Jan. 11, 1927. Great Lakes Industrial Laboratories, Inc., Toledo, Ohio, a corporation of Ohio. Renewed Jan. 11, 1947. Class 12.

222,984. **"MERK A DENT" AND DESIGN**. TOOTH PASTE. Registered Jan. 11, 1927. Albert B. Hirschman, San Pedro, Calif. Renewed Jan. 11, 1947. Class 6.

223,157. **PLUMB**. NAIL HAMMERS, TINNERS' HAMMERS, RIVETING HAMMERS, ENGINEERS' HAMMERS, CHIPPING HAMMERS, PROSPECTING HAMMERS, SHOE HAMMERS, BLACKSMITH HAND HAMMERS, AND CERTAIN OTHER NAMED TOOLS. Registered Jan. 18, 1927. Fayette R. Plumb, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Jan. 18, 1947. Class 23.

223,324. **REPRESENTATION OF GIRL PLAYING A MUSICAL INSTRUMENT WITHIN A CIRCULAR DESIGN.** ACCORDIONS, ADJUSTABLE INSTRUMENT STANDS, BANJOS, BATONS, BOWS, BRIDGES, BUGLES, GUITAR CAPOS, CHIN RESTS, CHROMATIC PITCH PIPE, CLARINETS, CLARINET REEDS, CORNETS AND CERTAIN OTHER MUSICAL INSTRUMENTS AND SUPPLIES. Registered Feb. 1, 1927. Continental Music Company, Chicago, Ill., a corporation of Illinois. Renewed Feb. 1, 1947. Class 36.

223,407. **ASUNTOL**. REMEDY FOR THE TREATMENT OF RED WATER IN CATTLE. Registered Feb. 1, 1927. I. G. Farbenindustrie Aktiengesellschaft, Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed Feb. 1, 1947, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York. Class 6.

223,652. **FLASHMERE**. WOOLEN DRESS GOODS IN THE PIECE. Registered Feb. 8, 1927. The Atlantic Mills, Olneyville, R. I. Renewed Feb. 8, 1947, to A. D. Juilliard & Co., Inc., New York, N. Y., a corporation of Delaware. Class 42.

223,669. **SOUVERAINETE**. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, POWDER COMPACT, ROUGE COMPACT, DUSTING POWDER, LOTION FOR THE SKIN AND HAIR, AND OTHER SUCH GOODS. Registered Feb. 8, 1927. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 8, 1947. Class 6.

223,674. **"ROACH DOOM" AND REPRESENTATION OF ROACH AND DESIGN**. ROACH INSECTICIDE. Registered Feb. 8, 1927. Edgar A. Murray, doing business as Edgar A. Murray Co. Renewed Feb. 8, 1947, to Edgar A. Murray Co., Detroit, Mich., a corporation of Michigan. Class 6.

223,766. **DIXIES**. PAPER DRINKING CUPS AND PAPER CUPS FOR BEVERAGES, ICE CREAMS, CONFECTIONS, FOODSTUFFS, AND OTHER MERCHANDISE AND PAPER INCLOSING CARTONS OR CONTAINERS THEREFOR. Registered Feb. 8, 1927. Individual Drinking Cup Co., Inc., Easton, Pa. Renewed Feb. 8, 1947, to Dixie Cup Company, Chicago, Ill., a corporation of Delaware. Class 2.

223,771. **"MONOPOLIS"**. MEDICINAL PLASTER FOR THE TREATMENT OF WOUNDS, SORES, AND LIKE CONDITIONS. Registered Feb. 8, 1927. Josefa Pietrasanta Grisi. Renewed Feb. 8, 1947, to Viuda De Jose Grisi Sucesores, Mexico City, Mexico, a firm. Class 6.

223,845. **"VICTO" AND DESIGN**. DRY CLEANER. Registered Feb. 15, 1927. Victor Chemical Company. Renewed Feb. 15, 1947, to Arthur D. Baker, doing business as Victor Chemical Co., Denver, Colo. Class 4.

223,894. **SEE-STEP**. OPHTHALMIC LENSES. Registered Feb. 15, 1927. Continental Optical Corporation, New York, N. Y. Renewed Feb. 15, 1947, to Continental Optical Company, Inc., Indianapolis, Ind., a corporation of Indiana. Class 26.

224,201. **TRAN-COR**. BARS, BILLETS, CASTINGS, FORGINGS, INGOTS, PLATES; SHAPES, PLAIN AND FORMED; COATED AND UNCOATED SHEETS, RODS, AND WIRE, ALL OF STEEL AND OF ALLOYS OF IRON. Registered Feb. 22, 1927. The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio. Renewed Feb. 22, 1947. Class 14.

224,216. **INDIVIDUAL DIXIES**. PAPER DRINKING CUPS AND PAPER CUPS FOR BEVERAGES, ICE CREAMS, CONFECTIONS, FOODSTUFFS, AND OTHER MERCHANDISE, AND PAPER INCLOSING CARTONS OR CONTAINERS THEREFOR. Registered Feb. 22, 1927. Individual Drinking Cup Co., Inc., Easton, Pa. Renewed Feb. 22, 1947, to Dixie Cup Company, Chicago, Ill., a corporation of Delaware. Class 2.

224,315. **PANOTONE**. PAINT DRIER. Registered Feb. 22, 1927. Panhandle Refining Company, Wichita Falls, Tex., a corporation of Texas. Renewed Feb. 22, 1947. Class 16.

224,495. **CRYPTONE**. LITHOPONE USED AS A PAINT PIGMENT. Registered Mar. 1, 1927. The New Jersey Zinc Company, Newark and Franklin, N. J. Renewed Mar. 1, 1947, to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey. Class 16.

224,514. **"M-K-T" ETC. AND DESIGN**. BOOKLETS, CIRCULARS, AND PAMPHLETS. Registered Mar. 1, 1927. Missouri-Kansas-Texas Railroad Company, St. Louis, Mo., a corporation of Missouri. Renewed Mar. 1, 1947. Class 38.

224,567. **CHARM SHOP**. SILVERWARE—NAMELY, FLAT TABLE-WARE, TOILET WARE, JUGS, COCKTAIL SHAKERS, CIGARETTE BOXES, AND JEWEL BOXES; AND SUCH OTHER GOODS. Registered Mar. 1, 1927. L. Bamberger & Co., Newark, N. J., a corporation of New Jersey. Renewed Mar. 1, 1947. Class 28.

224,585. **B.V.D.** UNDERWEAR OF WOVEN AND TEXTILE FABRICS—NAMELY, SHIRTS, DRAWERS, AND UNION SUITS; AND ATHLETIC OUTER CLOTHING—NAMELY, ATHLETIC SHIRTS AND RUNNING PANTS. Registered Mar. 1, 1927. The B. V. D. Company, Inc. Renewed Mar. 1, 1947, to The B. V. D. Corporation, Baltimore, Md., a corporation of Delaware. Class 39.

224,691. **AMIDOXYL**. AMMONIUM O-IODOXY BENZOATE. Registered Mar. 1, 1927. Abbott Laboratories, North Chicago, Ill., a corporation of Illinois. Renewed Mar. 1, 1947. Class 6.

224,857. **KATY**. BOOKLETS, CIRCULARS, AND PAMPHLETS. Registered Mar. 8, 1927. Missouri-Kansas-Texas Railroad Company, St. Louis, Mo., a corporation of Missouri. Renewed Mar. 8, 1947. Class 38.

224,869. **"CALIFORNIA FRUIT EXCHANGE BLUE ANCHOR" AND REPRESENTATION OF ANCHOR.** FRESH CHERRIES, APRICOTS, PEACHES, PEARS, PLUMS, GRAPES, APPLES, PRUNES, FIGS, PERSIMMONS, POMEGRANATES, NECTARINES, QUINCES. Registered Mar. 8, 1927. California Fruit Exchange, Sacramento, Calif., a corporation of California. Renewed Mar. 8, 1947. Class 46.

225,026. **"LE PARFUM IDEAL" AND REPRESENTATION OF A WOMAN'S HEAD ETC.** SOAPS. Registered Mar. 8, 1927. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed Mar. 8, 1947. Class 4.

225,061. **HAVE-A-HEART**. FROZEN CONFECTION. Registered Mar. 8, 1927. Joseph W. Dubraks, St. Petersburg, Fla. Renewed Mar. 8, 1947, to J. Pratt Irby, Pittsburgh, Pa. Class 46.

225,132. **FENOLE**. DISINFECTANTS, DEODORANTS, AND INSECTICIDES. Registered Mar. 15, 1927. Wylie R. Powell, doing business as Fenole Chemical Company, Jacksonville, Fla. Renewed Mar. 15, 1947. Class 6.

225,186. **PICKWICK**. BAKING POWDER AND BLUING, GLOSS STARCH, AND SALT FOR FOOD PURPOSES. Registered Mar. 15, 1927. Kansas City Wholesale Grocery Co. Renewed Mar. 15, 1947, to Pickwick Products, Inc., Kansas City, Mo., a corporation of Missouri. Classes 6 and 46.

225,207. **"STYLCREST" AND DESIGN**. SHOES MADE FROM LEATHER, FABRIC, OR COMBINATIONS THEREOF, AND HOSIERY FOR MEN, WOMEN, AND CHILDREN. Registered Mar. 15, 1927. The People's Shoe Stores Company, Inc. Renewed Mar. 15, 1947, to McCain-Wright, Inc., St. Louis, Mo., a corporation of Missouri. Class 39.

225,216. **"EXCELSIOR" ETC. AND DESIGN**. KNITTING-MACHINE NEEDLES. Registered Mar. 15, 1927. The Torrington Company. Renewed Mar. 15, 1947, to The Torrington Company, Torrington, Conn., a corporation of Maine. Class 23.

225,402. **HOME-WAY GOODIES**. CANDIES; SALTED, SHELLED, UNSHELLED, AND GLACÉ NUTS; FRESH, CANNED, AND DRIED FRUITS; STUFFED FRUITS, GLACÉ FRUITS, POP CORN CANDIED, SALTED, OR IN ITS NATURAL STATE; POPPING CORN, POP-CORN CONFECTIONS; RAISINS WHICH ARE DRIED, CHOCOLATE COATED; FIGS, AND DATES. Registered Mar. 15, 1927. Minoa J. Nicholas, New York, N. Y. Renewed Mar. 15, 1947. Class 46.

225,428. **EASTERN**. DIE HEADS, TAPS, AND THREADING MACHINES. Registered Mar. 15, 1927. The Eastern Machine Screw Corporation, New Haven, Conn., a corporation of Connecticut. Renewed Mar. 15, 1947. Class 23.

225,464. **"DR. WILLIAM'S" ETC. AND REPRESENTATION OF FOOT.** CHILDREN'S LEATHER SHOES. Registered Mar. 22, 1927. Arnold G. Behn, Kearny, N. J. Renewed Mar. 22, 1947, to A. G. Behn Shoe Co., Arlington, N. J., a copartnership. Class 39.

225,491. **"BABYLAND" AND DESIGN**. SAFETY PINS OF NONPRECIOUS METAL. Registered Mar. 22, 1927. The DeLong Hook and Eye Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 22, 1947. Class 40.

225,533. **"IMPERIAL" AND DESIGN**. MEN'S DRESSING GOWNS. Registered Mar. 22, 1927. Samuel L. Hoffman, doing business as S. L. Hoffman & Co., New York, N. Y. Renewed Mar. 22, 1947. Class 39.

225,535. **KEE-WIS**. SPARKLING WATER. Registered Mar. 22, 1927. Great Bear Spring Company, New York, N. Y., a corporation of New Jersey. Renewed Mar. 22, 1947. Class 45.

225,546. **WARMSPUN**. TEXTILE BLANKETS. Registered Mar. 22, 1927. The Esmond Mills. Renewed Mar. 22, 1947, to The Esmond Mills, Incorporated, Esmond, Smithfield, R. I., a corporation of Delaware. Class 42.

225,572. **TRIBOUT**. HANDKERCHIEFS. Registered Mar. 22, 1927. John Wanamaker Philadelphia, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 22, 1947. Class 39.

225,651. **TEXAS QUEEN**. POULTRY AND DAIRY FEED. Registered Mar. 22, 1927. Ruhmann Grain & Fuel Company. Renewed Mar. 22, 1947, to Ruhmann Grain & Seed Company, Waco, Tex., a corporation of Texas. Class 46.

225,663. **REPRESENTATION OF A BEAR ETC.** SPARKLING WATER. Registered Mar. 22, 1927. Great Bear Spring Company, New York, N. Y., a corporation of New Jersey. Renewed Mar. 22, 1947. Class 45.

225,711. **PICKWICK.** CANNED VEGETABLES, CANNED FRUIT, DRIED FRUIT, CANNED SALMON, CANNED HOMINY, CANNED SAUERKRAUT, COMPOUND OF SORGHUM AND GLUCOSE FOR FOOD PURPOSES, COFFEE, EVAPORATED MILK, MINCEMEAT, ROLLED OATS, AND OTHER NAMED FOOD ITEMS. Registered Mar. 22, 1927. Kansas City Wholesale Grocery Co. Renewed Mar. 22, 1947, to Pickwick Products, Inc., Kansas City, Mo., a corporation of Missouri. Class 46.

225,719. **DORETTE.** WOMEN'S HATS, WOMEN'S AND CHILDREN'S HOSIERY, WOMEN'S AND CHILDREN'S UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS. Registered Mar. 22, 1927. The Strouss-Hirshberg Company, Youngstown, Ohio, a corporation of Ohio. Renewed Mar. 22, 1947. Class 39.

225,821. **MIX-OL-AGAR.** LAXATIVE. Registered Mar. 29, 1927. Park Drug Co., New York, N. Y., a corporation of New York. Renewed Mar. 29, 1947. Class 6.

225,828. **"PATTERSON" ETC. AND DESIGN.** AGITATORS AND STIRRERS. Registered Mar. 29, 1927. The Patterson Foundry & Machine Co., East Liverpool, Ohio, a corporation of Ohio. Renewed Mar. 29, 1947. Class 23.

225,857. **FRE-MUL.** COUGH MEDICINE. Registered Mar. 29, 1927. Fre-Lax Medicine Company, Fall River, Mass., a partnership. Renewed Mar. 29, 1947. Class 6.

225,860. **"CORNUCOPIA" ETC. AND DESIGN.** SMOKING AND CHEWING TOBACCO AND SNUFF. Registered Mar. 29, 1927. Maclin-Zimmer-McGill Tobacco Co., Petersburg, Va., a corporation of Virginia. Renewed Mar. 29, 1947. Class 17.

225.930. **"KING C. GILLETTE" AND PORTRAIT.** SURGICAL KNIVES AND PARTS THEREOF. Registered Mar. 29, 1927. Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware. Renewed Mar. 29, 1947. Class 44.

225.953. **"JAQUEQUINA" ETC. AND REPRESENTATION OF A WOMAN'S FACE.** PREPARATIONS FOR THE TREATMENT OF NEURALGIA, RHEUMATISM, HEADACHES, SCIATICA, NERVOUS FATIGUE, AND DISEASES PECULIAR TO WOMEN, INCLUDING MENSTRUAL DISCOMFORTS. Registered Mar. 29, 1927. The Sydney Ross Co., Newark, N. J., a corporation of New Jersey. Renewed Mar. 29, 1947. Class 6.

225,957. **MONARCH.** LOOSE-LEAF STRUCTURES, AS RING BOOKS, POST BINDERS AND LEDGERS. Registered Mar. 29, 1927. National Blank Book Co. Renewed Mar. 29, 1947, to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts. Class 37.

226,015. **"KNICKERBOCKER SILK CO." AND REPRESENTATION OF MAN.** SILK PIECE GOODS AND SILK VELVETS IN THE PIECE. Registered Mar. 29, 1927. Knickerbocker Silk Co. Renewed Mar. 29, 1947, to Knickerbocker Textile Corporation, New York, N. Y., a corporation of New York. Class 42.

226,027. **"THE PRAIRIE FARMER" AND DESIGN.** WEEKLY PERIODICAL. Registered Mar. 29, 1927. The Prairie Farmer Publishing Co., Chicago, Ill., a corporation of Illinois. Renewed Mar. 29, 1947. Class 38.

226,086. **BLUBAG.** LIME. Registered Mar. 29, 1927. Woodville Lime Products Company, Toledo, Ohio, a corporation of Ohio. Renewed Mar. 29, 1947. Class 12.

226,112. **"THE FABRIC GROUP" AND REPRESENTATION OF THREE MEN WITHIN CIRCLE.** MEN'S SUITS. Registered Mar. 29, 1927. Weber & Heilbroner. Renewed Mar. 29, 1947, to Weber and Heilbroner, Inc., New York, N. Y., a corporation of New York. Class 39.

REISSUES

MAY 27, 1947

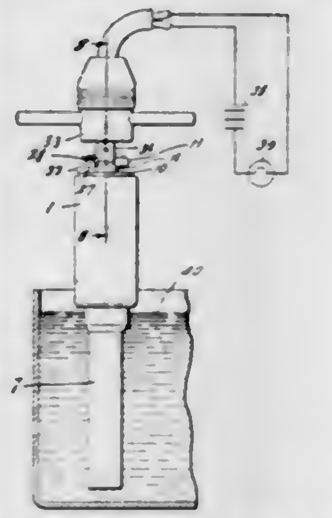
22,883

BATTERY CHARGING THERMOSTAT

Benjamin F. W. Heyer, Tenafly, N. J., assignor to John J. McDonough, trustee, Newark, N. J.

Original No 2,376,056, dated May 15, 1945, Serial No. 455,113, August 17, 1942. Application for reissue May 6, 1946, Serial No. 667,512

18 Claims. (Cl. 177—311)



14. A control switch comprising a housing element having a bore therein, the inner cylindrical surface of which is threaded, a support element having a threaded external cylindrical surface threadedly mounted in said bore, a switch assembly having a movable member and carried by said threaded support element, an actuating member carried by said housing for actuating the movable member of said switch assembly, said threaded support element being rotatably adjustable in said threaded bore for axial movement relative to said actuating member, and means cooperating with the threaded surface of at least one of said elements to restrain said elements against relative movement.

22,884

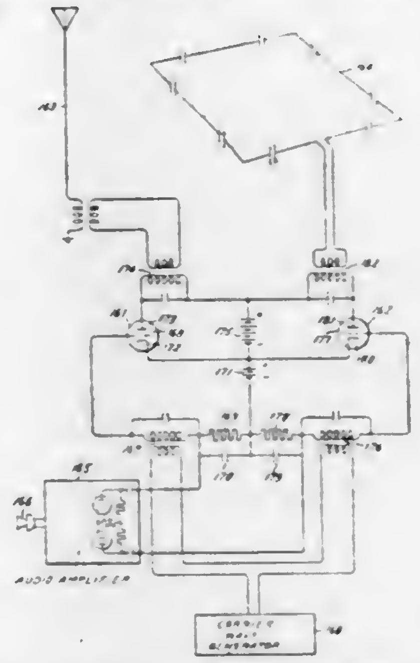
RADIO TRANSMISSION SYSTEM

Halsey W. Kline, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original No. 2,334,011, dated November 9, 1943, Serial No. 380,021, February 21, 1941. Application for reissue January 29, 1947, Serial No. 724,939

14 Claims. (Cl. 250—6)

1. In combination, a radio transmitter, a radio receiver, said transmitter and receiver being so spaced that waves from said transmitter arrive at said receiver principally by reason of reflection from the higher strata of the atmosphere, means to radiate from said transmitter a wave of constant intensity and to modulate the direction of propagation of said wave at a frequency modulated in response to a desired signal, said frequency being substantially higher than the highest frequency of said signal, whereby said wave appears at the location of said receiver with modulations of intensity in accordance with a function of said desired signal, means in said receiver responsive to said modulations of intensity for producing a wave whose frequency corresponds to the frequency at which the direction of propagation of said wave is modulated, and means responsive to frequency variations of said last means for reproducing said signal.



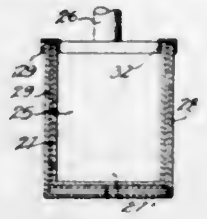
22,885

LEAKPROOF CONTAINER

Jack Press, Rahway, N. J.

Original No. 2,301,580, dated November 10, 1942, Serial No. 309,225, December 14, 1939. Application for reissue September 16, 1943, Serial No. 502,697

3 Claims. (Cl. 93—94)



1. In the method of forming a leak-proof container, the steps consisting in shaping a liner to the shape of the container, coating the outer surface of the liner with a leak-proofing material and rotating the coated liner at high speeds for removing excessive leak-proofing material and uniformly distributing the same over the liner.

3. In the method of forming a leak-proof container, the steps consisting in shaping a liner to the shape of the container, coating the outer surface of the liner with leak-proofing material and rotating the coated liner at high speeds for removing excess leak-proofing material and uniformly distributing the same over the liner, and applying sheet material of the cardboard type to the formed liner to provide a container body enclosing the formed liner and the leak-proofing film thereon within said container body.

PATENTS

GRANTED MAY 27, 1947

2,420,998

PROCESS FOR FERMENTING CARBOHYDRATES TO PRODUCE BUTANOL AND ISOPROPANOL

Samuel C. Beesch and David A. Legg, Philadelphia, Pa., assignor to Publicker Industries Inc., a corporation of Pennsylvania

No Drawing. Application July 27, 1944,
Serial No. 546,904
9 Claims. (Cl. 195—44)

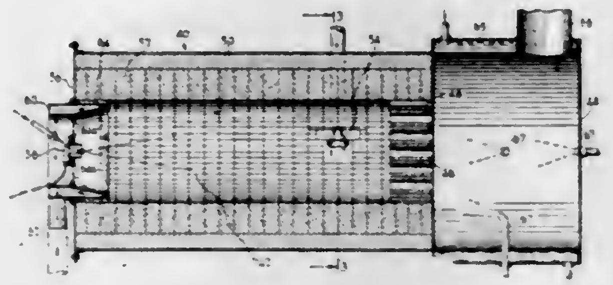
1. A process for producing butyl and isopropyl alcohols which comprises forming an aqueous mash containing a carbohydrate, of the group consisting of cereals and sugars and containing assimilable nitrogen, inoculating the mash with a bacterial culture containing Clostridium amylosaccharo butyl-propylicum, and incubating said inoculated mash at a temperature and for a time adequate to permit fermentation thereof.

2,420,999

APPARATUS FOR THE MANUFACTURE OF AMORPHOUS CARBON

Joseph W. Ayers, Easton, Pa., assignor, by direct and mesne assignments, to Phillips Petroleum Company, Bartlesvillé, Okla., a corporation of Delaware

Application August 11, 1942, Serial No. 454,441
19 Claims. (Cl. 23—259.5)



1. Apparatus for producing finely divided carbon comprising a retort having a cylindrical heat-insulating heat-radiant side wall closely surrounding and defining an elongated reaction zone adapted to be maintained at hydrocarbon cracking temperatures, an end wall at the front of said zone having coaxially with said side wall a hydrocarbon injector adapted to supply a stream of hydrocarbons axially into said zone, air introduction means including an annular air inlet surrounding said injector adapted to provide in said zone an annular air stream surrounding the hydrocarbon stream so that the hydrocarbons and the air of said streams may mingle and react within said zone, said annular inlet having coaxial annular air-guiding elements spaced apart in radial direction and relatively adjustable in axial direction, at least one of said elements having a plurality of annular surfaces disposed at different angles to its axis and operative in different positions of relative axial adjustment of said elements to impart predetermined different angles of entrance to said annular air stream in respect to the axis of said reaction zone, and means to set said elements in any selected one of said positions whereby to change the location of reactions between the air and hydrocarbons within said zone, a heat-radiant refractory wall across the rear of said zone having passageway therein for discharging reaction products from said zone, a heat-dissipating enclosure extending beyond the last recited wall in communication with said passageway through which to pass and in which to cool the discharged products, and means beyond and connected with said enclosure for collecting carbon from said products.

2,421,000

TEXTILE DECORATING COMPOSITION

Edward Armatys, New York, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application October 30, 1943,
Serial No. 508,390
3 Claims. (Cl. 260—18)

1. A stable, coloring matter-containing water-in-lacquer emulsion for use in textile decorating, the lacquer phase of which comprises a vaporizable water-immiscible organic solvent containing, as an emulsifying and stabilizing film-forming material, the reaction product formed by condensing, at a temperature on the order of 90 to 110° C., about 5 to 25 parts by weight of formaldehyde with 100 parts by weight of the addition product of an unsaturated fatty oil and 5 to 30% of oil weight of an alpha-olefinic dicarboxylic acid, said reaction product being compatible with and soluble in said organic solvent.

2,421,001

COATING COMPOSITION COMPRISING CELLULOSE-ACETO-PROPIONATE AND AN ALKYD RESIN

Harry K. Ash, Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application July 1, 1943,
Serial No. 493,113
1 Claim. (Cl. 260—16)

A stripping lacquer which will deposit a permanently strippable film at least 1 mil thick in a single spray application and which is characterized by a viscosity of about 60 seconds in a No. 4 Ford cup at 70° F., which consists essentially of a binder comprising the following ingredients in parts by weight:

Cellulose aceto-propionate of approximately 15.5% acetyl and 31.5% propionyl content	7.35
Alkyd resin	7.35

and a solvent for such binder comprising the following ingredients in parts by weight:

Butyl acetate	45.00
Ethyl acetate	35.30
Hydroxyethyl acetate	5.00

said alkyd resin being prepared by reacting the following ingredients in parts by weight:

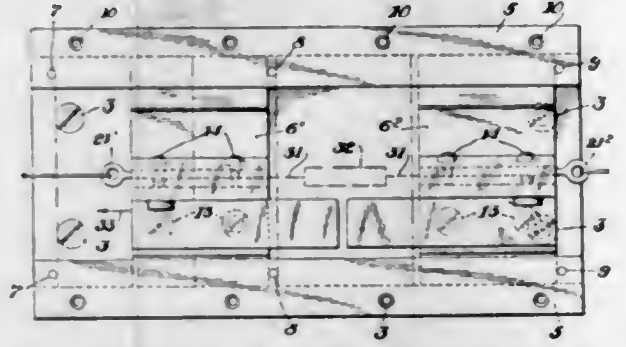
Sebacic acid	37.5
Succinic anhydride	28.6
Ethylene glycol	19.3
Glycerol	14.6

2,421,002

TENSILE STRENGTH TESTING APPARATUS

Albert L. Babcock, Newark, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application April 23, 1945, Serial No. 589,815
3 Claims. (Cl. 73—95)



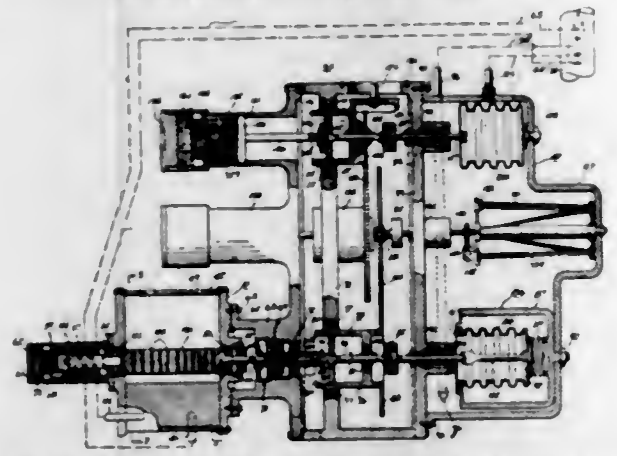
1. In an apparatus for testing the tensile strength of an element, oppositely positioned movably mounted means for respectively clamping the ends of said element, said element serving as the connecting means between said clamping means, means for pulling one of said clamping means in one direction and means for exerting a predetermined constant force on the other of said clamping means immediately upon moving of said first clamping means in the opposite direction.

2,421,003

FLUID FLOW RESPONSIVE DEVICE

Thomas A. Baker, Logansport, Ind.

Original application May 12, 1942, Serial No. 442,711. Divided and this application September 23, 1942, Serial No. 459,410
12 Claims. (Cl. 73—205)



8. In an air device including a conduit through which the air flows, the improvement of a mechanism for giving the weight rate of flow of the air comprising, in combination, first means responsive to the velocity pressure of the air in the conduit, a first member actuated by the velocity pressure means, a resultant member for giving the weight rate of flow, variable drive means for transmitting movement from the first member to the resultant member, said variable drive means including three variable drive units, each said variable drive unit, including rotatable means, shaft means disposed for both axial and rotational movements and motion transmitting means between the shaft means and the rotatable means to translate the axial motion of the shaft means into rotary motion of the rotatable means to vary the angular relationship between the shaft means and the rotatable means, means responsive to the temperature of the air for operating the shaft means of the first of said units in an axial direction and thereby modifying the first of said units to compensate for temperature changes, means responsive to the humidity of the air for operating the shaft means of the second of said units in an axial direction and thereby modifying the second of said units to compensate for humidity changes, and means responsive to the absolute pressure of the air for operating the shaft means of the third of said units in an axial direction and thereby modifying the third of said units to compensate for absolute pressure changes.

2,421,004

MINERAL OIL COMPOSITION

Henry G. Berger, Glen Rock, and Everett W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company Incorporated, a corporation of New York

No Drawing. Application August 3, 1944,
Serial No. 547,981
11 Claims. (Cl. 252—33.4)

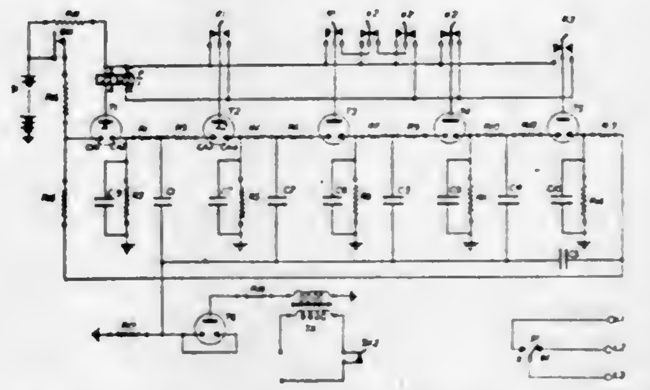
1. An improved mineral oil composition comprising a viscous mineral oil fraction having in admixture therewith: a minor proportion, from about 0.5 per cent to about 10 per cent, of an oil-soluble salt characterized by detergent action in oil; and a minor proportion, from about 0.05 per cent to about 5.0 per cent, of an oil-soluble, phosphorus- and sulfur-containing reaction product obtained by reaction of phosphorus pentasulfide and a hydrocarbon stock at a temperature between about 125° C. and about 200° C. for a relatively short time, said hydrocarbon stock being characterized by an olefin content of from about 3 per cent to about 7 per cent and an aromatic content of from about 40 per cent to about 60 per cent, and the said phosphorus pentasulfide representing from about 1 per cent to about 8 per cent by weight of the said hydrocarbon stock.

2,421,005

CIRCUIT FOR COUNTING ELECTRICAL IMPULSES

Frederick Harry Bray and Leslie Ronald Brown, London, England, assignors to Standard Telephones and Cables Limited, London, England, a company of Great Britain

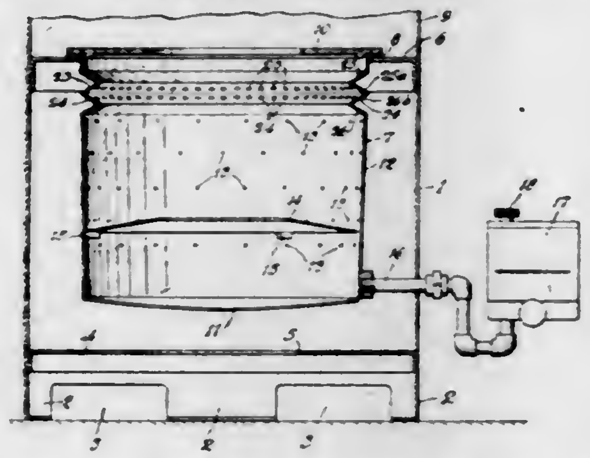
Application June 8, 1944, Serial No. 539,374
In Great Britain June 11, 1943
2 Claims. (Cl. 179—175.2)



1. An impulse counting system including a chain of gas-filled tubes, each tube having a cathode, anode and auxiliary discharge initiating electrode, a pair of series-connected resistances coupling the cathode of one tube to the auxiliary electrode of the next tube in the chain, a condenser between the junction of said two resistances and a common terminal, a resistance and condenser in shunt between each cathode and ground, a source of direct current potential having its negative terminal grounded and its positive terminal connected to each anode, a load

resistance connected between said common terminal and ground, an electron discharge device having cathode and anode with said cathode connected to said common terminal, a source of sinusoidal alternating current connected between ground and anode of said electron discharge device and means for establishing a discharge through said electron discharge device at a predetermined time during the positive portion of each alternating current cycle to generate a voltage surge between ground and said common terminal, said counting system being adapted to operate on a predetermined number of said alternating current cycles.

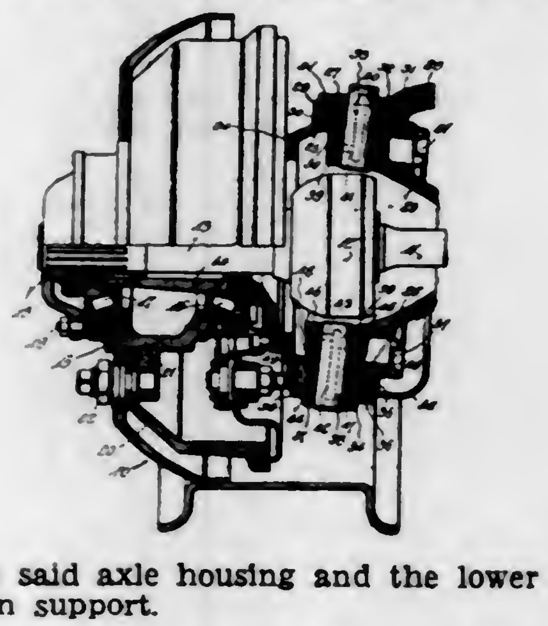
2,421,006
HYDROXYLATING POT TYPE BURNER
James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application November 15, 1943, Serial No. 510,303
3 Claims. (Cl. 158—91)



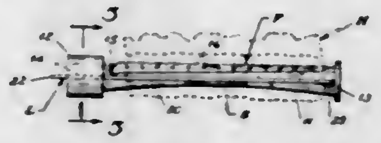
3. A burner pot for pot type burners having an open end and a generally cylindrical circumferential wall, said circumferential wall having therein a plurality of primary air inlet apertures spaced circumferentially about the wall and located at various distances from the end wall, said circumferential wall having adjacent wall portions located within the cylindrical outline of the pot but inclined inwardly away from each other, said inclined wall portions each having a row of air inlet apertures extending thereabout, the axes of the apertures of said rows of air inlet apertures converging, and means for delivering a liquid fuel to the interior of the pot, said last mentioned rows of air inlet apertures being located between the primary air inlet apertures and the open end of the pot.

2,421,007
VEHICLE STEERING SPINDLE MOUNTING
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application March 6, 1944, Serial No. 525,221
9 Claims. (Cl. 280—96.1)

1. In combination with a vehicle axle housing provided in one end thereof with diametrically aligned upper and lower trunnion pin receiving openings, bearing sleeves lining said openings, a steering wheel spindle, diametrically opposed trunnion pin supports rigidly mounted on the inner end of said spindle and positioned at the outer side of the axle housing, an elongated trunnion pin having the major portion thereof rigidly fixed in each of said supports, said trunnion pins being of substantially equal length and of the same uniform diameter and each having a minor cylindrical end portion thereof journalled by means of one of said sleeves in one of said openings in the axle housing, and a thrust bearing between said axle housing and the lower trunnion pin support.



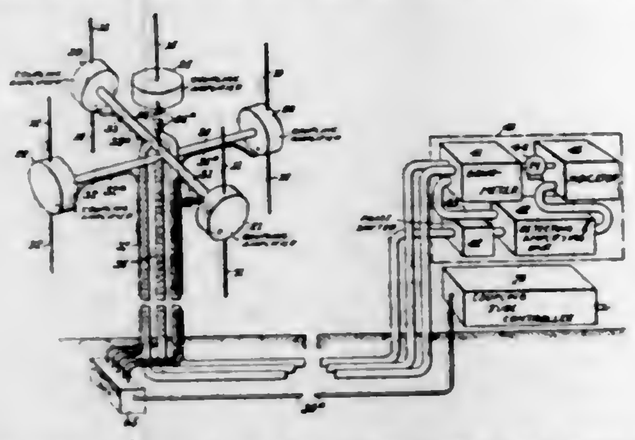
2,421,008
HAIR-WAVING ROD
Roy F. Burch, Sr., Denver, Colo.
Application November 9, 1944, Serial No. 562,609
6 Claims. (Cl. 132—34)



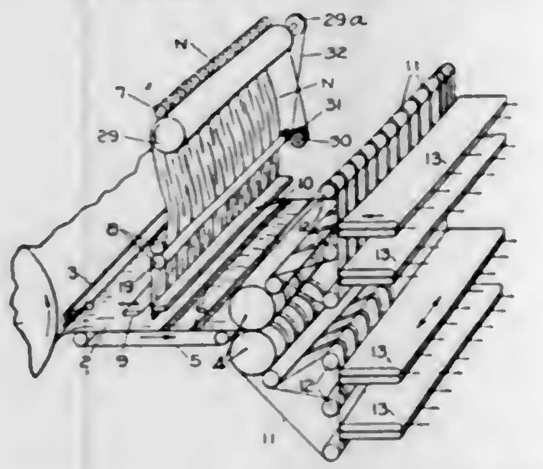
5. A rod for cold process hair waving, comprising a body, inclusive of headed end portions and a connecting shank portion, one said headed portion being cylindrical and the shank intermediate said end portions narrowing to a diameter substantially less than its diameter at its ends, clamping means arranged to closely overhang a surface of the body and hold against slippage coils of hair wound about the narrow diameter of the shank, the cylindrical head having parallel bores extending lengthwise through said head, and a U-shaped member having its leg portion extending slidably through said bores parallel to the lengthwise axis of said shank and substantially spaced from the clamping means in a position to hold other convolutions wound about said coil and said clamping means, the cylindrical head portion being threadedly connected with the shank portion to permit limited rotation to vary the holding position of said U-member.

2,421,009
DIRECTION FINDING SYSTEM
Henri G. Busignies, Forest Hills, N. Y., and Avery G. Richardson, Boonton, N. J., assignors to Federal Telephone and Radio Corporation, a corporation of Delaware
Application April 23, 1942, Serial No. 440,154
9 Claims. (Cl. 250—11)

1. A direction finding system comprising a plurality of antenna elements arranged in a directive array, a direction finder receiver disposed at a distance from said antenna elements, a plurality of high frequency transmission lines smaller in number than the number of said elements extending from said receiver to said elements, a plurality of vacuum tube amplifiers connected to couple each of said elements to one of said lines at least two different ones of said elements being thereby coupled to a given one of said lines, means for supplying operating power to said amplifiers said means including separate conductors extending between the individual amplifiers and a remote control point, and switch means at said control point for individually opening said conductors to separately disable said amplifiers.



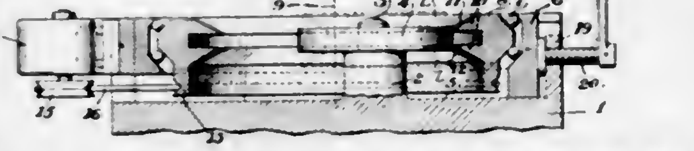
2,421,010
METHOD OF AND APPARATUS FOR PRODUCING NUBBED YARNS
Alexander Cavedon, Woonsocket, R. I.
Application May 31, 1941, Serial No. 395,988
3 Claims. (Cl. 19—145)



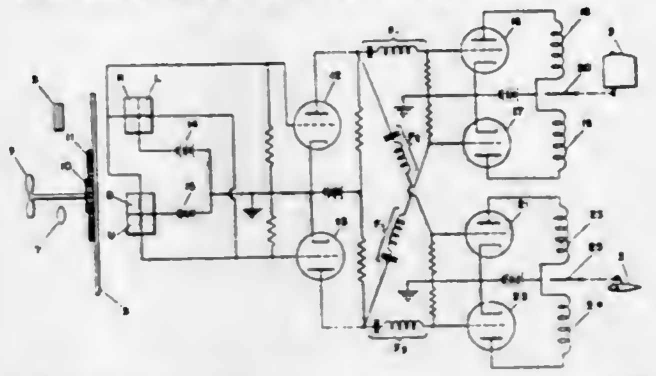
1. Apparatus for producing spotted yarns comprising in combination means for conveying a web of carded fibres in a substantially horizontal plane from a doffer, with the carded fibres extending generally in the direction of movement of said web, means for supporting a supply of fibrous nub material in lap sheet form, adjacent to said web, means for cutting continuous strips from said lap and depositing said strips at regular intervals directly upon said moving carded web, with the strip fibres approximating the arrangement and condition of the underlying web fibres, and means for dividing and condensing said lap strips simultaneously with said carded web to produce spotted yarns, each having equal portions of said strips incorporated therein at regular intervals.

2,421,011
METAL-CUTTING SYSTEM
Paul Georges Chevigny, New York, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application October 16, 1944, Serial No. 558,947
17 Claims. (Cl. 164—60)

1. A method of laterally splitting a metallic disc element inwardly from its circumferential face comprising the steps of applying an inwardly curved cutting element to said face, rotating one of said elements, producing relative transverse movement between the cutting edge of said cutting element and the circumferential face of said disc element during rotation of at least one of said elements, and continuing said rotary movement of said one of the elements until said disc element is split a desired depth.

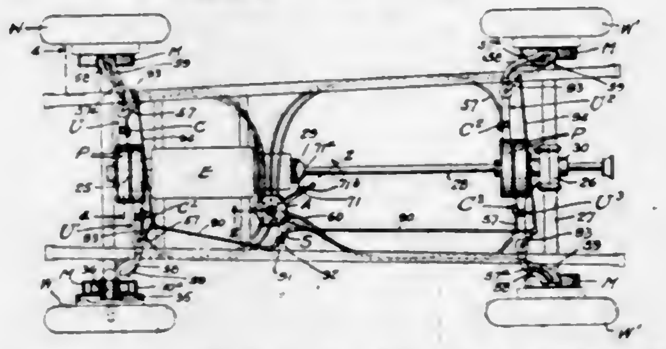


2,421,012
HOMING SYSTEM
Thornton W. Chew, United States Navy
Application December 10, 1945, Serial No. 634,135
16 Claims. (Cl. 250—41.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A system for steering an object toward a target comprising photo-cells disposed to generate signals for effecting up-down and right-left steering control, and an optical system for impressing radiation from the target on said photo-cells having a wider angle of view in the horizontal plane than in the vertical plane.

2,421,013
HYDRAULIC DRIVING, BRAKING, AND FREE-WHEELING MECHANISM FOR VEHICLES
Ralph E. Cornwell, La Canada, Calif.
Application April 20, 1942, Serial No. 439,680
6 Claims. (Cl. 60—53)

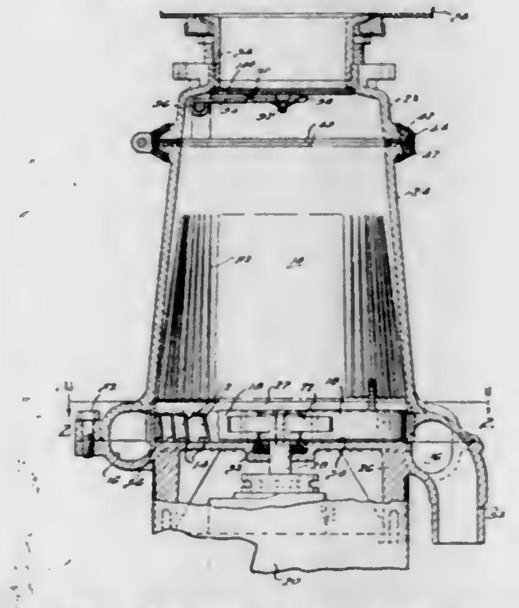


1. Hydraulic driving, braking and free wheeling mechanism for vehicles comprising: positive displacement hydraulic motors directly connected to the vehicle wheels; positive displacement hydraulic pumps, one for each motor; means by which said pumps are adapted to be driven from the prime mover of the vehicle; means defining a liquid circuit between each motor and the respective pump, for circulation of liquid by the pumps to the motors to drive the vehicle; control means correlated with said pumps by which the circulation of liquids from the pumps can be variably restricted or prevented to the motors to variably brake the wheels, the preventing of liquid flow from the pumps to the motor also preventing flow from the motor to

the pump for hydraulically locking the motor; and control means correlated with the motors and co-actable with the last said means to confine the liquid in idling circuits in the respective motors for free wheeling operation of the vehicle.

2,421,014
GARBAGE GRINDER OF THE VERTICAL AXIS ROTARY HAMMER TYPE

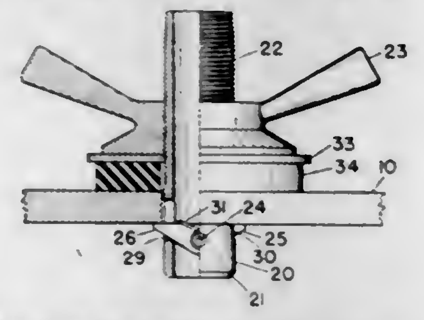
George R. Coss and Kemper M. Hammell, Detroit, Mich., assignors to Eureka Williams Corporation, a corporation of Michigan
Application November 18, 1944, Serial No. 564,118
9 Claims. (Cl. 241—46)



2. Garbage disposal apparatus comprising a generally cylindrical vertically extending chamber provided at its bottom periphery with cutting teeth and a discharge outlet for reduced material, power driven rotary means in the bottom of said chamber for impelling material against said teeth, said rotary means comprising a hub of materially less size than the bottom of said chamber and arranged at the center thereof, a plurality of radially extending hammers, each pivotally connected to said hub and adapted to swing in a plane normal to the axis of rotation of said hub, said hub and hammers being formed and arranged so that said hammers may fold back against said hub in a direction opposite the direction of rotation thereof, said hammers having upwardly projecting agitators intermediate the ends thereof.

2,421,015
SALVAGE DEVICE

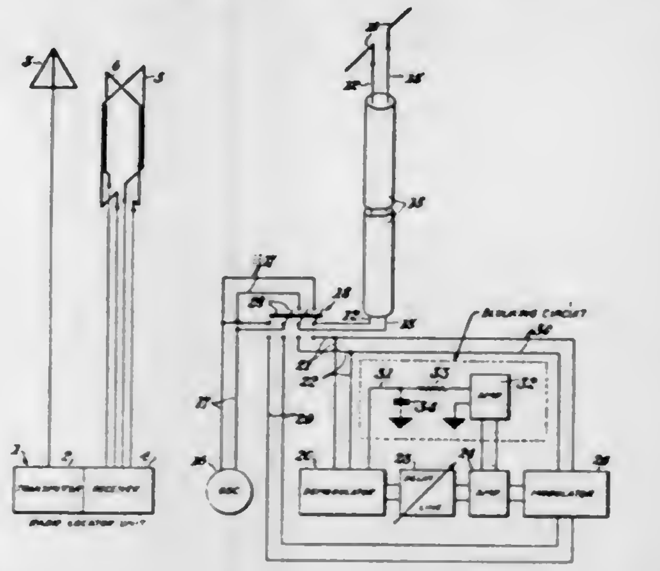
Harold B. Davidson, United States Navy
Application August 1, 1945, Serial No. 608,329
1 Claim. (Cl. 285—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



Means for connecting a pipe through a plate comprising a pipe end adapted to extend through an opening in the plate, said pipe end being provided with diametrically opposed elongated apertures and a second pair of apertures, substantially ninety degrees from said first pair, and inwardly of the elongated apertures toward the end of the pipe, a hinge pin supported in said second pair of apertures, lugs pivoted on said hinge pin and having their ends movable into said elongated apertures, a spring coiled about said hinge pin and having extending arms urging said lugs into expanded position against the end walls of said elongated apertures, said pipe end being threaded beyond all said apertures, a winged nut threaded thereon, and sealing washer means between said nut and the outer side of said plate, whereby tightening of said nut is effective to draw the ends of said lugs into binding engagement with the inner side of said plate and to provide a sealed connection between said pipe and said plate.

2,421,016
RADAR TESTING APPARATUS

Edmond M. Deloraine and Emile Labin, New York, N. Y., assignors to Federal Telephone and Radio Corporation, a corporation of Delaware
Application May 25, 1942, Serial No. 444,362
8 Claims. (Cl. 250—1.50)

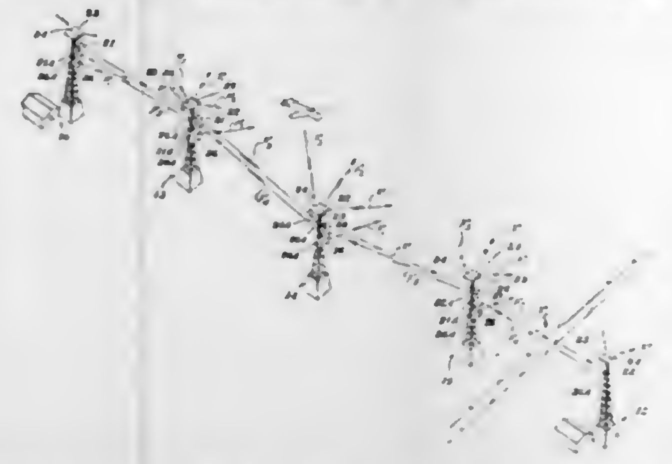


7. The method of testing the calibration of a radio locator unit of the character used for transmission of radio signals and for the reception of echoes produced by obstacles reflecting such signals comprising tuning the unit by generating oscillating energy waves at a desired frequency in the vicinity of the unit, operating the unit to transmit a radio signal, demodulating the signal, retarding by a predetermined amount the modulating component of the signal, modulating the generated energy waves by the retarded modulating component of the signal to produce predetermined echo effects for reception by the locator unit, and calibrating the locator unit according to the predetermined retardation of the echo effect.

2,421,017
COMMUNICATION AND GUIDING SYSTEM

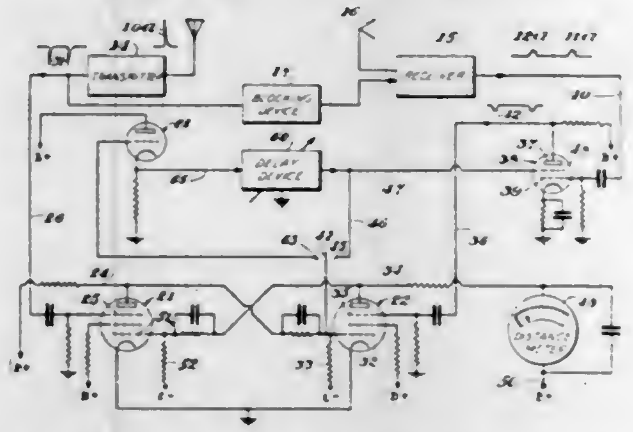
Edmond M. Deloraine, New York, N. Y., and Paul R. Adams, Cranford, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application May 5, 1944, Serial No. 534,284
37 Claims. (Cl. 250—11)

1. A radio beacon system for guiding craft provided with switching apparatus along a predetermined course, comprising guiding radio beacon means arranged at spaced points along said course and aligned to provide radiation patterns overlapping along said course, successive ones of said beacons having different signal characteristics, marker beacon means arranged in the area of overlap of said guiding beacon radiation patterns adjacent each of said points, and means for applying signal energy of predetermined signal characteristics to said marker beacon means for operating switching apparatus on said craft.



2,421,018
RADIO DETECTION SYSTEM

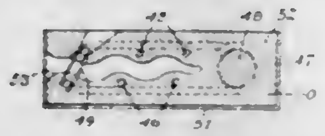
Louis A. de Rosa, Staten Island, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J., a corporation of Delaware
Application February 27, 1943, Serial No. 477,354
8 Claims. (Cl. 250—1.66)



8. A time measuring apparatus comprising means for generating a radiation pulse, a time measuring device, means responsive to generation of said radiation pulse for initiating operation of a measuring device, means for terminating operation of said measuring device on application thereto of a second pulse, and means for rendering inactive said means last mentioned for a predetermined time interval after generation of said radiation pulse.

2,421,019
SUPPORTING FRAME FOR ARTICLES OF FOOTWEAR

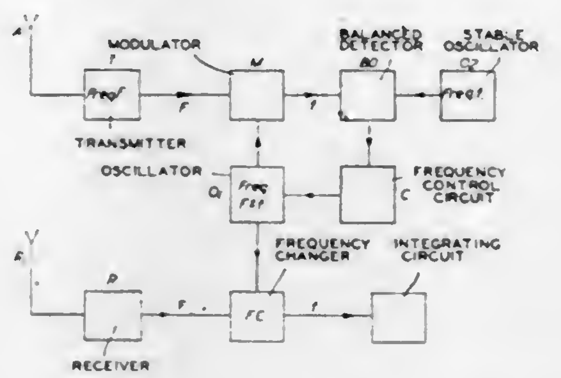
William H. Doherty, Elmhurst, N. Y.
Application August 30, 1945, Serial No. 613,529
5 Claims. (Cl. 36—35)



1. A heel for an article of footwear having a spring frame member embedded therein, said frame member comprising the upper and lower parts joined at the front of the heel and said heel having a hollow portion between said upper and lower frame part.

2,421,020
DETECTION OF OBSTACLES BY ELECTROMAGNETIC WAVES

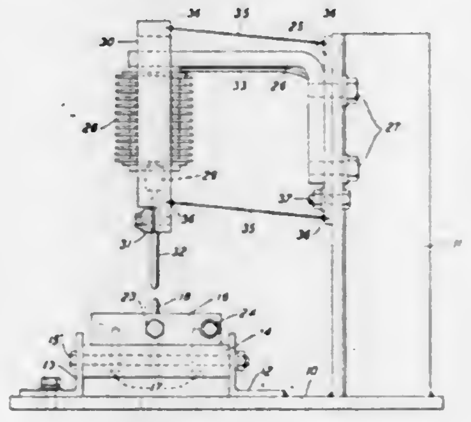
Charles William Earp, London W. C. 2, England, assignor to Standard Telephones and Cables Limited, London, England, a British company
Application September 9, 1942, Serial No. 457,787
In Great Britain March 11, 1941
9 Claims. (Cl. 250—1.66)



1. A system for the detection of obstacles comprising means for transmitting radio pulses comprising short trains of high frequency electromagnetic waves of random phase, means for receiving said waves after reflection by an obstacle, automatic phase correcting means for correcting said received waves to provide pulses consisting of trains of high frequency waves of stable high frequency phase and an integrating circuit for said pulse trains.

2,421,021
SPOT-WELDING MACHINE

Walter B. Ellwood, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 2, 1945, Serial No. 580,670
10 Claims. (Cl. 219—4)



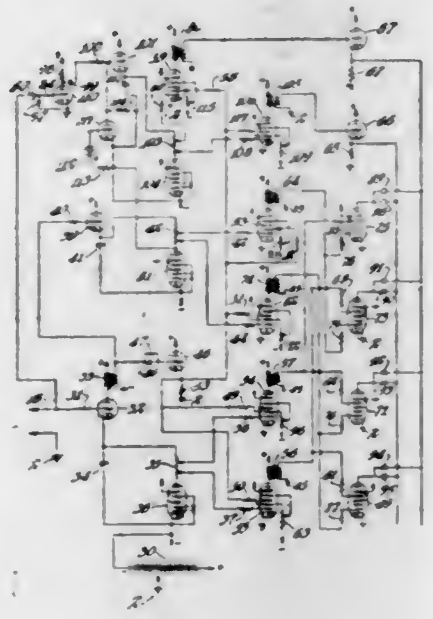
1. An electric spot-welding machine comprising a base, an electrode mounted on said base, a second electrode, means for moving said second electrode toward and away from said first electrode, and a pair of parallelopipedon springs for guiding the movement of said second electrode.

2,421,022
DURATION IMPULSE RECEIVER

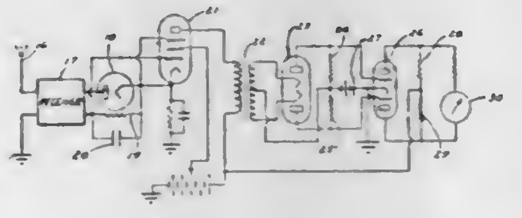
Oliver T. Francis, Renville, Minn.
Application January 4, 1945, Serial No. 571,315
17 Claims. (Cl. 177—353)

13. In an electric circuit, means for initiating a plurality of varying voltages at time displaced intervals, a plurality of electroresponsive devices, and means for operating any one of said devices

depending on the combination of the instantaneous values of said voltages at a predetermined time subsequent to the initiation of one of said variable voltages.



2,421,023
MEANS FOR DEFINING RADIO COURSES
Frederick W. Frink, East Orange, N. J., assignor to Federal Telephone and Radio Corporation, a corporation of Delaware
Application March 10, 1942, Serial No. 434,067
5 Claims. (Cl. 250—11)



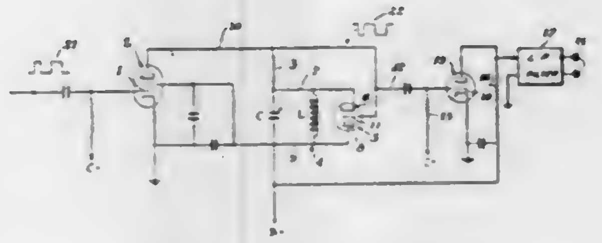
1. Radio course detection apparatus comprising receiving means including means for detecting the envelope of received wave trains, differentiating means coupled to said detecting means, limiting means comprising a pair of negatively biased electron discharge tubes connected in push-pull and having an input circuit coupled to said differentiating means and an output circuit, and indicating means connected to said output circuit and discriminatingly responsive to the average magnitude of signals of one polarity and to the average magnitude of signals of opposite polarity.

2. Apparatus for defining a radio course comprising means for generating a first series of signals characterized by a relatively slow increase and a relatively fast decrease in magnitude and means for generating a series of signals characterized by a relatively fast increase and a relatively slow decrease in magnitude, a source of carrier energy, means for modulating said carrier energy with output energy from said first-mentioned generating means, means for modulating said carrier energy with output energy from said second-mentioned carrier means, and radiating means coupled to each of said modulating means and radiating output energy from said first-mentioned modulating means in one direction and output energy from said second-mentioned modulating means in another direction.

2,421,024
LINEAR POLYMER CONTAINING CYCLIC IMIDE GROUPS
Carl J. Frosch, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 24, 1942, Serial No. 435,966
14 Claims. (Cl. 260—78)

1. A process for producing a linear polymer containing cyclic imide groups in its molecular chains comprising heating under linear condensation polymerizing conditions according to which reaction by-products are removed a reaction mixture essentially comprising tricarballylic acid, and a bifunctional reactant which has as one functional group a primary amino group and as the other functional group a group chosen from the class consisting of an alcoholic hydroxyl group and amino groups having at least one replaceable hydrogen atom attached to the nitrogen atom and which has its functional groups separated by at least two carbon atoms and is free of groups other than its functional groups which are reactive with carboxyl, amino or hydroxyl groups, said reactants being present only in substantially such proportions that only two functional groups of said bifunctional reactant are present for each three carbozyl groups of said acid.

2,421,025
DEMODULATOR SYSTEM
Donald D. Grieg, Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application July 29, 1944, Serial No. 547,124
7 Claims. (Cl. 250—27)

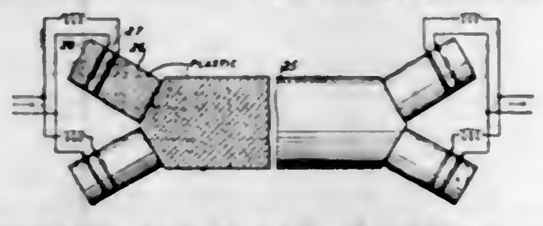


1. In a demodulator system having a resonant circuit the method of demodulating a pulse train the pulses of which are modulated in width in accordance with a given signal, comprising shock exciting said resonant circuit to produce periodic undulations by means of the leading and trailing edges of the pulses of said pulse train, damping out all undulations but those occurring during the duration of each of said pulses and one undulation following the trailing edge thereof so that undulations produced by one pulse will not affect the undulations produced by the next pulse, and threshold clipping said undulations at a level corresponding to the amplitude of said one undulation for at least one limit of pulse width modulation.

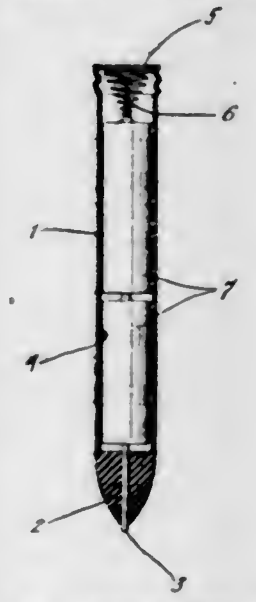
2,421,026
DELAY DEVICE
John A. Hall, Summit, and Warren P. Mason, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 8, 1943, Serial No. 493,856
8 Claims. (Cl. 178—44)

6. An electromechanical delay device comprising a plurality of pairs of transducers having

overlapping characteristics, a common solid transmission medium connecting said transducers and a separate stub branch of said transmission medium for each said transducer.



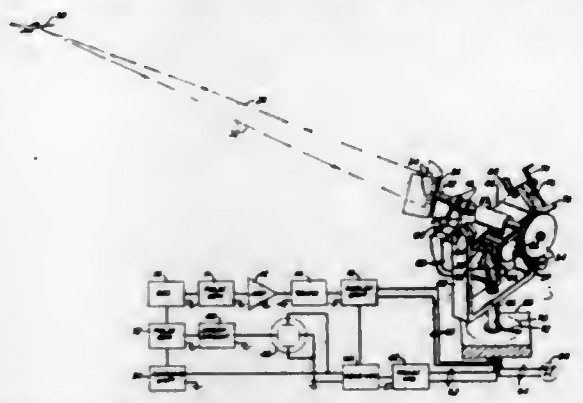
2,421,027
DEVICE FOR REMOVING THE TARNISH FROM SILVER AND THE LIKE
Herbert M. Isaacson, Buffalo, N. Y.
Application October 25, 1943, Serial No. 507,526
2 Claims. (Cl. 204—224)



1. A device for removing the tarnish from silverware and the like while immersed in an electrolytic bath, comprising a battery, an elongated tubular metal casing for said battery, an electrode projecting from one end of said metal casing, a body of insulating material interposed between said electrode and said one end of said metal casing and closing said one end of said metal casing and exposing a relatively small external area of said electrode, said metal casing having a relatively large exposed external surface to provide a second electrode, the negative terminal of said battery being connected with said first electrode and means within the casing connecting the positive terminal of said battery with said metal casing whereby upon immersing said metal casing in said bath and contacting said first electrode with said silverware a circuit is established through said silverware, electrolyte, electrodes and battery with only a small shunt current from said electrodes directly through said electrolyte.

2,421,028
WAVE REFLECTION AIRCRAFT DETECTOR USING ROTATING POLARIZATION
Archie P. King, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 24, 1942, Serial No. 466,725
4 Claims. (Cl. 250—1.60)

1. In a radio wave reflection aircraft detection system, an antenna system adapted to transmit and receive plane polarized waves, said antenna system being mounted on a rotatable shaft the axis of said shaft being coincident with the normal axis of radiation from said antenna system, a motor mechanically coupled to continuously rotate said shaft, a reference wave generator mechanically coupled to be driven by said motor, a radio transmitter, a radio receiver, a duplexing unit coupling said antenna system with said transmitter and said receiver and a phase indicator operatively connected with said generator and said receiver to provide indications of the phase relation of amplitude modulation of received reflected wave energy with respect to the reference generator wave.



2,421,029
STARTING MIXTURE
Sidney J. Magram, Baltimore, Md.
No Drawing. Application November 18, 1943, Serial No. 510,789
1 Claim. (Cl. 44—3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A priming composition for thermite mixtures consisting of approximately 57% of copper oxide, approximately 40% of metallic manganese, and approximately 3% of sulphur, the said composition having a reaction temperature of at least approximately 1400° C.

2,421,030
PROCESS FOR SYNTHESIS OF AMIDES
John E. Mahan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 10, 1945, Serial No. 615,346
14 Claims. (Cl. 260—561)

1. The process of synthesizing an amide from the corresponding nitrile which comprises contacting a mixture of said nitrile and water with a solid contact catalyst selected from the group consisting of active silica, active alumina, and natural and synthetic active combinations of silica and alumina, at an elevated temperature and at a pressure such as to maintain the reactants in liquid phase.

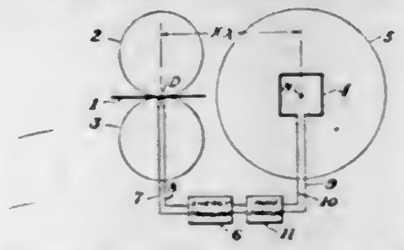
2,421,031
PROCESS FOR SYNTHESIS OF THIOAMIDES
John E. Mahan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 10, 1945, Serial No. 615,347
15 Claims. (Cl. 260—551)

1. The process of synthesizing a thioamide from the corresponding nitrile which comprises contacting a mixture of said nitrile and hydrogen sulfide with a solid contact catalyst selected from the group consisting of active silica, active alumina, and natural and synthetic active combinations of silica and alumina at an elevated temperature and at a pressure such as to maintain the reactants in liquid phase.

13. The process of synthesizing thioacetamide from acetonitrile which comprises contacting a mixture consisting of acetonitrile and hydrogen sulfide in which the molar ratio of acetonitrile to hydrogen sulfide is at least 2 to 1 with a synthetic silica-alumina gel catalyst at a temperature of from 480 to 500° F. and a pressure of approximately 1000 pounds per square inch gage.

2,421,032
UNIDIRECTIONAL ANTENNA

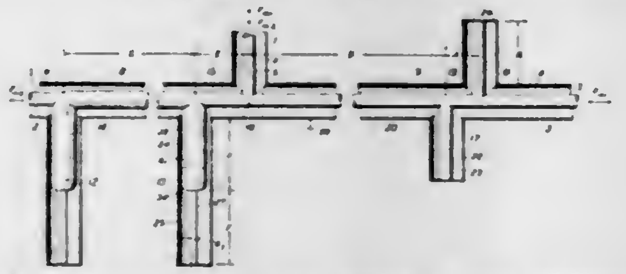
Nathan Marchand, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J., a corporation of Delaware
Application August 9, 1943, Serial No. 497,877
15 Claims. (Cl. 250—33)



1. An antenna system comprising a directional antenna element having a center of radiation, a non-directional antenna element having a center of radiation, said centers of radiation being spaced apart a distance between one-twelfth and one wave-length of the operating frequency in a direction normal to the principal plane of radiation of said directive antenna element.

2,421,033
WAVE TRANSMISSION NETWORK

Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 15, 1943, Serial No. 487,081
16 Claims. (Cl. 178—44)

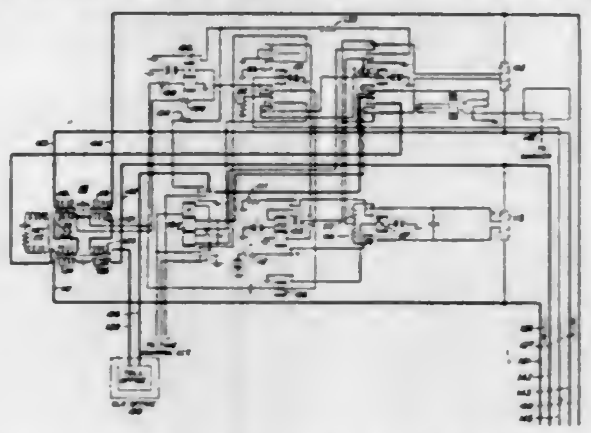


1. In combination, two wave filters connected at one end, one of said filters comprising a series impedance branch and a shunt impedance branch, said series branch being connected between said shunt branch and the junction of said filters and being constituted by a section of transmission line having a length approximately equal to an integral number of quarter wavelengths at the mid-band frequency of the other of said filters and said shunt branch comprising two tandem-connected sections of transmission line having different characteristic impedances and having their lengths and characteristic impedances chosen to make said branch antiresonant near the mid-band frequency of said one filter and resonant near said mid-band frequency of said other filter.

2,421,034
TELEPHONE SYSTEM

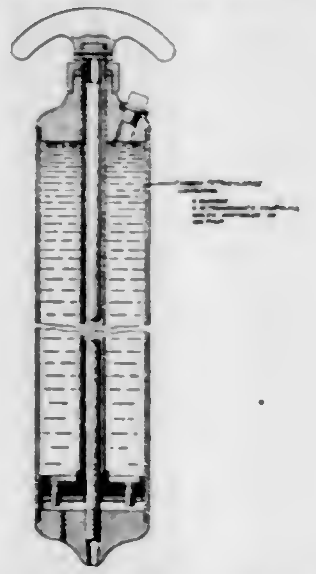
Burton McKim, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 18, 1944, Serial No. 550,071
21 Claims. (Cl. 179—27)

1. In a telephone office, a manually operable switchboard, trunks having four-wire transmission circuits arranged in two transmission channels terminating in jacks in said switchboard, a telephone circuit, cord circuits in said switchboard, each cord having multicontact plugs, for extending the four wires of said transmission circuits to said telephone circuit and from one four-wire trunk to another four-wire trunk, selectable voice amplifying repeaters and mechanism in said switchboard operable according to the character of the trunks connected to each plug of a cord circuit for responsively causing the selection and insertion of repeaters in each transmission channel of a trunk.



2,421,035
COMPOSITION FOR AND METHOD OF EXTINGUISHING FIRES

David A. McLean, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1942, Serial No. 446,472
6 Claims. (Cl. 252—8)

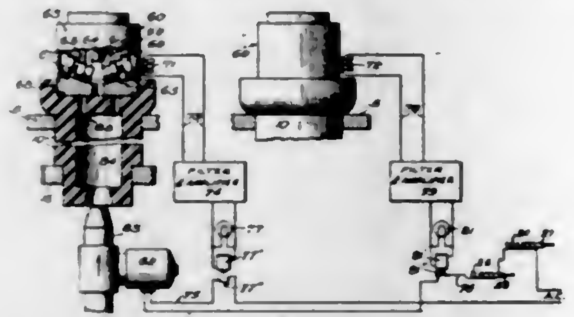


6. A volatile chlorinated carbon compound fire extinguishing fluid containing a small amount of a phosgene suppressing means dissolved therein, said phosgene suppressing means comprising a quinone in an amount between about .1 per cent and about 2 per cent by weight of the chlorinated carbon compound.

2,421,036
METHOD AND APPARATUS FOR TESTING CENTRIFUGALLY ACTUATED MEMBERS

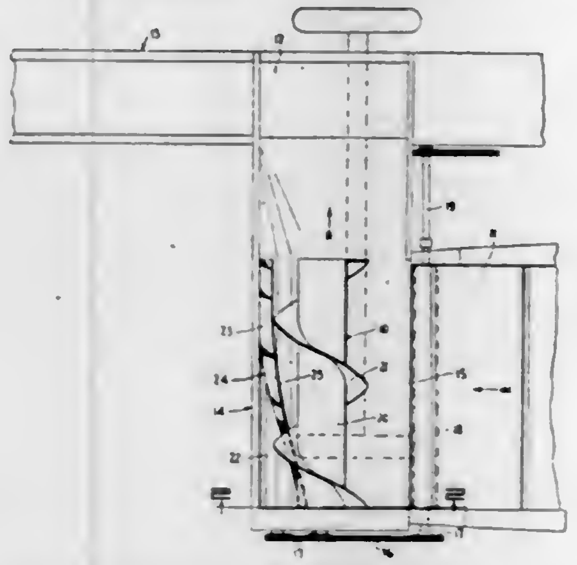
Leo T. Meister, Bradley Beach, N. J.
Application March 1, 1945, Serial No. 580,457
8 Claims. (Cl. 177—311)

1. An apparatus for testing the operation of centrifugally actuated magnetized elements, comprising means for rotating the elements at a speed to cause the elements to be actuated by centrifugal force, and electrical means disposed adjacent said elements whereby an electrical current will be induced in the electrical means by the elements, when flung outwardly by centrifugal force, to energize a visual indicator, forming a part of the electrical means and a filter interposed in the circuit of the electrical means for passing an electric current of a particular frequency to the visual indicator.



2,421,037
CROP CONVEYOR MECHANISM

Martin Ronning, St. Louis Park, Minn., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware
Application May 21, 1945, Serial No. 595,036
10 Claims. (Cl. 198—213)

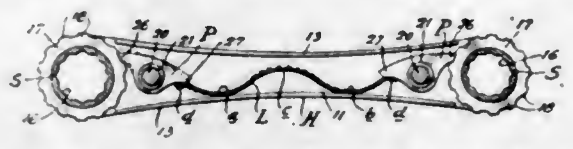


1. A crop conveyor comprising a housing, a rotary auger in the housing having a helical vane and adapted to receive crop material along one side and move the material lengthwise of the auger, and a helical stripper plate extending generally lengthwise of and substantially co-extensive with the auger, and positioned on the side thereof opposite to that at which the material is received, the said stripper plate being twisted in a direction opposite to that of the auger vane and having one edge disposed substantially throughout its length an equal distance from the outer edge of the auger vane, whereby the stripper plate will cross the flights of the auger vane at substantially right angles thereto.

2,421,038
WRENCH

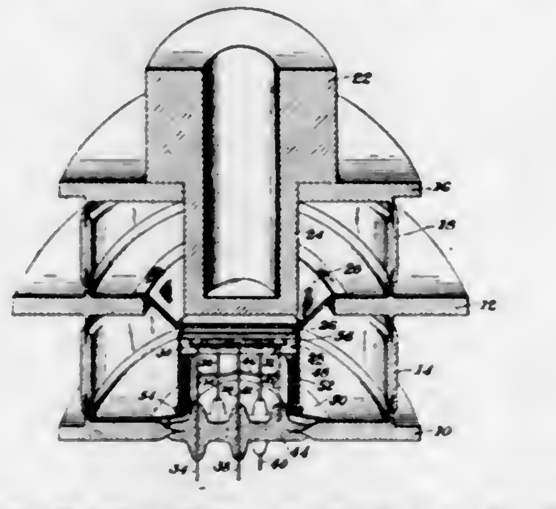
Edward Schultz, Chicago, Ill., assignor to The Nagel-Chase Mfg. Co., Chicago, Ill., a corporation of Illinois
Application June 9, 1944, Serial No. 539,425
1 Claim. (Cl. 81—61)

A wrench comprising a hollow handle having an interior chamber and provided at both ends with transversely aligned bearings, transverse fastening devices located adjacent said bearings, a pair of open-ended work engaging sockets journaled in said bearings and provided intermediate their ends with ratchet bands having teeth, a pair of short pawls pivoted intermediate their ends on said fastening devices and consisting of an outer tooth-engaging portion and an inner heel, and a long leaf spring arranged within the chamber of the handle and of a width approximately that of the chamber and extending lengthwise of the handle from one pawl to the other, and consisting normally of an upwardly bowed central portion and end portions extending from the central bowed portion and arranged at an inclination and having their terminals bearing against the heels of the pawls at the lower surfaces thereof, said spring being retained in operative position solely by said pawls and the walls of the casing and maintaining the pawls in engagement with the ratchet teeth.



2,421,039
CATHODE STRUCTURE

Carl A. Segerstrom, Jr., Teaneck, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application January 31, 1944, Serial No. 520,383
21 Claims. (Cl. 250—27.5)



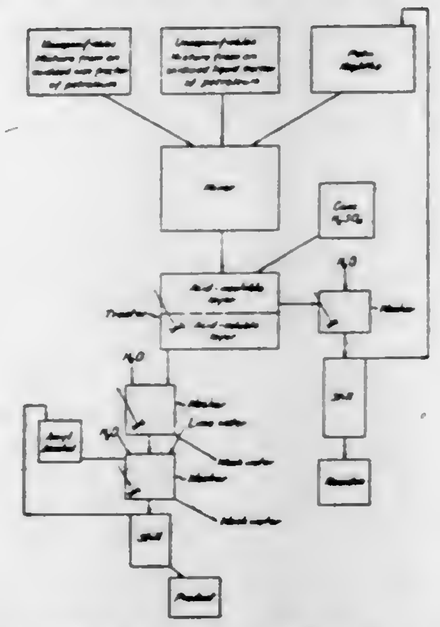
1. Cathode structure comprising, an insulating plate having an integral upstanding ring on one surface thereof, heating coils carried by said plate, a metal disk carried on said ring out of contact with said heating coils, an insulating base, and means including lead wires attached to said heating coils and metal disk at one end and passing through said insulating base near their other ends, supporting said insulating plate in spaced relation with said insulating base.

2,421,040
PROCESS OF OBTAINING POLAR-TYPE CORROSION-INHIBITING AGENTS SOLUBLE IN PETROLEUM LUBRICATING OILS

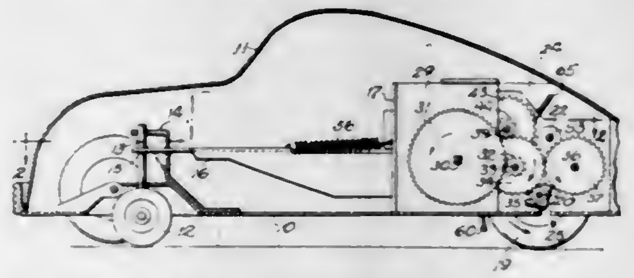
James E. Shields and Edward V. Reilly, Niagara Falls, N. Y., assignors to Alox Corporation, New York, N. Y., a corporation of New York
Application June 18, 1942, Serial No. 447,594
8 Claims. (Cl. 196—142)

1. Process of obtaining polar-type corrosion-inhibiting agents soluble in petroleum lubricating oils and insoluble in water from mixtures of substantially unsaponifiable oxygenated predomi-

nately aliphatic and saturated hydrocarbons derived from a petroleum fraction by the liquid-phase partial oxidation of the latter using an oxygen-containing gas as oxidizing means, which comprises extracting such mixture with concentrated sulphuric acid and separating sulphuric acid from the resulting sulphuric acid extract.



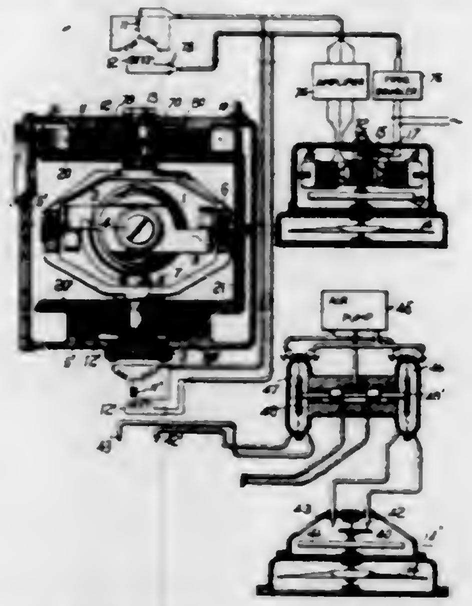
2,421,041
TOY VEHICLE
Arthur W. Swenson, Salem, Oreg.
Application May 9, 1945, Serial No. 592,880
12 Claims. (Cl. 46—213)



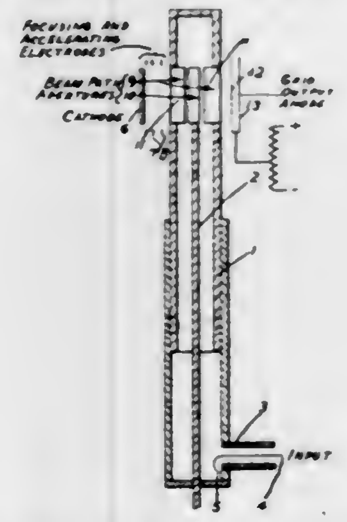
1. A toy vehicle having, in combination, a frame, a pair of rear drive wheels, a rear axle supporting said wheels and mounted on said frame for bodily movement longitudinally of the vehicle, at least one steering wheel supporting the forward end of said frame, a vertical shaft on the front of said frame connected to said steering wheel to actuate the latter, a power driven shaft mounted on said frame and extending transversely thereof, cams rotatable with said power driven shaft, followers for said cams mounted on said frame for movement longitudinally thereof, one being connected to said vertical shaft to rock the latter and steer the vehicle and the other being connected to said axle to shift the latter between two positions, and a drive connection between said power shaft and said axle including a reversing clutch operable to drive said axle in opposite directions respectively when the axle is disposed in said two positions.

2,421,042
SLAVE DIRECTIONAL GYROSCOPE
Herbert H. Thompson, Manhasset, N. Y., assignor to Sperry Gyroscope Company, Inc., a corporation of New York
Application December 21, 1942, Serial No. 469,771
11 Claims. (Cl. 33—222)

1. In a gyromagnetic compass system, the combination with a directional gyroscope having freedom about vertical and horizontal axes and a magnetic compass for establishing a reference direction, a transmitter controlled by the magnetic compass, repeater motive means at the gyroscope comprising vertical coaxial motive elements mounted on the vertical axis of the gyroscope and secured to planetary gears intermeshed with a third differential gear mounted for rotation on the horizontal axis of the gyro in the vertical ring thereof, said repeater motive means, upon relative displacement of the repeater motive means and said magnetic compass in azimuth, jointly applying a unidirectional torque about the horizontal axis of the gyroscope to cause precession in azimuth eliminating said displacement.

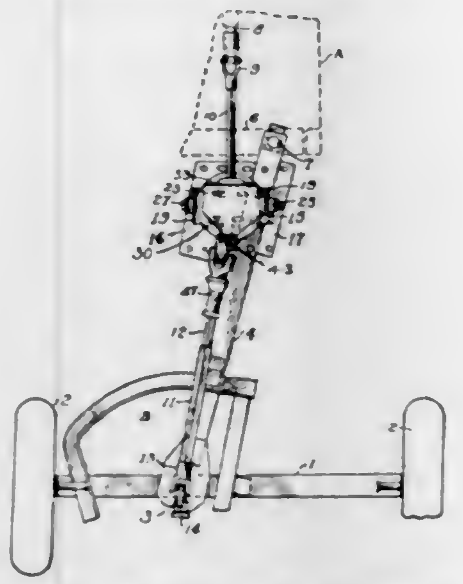


2,421,043
DETECTOR OF MODULATED CARRIER FREQUENCIES
Stanley Gordon Tomlin, London W. C. 2, England, assignor to Standard Telephones and Cables Limited, London, England, a British company
Application September 9, 1942, Serial No. 457,800
In Great Britain June 28, 1940
9 Claims. (Cl. 250—27)



1. Arrangement for detecting modulated carrier waves of very high frequency comprising an electron discharge tube including an electrode system for setting up an electron beam, a collector electrode and a grid electrode in the path of the beam, means for maintaining the electrodes at such potentials that the operating condition of the tube is at a curved part of the grid-voltage collector-current characteristic, means comprising a device resonant at the frequency of said carrier waves between said first-mentioned electrode system and said grid electrode for velocity modulating electrons approaching the grid electrode in accordance with the incoming modulated high frequency waves, and an output circuit connected to said collector electrode.

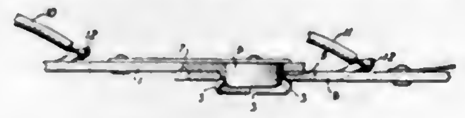
2,421,044
POWER TRANSMISSION MECHANISM
Wilhelm Vutz, Coldwater, Ohio, assignor, by mesne assignments, to Avco Manufacturing Corporation, a corporation of Delaware
Application July 23, 1943, Serial No. 495,855
20 Claims. (Cl. 180—14)



1. A power transmission assembly interconnecting a drive mechanism on a tractor unit with a driven mechanism upon a trailer unit which is flexibly connected to the tractor for unison advancement in varying degrees of relative unalignment while following an undulating path of travel, including right and left turns over uneven terrain, including a rigid rotary power shaft flexibly connected to one said mechanism, a telescopic power shaft flexibly connected to the other said mechanism, a coupling unit including two relatively rotatable housings interpivoted one to the other, with one of which one section of the telescopic shaft has rotary but non-reciprocatory connection, and with the other of which rotatable interpivoted housings the rigid rotary power shaft has axial reciprocatory engagement, a mounting carried by one of the interconnected units in which the interpivoted housings are mounted for unison rocking motion about an intermediate axis transversely disposed to the interpivotal axis of the housings, and a gear train including gears on the respective power shafts within the housings with which the respective shafts are connected and intermediate gears and connections for transmitting unison motion from the gear upon one shaft in one of the housings to the gear on the other shaft in the other housing in various positions of relative rotary and unison swinging adjustments of the housings of the coupling unit.

2,421,045
SOLDERLESS CONNECTION
Edward G. Walsh, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 19, 1945, Serial No. 617,333
5 Claims. (Cl. 173—324)

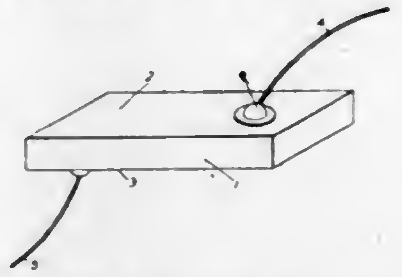
1. A fastening device for connecting an electrical conductor to a terminal member having an aperture therein comprising a clip member having an extruded eyelet for insertion in said aperture, a conductor attached to said clip member, a spring member attached to said clip and a knob attached to said spring formed to fit and enter into said eyelet to expand it in said aperture to securely hold the clip connected to the terminal to establish an electrical connection.



2,421,046
PLASTICIZED ETHYL CELLULOSE AND METHODS OF MAKING THE SAME
Arthur J. Warner, South Orange, and Willard de Camp Crater, Jr., New Brunswick, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 30, 1945, Serial No. 602,692
5 Claims. (Cl. 106—191)

1. A novel composition of matter comprising ethyl cellulose plasticized with a plasticizer selected from the group consisting of liquid dimer of alpha-methyl para-methyl styrene, solid dimer of alpha-methyl para-methyl styrene, liquid trimer of alpha-methyl para-methyl styrene, and hydrogenated liquid dimer of alpha-methyl para-methyl styrene with only the normally unsaturated side chain of said dimer being completely saturated with hydrogen.

2,421,047
METHOD OF ATTACHING WIRES TO METAL SURFACES
Henry Wolfson and Stanley Carden Shepard, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 5, 1944, Serial No. 521,291
In Great Britain February 22, 1943
4 Claims. (Cl. 113—112)

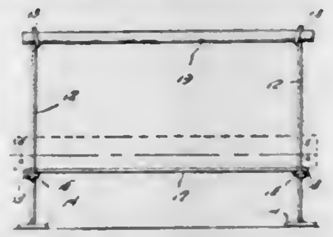


1. The method of attaching a wire to a metal surface which includes the steps of inserting the end of said wire into a flanged metal cup, sealing it therein with fusible metal, placing the cup and wire on the metal surface with the outer surface of the flange against said surface, and attaching said cup to said metal surface by melting said fusible metal, whereby it alloys with a portion of said surface.

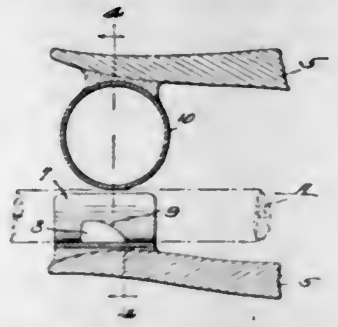
2,421,048
BERRY BOX CARRIER
Cornelius Bartsch, Van Nuys, Calif.
Application August 16, 1944, Serial No. 549,657
2 Claims. (Cl. 224—45)

1. In a berry box carrier, the combination, which comprises, spaced wire end frames, horizontal box-supporting wire elements associated with the lower ends of the frames, and a wood handle associated with the upper ends of said end

frames and with the ends thereof extending freely into loops formed in the upper ends of said end frames and shaped to correspond with the peripheral surface of the ends of said handle; said end frames having transverse horizontal wire members associated with the lower ends thereof providing mounting means for said horizontal box supporting elements and coacting with said horizontal box supporting elements providing a base for supporting said carrier on soft ground and the like.

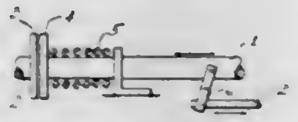


2,421,049
WIRE INSULATION CUTTING TOOL
Cleo D. Bell, Spokane, Wash.
Application February 12, 1945, Serial No. 577,460
1 Claim. (Cl. 30—91)



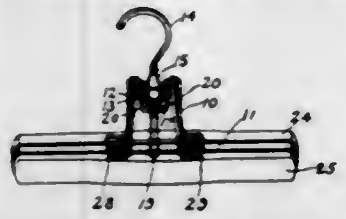
A wire insulation cutting tool, embodying pivotally connected members, an elongated trough-like guide member disposed adjacent to the free end of one of said pivoted members and being carried by the inner surface thereof, a cutting blade disposed within the guide member at a point intermediate the ends thereof, and a pressure ring carried by the cooperating pivoted member, the sides of said pressure ring being parallel to the sides of the guide member, presenting a curved friction surface adapted to engage the wire held within the guideway, whereby said blade is forced into the insulation of the wire when the pivoted members are forced together, cutting the insulation.

2,421,050
CLUTCH ACTUATOR
Hilarion Bibicoff, Belleville, Mich.
Application November 26, 1945, Serial No. 630,789
5 Claims. (Cl. 192—114)



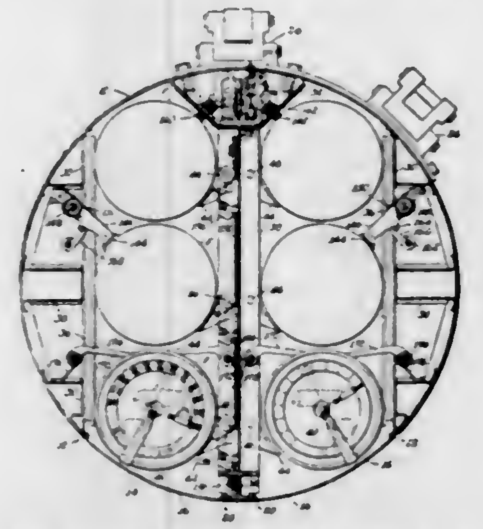
1. For use with a clutch which is normally caused to engage by a clutch engaging spring, and which has a personally operable disengaging means connected to it for overcoming said spring and causing clutch disengagement so long as a sufficient disengaging force is personally applied to said means in one direction, a device for neutralizing said clutch spring and for holding the clutch disengaged without requiring personal maintenance of a disengaging force on said means, said device comprising a disengaging spring releasably connected to said means and reacting against a suitable abutment, said device being movable at will into and out of a clutch spring neutralizing position, and an idle position where it has no effect on the clutch spring.

2,421,051
CLOTHES HANGER
Carl F. Brinkman, Milwaukee, Wis.
Application March 29, 1946, Serial No. 657,961
2 Claims. (Cl. 223—96)



1. In a device of the class described, a trouser hanger, a hanger hook for the same, substantially vertical wire frame members connecting the hook and the body of the hanger, a supplementary hanger comprising a plurality of plates pivoted interconnectedly at their ends and adapted to fold substantially on a plane, the center plate having a rectangular opening centrally therein adapted to engage about the said rods.

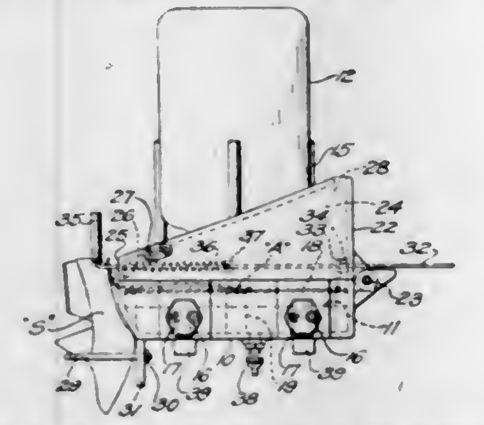
2,421,052
MAGAZINE
Joseph C. Cantley, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 19, 1944, Serial No. 559,450
16 Claims. (Cl. 89—1.5)



1. In an aircraft flare magazine, a container, means for supporting individually a plurality of flares in horizontal superposed relation in the container, means for successively releasing said supporting means, a pair of doors at the bottom of the container arranged to open upon impact therewith by a flare after it is released by the supporting means to permit egress of the flare from the container, springs normally maintaining said doors closed, and means arranged to act directly upon a flare supported by the lowermost supporting means to force said flare downwardly upon release of said lowermost supporting means.

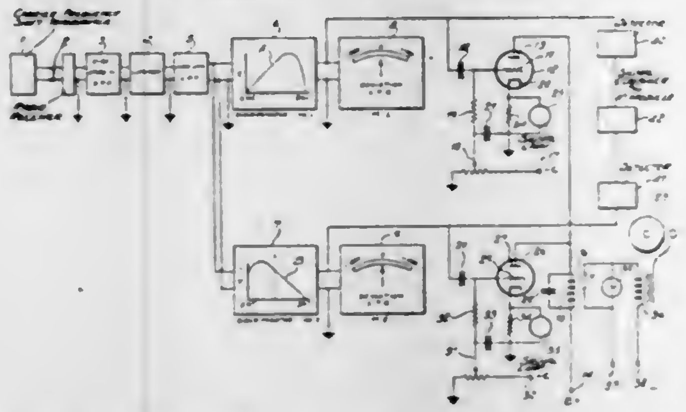
4. In an aircraft flare magazine, a container, a plurality of vertically spaced arms for supporting a plurality of flares in the container in horizontal superposed relation, means for retracting said arms sequentially thereby to permit dropping of the flares through the bottom of the container, means for temporarily supporting the flares in the container during the loading operation, and means for retracting said temporary supporting means and resetting the supporting arms after the loading of the container has been completed.

2,421,053
SOLE TREATING APPARATUS
William C. Card, Jr., Winthrop, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application March 7, 1945, Serial No. 581,371
4 Claims. (Cl. 12—1)



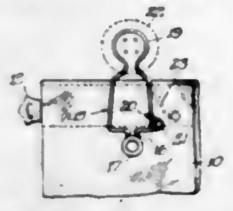
1. Apparatus for treating shoe soles with heated vapor, comprising a receptacle for containing a body of liquid, heating means for forming vapor from the liquid, a sole support mounted above the intended level of the surface of the body of liquid, means including a cover cooperating with said receptacle to form a chamber above said sole support, said cover being sloped upwardly to a portion at highest elevation and vented in the latter portion and the structure forming said chamber being provided with an air inlet passage, and means for heating said cover.

2,421,054
CARRIER-SHIFT SIGNAL CONTROL CIRCUITS
Reynold Sayre Chapin, Flushing, N. Y., assignor to Press Wireless, Inc., New York, N. Y., a corporation of Delaware
Application June 15, 1945, Serial No. 599,719
6 Claims. (Cl. 250—8)



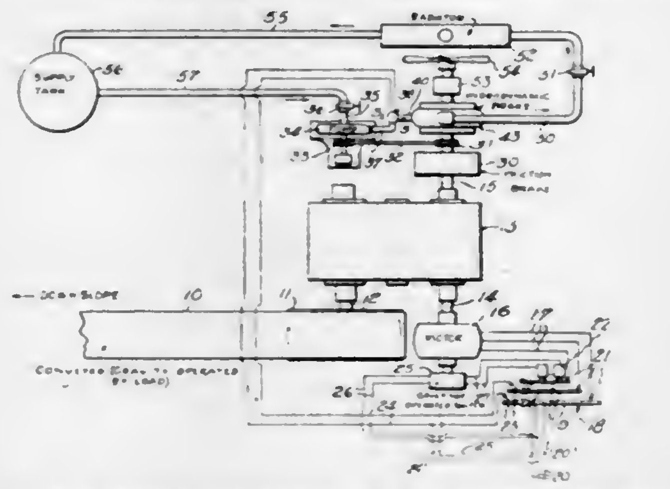
1. In a signalling system of the carrier frequency shift type, means to produce signals respectively above and below a mean frequency, receiving means tunable in the absence of intelligence signals to the mean frequency, a pair of discriminator networks upon which said frequency-shifted signals are impressed, one of said networks selectively attenuating one of said signals, the other of said networks selectively attenuating the other signal, means to produce a monitoring voltage when the mean frequency deviates in a positive direction, means to produce another monitoring voltage when the mean frequency deviates in a negative direction, indicator means controlled respectively by said monitoring voltages, and a common alarm device which is controlled by either of said monitoring voltages when the said deviation exceeds a predetermined amount.

2,421,055
SAFETY POUCH
Irma M. Cowan, Chicago, Ill.
Application March 8, 1944, Serial No. 525,519
1 Claim. (Cl. 224—26)



A securing means for securing articles, such as pouches, to garment buttons, comprising a single strand of free-springing wire bent centrally into generally rectangular formation with the free ends of the wire lying substantially adjacent each other, one portion of said generally rectangularly bent wire having a small looped portion extending therefrom and secured to said article by means of a rivet member passing through said looped portion and through said article, and another portion of said wire being bent to provide a hook consisting of a loop having a constricted opening formed by adjacent portions of said wire, said hook being oppositely disposed from said first named looped portion and integral with said generally rectangularly bent wire formation, said hook being adapted to be hooked over a garment button, one end only of said wire being free springing when so bent and terminating in a curved portion, the other end of said wire terminating in a bent hook portion, and said free-springing curved portion being adapted to be interlockingly engaged with the bent hook portion of the other end of said wire, thereby to secure said looped portion firmly in locked position with respect to said button.

2,421,056
CONVEYOR CONTROL SYSTEM
George E. Dake and Edgar F. Speiden, Parkersburg, W. Va., assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a corporation of West Virginia
Application December 27, 1943. Serial No. 515,768
17 Claims. (Cl. 198—203)



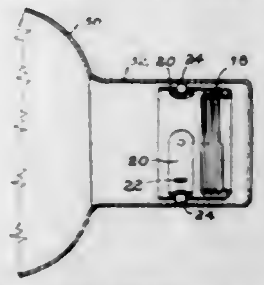
1. In a gravity conveyor of the type wherein a given load on the conveyor provides a sufficient gravitational force to operate the conveyor, a power source for operating the conveyor, a hydrodynamic brake having mechanical connection with the conveyor, and automatic means subject to operation as a result of operation of the con-

veyor above a predetermined maximum speed for supplying liquid to said brake to render it operative for braking the conveyor, said automatic means including a mechanism for rendering said power source inoperative while said brake is operative.

2,421,057

ADJUSTABLE REFLECTOR

Milton S. Dunkelberger, Dayton, Ohio, assignor to The American Display Company, Dayton, Ohio, a corporation of Ohio
Application May 30, 1945, Serial No. 596,617
2 Claims. (Cl. 240—103)

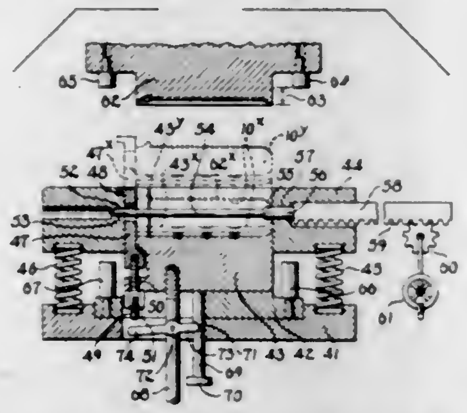


1. A light reflector assembly for use with conventional electric light sockets provided with external threads, the combination including a collar threadedly engaging the external threads on the light socket, said collar being provided with a plurality of apertures, a pair of arcuate springs mounted within the collar, the center of the springs being riveted to the collar, detents mounted in spaced relation from the center of the springs, said detents projecting through said apertures, and a reflector mounted upon said collar, said reflector including a bell-shaped reflecting portion merging into a tubular neck portion, said neck portion overlying the collar and being held in adjusted position by said resiliently mounted detents.

2,421,058

APPARATUS FOR PRODUCING HEAT INSULATING HANDLES

James F. Eckstein, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Continuation of application Serial No. 307,396, December 4, 1939. This application filed February 22, 1943, Serial No. 476,718
1 Claim. (Cl. 18—42)

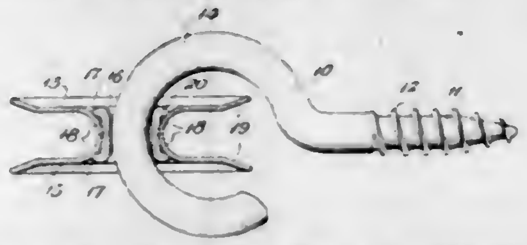


In a machine for cold molding a relatively long insulating handle having a passage extending longitudinally therethrough, in combination, a normally stationary lower die member, a movable die box surrounding said lower die member and slidable with respect thereto, said die box being normally biased upwardly to a predetermined position relatively to said lower die member to provide with the latter a relatively long horizontal cavity for reception of molding material, a metal core member extending lengthwise of said cavity and engaged with the opposite end walls of said box for support by the latter, an upper die member initially telescopically movable into said die box to a predetermined degree to effect partial compression of molding material located within said cavity, and said die box being thereafter movable jointly with said upper die member to a predetermined degree relatively to said lower die member to effect final relatively high compression of said molding material around and about said core member, said upper die member being thereafter movable in the reverse direction to effect release of the molding pressure, means for completely withdrawing said core member from said cavity, means for thereafter effecting a predetermined degree of upward movement of said lower die member to effect ejection of the molded handle from said die box, an auxiliary die member associated with said lower die member and adapted to provide a reduced neck portion at one end of the handle, and means for effecting upward movement of said auxiliary die member relatively to said lower die member to effect ejection of the handle from the latter.

2,421,059

CLOTHESLINE PULLEY ASSEMBLY

William J. Ekins, Cleveland, Ohio, assignor to The Auto Arc-Weld Manufacturing Co., Cleveland, Ohio, a corporation of Ohio
Application March 21, 1946, Serial No. 656,131
1 Claim. (Cl. 254—190)



A pulley assembly comprising a mounting member having an end portion thereof bent into circular shape to form a curved shaft having a screw threaded shank portion, said curved shaft being circular in cross section and of a uniform diameter throughout its length with the end of the shaft terminating short of the shank portion to provide a pulley receiving opening; a pulley mounted on said curved shaft and having a central bore forming a bearing in which said shaft is journaled, said bearing having an internal diameter slightly larger than the diameter of said shaft plus the rise of the arc of the circle formed by the inner circumference of said curved shaft subtended by a chord equal in length to the length of said bearing; said pulley including a pair of flat discs each having a central opening provided with an inwardly turned flange and having its rim outwardly swaged; a tubular sleeve upon which said discs are mounted with their inwardly turned flanges abutting; and a beading formed on the ends of said sleeve to firmly hold said discs together.

2,421,060

TABULATOR

Bradley Haskins, Brooklyn, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application March 27, 1943, Serial No. 480,731
7 Claims. (Cl. 101—93)

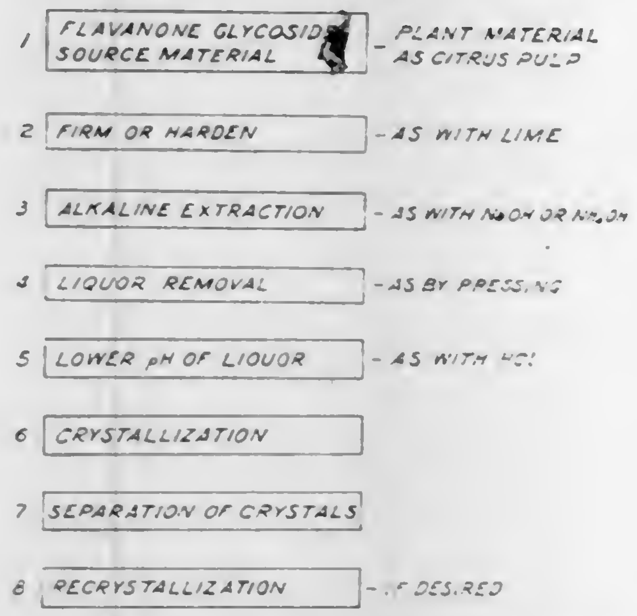
1. In a machine of the character described, the combination of a series of differentially settable members, a stop for each of said members, a set

of selectively actuable control elements associated with each of said stops whereby a stop is rendered ineffective upon actuation of any one of its associated set of elements, and means for selectively controlling the movement of said stops whereby inhibition of motion of one stop by its associated set of elements permits partial movement of all stops in the lower orders.

2,421,061

METHODS FOR RECOVERY OF FLAVANONE GLYCOSIDES

Ralph H. Higby, Ontario, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
Application March 11, 1944, Serial No. 526,087
4 Claims. (Cl. 260—210)

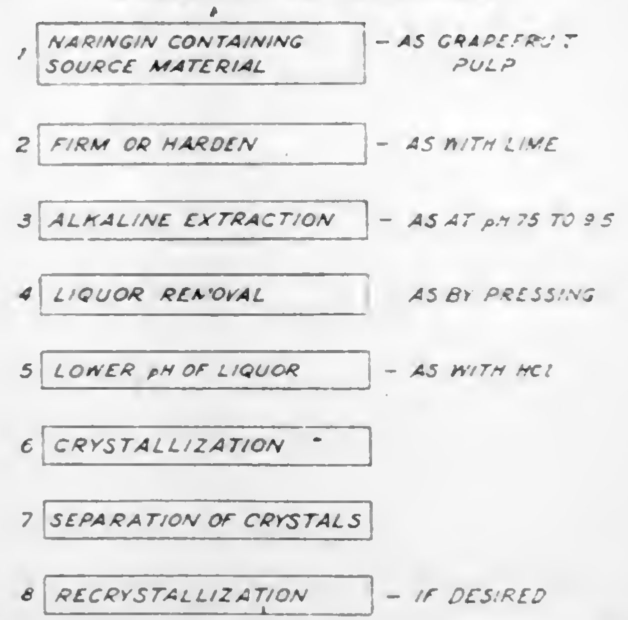


1. A method for the recovery of flavanone glycosides which comprises the steps of adding to plant material containing flavanone glycosides lime in amount sufficient to coagulate slimy components of the plant material and adjusting the alkalinity of an aqueous suspension of said plant material to a point sufficiently alkaline to result in the formation of soluble compounds of flavanone glycosides, allowing the mixture to stand for a time sufficient to solubilize and extract flavanone glycoside, recovering a liquor containing solubilized flavanone glycoside from said material, adjusting the pH of the liquor downward to promote crystallization of flavanone glycoside, allowing the flavanone glycoside to crystallize from the liquor and recovering crystallized flavanone glycoside therefrom.

2,421,062

METHOD FOR RECOVERY OF NARINGIN

Ralph H. Higby, Ontario, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
Application March 11, 1944, Serial No. 526,088
9 Claims. (Cl. 260—210)

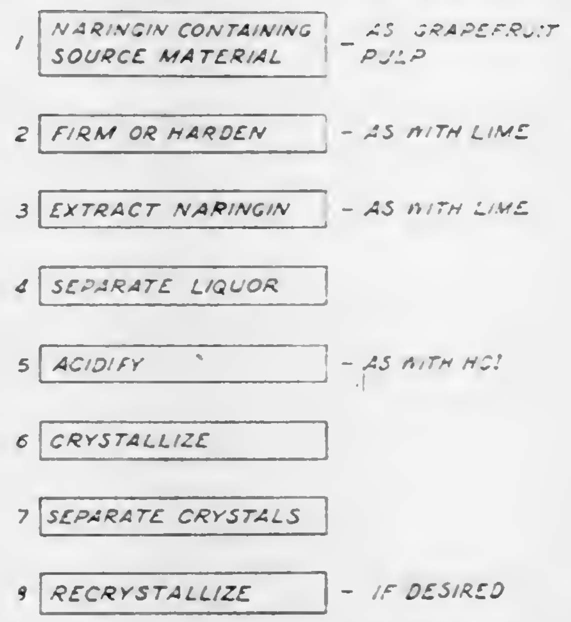


1. A method for the recovery of naringin which comprises the steps of adding to plant material containing naringin, lime in amount sufficient to coagulate the slimy components of the plant material, adding caustic soda to said lime treated material in amount sufficient to increase the alkalinity of an aqueous suspension of said plant material to within the range from about pH 8.4 to about pH 9.1, allowing the mixture to remain for a time sufficient to solubilize the naringin, recovering a liquor containing naringin from said material, adjusting the pH of the liquor to within a range of about pH 4 to about pH 5 by means of hydrochloric acid and subsequently allowing the naringin to crystallize therefrom.

2,421,063

METHOD FOR RECOVERY OF NARINGIN

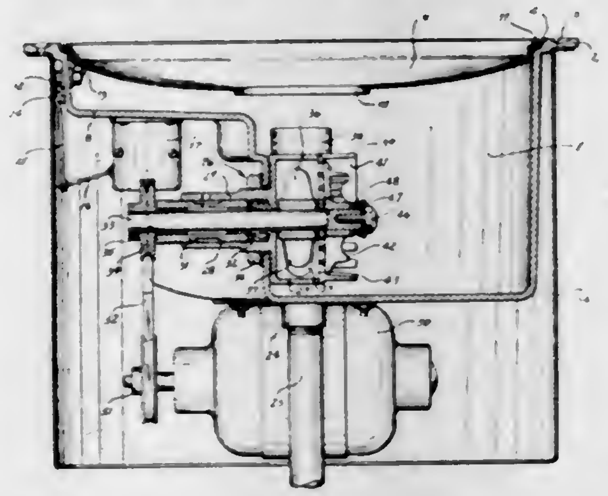
Willard E. Baier, Ontario, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
Application March 11, 1944, Serial No. 526,090
8 Claims. (Cl. 260—210)



1. A process for the preparation of naringin which comprises the steps of adding, to plant material containing naringin, an alkaline earth compound and water in amounts sufficient to ad-

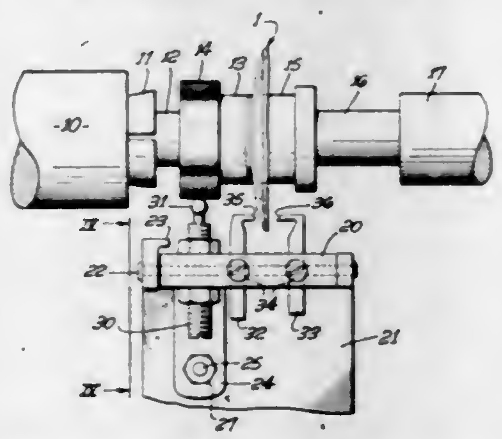
just the alkalinity of said mixture to within a pH range of about pH 7.5 to about 9.5, maintaining the so treated plant material within the said pH range for a time sufficient to permit solubilization and extraction of the naringin, recovering liquor containing naringin from said material, adjusting the pH of the liquor to between about pH 6 and the pH below which a substantial proportion of the naringin is destroyed, crystallizing naringin from said liquor, and finally separating the crystalline naringin from its mother liquor.

2,421,064
GARBAGE DISPOSAL DEVICE
Frank T. Hilliker, St. Louis, Mo.
Application October 9, 1944, Serial No. 557,802
4 Claims. (Cl. 146—182)



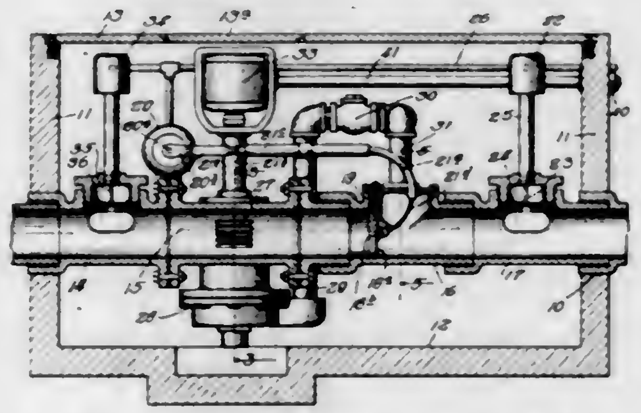
1. A garbage disposal device comprising an open-topped tank, means for supplying water to the tank, an overflow pipe in the tank adapted to maintain a body of water within the tank up to a predetermined level, a tray removably mounted across the open top of the tank and having an opening through which garbage may be deposited into the body of water within the tank, a pump immersed within the body of water, and grinding means associated with the pump for reducing the water and suspended garbage to a relatively fluid sludge, said pump having a discharge opening disposed beneath the tray opening so as to cause a spout of fluid to bubble up through the tray-opening and over the face of the tray for sluicing garbage down through the tray-opening into the tank.

2,421,065
DEVICE FOR SHAPING LENSES
Howard G. Hoffer, Santa Monica, Calif.
Application February 25, 1944, Serial No. 523,945
4 Claims. (Cl. 82—19)



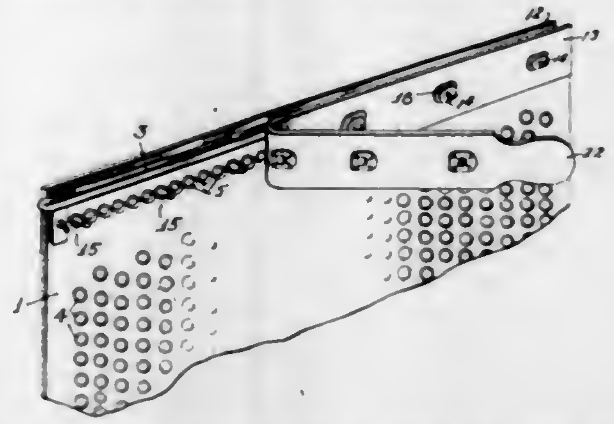
1. An apparatus for simultaneously cutting out and edging lenses made from an organic plastic comprising a rotatable spindle having a pattern cam thereon defining an eccentric cam face of substantial breadth, means for holding a lens blank larger in diameter than the pattern cam for rotation by said spindle, an axially reciprocating body member, a tool holder pivotally mounted thereon, a spring holder and a spring between the holder and the body member biased to urge the tool holder toward the spindle, an adjustable cam follower on the tool holder having a path of movement simultaneously around and across said cam face and a cutting tool on the tool holder movable in a path defined by the travel of the cam follower adapted to simultaneously remove the outer portion of the lens blank and bevel the outer edge of said lens.

2,421,066
FLOOD CONTROL SYSTEM
Elra F. Howe, Chicago, Ill.
Application September 29, 1944, Serial No. 556,421
13 Claims. (Cl. 182—1)



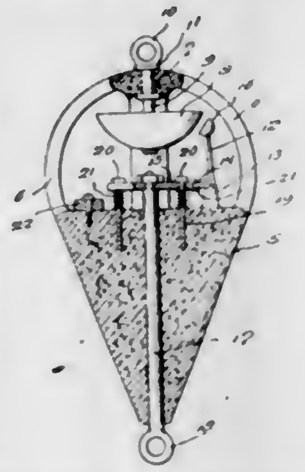
1. A flood control system associated with a disposal pipe, including: main valve means in said pipe; motor means for positively opening and closing said main valve means; a by-pass passageway communicating with said pipe on opposite sides of the main valve means; a check valve in said passageway permitting flow only in the disposal direction; and a pump in said passageway for forcing material in the pipe behind the main valve means through said passageway.

2,421,067
LAUNDRY BAG AND CLOSING DEVICE THEREFOR
William C. Howe, Chicago, Ill.
Application June 20, 1942, Serial No. 447,877
3 Claims. (Cl. 150—3)



1. A closing device for a laundry bag having openings in its walls for the passage of liquids and having an open end formed with a marginal row of closely spaced apertures, said device comprising two separate comparatively stiff but flexible strips of material substantially coextensive in length with the width of the bag and adapted to be disposed respectively against opposite sides thereof to collapse the marginal edge of the bag opening into straight flat and taut contact, and a series of longitudinally spaced snap fasteners for connecting said strips, said fasteners comprising prongs on one of said strips and adapted to be extended through certain of said apertures in said bag, and detent members on the other of said strips for receiving and yieldably locking said prongs, said last mentioned strip being extended beyond said bag to provide a hand grip and said fasteners being separable by a lateral end pull on said last mentioned strip.

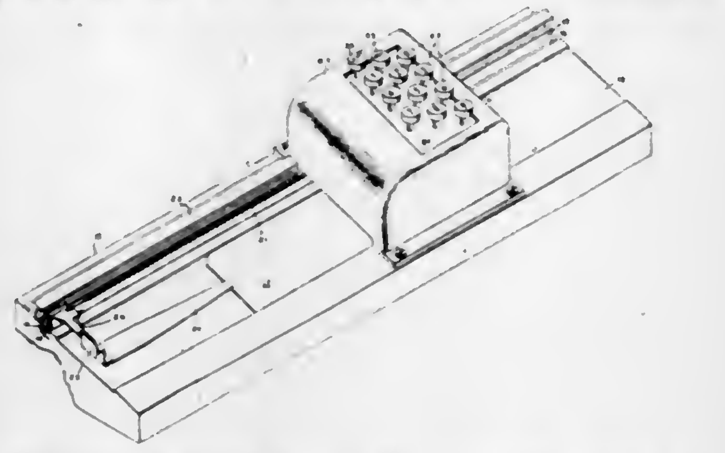
2,421,068
FISHING LINE FLOAT
Bradford W. Jamerson, St. Louis, Mo.
Application July 18, 1944, Serial No. 545,444
3 Claims. (Cl. 43—17)



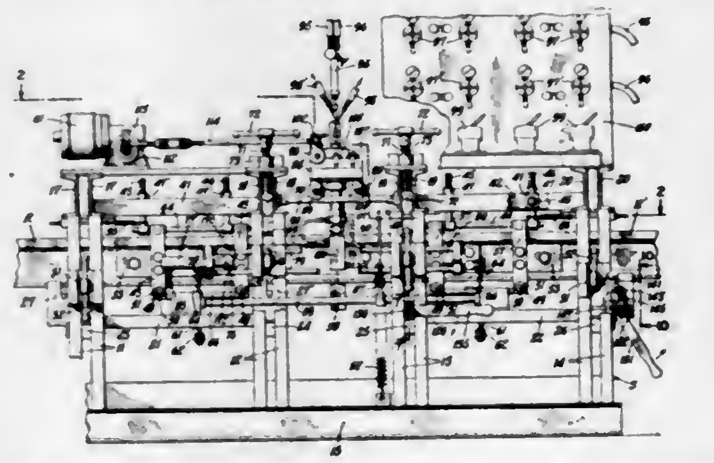
1. A fishing line float comprising a buoyant body of inverted substantially cone-shape, floatable normally in a substantially upright position, having a raised open frame on its wide upper end, said frame including inturned spaced bars secured at their lower ends and meeting and secured together at their upper ends coaxially with respect to said buoyant body, an upstanding eye member located centrally on the place of meeting of said frame bars to receive a fishing line slidably and guidably therethrough, a sounding element supported within said open frame, a clapper element movably mounted within said open frame normally out of contact with said sounding element but actuatable to strike the same, a controlling and operating rod mounted longitudinally slidable in an axial bore in said buoyant body, said rod projecting at one end beyond the apex end of the body and provided with means for adjustably fastening the fishing line thereto, the opposite end of the rod having an operating connection with said clapper element, and spring means yieldably holding said controlling and operating rod and said clapper element in normal position, whereby, upon a pull of the fishing line in the direction away from the apex end of the buoyant body, the controlling and operating rod is accordingly pulled and the clapper element strikes the sounding element.

2,421,069
PUNCH
Walter F. Kelley, Whitestone, and Edwin O. Roggenstein, Ilion, N. Y., assignors to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application August 2, 1945, Serial No. 608,534
14 Claims. (Cl. 164—113)

1. In a machine for perforating a plural zoned statistical card, means for spacing said card in successive positions corresponding to successive columns of said card, and key controlled perforating means separately grouped in successively offset rows aligned with the columnar index positions of each separate zone and successively operable in each of said separate zones of said card.



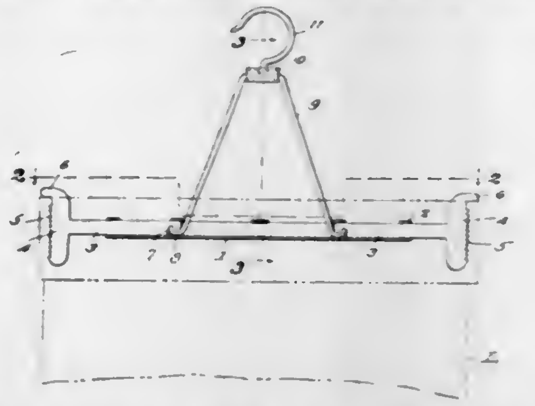
2,421,070
PRESSURE WELDING APPARATUS
Roy S. Kerns, Chicago, Ill., assignor to The Linde Air Products Company, a corporation of Ohio
Application February 9, 1944, Serial No. 521,619
9 Claims. (Cl. 78—82)



1. Butt welding apparatus comprising a frame; means carried by said frame for supporting two elongated metal members at a plurality of longitudinally spaced points with a surface of each member in abutting relation; a plurality of clamping means carried by the frame independent of said supporting means and freely movable longitudinally of the frame for clamping each of said metal members at a plurality of longitudinally spaced points, each of said clamping means comprising spaced clamps, and means for vertically adjusting each clamp independently of the other clamp; means for freely moving all of said clamps as a unit to and from clamping position upon said metal members; means operatively connecting the clamping means associated with the respective metal members for moving each clamping means toward the other such means; and means supported by said frame for heating to a welding temperature the metal of said members at and adjacent the abutting surfaces.

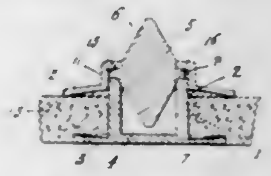
2,421,071
GARMENT HANGER
George J. Kraft, Wilkes-Barre, Pa.
Application May 14, 1945, Serial No. 593,589
1 Claim. (Cl. 223—95)

A trousers hanger comprising a pair of independent hanger members adapted to be positioned one in each leg of trousers, each of said hanger member comprising a spring wire yoke, a hook, means for connecting the yokes of the hanger members to the hook, said hanger members embodying channel members, aligned relatively movable shanks operating within the channel members and extending beyond the respective ends thereof, said shanks having notches extending upwardly from the inner lower edges thereof, hooks formed at the free ends of the yokes adapted to be extended into the notches, connecting the yokes and shanks, jaws integrally formed at the outer ends of the shanks, and said jaws adapted to be engaged within the trousers legs supporting the trousers.



2,421,072
REMOVABLE SPIKE FOR GOLF SHOES

Daniel Kramer, Fairview Village, Ohio
Application June 28, 1946, Serial No. 680,176
2 Claims. (Cl. 36—59)

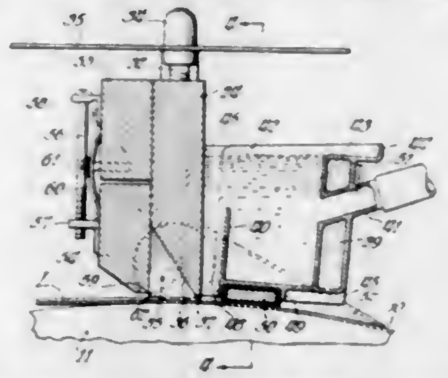


2. A spike of the class described, comprising, in combination, a foundation member having an exteriorly threaded cylindrical portion provided with a socket and a dished flange at its lower end, a hardened spike removably mounted in the socket, a nut having a threaded bore to fit the threaded portion of the foundation member and having a dished flange rigid with the nut and having thereabove a wrench engaging portion, the nut adapted to secure the spike in assembled relation with the foundation member when screwed thereon.

2,421,073
SHEET MAKING MECHANISM

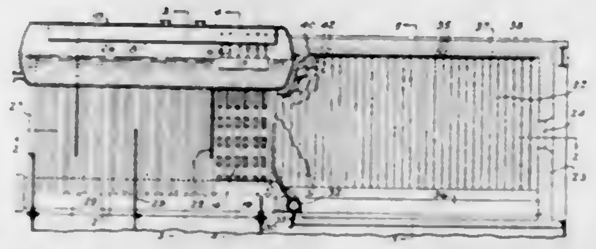
Edouard M. Kratz, Gary, Ind., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y., a corporation of New York
Application April 26, 1943, Serial No. 484,634
5 Claims. (Cl. 91—30)

5. In apparatus for forming a sheet from a liquid solution, a moving member having a surface to which the solution is delivered, a doctor blade having its lower edge spaced from said surface and co-operating therewith to determine the thickness of the film of solution carried past said doctor blade by said moving member, said lower edge having a substantially straight central longitudinal portion and elongated end portions extending downwardly and outwardly from said central portion to thereby effect tapering of the marginal portions of the sheet forming solution passing under said edge, whereby the normal tendency of the film to build up its marginal thickness is counteracted and uniformity of sheet thickness is attained, said doctor blade having at least such lower edge portion formed of an alloy which is substantially non-expansible within the normal range of temperatures encountered in the sheet-forming operation.



2,421,074
STEAM GENERATOR

Max H. Kuhner, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application October 12, 1944, Serial No. 558,321
8 Claims. (Cl. 122—347)

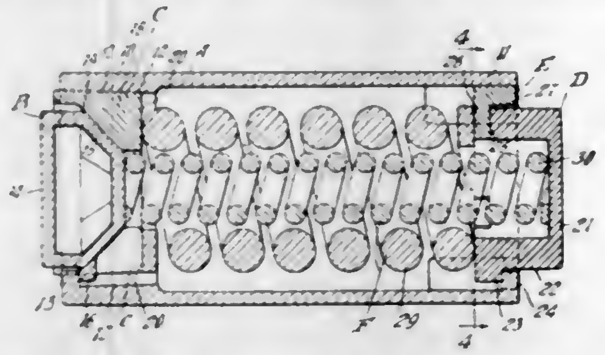


1. A steam generator comprising a longitudinally extending steam-and-water drum, transverse rows of upright water tubes beneath the drum and connected at their upper ends to the drum, means providing a combustion chamber in front of the water tubes and drum and arranged to supply hot gases for heating the water tubes, upright water wall tubes at one side of the combustion chamber, the upper portions of the water wall tubes being bent laterally to extend across the combustion chamber and support the roof thereof at a substantial distance above the lower surface of the drum, and other upright water wall tubes at one side of the combustion chamber with their upper portions bent laterally to extend beneath the roof and across the front end of the drum as a screen to shield the drum from the heat in said chamber.

2,421,075
FRICTION SHOCK ABSORBING MECHANISM

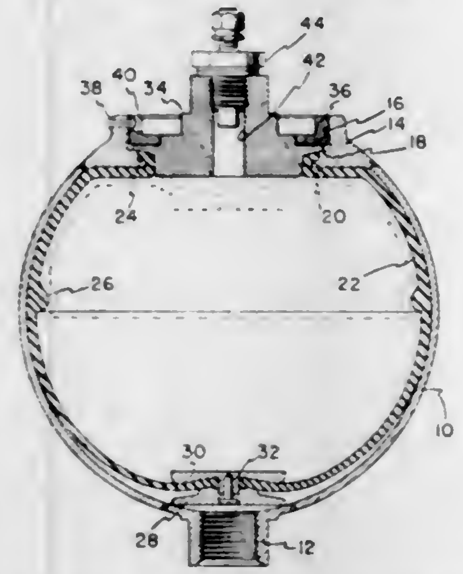
Edward H. Lehman, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application October 28, 1943, Serial No. 507,957
3 Claims. (Cl. 213—34)

1. In a friction shock absorbing mechanism, the combination with a casing open at the front and rear ends; of a friction clutch telescoped within the front end of the casing and having sliding frictional engagement with the casing; stop shoulders at the rear end of said casing; a cup-shaped, cylindrical cap slidingly telescoped within the other end of the casing; radially outwardly projecting lugs on said cap engaging the shoulders of said casing to limit outward movement of the cap; locking blocks surrounding said cap interposed between the cap and interior walls of the casing, said cap being provided with radially disposed seats, and said blocks having inwardly projecting lugs overhanging said cap and engaging in the seats of the latter for locking the cap against rotation with respect to said blocks, said blocks and casing walls having interengaging angular faces for locking said blocks against rotation with respect to the casing; and spring means within the casing opposing relative movement of the cap and clutch inwardly of the casing, said spring means bearing on the blocks to hold the lugs thereof engaged in said seats.



2,421,076
ACCUMULATOR

Thomas B. Linton, North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 4, 1942, Serial No. 457,372
4 Claims. (Cl. 138—30)

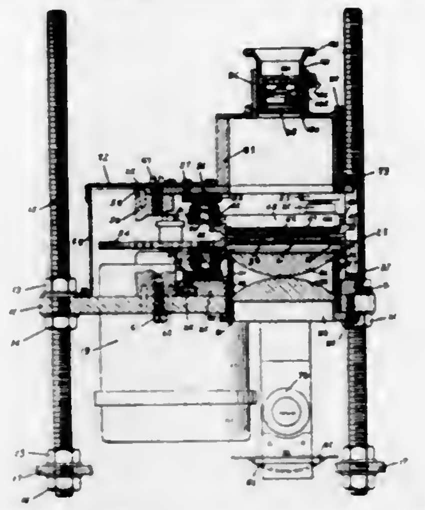


1. An accumulator bladder comprising a bladder of flexible material, and a plurality of transverse annular thickened sections in said bladder to centralize said bladder as it collapses to prevent rubbing of the material and to provide a bead of material about which the fold occurs with an appreciable radius of bend for folds in the material.

2,421,077
PROJECTOR APPARATUS

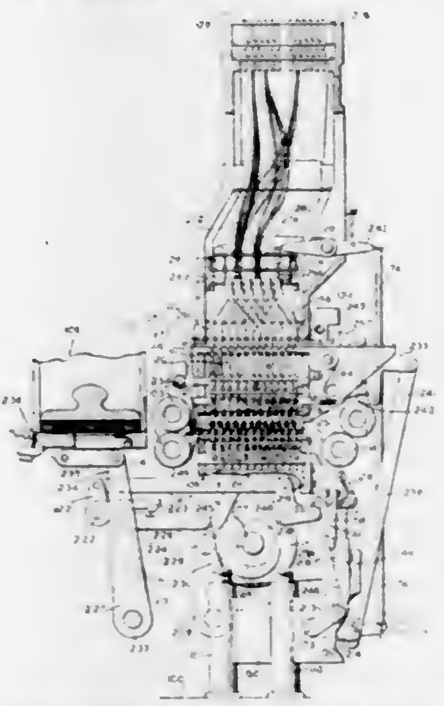
Joseph R. Miller, Forest Hills, N. Y., assignor to Bendix Aviation Corporation, Brooklyn, N. Y., a corporation of Delaware
Application December 8, 1944, Serial No. 567,179
3 Claims. (Cl. 88—24)

1. In a projector, a base structure, a pair of gears rotatably supported by said base structure in substantially side-by-side relationship, with their axes substantially parallel; a pair of ring-like members disposed adjacent said gears; means mounting said members for independent rotation about a common axis located parallel to the axes of said gears and spaced substantially equal distances from the axes of said gears, whereby lines drawn between the several axes define a substantially equilateral triangle; means for transmitting power from one of said gears to one of said members comprising gear means on said one member meshing with said one gear; means for transmitting power from the other of said gears to the other of said members comprising gear means on said other member meshing with said other gear, said one gear and its gear means being axially offset from said other gear and its gear means; an indicia-carrying transparent element mounted in each of said ring-like members; and stationarily supported means for projecting a beam of light through said elements; and lens means for causing said indicia to be projected as clearly defined images upon a screen or the like.



2,421,078
CROSS TOTALIZING MECHANISM FOR RECORD CONTROLLED TABULATORS

John Mueller, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application November 20, 1943, Serial No. 511,003
12 Claims. (Cl. 235—61.6)



4. In a machine of the character described, a sensing pin carrier, means for reciprocating the carrier, means for sensing data designations in a record including rows of spring pressed pins in the carrier, a pair of slides for each row of pins, each slide of a pair being adapted for locking engagement with a different group of pins in

each row, a plurality of means for moving the slides on successive reciprocations of the carrier to lock in fixed relation to said carrier those pins of the different groups of each row that sense data designations in the record and means operated by said sensing means when a control designation in the record is sensed for disabling the slide moving means relating to one of said groups and enabling another slide moving means relating to another group upon a successive reciprocation of said pin carrier.

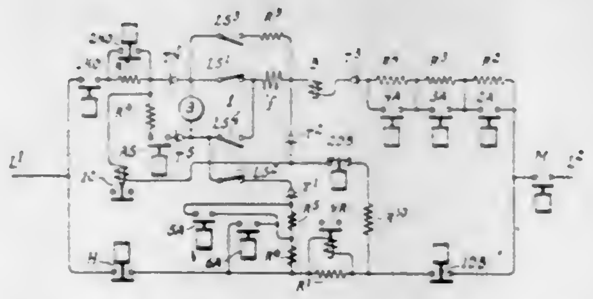
2,421,079
METHOD FOR SILVERING NONCONDUCTIVE MATERIALS
Harold Narcus, Worcester, Mass.
No Drawing. Application January 31, 1946, Serial No. 644,661
1 Claim. (Cl. 117—47)

A method of metal coating the surface of a nonconductive material which comprises roughening said surface, cleaning the surface to remove foreign substances, immersing same in the following solution for a period of ½–1 minute:

Stannous fluoborate	grams	15–20
Fluoboric acid (42%)	c. c	250
Sodium chloride	grams	75–100
Water	c. c	1000

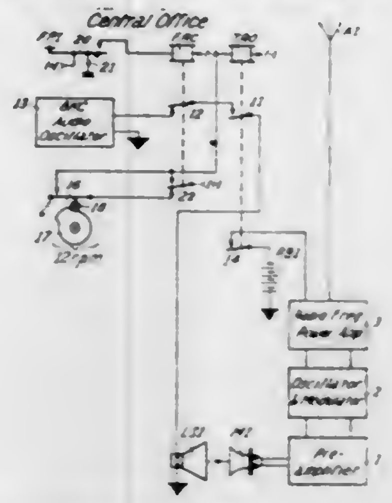
to cause the surface to be receptive to the formation of a subsequent conductive layer, thoroughly washing the same to remove excess of the solution and then treating the properly washed material in any of the usually employed silvering solutions.

2,421,080
MOTOR CONTROL FOR HOISTS
John M. Newman, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 20, 1945, Serial No. 606,198
8 Claims. (Cl. 172—152)



8. In combination, a motor having a series field winding, limit mechanism for disconnecting said motor from its source at a predetermined limit of operation and establishing a closed loop including the armature of said motor and said field winding in a reversed relation for dynamic braking, means including a manual element, for supplying power to said loop for reverse operation of said motor as a series motor to reset said limit mechanism, said means upon resetting of said limit mechanism affording power connections for continued reverse operation of said motor but with its armature and said field winding in parallel relation, means controlled by said manual element to provide an armature shunt for said motor upon supply of power to said loop and to maintain said armature shunt pending both resetting of said limit mechanism and a change in position of said control element, resistances for said reverse power connections and control means for certain of said resistances responsive to an electrical condition of said motor, to effect a given resistance commutation for the aforementioned reverse operation of said motor as a series motor and further responsive to resetting of said limit mechanism to effect a given resistance commutation for operation of said motor with its armature and field winding in parallel and with said armature shunt established, said resistances throughout reverse operation of said motor as a series motor affording the power connections, said loop and said armature shunt E/I values respectively approximating 85, 63 and 15 per cent.

2,421,081
TESTED CHANNEL RADIO COMMUNICATING SYSTEM
John C. O'Brien, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application September 6, 1944, Serial No. 552,833
20 Claims. (Cl. 250—6)

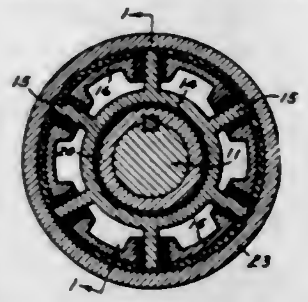


1. In a radio telephone system for transmitting from a central station to a movable vehicle voice messages concerning how the vehicle shall be manipulated; a radio transmitter for transmitting carrier frequency, a microphone including a diaphragm, a tone generator for generating vibrations to vibrate the diaphragm of said microphone, switching means operable by the operator at said central station and normally rendering said tone generator effective to vibrate said diaphragm and to in turn modulate said carrier frequency to such tone and operable to render said tone generator ineffective and to allow voice communication through said microphone and said transmitter; and a receiving station on a vehicle including a radio receiver, a loud speaker controlled by said receiver and emitting such speech and such tone, and visual signal means including a microphone effective only if tone energy is emitted by said loud speaker; whereby a person on the vehicle may detect from the failure to receive either such tone as indicated by said visual signal means or a voice message from the loud speaker that the system may be out of order.

2.421.082
LUBRICANT
Mathias Pier, Heidelberg, and Friedrich Christmann, Ludwigshafen-on-the-Rhine, Germany; vested in the Attorney General of the United States
No Drawing. Application March 8, 1941, Serial No. 382,394. In Germany July 5, 1937
6 Claims. (Cl. 252—59)

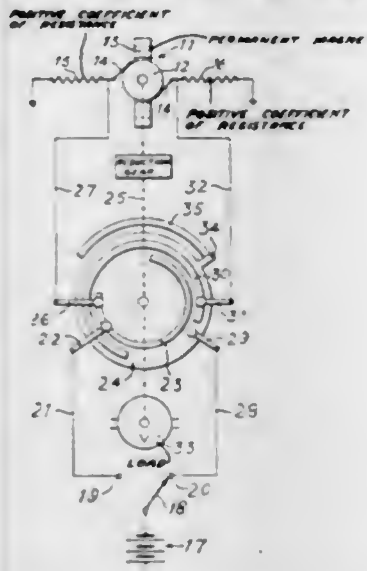
1. A composition of matter essentially comprising a mineral oil lubricant and a viscosity increasing agent soluble in said mineral oil and comprising a polymerization product obtainable by interpolymerizing a compound which is polymerizable by reason of having a double carbon linkage and which, when polymerized by itself by means of an acid-reacting inorganic halide, yields a product of molecular weight above 1000, with a hydrocarbon mixture containing unsaturated constituents and selected from the group consisting of cracking and dehydrogenation products of hydrocarbons and hydrocarbons obtained in the synthesis of benzine from carbon monoxide and hydrogen.

2,421,083
CENTRIFUGAL COUPLING
Louis W. Rawson, Worcester, Mass., assignor to Worcester Polytechnic Institute, Worcester, Mass., a corporation of Massachusetts
Application December 27, 1943, Serial No. 515,874
7 Claims. (Cl. 192—105)



1. A centrifugal coupling comprising two relatively rotatable coaxial members one of which provides a drum with an inner cylindrical surface and the other of which provides a series of circumferentially spaced abutments surrounded by the drum, and shoes mounted between the abutments, each shoe including a metal body having an arcuate convex cylindrical outer surface and two plane side surfaces, a curved sheet of friction material secured to the outer surface of the body to engage the inner surface of the drum under the influence of centrifugal force, and a separate flat sheet of non-metallic friction material secured to each of the side surfaces of the body to engage the abutments and to be thereby subjected to a direct compressive stress in the direction of its thickness.

2,421,084
ELECTRIC MOTOR CONTROL SYSTEM
William A. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation
Application June 9, 1944, Serial No. 539,489
7 Claims. (Cl. 172—239)


POSITIVE COEFFICIENT OF RESISTANCE
PERMANENT MAGNET
POSITIVE COEFFICIENT OF RESISTANCE
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LOAD
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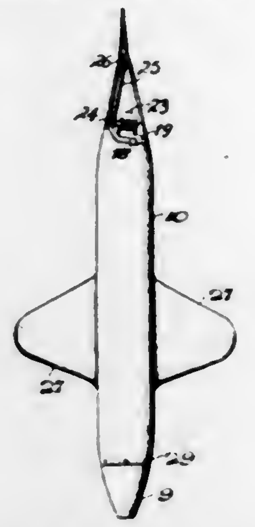
17

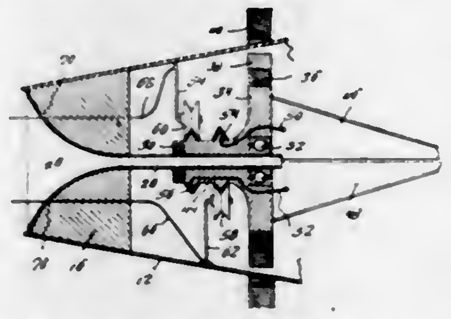
1. In a motor control system: a direct-current motor comprising an armature winding, means providing a constant unidirectional field for said winding, a source of direct current, a pair of resistors connected respectively to each of the ends of said winding and in common to one terminal of said source, and switching mechanism for connecting the other terminal of said source selectively to one or the other end of said winding so that current can flow through the winding in corresponding opposite directions, said switching mechanism being so constructed and arranged that said other source-terminal is normally disconnected from said winding.

2,421,085
TARGET SEEKING AERIAL BOMB
Gregory V. Rylsky, Ridgefield Park, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 12, 1943, Serial No. 494,377
5 Claims. (Cl. 102—3)



1. A target seeking missile comprising, a casing having a nose portion and a tail portion; an objective lens in said nose portion concentric with the longitudinal axis of said casing, a spectral energy receiver in said nose portion in the focal plane of said lens and disposed eccentrically with respect to the axis of said casing for receiving the spectral rays focused by said lens radiated from a target toward which the missile is launched; means for rotating said missile about its longitudinal axis in its flight toward the target, whereby the focused spectral rays periodically traverse said receiver to activate the same; and guide means at the tail portion of said missile operative upon activation of said receiver to direct said missile at the target radiating spectral energy rays.

2,421,086
TELEVISION CATHODE-RAY TUBE WITH ROTARY DEFLECTING PLATES
George Sabol, Duquesne, Pa.
Application August 3, 1944, Serial No. 547,843
11 Claims. (Cl. 250—158)



1. In a television system of transmission and reception, a cathode ray tube mounted for turn-

ing movement, a pair of opposed deflecting plates mounted within the tube, and means for imparting a rotary motion to said deflector plates for likewise rotating a sweep signal impressed thereon during a turning movement of the cathode ray tube for producing circular scanning lines that are concentric to each other.

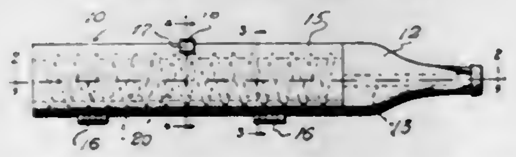
2,421,087

CIGARETTE HOLDER

Robert E. Sadtler, Ridley Park, Pa.; William B. Sadtler administrator of said Robert E. Sadtler, deceased

Application January 4, 1944, Serial No. 516,904

1 Claim. (Cl. 131—175)



A smoking device comprising a tubular body which is open at one end and is laterally imperforate, said body having a bore of diameter and length corresponding to the diameter and length of the commercial cigarette forming a chamber adapted to receive a cigarette with a snug fit, and a mouthpiece at the other end of the body having a smoke passage therethrough communicating with said bore, said body having a helical groove in the wall of said chamber extending throughout the length of the chamber and communicating with said smoke passage when a cigarette is in said chamber.

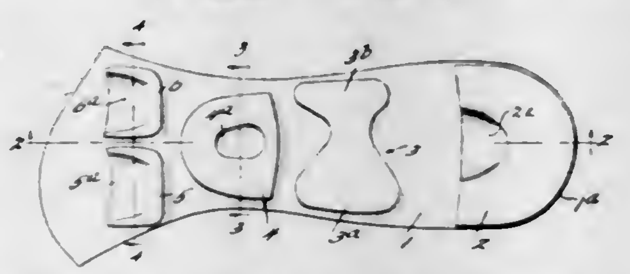
2,421,088

INSERT SOLE

James Manning Sims, Atlanta, Ga.

Application October 1, 1945, Serial No. 619,467

1 Claim. (Cl. 36—71)



In an insert sole for shoes comprising a flat flexible strip conforming approximately to the contour of the foot from the heel portion to a point located forwardly of the ball portion, a series of resilient pads affixed to the upper surface of said strip and located generally symmetrically with respect to the longitudinal center line of said strip; said pads including a heel pad located at the heel end of the strip, a double-lobe pad located forwardly of the heel pad and serving as a support for the longitudinal arch of the foot, a callous pad located in advance of the double-lobe pad and adapted to support the second and third metatarsal heads of the foot, and a pair of callous pads arranged side-by-side adjacent a position on the strip corresponding to the ball portion of the foot for supporting the sesmoid under first and fifth metatarsal heads, said callus pads each being of substantially equal thickness and the upper faces of said pads being inclined forwardly and downwardly and terminating in the plane of said strip whereby to impart a forward thrust to the foot, and said pads each being centrally recessed, said recesses terminating a spaced distance inwardly from the two sides and the rear edges of said pads.

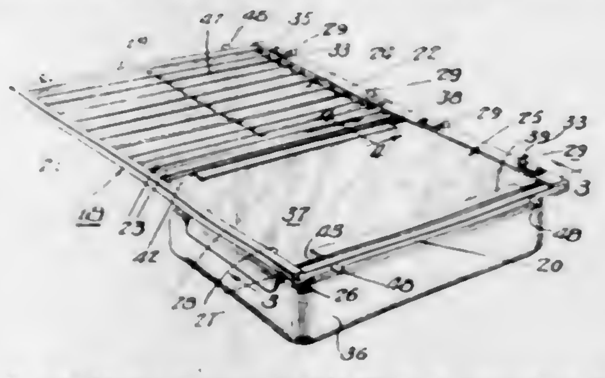
2,421,089

REFRIGERATOR SHELF

Helen E. Smith, Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application December 31, 1943, Serial No. 516,484

4 Claims. (Cl. 211—153)



2. A shelf structure including a unitary frame, said frame comprising side rod portions and front and rear opposed channel portions and having a plurality of substantially rectangular shelf areas, shelf sections releasably and interchangeably mounted in the frame within said areas and each having opposite edges seated within said channel portions, and means associated with said channel portions for releasably holding said shelf areas against accidental displacement from the frame, said means comprising a plurality of resiliently pressed retractible pins having an operative position at one of the said edges of the respective shelf sections when said sections are seated within said channels.

2,421,090

LONG CHAIN ALIPHATIC HALIDES AND METHOD OF PREPARING SAME

Lee Irvin Smith and Joseph A. Sprung, Minneapolis, Minn., assignors to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota

No Drawing. Application August 1, 1942, Serial No. 453,281

8 Claims. (Cl. 260—652)

1. The new product 1-halo-4,8,12-trimethyltridecane where the halogen is selected from the group consisting of bromine and chlorine.

4. The process of preparing 1-halo-4,8,12-trimethyl-tridecane which comprises reacting pseudoionone with a Grignard reagent having the structure

$$X\text{—}Mg\text{—}CH_2CH_2CH_2\text{—}OR$$

where X is selected from the group consisting of bromine and chlorine and R is selected from the group consisting of methyl, ethyl, propyl, butyl, amyl and benzyl radicals, hydrolyzing the thus formed compound under acidic conditions, dehydrating the thus formed compound by means of heat, removing the thus liberated water, hydrogenating to saturation and then transforming the resultant ether of 4,8,12-trimethyl-tridecanol-1 by reaction with a hydrogen halide selected from the group consisting of hydrogen chloride and hydrogen bromide.

2,421,091

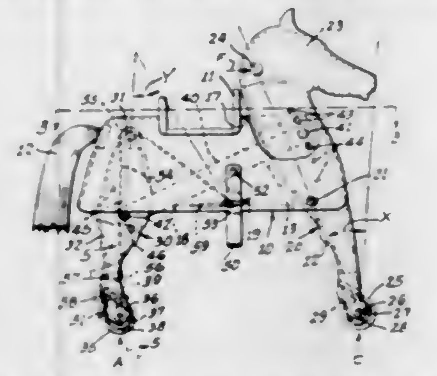
MECHANICAL HORSE

Harold K. Sylvester, Redondo Beach, Calif., assignor of one-half to Howard C. Smith, Canoza Park, Los Angeles, Calif.

Application February 9, 1945, Serial No. 577,101

3 Claims. (Cl. 280—1.17)

1. A mechanical horse comprising: a body provided with a front pivot adjacent the nether surface thereof, a rear pivot adjacent the upper surface thereof, and a stirrup pivotally mounted on each flank thereof; a front section pivotally attached to said body by said front pivot, said front section including a head with a handle attached thereto and a pair of forelegs; a rear section pivotally attached to said body by said rear pivot and including a pair of hind legs; a wheel rotatably attached to the pedal extremity of each leg, said wheels including ratchets adapted to be engaged by pawls pivotally attached to said legs whereby rearward rotation of said wheels is prevented; a link pivotally attached to said front section above said front pivot and to said rear section below said rear pivot and adapted to transmit reciprocating motion therebetween; and means actuatable by said stirrups for braking the wheels attached to said hind legs.



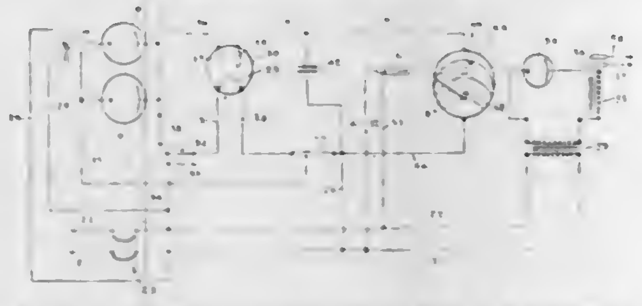
2,421,092

STOP MOTION FOR KNITTING MACHINES AND THE LIKE

Allan Clair Thomas, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

Application August 18, 1944, Serial No. 550,047

6 Claims. (Cl. 66—166)



1. A stop or detector motion for a knitting machine and the like for detecting faults in a fabric, comprising a photo-electric cell positioned on one side of said fabric and extending substantially the full width of said fabric, a source of light co-extensive with said photo-electric cell and positioned on the opposite side of said fabric so as to direct light on to said fabric, a current meter operative by a change in light intensity on said photo-electric cell caused by faulty fabric passing between said photo-electric cell and said source of light and means, including a second source of light and a second photo-electric cell, under control of said current meter, for stopping the machine or giving a warning signal.

2,421,093

METHOD OF MAKING NONRIGID GELS

Donald R. Thompson, Ontario, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California

No Drawing. Application February 18, 1942, Serial No. 431,383

5 Claims. (Cl. 99—132)

1. A process for making a pectin sugar jelly of salvy texture comprising treating a pectin-containing jelly batch at an acidity corresponding to a pH range of 4.0 to 7.0 for from 5 to 30 minutes at 180° to 220° F., whereby a jelly of salvy texture is obtained.

2,421,094

TREATMENT OF WOOL-WASHING EFFLUENT

Frank Totney, Hillbrow, Johannesburg, Transvaal, Union of South Africa, assignor to Industrial Development Corporation of South Africa, Limited, Johannesburg, Transvaal, Union of South Africa, a corporation of South Africa

Application September 11, 1944, Serial No. 553,643

In the Union of South Africa April 20, 1944

3 Claims. (Cl. 260—412.5)

1. The process of treating woolwashery effluents which comprises evaporating the effluent until a content of about 4 to 5 per cent of wool grease is obtained, thereby increasing the alkali content in the effluent, then heating the concentrated effluent to a temperature of from about 290 to 302° F. and a gauge pressure of about 50 pounds per square inch, and settling the so-treated effluent for a period of from about one to eight hours to separate the grease, suint and muddy liquor from each other.

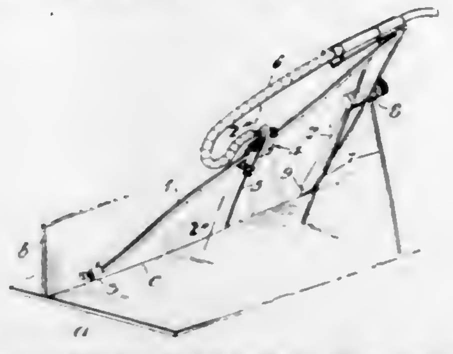
2,421,095

APPARATUS FOR FILLET ARC WELDING

Joseph M. Tyrner, New York, N. Y., assignor to Air Reduction Company, Incorporated, a corporation of New York

Application April 3, 1945, Serial No. 586,385

3 Claims. (Cl. 219—8)



1. Arc welding apparatus for making fillet welds along a work corner comprising a guide, means supporting said guide so that it is downwardly inclined and also inclined with respect to the vertical wall of the work corner, said means being adjustable to vary the angle of inclination between the guide and the vertical wall of the work corner, a carriage movable downwardly along the guide, and a welding electrode supported at its upper end by said carriage and depending to make contact at its lower end with the work corner, said downwardly inclined guide being the sole guiding means for the electrode and serving by reason of its inclination in the two directions to not only keep the tip of the electrode in contact with the work as the electrode is consumed but also to induce the tip of the electrode to follow the work corner even though the lower end of the electrode is unguided except by the work corner itself.

2,421,096

PROCESS AND APPARATUS FOR REPAIRING TIRES

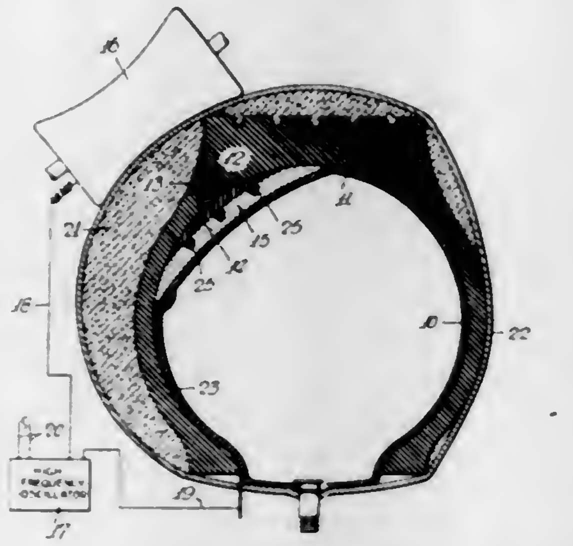
Clarence W. Vogt, Norwalk, Conn.

Application October 28, 1943. Serial No. 507,923

9 Claims. (Cl. 18—18)

1. An apparatus for repairing tires with uncured rubber, which includes an electrode adapt-

ed to be disposed within the tire, and having a surface approximately parallel to the inner surface of the tire, an electrode in the form of a roller, and adapted to be disposed outside of the tire, said roller and the tire being relatively movable to cause rolling of the roller over the area of said uncured rubber, and means connected to said electrodes for establishing a high frequency electrostatic field between said electrodes to heat cure said uncured rubber.



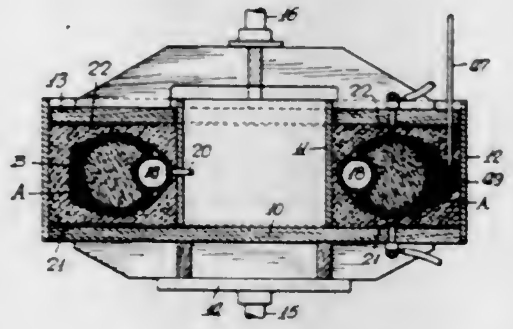
7. The process of repairing a tire, which includes applying uncured rubber in the area to be repaired, supporting an electrode adjacent to and parallel with the inner surface of the tire wall, holding said tire wall under pressure, and moving a pair of rotatable electrodes along the outer surface of the tire wall, said electrodes being spaced apart to a distance greater than that between either roller and the inner electrode, and developing a high frequency electrostatic field between said rollers and said inner electrode.

2,421,097
PROCESS AND APPARATUS FOR REPAIR OF TIRES

Eino E. Lakso, Fitchburg, Mass., assignor to Clarence W. Vogt, Norwalk, Conn.

Application October 28, 1943, Serial No. 507,940

3 Claims. (Cl. 18—18)



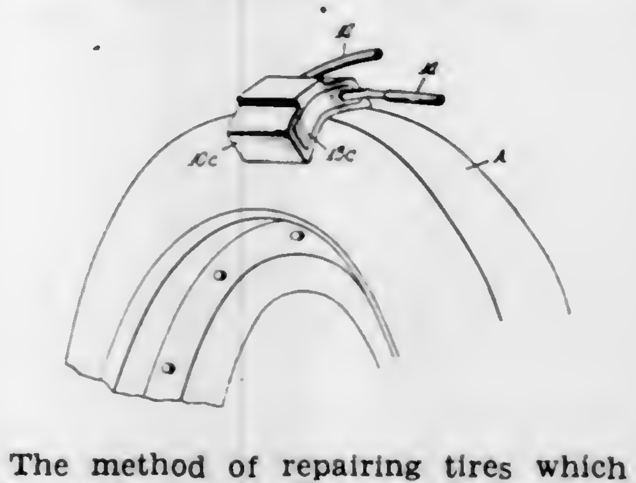
1. The process of repairing a tire by vulcanizing uncured rubber thereto at the area requiring repair, which includes supporting said tire area between spaced flat electrodes presenting parallel surfaces of greater area than the area of the portion of the tire to be repaired, spacing said tire area from said electrodes by solid material which is in subdivided flowable form and which has substantially the same dielectric properties as the tire, subjecting said tire area to pressure, and producing between said electrodes a high frequency electrostatic field of sufficient heating effect to vulcanize said uncured rubber.

2,421,098
REPAIR OF TIRES

Clarence W. Vogt, Norwalk, Conn., and Eino E. Lakso, Fitchburg, Mass.; said Lakso assignor to said Vogt

Application December 16, 1943, Serial No. 514,452

21 Claims. (Cl. 18—18)



1. The method of repairing tires which includes positioning parallel spaced electrodes adjacent to the outer surface of the tire and with the area to be repaired between the planes of said electrodes but with no substantial portion of said area extending in between said electrodes, and establishing between said electrodes a high frequency electrostatic field having a coronal portion extending beyond the region between said electrodes and into uncured rubber applied at the area to be repaired to heat cure said rubber.

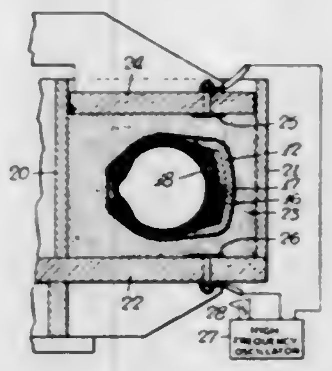
7. An apparatus for curing the rubber of a spot patch on a tire, including a block of dielectric material, a pair of electrodes carried by said block upon opposite sides thereof, means for establishing a high frequency electrostatic field between said electrodes, and means for securing said block in position on the tire over the area of the patch.

2,421,099
RECAPPING OF TIRES

Clarence W. Vogt, Norwalk, Conn.

Application January 20, 1944, Serial No. 518,968

3 Claims. (Cl. 154—14)



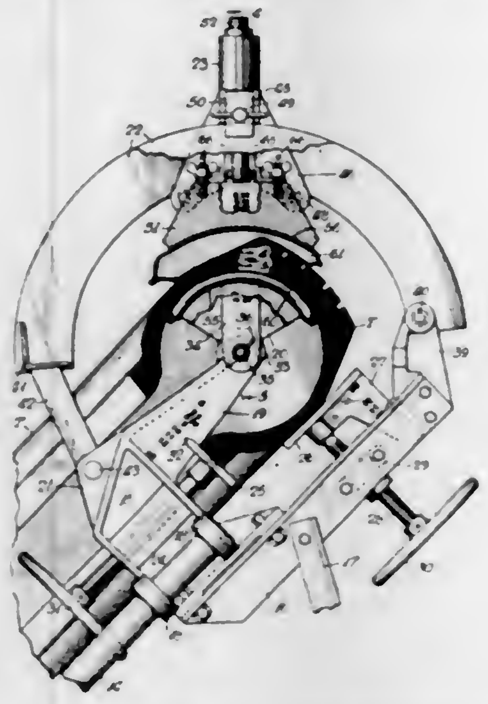
1. The process of recapping a worn tire, which includes applying to the tread of the tire a layer of vulcanizable plastic material, applying around said layer an endless one piece, resilient, stretchable matrix band made of dielectric material and presenting the complete intaglio of the tread design to be formed on said tire, compressing said layer between said tread and said band, enclosing said tire and band in a substantially tight and substantially non-stretching flexible casing, inflating a tube within said tire, placing said enclosed tire between a pair of substantially parallel electrode plates and vulcanizing said layer by forming a high frequency electrostatic field between said electrodes.

2,421,100
APPARATUS FOR THE REPAIR OF TIRES

Eino E. Lakso, Fitchburg, Mass., assignor to Clarence W. Vogt, Norwalk, Conn.

Application March 28, 1944, Serial No. 528,396

18 Claims. (Cl. 18—18)



18. In an apparatus for conditioning tires, the combination comprising a platform, a first block of insulating material supported on said platform, a first electrode plate secured to said block and presenting an upwardly facing surface, an electrode support secured to said platform, a second block of insulating material mounted on said support above said platform and said first block, a second electrode plate secured to said second block above said first electrode plate and presenting a downwardly facing surface substantially parallel and opposite to said upwardly facing electrode surface, the section of the tire to be conditioned being adapted to be supported between said electrode plates, a first pressure applying member of dielectric material having one side conformably engaging substantially the upwardly facing surface of said first electrode plate and having its opposite side contoured for substantial conforming engagement substantially with the adjacent surface of the tire section to be conditioned, a second pressure applying member of dielectric material having one side conformably engaging substantially the downwardly facing surface of said second electrode plate and having its opposite side contoured for substantial conforming engagement substantially with the other adjacent surface of the tire section to be conditioned, an adjusting screw mounted on said electrode support for moving the second block substantially normally of said electrode surfaces, and means for applying a high frequency electric potential to said electrode plates.

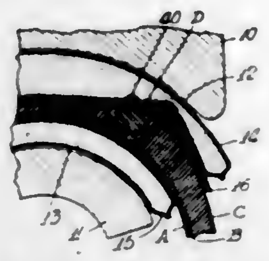
2,421,101
APPARATUS AND METHOD FOR REPAIR OF TIRES

Eino E. Lakso, Fitchburg, Mass., assignor to Clarence W. Vogt, Norwalk, Conn.

Application May 18, 1944, Serial No. 536,068

11 Claims. (Cl. 18—18)

1. The method of repairing a tire by vulcanizing uncured rubber at the area of the tire wall to be repaired, said wall having layers of fabric therein adjacent to the inner surface and a thicker layer of rubber substantially free of fabric at the outer surface, said method including applying uncured rubber to the tire section to be repaired, applying to the outer surface of the tire at said repair section a layer of material having substantially the same dielectric constant as the fabric incorporated in the inner portion of the tire wall, and producing a high frequency electrostatic field including said fabric and said material.



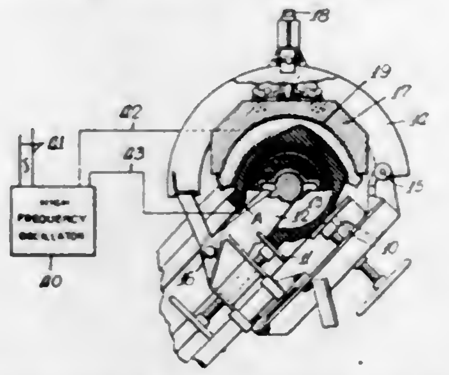
11. An apparatus for repairing tires by vulcanizing uncured rubber at the area to be repaired, including a deformable pad having a flexible wall, a pair of electrodes, means for compressing said pad and the tire between said electrodes, a nonmetallic strand having high tensile strength at atmospheric temperature and low tensile strength at the temperature required for vulcanizing, and having a portion disposed between said pad and said tire wall, means for placing said strand under tension, means for producing a high frequency electrostatic field between said electrodes, means for applying to said strand sufficient tension to break the strand when it reaches the temperature required for the desired vulcanization, and means for breaking the circuit to said electrodes, said means being held inoperative by said strand during the vulcanization.

2,421,102
REPAIR OF TIRES

Eino E. Lakso and Austin S. Chandler, Fitchburg, Mass., assignors to Clarence W. Vogt, Norwalk, Conn.

Application November 9, 1944, Serial No. 562,653

6 Claims. (Cl. 18—18)



6. An apparatus for repairing a tire by vulcanizing a repair part in a high frequency electrostatic field, comprising an electrode carrier adapted to be disposed on the outside of the tire to be repaired and having a surface of predetermined shape substantially parallel to the inner surface of the tire to be repaired, an electrode plate of predetermined shape independent of the shape of said tire disposed against said surface and curved substantially parallel to the inner surface of the tire to be repaired, a deformable pad of dielectric material adapted to be disposed between said electrode plate and the outside of said tire with one surface in conforming engagement with the outside surface of said tire and its opposite surface substantially parallel to said electrode plate, said pad being deformable in all directions to permit its shape and thickness to vary according to the shape of the

region between said electrode plate and said outside tire surface, an electrode plate support adapted to extend in the interior of the tire to be repaired, a flexible electrode plate adapted to extend in the interior of the tire and bent into conformity with the inner surface of said tire and in substantial parallelism with the first-mentioned electrode plate, a deformable pad between said flexible electrode plate and said electrode plate support, means for applying pressure to said tire repair part through said deformable pads, and means for applying a high frequency electric potential to said electrode plates.

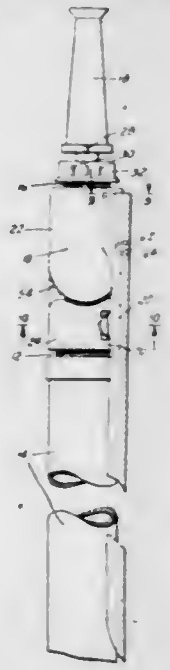
2,421,103

SPRINKLER UNIT

Donald E. Wadsworth, Miami, Fla.

Application February 2, 1943, Serial No. 474,467

11 Claims. (Cl. 285—209)



1. In a sprinkler unit having a fitting member for attachment to a hose, a fitting member to receive a spray nozzle and means rotatably mounting the said fitting members together for movement between a position wherein the fitting members are in axial prolongation of one another to positions wherein said fitting members may be angularly displaced relative to one another in a single axial plane, that improvement which comprises coacting transversely extending bearing means carried within the respective fitting members in communicating connection with the fitting members, respectively, and rotatably mounting the said fitting members together.

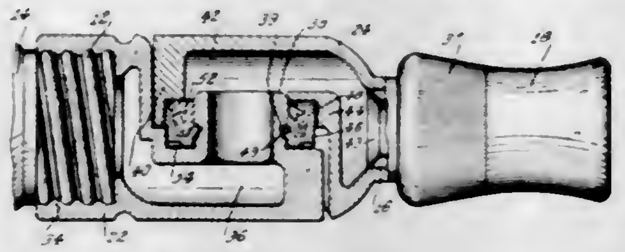
2,421,104

SWIVEL JOINT FOR SPRINKLERS

Donald E. Wadsworth, Miami, Fla.

Application June 16, 1944, Serial No. 540,626

3 Claims. (Cl. 285—97.5)



1. A universal sprinkler unit comprising a fitting member for attachment to a hose, a fitting member to receive a spray nozzle, telescoping cylindrical means rotatably mounting the fitting members together comprising a removable annular bearing ring U-shaped in cross-section on one member and whereof one wall is received in a recess in the other cylindrical means.

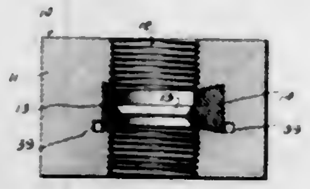
2,421,105

LOCK NUT

Richard F. Warren, Jr., Stratford, Conn.

Application March 15, 1944, Serial No. 526,540

7 Claims. (Cl. 151—7)



1. In a lock nut, a metal body having a threaded passage therethrough for the reception of the threaded shank of a bolt, said body having a recess opening through a wall of said passage, an insert in said recess and entering said passage to a point beyond the valleys of the threads thereof, said insert comprising a plastic material, and said insert including an integral relatively thin portion extending into said passage to a point beyond the ridges of the threads thereof and adapted to be destroyed on initial threading of said nut onto a bolt.

5. The method of making a lock nut comprising forming in a metal nut body having a bolt receiving passage therethrough an annular recess opening through the walls of said passage in spaced relation to both ends thereof, inserting a plug into one end of said passage to a point adjacent said recess, inserting a moldable plastic into said passage onto the inner end of said plug, and then inserting another plug into said passage through the other end thereof and feeding the same inwardly until said plastic has been forced laterally into said recess.

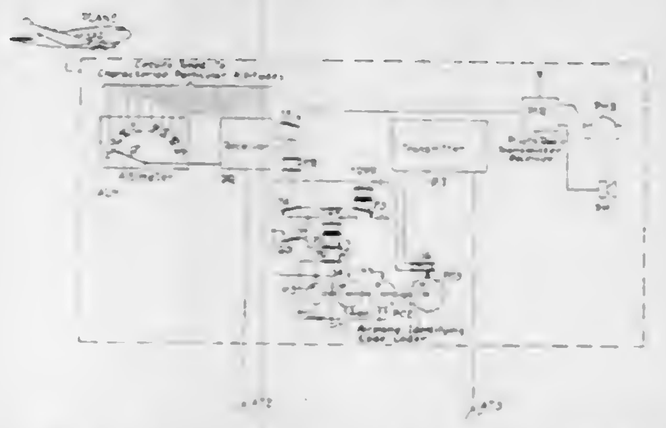
2,421,106

AIRWAY TRAFFIC CONTROL SYSTEM

Sedgwick N. Wight and Oscar S. Field, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.

Application January 21, 1943, Serial No. 473,096

26 Claims. (Cl. 177—353)



12. In an automatic airplane reporting system of the character described, transmitting apparatus at a ground station including a rotary scanner normally operating to radiate upwardly over a zone of limited area a carrier wave modulated with a plurality of distinctive tones one at a time as the scanner rotates, means on an airplane including an altitude detecting device for sending a radio signal on a different frequency only if said carrier wave is then modulated with a tone corresponding with the altitude at which the airplane is then flying; and means at the ground station responsive to said radio signal for stopping operation of the rotary scanner for a limited time.

2,421,107

PROCESS FOR THICKENING LATEX

Clarence Walter Wilson, Norco, Calif., assignor to California Fruit Growers Exchange, L Angeles, Calif., a corporation of California

No Drawing. Application December 2, 1942, Serial No. 467,664

3 Claims. (Cl. 260—815)

1. A process for converting fluid latex to a thixotropic gel which comprises dissolving in the latex a soluble alkali pectate, dispersing in the latex a calcium salt having a solubility in water at least substantially equal to that of calcium sulfate, and forming in the latex by interaction of the pectate and the calcium salt a gelatinous precipitate constituting a thixotropic gel coextensive with the body of the latex.

2,421,108

PROCESS FOR TREATING LATEX

Clarence Walter Wilson, Norco, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California

No Drawing. Application October 6, 1944, Serial No. 557,561

7 Claims. (Cl. 260—822)

1. A process for converting fluid alkaline latex to a thixotropic gel which comprises adding to the alkaline latex a pectin sol and an alkaline earth compound having a solubility in water at least substantially equal to that of calcium sulfate and forming in the latex, by reaction within the body of the latex between the alkali hydrolyzed pectin and the alkaline earth compound, a gelatinous precipitate constituting a thixotropic gel coextensive with the body of the latex.

2,421,109

METHOD OF PRODUCING CRYSTALS OF NORDIHYDROGUAIARETIC ACID

Joseph Adams, Chicago, Ill., assignor, by mesne assignments, to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota

No Drawing. Application June 22, 1944, Serial No. 541,660

7 Claims. (Cl. 260—619)

1. The process of producing nordihydroguaiaretic acid which comprises extracting an acidulated alkali extract of plant material of the species *Larrea divaricata* containing nordihydroguaiaretic acid, with a first solvent selected from the group consisting of water miscible mono and polyhydric low aliphatic alcohols to produce a solution of nordihydroguaiaretic acid, adding to said solution a second solvent miscible with said first solvent, said second solvent being selected from the group consisting of monocyclic aromatic hydrocarbons and halogenated low aliphatic hydrocarbons, washing the mixture with water to remove the first solvent and crystallizing nordihydroguaiaretic acid from the second solvent.

2,421,110

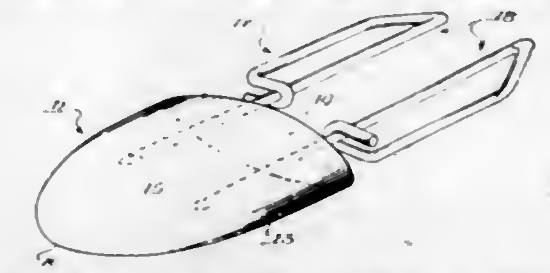
LACING PROBE

Alexander S. Antepenko, Berwyn, Ill.

Application August 2, 1945, Serial No. 608,422

3 Claims. (Cl. 223—105)

1. A lacing device of the class described comprising a guiding head and mounting clip means on and extending from said head in position to removably attach said head as at the end of a channeled support member, whereby to facilitate the lacing of said support member, as through a restricted loop or channel, in an article to be lacingly connected therewith, said mounting clip means comprising a pair of spaced apart resilient members having stem portions mounted on and extending from said head in generally mutually parallel relationship, each of said resilient members having an integral outwardly bent support engaging portion forming a loop with the stem portion, said bent portion being formed with a terminal loop embracing the stem portion adjacent said guiding head, whereby said terminal loop may slide on said stem in a direction laterally thereof and guide the movement of said support engaging portion with respect to said stem.



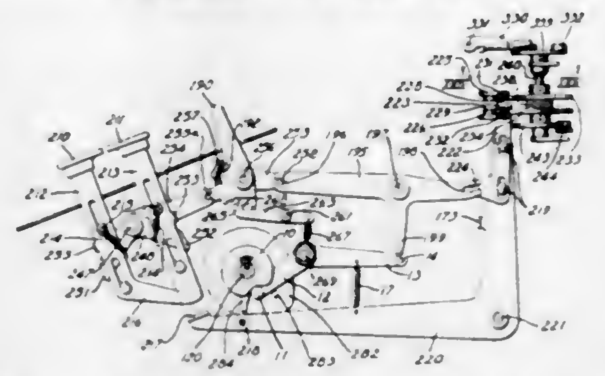
2,421,111

CARRIAGE SHIFTING MECHANISM

Harold T. Avery, Oakland, Calif., assignor to Marchant Calculating Machine Company, a corporation of California

Original application November 25, 1940, Serial No. 367,025. Divided and this application July 10, 1943, Serial No. 494,214

7 Claims. (Cl. 235—63)



1. In a calculating machine having an ordinal register, an ordinal actuator therefor, a cyclically operable driving member for said actuator, and means for relatively shifting said register and said actuator; a shift operating means driven by said driving member, a shift conditioning member selectively settable either to a shift position or to a non-shift position for rendering said operating means respectively effective or ineffective to drive said shifting means, means including a cam operable by said driving member to move said conditioning member from a non-shift to a shift portion to enable said operating means to drive said shifting means, and means including a member manually settable to cause said driving member to operate said actuator or said cam.

2,421,112

FRUIT CAKE METHOD

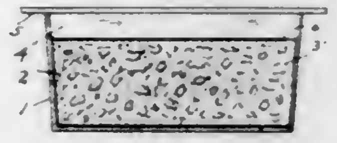
William H. Brooks, San Francisco, Calif.

Application December 19, 1944, Serial No. 568,884

2 Claims. (Cl. 99—86)

1. The method of making a cake of the denser type which includes baking the cake in the nor-

mal manner and compressing the cake after baking is completed and the cake is still fresh and pliable so as to permanently reduce the volume of the cake an amount ranging from about 10 to about 40 per cent from the normal volume of the cake.



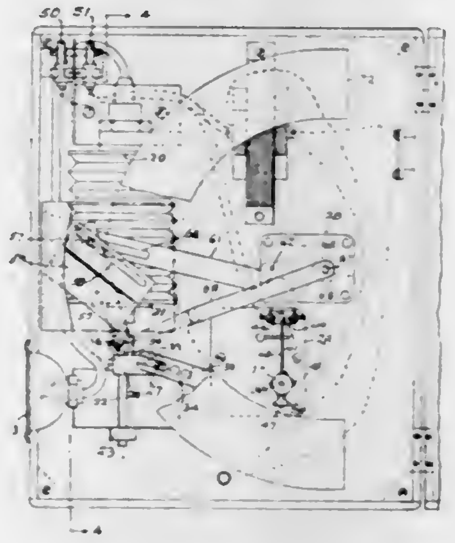
2,421,113
VEGETABLE PROTEIN HYDRATES

Raymond S. Burnett and Earl J. Roberts, New Orleans, La., assignors to the United States of America, as represented by the Secretary of Agriculture
No Drawing. Application March 3, 1944, Serial No. 524,966
2 Claims. (Cl. 260—112)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process of producing a protein hydrate comprising forming a mixture of water and an isolated protein selected from the group consisting of peanut protein and soybean protein, the quantity of water being about 50 percent of the hydrate and the hydrate having a pH of about 7.0, the water substantially completely hydrating the protein but not being in excess of that which the protein molecules will bind, said hydrate being relatively clear, comparatively stable against gelling, and tacky.

2,421,114
APPARATUS FOR READING BLOOD-PRESSURE AND PULSE

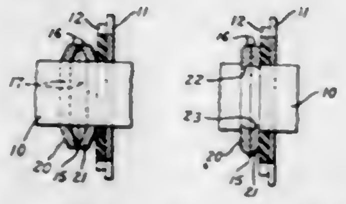
William J. Cameron, Chicago, Ill.
Application October 23, 1943, Serial No. 507,414
7 Claims. (Cl. 128—2.05)



1. A blood-pressure indicator comprising a pressure-responsive element, a reciprocable guide-rod movable with said element, an upstanding oscillating bar supported by said rod, a stud on said bar, a vibratory lever-arm having its fulcrum spaced from said stud, a fork at the free end of said lever-arm engaged with said stud, a pointer, means operatively connecting said pointer to said lever-arm, and cam means adapted to move said oscillating bar during movement of said lever-arm whereby to change the position of said stud with respect to said lever-arm.

2,421,115
METHOD OF SECURING LAMINATIONS ON A ROTOR SHAFT

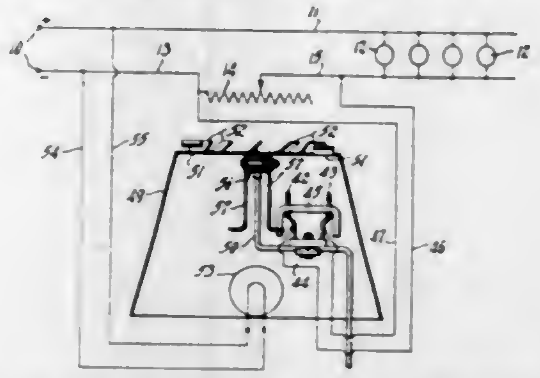
Arnold Carlson, Trumbull, Conn., assignor to Frank L. Lindstrom, Bridgeport, Conn.
Application February 5, 1943, Serial No. 474,860
1 Claim. (Cl. 29—155.53)



The method of securing laminations in place on a rotor shaft comprising disposing a pair of cupped-shaped metal washers on the shaft at each end of the core of laminations, arranging the washers of the pairs with their concave sides facing one another at the respective ends of the core, and then flattening the washers of the pairs against one another and the inner washer of each pair against the adjacent end of the core causing the inner peripheral edges of the washers to contract and dig into the shaft and thereby anchor the washers to the shaft against the ends of the core to secure the latter in place on the shaft.

2,421,116
CONTROL FOR LIGHTING EFFECTS

Lewis P. Clark, Akron, Ohio
Application April 2, 1942, Serial No. 437,457
2 Claims. (Cl. 200—81.9)



1. A switch of the character described, comprising electrical conductor elements so lightly contacting each other that contact therebetween is broken by vibration of an element thereof, a lamp including a shade that is pivotally mounted and is rotated by convection currents set up by heat of the lamp, and an actuating member carried by said shade and moved in an orbit by rotation thereof, the said switch being positioned with one of its elements in the orbit of the actuating member of the shade and adapted to be vibrated by said member periodically as it moves in its orbit.

2,421,117
PROCESS FOR PRODUCING PLANT EXTRACTS

Ole Gisvold, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application March 6, 1943, Serial No. 478,321
13 Claims. (Cl. 260—619)

1. The process of making relatively pure extract of plants of the species *Larrea divaricata* which comprises extracting said plant with a water immiscible organic solvent which extracts material exhibiting the color reactions of catechol

with ferric chloride in the presence of sodium carbonate, to produce a primary extract containing nordihydroguaiaretic acid, fat, waxes, rubber-like materials and pigments, evaporating at least part of said solvent to precipitate impurities, removing precipitated impurities and purifying said primary extract by successively reacting it with successively more alkaline reacting solution, and separating the successive reaction products.

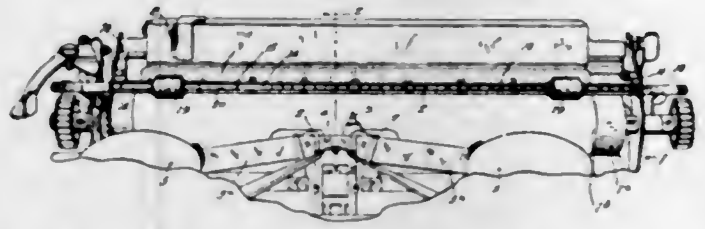
2,421,118
PLANT EXTRACTS AND METHOD OF PRODUCING SAME

Ole Gisvold, Minneapolis, Minn., assignor to Regents of The University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application October 25, 1945, Serial No. 624,604
6 Claims. (Cl. 260—619)

1. Process of separating nordihydroguaiaretic acid from a crude extract containing nordihydroguaiaretic acid and impurities which comprises preparing a solution of the nordihydroguaiaretic acid in a lower nitroparaffin, crystallizing the nordihydroguaiaretic acid from the nitroparaffin and separating the crystals from the nitroparaffin.

2,421,119
MARGIN CALCULATOR FOR TYPEWRITERS

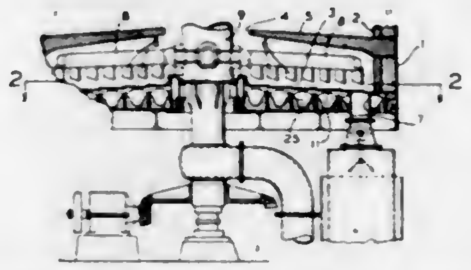
Bonney H. Grief, Chicago, Ill., assignor of one-half to H. H. Hayduk, Chicago, Ill.
Application March 1, 1945, Serial No. 580,364
6 Claims. (Cl. 197—194)



1. A scale device for calculating equal marginal spacing in columnar work, for cooperation with a typewriter having a carriage, a numerical type space scale mounted on said carriage, and a fixed index with which said scale cooperates to indicate the position of the carriage with respect to the impression position, said device having means for mounting it for longitudinal movement on and with respect to said carriage, said scale device having a first longitudinal scale having numerical indicia cooperating with said fixed index, equally spaced from each other a distance equal to a plurality of type spaces and having a second longitudinal scale having equally spaced numerical indicia cooperating with the margin of a paper sheet carried by the carriage, spaced from each other a distance equal to two type spaces for indicating one-half the number of type spaces remaining after subtracting the sum of the columnar type spaces and the sum of the intercolumnar type spaces, the numerical indicia of said first scale being spaced apart a distance corresponding to the number of type spaces in the selected intercolumnar space, and the numerical indicia on each scale increasing in arithmetical progression and in opposite directions from a common origin, whereby the carriage may be shifted to bring it to a position at which the index indicates on the type space scale the sum of columnar type spaces and the scale device may be moved to bring the numerical indicium designating the selected number of columns on the first longitudinal scale into registration with said index, enabling the proper extracolumnar marginal spacing to be read at the point where the sheet of paper on the carriage crosses the second scale.

2,421,120
APPARATUS FOR EFFECTING CHEMICAL REACTIONS

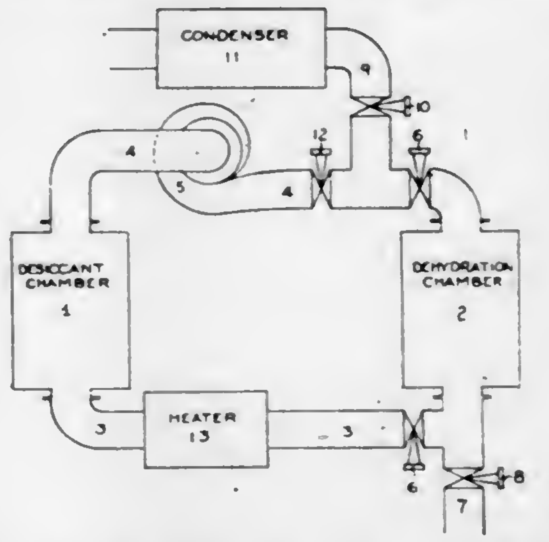
Howard L. Griswold, Canton, and Arthur T. Cape, Columbus, Ohio, assignors to Coast Reduction, Inc., Watsonville, Calif., a corporation of Delaware
Application November 10, 1942, Serial No. 465,172
4 Claims. (Cl. 263—26)



1. In apparatus of the character described, a hearth comprising an annular row of relatively flat grate bars arranged in overlapping relation, means comprising ridges at one edge of each bar extending vertically above the surface of each of the grate bars and into engagement with the overlapped portion of the adjacent grate bar, said ridges spacing said bars vertically at said edge in the region of said overlap to provide slotted openings, means for passing a gas through said openings, and means for causing a solid material to traverse said hearth.

2,421,121
METHOD OF DEHYDRATING FOODSTUFFS

Arie J. Haagen-Smit, Pasadena, Calif., assignor to California Institute Research Foundation, Pasadena, Calif., a corporation of California
Application May 5, 1945, Serial No. 592,208
10 Claims. (Cl. 99—199)



1. A method of dehydrating foodstuffs characterized by: subjecting the foodstuff to an atmosphere containing volatile substances corresponding to selected volatile flavoring constituents inherent in the foodstuff; substantially saturating a desiccant with said volatile flavoring constituents while maintaining said desiccant deficient in water content; and circulating said atmosphere through said foodstuff and said desiccant to reduce the water content of said foodstuff while retaining said selected volatile flavoring constituents in said foodstuff.

2,421,122

SIZING COMPOSITIONS AND YARN SIZED THEREWITH

Walter R. Haefele, Seaford, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 29, 1943, Serial No. 496.621

11 Claims. (Cl. 260—32)

1. A yarn-sizing composition depositing a solid coating that permits yarn sized therewith to run through a water-wet wick or other humidifying treatment without becoming gummy and without fouling the needles and sinkers of the knitting machine and comprising an aqueous solution of a water-sensitive hydroxylated polyvinyl resin and 5% to 40% of an agent to reduce the water-sensitivity of said hydroxylated polyvinyl resin, said agent consisting of barium chloride, the percentage being by weight and based on the hydroxylated polyvinyl resin, and the total solids content being from 2% to 12% of the composition.

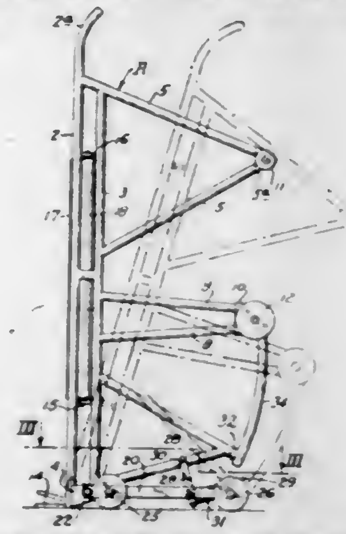
2,421,123

HAND TRUCK

Nels Jensen, Grass Valley, Calif.

Application April 5, 1946, Serial No. 659,770

6 Claims. (Cl. 280—49)



6. A truck for handling and displaying rolls of linoleum or the like, comprising an elongated frame terminated in handles at one end and a shovel plate at the other end, front, intermediate and rear pairs of supporting legs secured to the frame, wheels journaled on the rear and intermediate pairs of legs, rocker members connecting the front and intermediate pairs of supporting legs, an auxiliary truck, a pivotal connection between the front end of the frame and the front end of the auxiliary truck, a front and a rear axle on the truck, a pair of wheels on each axle, said auxiliary truck supporting the frame when swung to a vertical position, a latch mechanism on the auxiliary truck for securing the frame against pivotal movement when in a vertical position, manually actuated means for releasing the latch mechanism to permit tilting of the frame to a semi-vertical position on the auxiliary truck, and hook members forming an extension of the rockers to engage the rear axle of the auxiliary truck to support the frame when in semi-vertical position.

2,421,124

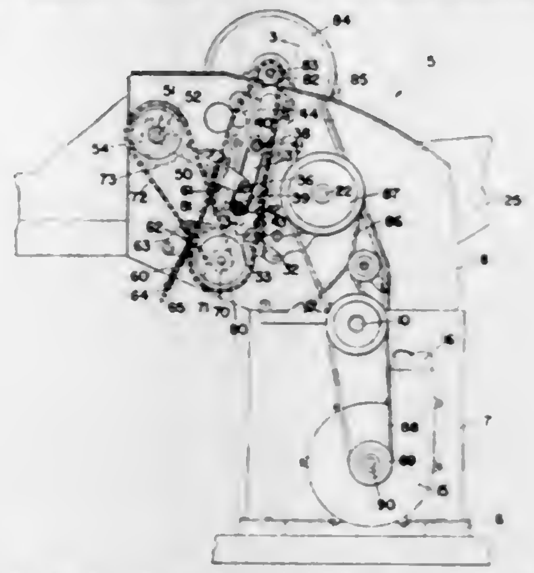
FEEDING DEVICE

Henry E. Korum, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application April 26, 1944, Serial No. 532,839

20 Claims. (Cl. 198—162)

1. In a feeding device of the class described, the combination of a roll, a generally vertical carriage in which said roll is journaled comprising a rigid frame including a pair of end frame members, aligned bearing means on said members, respectively, for supporting said roll, a transverse frame member rigidly tying said end frame members together, and a pair of vertically spaced wheels journaled at each side of said rigid frame, and track means at each side of said carriage generally parallel to said end frame members to support each of said pairs of wheels, providing for vertical sliding movement of said vertical carriage relative to said track means.



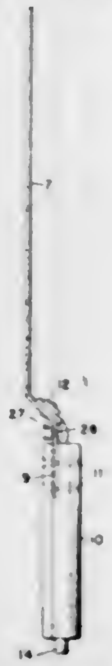
2,421,125

LOW VOLTAGE HOT KNIFE

Paul Krebs, Detroit, Mich.

Application March 16, 1945, Serial No. 583,154

1 Claim. (Cl. 219—21)



In a device of the character described including a bifurcated blade and a handle, an offset portion in said blade adjacent the handle, low voltage leads connected to the respective legs of said blade at said offset, and a channel member of great heat conductivity across said blade beneath said offset and adjacent said handle.

2,421,126

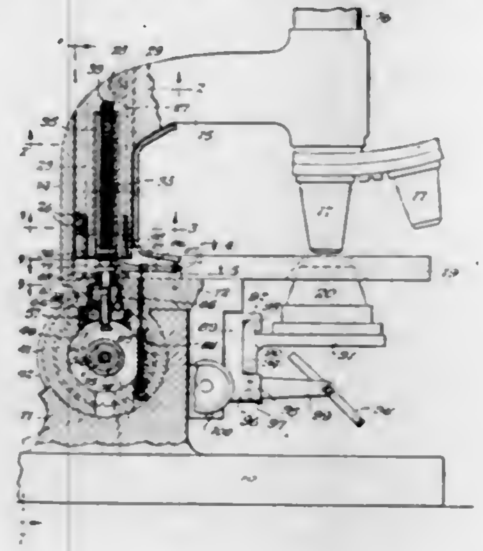
MICROSCOPE

Harvey N. Ott, Buffalo, N. Y.

Application August 25, 1943, Serial No. 499,929

11 Claims. (Cl. 88—39)

1. In a microscope having a body tube supporting arm having a bearing connection with the frame of the microscope, the combination of a screw engaging a threaded part on said arm, said arm having a bored out portion parallel to said bearing into which said screw extends, a coarse adjustment mechanism for rotating said screw, a fine adjustment mechanism including a part on which said screw bears while turning, to hold said screw against endwise movement, and means for adjusting said part to move said screw endwise for effecting fine adjustment of said body tube, said screw being hollow and open at the upper end thereof, and a coil spring in said hollow screw and bearing against said arm and urging said screw lengthwise relatively to said threaded part of said arm.



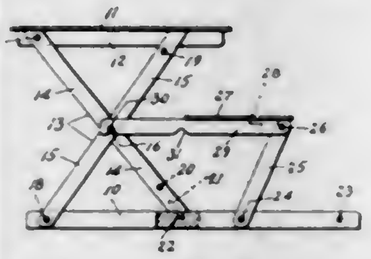
2,421,127

COMBINED FOLDING TABLE AND SEAT

Paul L. Peckham, Glendale, Calif.

Application January 24, 1945, Serial No. 574,282

3 Claims. (Cl. 155—124)



1. In a combined folding table and seat, a base structure, two pairs of table legs arranged with the legs of each pair crossed, means pivotally connecting the lower ends of certain corresponding legs of each pair to said base structure, a table top, means pivotally connecting the upper ends of the other corresponding legs of each pair to said table top so that the latter when in position of use will rest on the upper ends of the legs pivoted to the base structure, cooperating means on the lower ends of the legs which are pivoted to the table top and on the base structure respectively, for detachably fastening such legs to the base structure to maintain the legs in table top supporting position and subject to collapse on detaching such legs from the base structure, seat-supporting legs pivoted on the base structure, a seat, a rail supporting said seat and pivoted to the upper ends of said seat-supporting legs and projecting inwardly from the seat to a point beneath the table top, and a cross bar extending between and serving as a pivot means for the pairs of legs, said rail being notched to engage said cross bar to hold the seat in position of use.

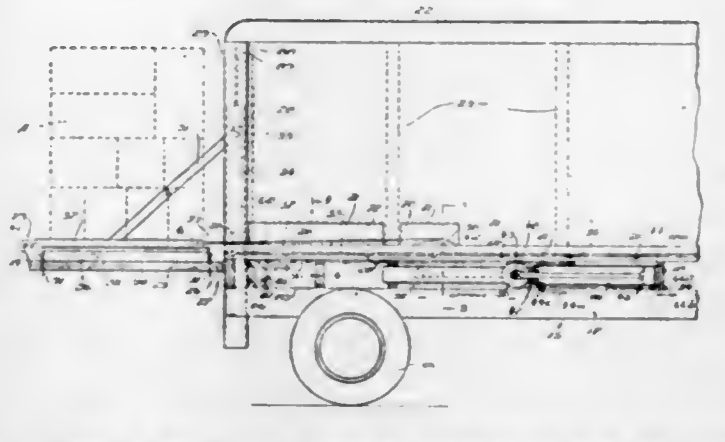
2,421,128

MEANS FOR HANDLING LOADS IN VEHICLES

George H. Pride, New York, N. Y.

Application July 29, 1944, Serial No. 547,216

4 Claims. (Cl. 214—65)



1. Load handling means comprising a vehicle having load-supporting means, plural separately movable floor sections each adapted, in transit, to carry a separate load thereon and to rest upon said load-supporting means; an adjustable cable and sheave assembly carried by the vehicle and adapted, in one adjustment, to be connected to a floor section and to move the latter horizontally with its load, upon and from the said load-supporting means, onto a platform at the exterior of the vehicle; and abutment means coacting with the vehicle and with a load on the platform for holding the load against material horizontal movement; the said cable and sheave assembly being adapted, in another adjustment, to be connected to a floor section under a load so held upon the platform, and to withdraw said floor section from beneath its load while the latter continues to be supported upon the platform.

2,421,129

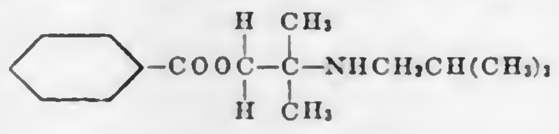
BETA-ISOBUTYL AMINO-BETA, BETA-DIMETHYL, ETHYL BENZOATE

Julian R. Reasenberg, Brooklyn, and Samuel D. Goldberg, Jamaica Estates, N. Y., assignors to Oradent Chemical Co. Inc., New York, N. Y., a corporation of New York

No Drawing. Application June 22, 1944, Serial No. 541,662

1 Claim. (Cl. 260—477)

As a composition of matter, beta-isobutyl amino beta, beta-dimethyl ethyl benzoate, characterized by high surface anesthetic potency and favorable therapeutic index and having the formula



2,421,130

TIMING DEVICE

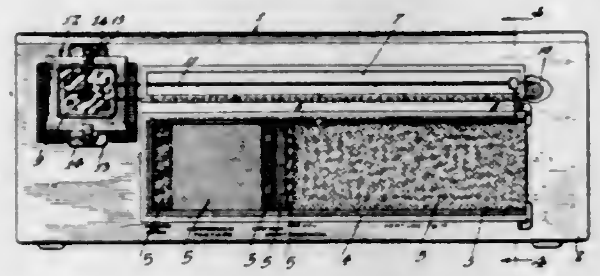
Joseph H. Reid, Los Angeles, Calif.

Application December 16, 1944, Serial No. 568,508

2 Claims. (Cl. 161—15)

1. A timing apparatus for motion picture theatres comprising: a relatively flat, rectangular cabinet structure having a longitudinally extending opening on its front face and a slit along one side of and spaced from said opening; a guide frame bordering three sides of said opening; a series of translucent panels adapted to be universally fitted sidewise into said guide frame to cover said opening, the width of said panels

representing grapically the duration of various films comprising the theatre program; and endless drive belt unit mounted in said cabinet behind said slit and carrying at least one pointer



adapted to project through said slit for observation from the front of said cabinet; a clock mounted on the front of said cabinet at one end of said slit; and a clutch operatively connecting said clock to said endless belt unit.

2,421,131
DEVELOPMENT OF CHROMED DYES ON NYLON BY STEAMING UNDER PRESSURE

Thomas Skeuse, Jr., Bayside, N. Y., assignor to Geigy Company, Inc., New York, N. Y., a corporation of New York

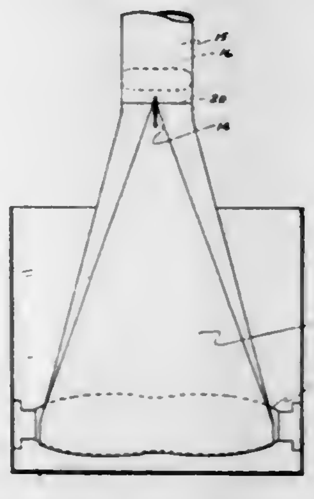
No Drawing. Application June 11, 1945, Serial No. 598,897
2 Claims. (Cl. 8—42)

1. The method of dyeing synthetic linear polyamide fibres, which comprises boiling the fibre in an acid bath containing a chrome color, immersing the fibre in an acid bath containing a soluble chromium salt in a concentration of about one-half per cent. by volume, and then steaming the fibre at a super-atmospheric pressure of at least approximately eight pounds.

2,421,132
TENSION EQUALIZER FOR PLASTIC EXTRUDERS

Henning T. Tornberg, Ridgewood, N. J., assignor to Modern Plastic Machinery Corporation, Wilmington, Del., a corporation of Delaware

Application October 25, 1945, Serial No. 624,385
2 Claims. (Cl. 18—14)

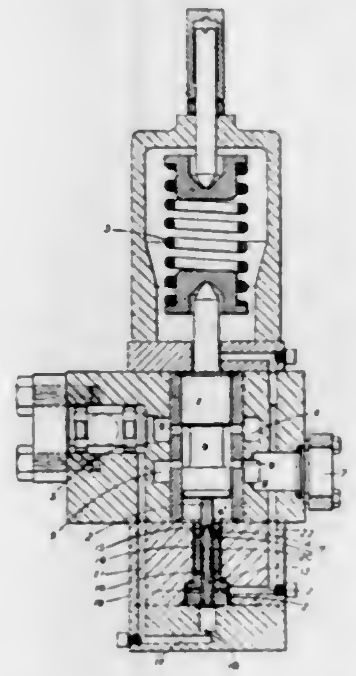


1. In combination, a plastic extruder adapted to extrude a plastic material in the form of a tube, a slitting means positioned to slit the wall of the tube at a point after the tube leaves the extruder die, an idler roller adapted to receive the material of the slit tube in web form and have contact therewith through a predetermined angle of rotary movement and a roller means adapted to receive said web after it leaves its contact with the idler roller and pull said web away from the extruder; the contour of said idler roller being such that the distance from any point in the wall of the tube lying in the circumference of the circle determined by a plane normal to the tube at the slitting point, to the point contacted on the idler roller by said circumference point in the travel of the extruded material, plus the distance along the periphery of the idler roller said circumference point remains in contact with the idler roller, is substantially a constant for all points comprising the circumference of said circle.

2,421,133
AUTOMATIC PRESSURE OPERATED HYDRAULIC PISTON TYPE ADMISSION AND EXHAUST VALVE

John Maurice Towler, Harrogate, and Frank Hathorn Towler, Otley, England, assignors to Electraulic Presses Limited, Rodley, near Leeds, England

Application October 3, 1944, Serial No. 557,014
In Great Britain June 2, 1943
8 Claims. (Cl. 137—153)

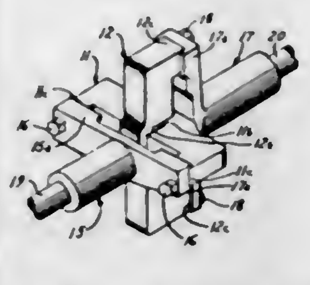


5. An automatic pressure operated hydraulic valve comprising an inlet and an outlet for pressure liquid, a valve plunger movable between a position to close and a position to open communication between said inlet and outlet, loading means opposing the movement of said valve plunger in one direction, means comprising differential piston areas permitting said plunger to be urged by hydraulic pressure to one of said positions against said load when said pressure reaches a predetermined figure, said means comprising an hydraulic ram which is normally subject to the pressure liquid, said ram constituting the smaller piston area and serving to effect initial movement of the valve plunger when said predetermined pressure is reached, valve means effective in said movement of the ram to admit pressure liquid to the plunger to permit action of the pressure liquid on the larger piston area, whereby to hold the plunger at the end of its movement until the pressure of the liquid has fallen substantially below the pressure required for actuating the ram, and valve means for controlling the release of the liquid acting on the greater piston area to permit the return movement of the plunger by the loading means.

2,421,134
UNIVERSAL JOINT

Anthony Venditty, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application July 19, 1943, Serial No. 495,244
9 Claims. (Cl. 64—14)

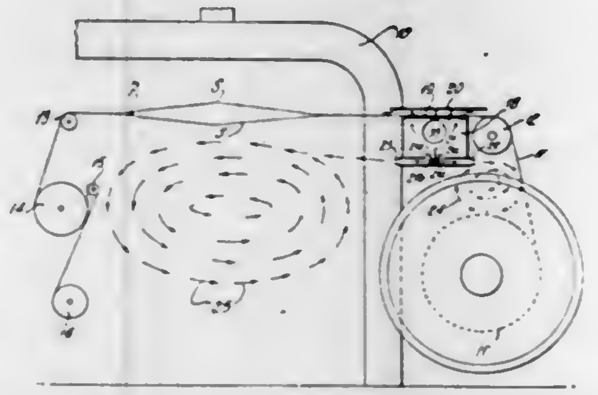


1. A universal joint comprising crossed links, a driving member bridging the crossing portions of said links secured to one link, a driven member bridging the crossing portions of said links secured to another link, said links and members forming a chain-like assembly, an independent housing receiving said links and resilient blocks between said housing and said links.

2,421,135
METHOD AND APPARATUS FOR CONDITIONING WARP, THREADS, YARNS, AND THE LIKE

Harold J. Walter, Uxbridge, Mass., and Paul R. Rose, East Orange, N. J.

Application February 28, 1945, Serial No. 580,206
6 Claims. (Cl. 139—1)



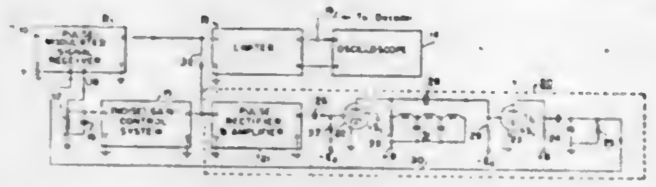
5. The method of operating a textile apparatus which comprises bringing conditioned air into contact with elements of textile material while being fabricated in said apparatus by discharging conditioned air against the elements from close proximity thereto just in advance of the place of application of maximum tension to said elements and setting up a flow of conditioned air modified by mixture with room air in a direction away from the place of application of maximum tension, and along circular paths, the boundary of which is partially defined by said elements.

2,421,136
GAIN CONTROL SYSTEM FOR PULSE MODULATION RECEIVERS

Harold A. Wheeler, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application June 1, 1945, Serial No. 597,035
18 Claims. (Cl. 178—44)

1. A wave-signal translating arrangement for translating a modulated signal which may have a predetermined maximum duration comprising, a signal-translating channel having a predetermined operating characteristic which has a normal value in the absence of said modulated signal, means responsive to said modulated signal for deriving a control potential starting early in the duration of said signal and tending to hold over for an interval substantially greater than said maximum duration, means for utilizing said

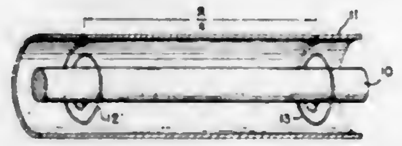


control potential to adjust said operating characteristic to a value different from said normal value, and means for effectively interrupting said control potential and for restoring said operating characteristic to its normal value after a predetermined time interval at least approximately equal to said maximum duration.

2,421,137
TRANSMISSION LINE

Harold A. Wheeler, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application June 1, 1945, Serial No. 597,036
9 Claims. (Cl. 178—44)

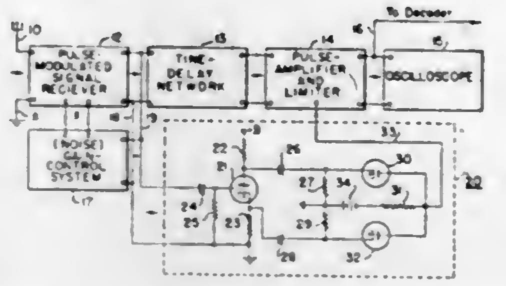


1. A transmission line for operation at a predetermined wave length comprising, a first conductor, a second conductor surrounding said first conductor and having a maximum spacing with reference thereto substantially less than one-quarter of said wave length, and a spacer for said conductors including a third conductor in mechanical and electrical engagement with said first and second conductors, disposed in the space therebetween, and having an effective electrical length substantially equal to an odd integral multiple of one-quarter of said wave length to present a maximum impedance across said line.

2,421,138
WAVE SIGNAL TRANSLATING ARRANGEMENT

Harold A. Wheeler, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application June 1, 1945, Serial No. 597,037
9 Claims. (Cl. 178—44)


To Decoder
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16
PULSE-MODULATED SIGNAL RECIEVER
TIME-DELAY NETWORK
PULSE-AMPLIFIER AND LIMITER
OSCILLOSCOPE
(NOISE) GAIN-CONTROL SYSTEM
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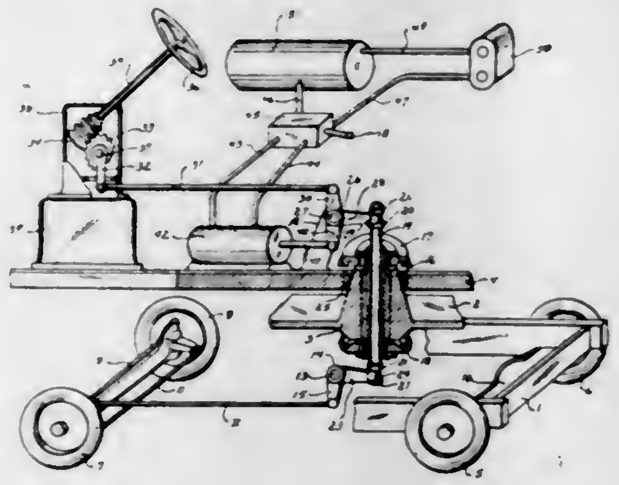
1. A wave-signal translating arrangement for translating a pulse signal which may have a sloping edge comprising, a controllable signal-translating channel for supplying said signal to a utilizing device, means connected to said channel at

one point and responsive to said sloping edge of said signal for deriving a control potential, and means for applying said control potential to a succeeding point in said channel to interrupt signal translation at said succeeding point for an interval having a duration approximately equal to and a substantial time coincidence with the occurrence of said sloping edge of said signal at said succeeding point effectively to suppress said sloping edge in the signal translated through said channel.

2,421,139
DUAL STEERING MECHANISM

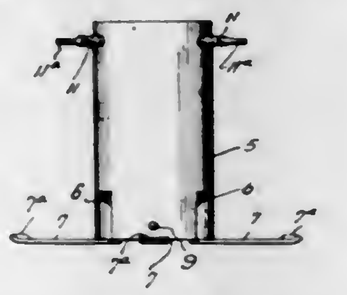
Edgar W. Barnhart, Marion, Ohio, assignor to The General Excavator Company, Marion, Ohio, a corporation of Ohio
Application September 4, 1944, Serial No. 552,697
18 Claims. (Cl. 180—79.2)



1. In a self-propelled vehicle; a chassis having a pair of shiftable wheels thereon; a rotatable deck; a center shaft and supporting element about which said deck is rotatable; an axially movable rod extending through said center shaft; means connecting said rod and said forward wheels to pivot same and steer said chassis when said rod is axially moved; and means on said deck to axially actuate said rod which includes a motor device and a manually operated device, each of said devices connected to said rod such that said devices may selectively actuate same.

2,421,140
CHRISTMAS TREE STAND

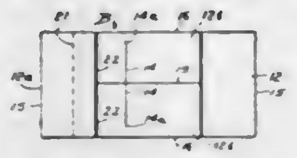
John Blaner, Sharon, Pa.
Application April 14, 1945, Serial No. 588,275
1 Claim. (Cl. 248—44)



A Christmas tree stand, comprising a tube having struck-out lugs projecting inwardly and downwardly to provide supports for the lower end of a tree trunk inserted in the tube, a series of horizontal foot bars supporting the lower end of the tube and provided with angular lugs secured directly against the inside wall surface of the tube, and a series of screws threaded through the wall of the tube to clamp the trunk of a tree therein.

2,421,141
DISPENSING PACKAGE

Trem Carr, Hollywood, Calif.
Application October 6, 1943, Serial No. 505,244
2 Claims. (Cl. 229—17)



1. A dispensing package comprising: an inner container prismatic in shape and having a triangularly-shaped pouring spout whose base extends entirely across one of the upper edges of the container; a carrier receptacle having four walls and a top of double thickness enclosing the container, one of the walls confining said pouring spout flatwise against the contaiher; the said receptacle wall and adjacent portions of adjoining walls and the outer layer of the top having score lines defining a closure that takes in a portion of the container top disposed adjacent to the pouring spout, a portion of the container wall normally contacted by the spout, and portions of the adjoining container walls; the under layer of the receptacle top having a cut lying directly beneath the top score line; the score lines on the receptacle when broken permitting the closure to be opened and to swing about the top score line as a hinge, to leave an opening in the receptacle large enough to permit the projection of the spout therethrough, said spout when being folded back down upon the container being completely covered by the closure when the latter is swung into closed position.

2,421,142
PROCESS FOR OBTAINING CRYSTALLINE RIBOFLAVIN

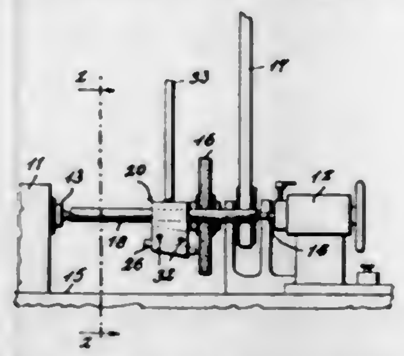
Julian K. Dale, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application April 5, 1944, Serial No. 529,679
6 Claims. (Cl. 260—211)

1. In the manufacture of crystalline riboflavin, the process which comprises treating with a polar solvent an amorphous reddish-brown reduction product of riboflavin, which has the property of dissolving in water and other polar solvents in the absence of air to form a green solution turning yellow upon oxidation due to the conversion of said reduction product into riboflavin; said polar solvent being of a type in which said reduction product is more soluble than riboflavin under oxidizing conditions and being selected from a class consisting of water, the lower aliphatic alcohols and aqueous solutions thereof, the lower ketones and aqueous solutions thereof, the lower glycols, the lower aliphatic esters and the lower glycol-ethers; subjecting the resulting solution to oxidizing conditions to form a supersaturated solution of riboflavin and causing the latter to crystallize out of said solution.

2,421,143
GRINDER WHEEL DRESSER

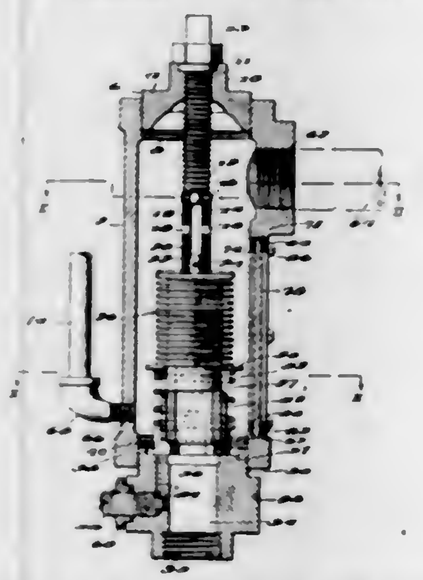
Edison M. Darland and Christopher Kassebaum, Rockford, Ill.
Application June 23, 1944, Serial No. 541,788
2 Claims. (Cl. 125—11)

1. A tool for dressing the side face of a rotating grinder wheel comprising an arbor constructed for support between centers of the head and tail stocks of a grinding machine, a tool holder having an opening for receiving the arbor therethrough and oscillatably and slidably mounted on said arbor, an inclined opening opposite the first named opening and including an inwardly extended slot, a rod mounted in the inclined opening, said rod having a diamond point fixed in one end thereof, compression means extending transversely of the slot whereby to secure the rod within the holder, and an operating handle on the holder for oscillating the latter to draw the diamond point across the face of the grinder wheel.



2,421,144
STEAM TRAP

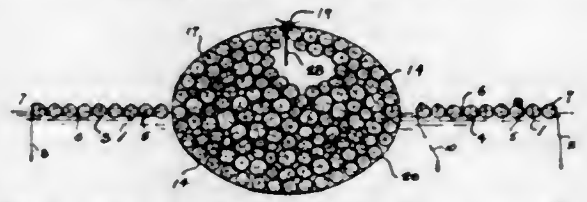
William J. Donnelly, New Britain, Conn.
Application June 8, 1944, Serial No. 539,362
4 Claims. (Cl. 236—56)



1. A steam trap of the type described comprising, a substantially hollow cylindrical housing open at each end thereof, a plug having a bore formed therein and releasably secured on one of said ends, a shaft adjustably mounted in said bore and having one of its ends projecting within said housing, a second shaft formed of heat insulating material and having one of its ends rigidly secured to the inner end of said first shaft, a bellows unit, said bellows having one of its ends fixedly secured to the other end of said non-heat conductive shaft, a valve plug having one of its ends rigidly secured to the other end of said bellows, an extension plug releasably mounted on the other end of said housing and having an outlet passageway formed therein, a valve seat formed on the inner end of said outlet passageway, a plurality of lugs disposed about the mouth of said valve seat, said lugs being rigidly secured to said extension plug, a valve plug guide collar rigidly mounted on said lugs and encircling said valve plug, a pin mounted on each of said lugs, said pins being provided with enlarged heads, an apertured disk slidably mounted on said pins between said lugs and said enlarged heads, a spring under compression having one of its ends abutting the undersurface of said disk, the other end of said disk abutting against said lugs, said disk being disposed intermediate said bellows and said spring and being constantly urged in a direction away from said lugs by said spring, and an inlet passageway formed in said housing.

2,421,145
METHOD OF BUILDING LOG RAFTS

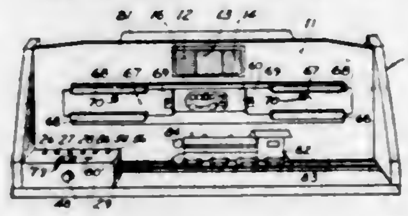
James Gordon Gibson, Vancouver, British Columbia, Canada
Application February 28, 1945, Serial No. 580,156
2 Claims. (Cl. 9—15)



1. The method of building a log raft which consists of superposing logs in side by side relation upon a flexible buoyant mat until the mat has become substantially concave in cross section, binding the superimposed logs together as a bundle raft and removing the mat from beneath the raft.

2,421,146
DEVICE TO TEACH SPEECH TO DEAF AND HARD OF HEARING STUDENTS AND OTHERS

Herman Raphael Goldberg, Brooklyn, N. Y.
Application November 2, 1945, Serial No. 626,269
16 Claims. (Cl. 35—1)



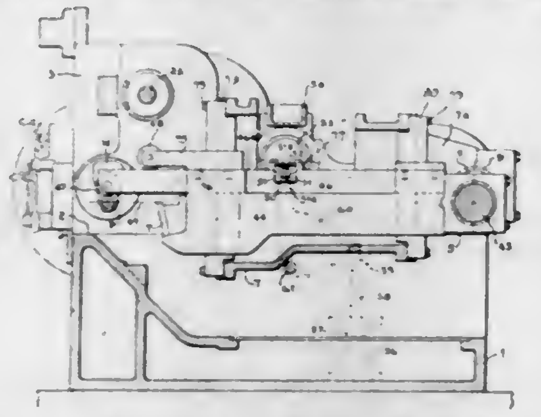
1. A device to teach increased rate, correct articulation, and normal rhythm speech to deaf and hard of hearing students and others, comprising a stand, three rapidly operable visual different signals mounted on said stand for representing breath, voiced, and nasal consonants respectively, another rapidly operable visual signal visually different from signals and mounted on said stand for representing the "ch" sound in the English language, and means including a movable tape for displaying at a desirable speed a series of symbols of familiar objects that contain the speech element or sound desired to be taught in a particular lesson.

2,421,147
ORBITAL LATHE FEED MECHANISM

William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio, a corporation of Delaware
Application August 5, 1944, Serial No. 548,189
13 Claims. (Cl. 82—9)

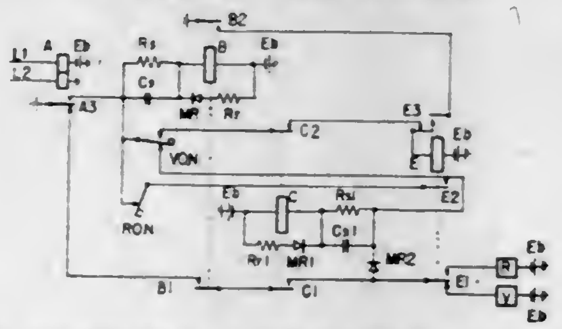
1. An orbital lathe comprising a base, a frame carried by said base for translation toward and from a work axis, a tool carrier having a longitudinal axis normal to said work axis, means on said frame mounting said carrier for movement in an orbital path so that said longitudinal axis remains substantially parallel to itself, said means including a bar member slidable on said carrier parallel to its said axis, said bar member being slidable to bring a portion thereof to be supported by a

surface of the work being turned, means mounting said bar member on said frame for sliding movement, and means to slide said bar member to bring said portion into and out of work-supported position independently of said carrier.



2,421,148
ELECTROMAGNETIC RELAY CIRCUIT

Bertram Morton Hadfield, Harrow Weald, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application May 22, 1943, Serial No. 488,026
In Great Britain June 12, 1942
5 Claims. (Cl. 179—18)

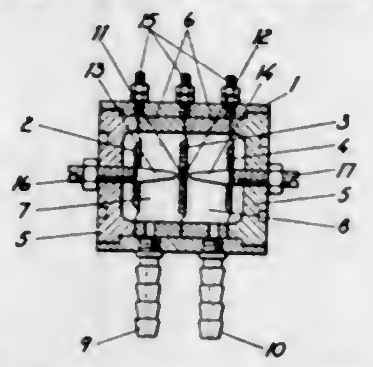


1. In combination, a relay having an energizing winding, a rectifier, a source of direct current, a first circuit path including said winding, said rectifier, and said source connected in series a second circuit path including said winding and said source connected in series but excluding said rectifier, means for completing said second circuit path to operate said relay, means for intermittently completing said first circuit path to maintain said relay operated, and electromagnetic means bridging said rectifier and said relay winding operated in response to the completion of said first circuit path to disable said second circuit path, said rectifier preventing operation of said electromagnetic means in response to the completion of said second circuit path.

2,421,149
PRESSURE ACTUATED SWITCH

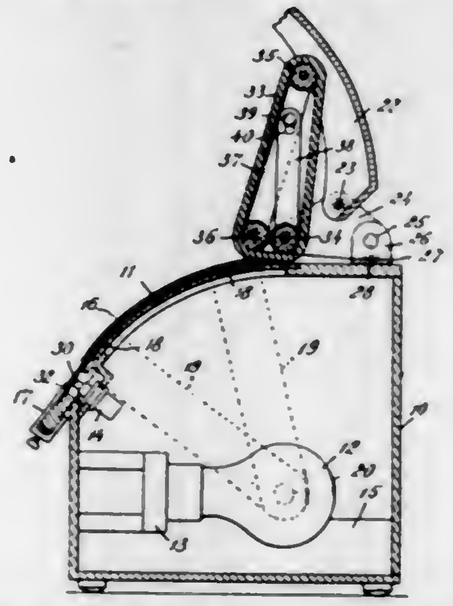
Carl Gustaf Hård af Segerstad, Sandviken, Sweden, assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden
Application January 13, 1945, Serial No. 572,677
In Sweden November 20, 1944
5 Claims. (Cl. 200—81.4)

1. An electric switch device comprising, a casing, means dividing said casing into two pressure chambers within said casing, connections for subjecting each of said chambers to a fluid pressure, the dividing means comprising a movable wall separating said two chambers from each other, a second movable wall adjoining one of said chambers only, an adjusting member engaging the outside of said second movable wall, a pair of contacts within said last-mentioned chamber comprising a movable contact operatively connected to said first-mentioned movable wall and a stationary contact operatively connected to said second movable wall, and means for electrically connecting said pair of contacts to an external circuit.



2,421,150
CONTACT PRINTER

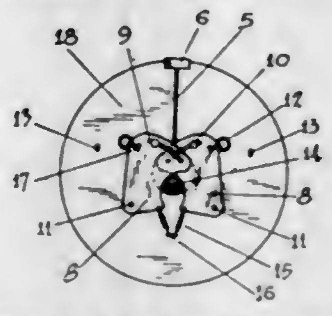
Carl H. Jacobson, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application February 19, 1944, Serial No. 523,001
8 Claims. (Cl. 95—73)



1. A contact printer having in combination, a frame, a light source, a curved window and masking blades, one set of said blades being curved to conform to the curvature of the window and the other set being movable along the curved window surface by pivoting them at the center of curvature of said window.

2,421,151
RAT GUARD FOR SHIPS' CABLES AND LINES

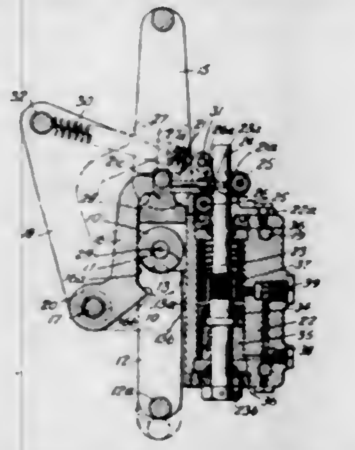
Roy Lavern Johnstone, San Francisco, and Richard Fielding Downer, Oakland, Calif.
Application July 16, 1946, Serial No. 683,838
1 Claim. (Cl. 114—221)



A rat guard for ships' cables and lines, comrising a flexible metal disc, having a concentric circular space in its central portion for the cable or line, a radial cut in the disc so that it may be bent to admit the cable or line, a lock to close the disc, after the guard has been adjusted to the line or cable, two oppositely positioned doors, slideable towards the center of the disc and operated by springs, said doors being slideable over each other, to close the spaces around the cable or line, and to press on the cable and keep the disc from slipping.

2,421,152
LOAD COUPLING DEVICE FOR PARACHUTES

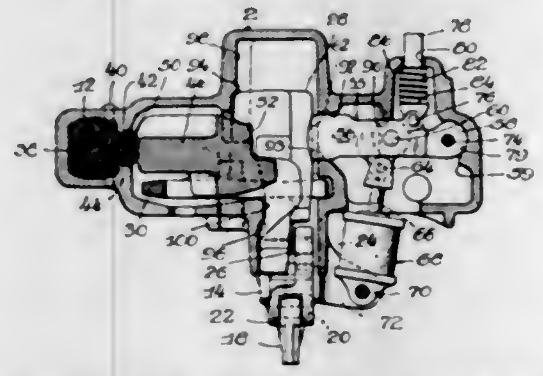
George Frederick Jones, Highgate, London, England, assignor of two-thirds to G. Q. Parachute Company, Limited, Woking, Surrey, England, a joint-stock corporation of Great Britain
Application October 5, 1942, Serial No. 460,811
In Great Britain March 10, 1942
6 Claims. (Cl. 294—83)



1. Coupling device for connecting a load to a parachute, comprising a first member connected to the load, a second member connected to the parachute, a latching gear arranged between said first and second members and adapted to hold said members in engagement so long as the airborne load is acting upon said latching gear, means for transferring the load-connected member whilst engaged by said latching gear from a preliminary to a second position on said latching gear, means for freeing the load-connected member from said second position when the load is no longer air-borne, and adjustable means for delaying the action of said freeing-means until after the lapse of a predetermined period of time.

2,421,153
COUPLER

Edmund P. Kinne, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 23, 1943, Serial No. 491,864
34 Claims. (Cl. 213—153)



1. In a coupling, mating couplers each comprising a pivoted knuckle, a laterally spaced guard arm, and a lock presenting substantially vertical walls for compression between said knuckle and means on the supporting coupler spaced from said knuckle, said knuckles being capable of limited rotation under locked conditions, a plurality of resilient means housed in said couplers, said resilient means comprising a plurality of resilient members in each coupler compressible between the knuckle thereof and the throat and guard arm respectively of the adjacent coupler, said first-mentioned means within each coupler including means for moving the associated lock laterally therewithin and toward the knuckle side thereof for tightening the engagement between said couplers after the same have been coupled, said last-mentioned means comprising a toggle mechanism housed within each coupler for engagement with the adjacent side of the associated lock.

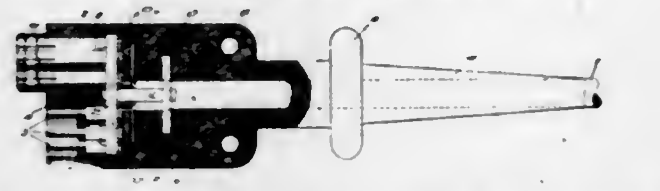
2,421,154
ALUMINUM POWDER AND RESIN SPOT FACING MATERIAL

Curtis E. Maier, Elmhurst, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application June 22, 1943, Serial No. 491.856
6 Claims. (Cl. 117—160)

1. A flexible closure liner facing material for beer containers, consisting of a non-metallic base having thereon an adherent coating exposed to the beer and consisting essentially of water-insoluble and beer-nonreactive semi-permeable resin material and 1 to 20 percent of aluminum flake powder distributed throughout the resin material, the aluminum flakes being enclosed in the resin and being effective to reduce the rate of permeation of moisture and gas constituents of the beer into the coating and effective when the liner is exposed to beer to produce, through the slow penetration of the vapor and gas constituents from the beer through the resin and back to the general container contents, a bleaching action restricted by the effect of said resin whereby to offset darkening of color and development of cloudiness in the beer during its shelf life.

2,421,155
ELECTRIC CABLE UNIT AND METHOD OF MAKING THE SAME

James B. Miller, Webster Groves, and James H. Simpson, Maplewood, Mo., assignors to Mines Equipment Company, St. Louis, Mo., a corporation of Missouri
Application July 28, 1941, Serial No. 404,302
6 Claims. (Cl. 173—328)

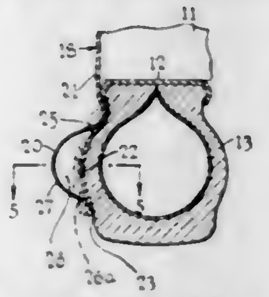


1. In combination with a molded connector of the character described, a cable formed with a permanent, resilient rubber-like sheath throughout its length, a rigid anchor member on said sheath, and vulcanized rubber means securing said anchor member to said sheath.

2,421,156
SPEED EQUALIZING LANDING WHEEL

Emerson M. Morrow, Gibsonia. Pa.
Application October 19, 1943, Serial No. 506,810
1 Claim. (Cl. 244—103)

In combination with a landing wheel for aeroplanes equipped with a pneumatic tire, a disc secured to one side of said wheel, a convexly curved radial flange on said disc arranged to be engaged by a side wall of said tire, and a plurality of elongated flexible automatically collapsible open pockets provided in circumferentially spaced relation on said flange, the mouth of each pocket lying in a transverse plane inclined rearwardly with relation to a radius passing through the inner transverse end of said mouth, and each pocket arranged with the long axis thereof extending substantially circumferentially of the disc and tapering to a closed end in the direction of rotation of the wheel when the aeroplane is landing.



2,421,157
METHOD OF SEPARATING FATTY ACIDS

Latimer D. Myers, Cincinnati, and Victor J. Muckerheide, Silverton, Ohio, assignors to Emery Industries, Inc., Cincinnati, Ohio, a corporation of Ohio

Application January 20, 1942, Serial No. 427,492

4 Claims. (Cl. 260—419)

4. A process for conditioning fatty acid stock to enable crystal fractions having good filtering characteristics to be precipitated from a solvent solution of the stock cooled to a predetermined temperature, which process comprises blowing air through said stock for a period of time sufficient to increase the neutral fat content of the stock to a value within the range of from approximately .2% by weight of the stock to approximately 3½%.

2,421,158
CUTTING OIL BASE

Latimer D. Myers, Cincinnati, and Victor J. Muckerheide, Silverton, Ohio, assignors to Emery Industries, Inc., Cincinnati, Ohio, a corporation of Ohio

No Drawing. Original application May 20, 1942, Serial No. 443,842, now Patent No. 2,393,927, dated January 29, 1946. Divided and this application June 27, 1945, Serial No. 601,923

5 Claims. (Cl. 252—33.3)

1. A cutting oil base consisting essentially of approximately 40 to 50 parts by weight of potash rosin soap, 30 to 40 parts by weight of glyceryl mono oleate, an appreciable quantity, up to 5 parts, of potassium oleate for emulsifying purposes and 5 to 10 parts by weight of water, the said composition also including from approximately 5 to 10% by weight of oil soluble mineral oil sulphonates.

2,421,159
CUTTING OIL BASE

Latimer D. Myers, Cincinnati, and Victor J. Muckerheide, Silverton, Ohio, assignors to Emery Industries, Inc., Cincinnati, Ohio, a corporation of Ohio

No Drawing. Original application May 20, 1942, Serial No. 443,842, now Patent No. 2,393,927, dated January 29, 1946. Divided and this application June 27, 1945; Serial No. 601,924

6 Claims. (Cl. 252—49.5)

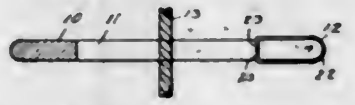
1. A cutting oil base consisting essentially of approximately 45 parts by weight of rosin soap, 35 parts by weight of glyceryl mono-oleate, an appreciable quantity up to 5 parts by weight of red oil soap for emulsifying purposes, and approximately 5 to 10 parts by weight of water.

2,421,160
SLAT CLASP FOR VENETIAN BLINDS

Carl V. Newbill, Portland, Oreg.

Application April 14, 1945, Serial No. 588,361

1 Claim. (Cl. 160—173)



A clasp for blind slats consisting of an elongated channel having the intermediate portion of its upper side inturned to form a closure across a portion of the open side of said channel.

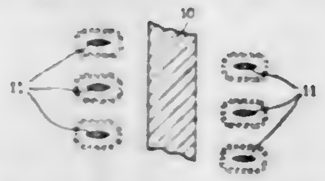
2,421,161
GRID STRUCTURE FOR ELECTRON DISCHARGE TUBES

Leslie Kearton Parker, Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware

Application June 4, 1945, Serial No. 597,462

In Great Britain July 7, 1944

3 Claims. (Cl. 250—27.5)



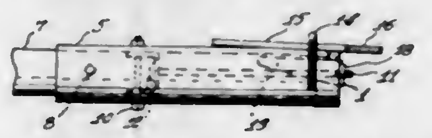
1. In an electron discharge device having an anode and a cathode, an intermediate electron control electrode of a drawn flattened wire of conducting material, said wire having a cross section forming a full ellipse with its major axis in line with the electron emitting cathode.

2,421,162
SNATH FOR SCYTHES

John M. Quindry, Fairfield, Ill.

Application November 30, 1946, Serial No. 713,296

4 Claims. (Cl. 306—1.3)



1. In combination, a socket tube having a handle secured to one end thereof, a bolting ring sliding through the tube, a wedge disposed in the tube and engaging the bolting ring, a scythe blade having a tang seated on the tube and engaged by the bolting ring, and means for developing pressure between the wedge and the bolting ring to clamp the blade tang against the tube.

2,421,163
PURIFICATION OF 1-1′-5′-1″-TRIANTHRIMIDE-2-2′-6′-2″-DICARBAZOLE

Mario Scalera, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 16, 1943, Serial No. 506,553

6 Claims. (Cl. 260—318)

1. A method of separating 1,1′,5′,1″-trianthrimide-2,2′,6′,2″-dicarbazole from monochlorinated-1,1′-dianthrimide-2,2′-carbazole, which comprises slurrying the mixture with sulfuric acid of over 95% by weight, the amount of acid being sufficient to convert the products into the sulfates and to dissolve the sulfate of the monochlorinated dianthrimide carbazole and separating, without dilution, the sparingly soluble sulfate of the dicarbazole from the solution of the sulfate of the monochlorodianthrimide carbazole.

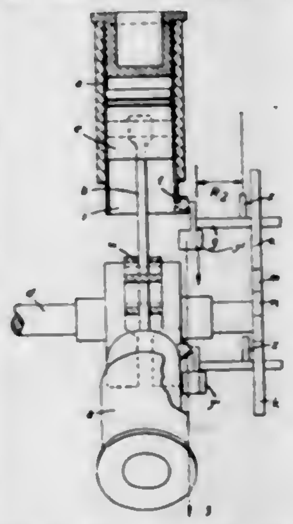
2,421,164
SLEEVE BALANCING ARRANGEMENT FOR RADIAL ENGINES

Alexander Senkowski, Cheltenham, England

Application May 24, 1945, Serial No. 595,645

In Great Britain April 15, 1944

4 Claims. (Cl. 123—81)



4. A radial cylinder engine comprising a plurality of cylinders, a sleeve valve in each cylinder, a piston within each sleeve valve, a crank shaft with a single crank, connecting rods between said pistons and said crank, operating mechanism for said sleeve valves comprising half speed shafts one for each sleeve valve with cranks thereon adapted to oscillate said sleeve valves, gearing between said crank shaft and said half speed shafts adapted to rotate the latter in the opposite direction of rotation to the crank shaft, and counterbalance masses on each of said half speed shafts, comprising a counterbalance mass oppositely disposed to the crank on each such shaft and adapted to counterbalance unbalanced forces due to the rotation of said crank and associated movements of said sleeve valve, and to overbalance moments due to the said crank and sleeve valve, and additional counterbalancing means on said half speed shaft so disposed thereon as to produce during rotation of said shaft a couple opposing the excess moment due to said counterbalance mass.

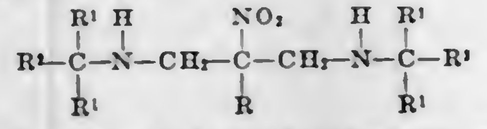
2,421,165
PROCESS FOR PREPARING NITRO AMINES

Murray Senkus, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application April 12, 1943, Serial No. 482,757

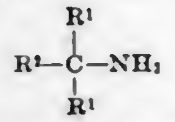
4 Claims. (Cl. 260—570.9)

1. A process for the preparation of nitro amines of the type:



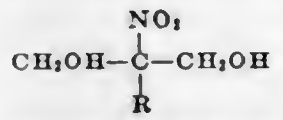
$$R^2-\underset{R^1}{\overset{R^1}{C}}-\overset{H}{N}-CH_2-\underset{R}{\overset{NO_2}{C}}-CH_2-\overset{H}{N}-\underset{R^1}{\overset{R^1}{C}}-R^2$$

in which R is a member selected from the group consisting of alkyl, halogen, hydrogen and aryl; R^1 is a member selected from the group consisting of hydrogen, hydroxymethyl and alkyl, and R^2 is a member selected from the group consisting of aryl, hydrogen, aralkyl, alkyl, and hydroxymethyl, which comprises mixing at temperatures between about 25° C. and 75° C. an amine of the class



$$R^2-\underset{R^1}{\overset{R^1}{C}}-NH_2$$

in which R^2 represents a member selected from the group consisting of hydrogen, aryl, alkyl, aralkyl, and hydroxymethyl, and R^1 is a member selected from the group consisting of hydrogen, hydroxymethyl and alkyl, with a nitro glycol of the formula:



$$CH_2OH-\underset{R}{\overset{NO_2}{C}}-CH_2OH$$

wherein R is a member selected from the group consisting of hydrogen, alkyl, halogen and aryl and allowing the mixture to stand until reaction has occurred.

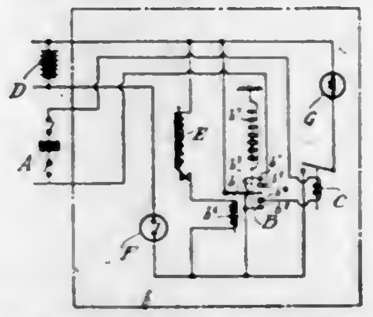
2,421,166
MEANS FOR GIVING WARNING OF THE FORMATION OF ICE ON AIRCRAFT

John Edward Sherlock, Sunbury-on-Thames, England

Application April 24, 1942, Serial No. 440,382

In Great Britain June 11, 1940

7 Claims. (Cl. 177—311)



7. A device for detecting and giving warning of the approach of conditions favorable to ice formation on aircraft, comprising a tube having an open end adapted to face the wind, apertures being provided at the opposite end of said tube for increasing the static pressure within the tube by restricting the air flow through it, electrical resistance elements consisting of series of metallic rings alternating with rings of insulating material disposed in said tube, an electrical circuit connected to said resistance elements and having means for connecting it to an electric signalling device adapted to be operated when said circuit is completed by deposition of moisture on said electrical resistance elements, a source of electric current supply for said circuit, a main relay for controlling said signalling device, said relay being connected in said circuit with said resistance elements and energized therethrough in response to deposition of moisture on the insulating material between said resistance elements, a commutating relay connected in said circuit and operative to alternately reverse the polarity of said resistance elements, and means connected in said circuit for periodically operating the commutating relay.

2,421.167
PARACHUTE CLUSTER

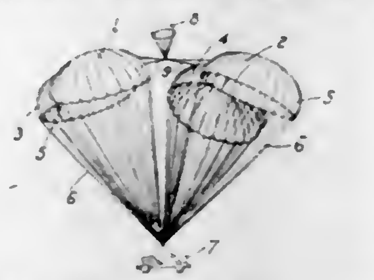
Prevost F. Smith, San Diego, Calif.

Application June 19, 1945, Serial No. 600,321

8 Claims. (Cl. 244—142)

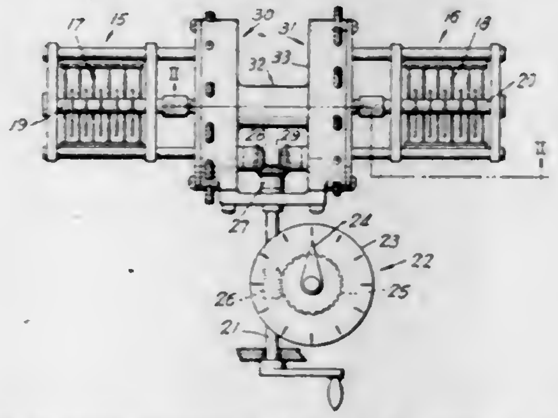
1. A parachute cluster comprising a plurality of main parachutes, cargo supporting means

common to said main parachutes and spaced substantially equal distances from the several main parachutes, a pilot parachute, and separate means for directly connecting said pilot parachute with the apices of the respective main parachutes, said connecting means being of sufficient length to permit the full opening of each main parachute.



2,421,168
POSITIONING MECHANISM

Hamilton Alan Stamper, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 29, 1945, Serial No. 596,578
13 Claims. (Cl. 74—10)

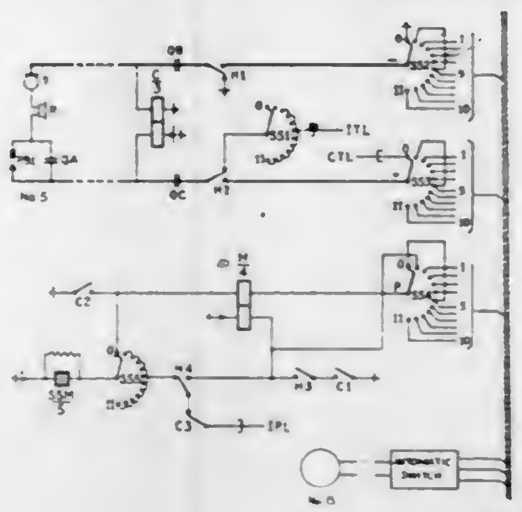


1. In a mechanism having a driving member and means for moving it into any one of a first set of predetermined positions and a driven member to be moved by said driving member into any one of a second set of predetermined positions, means comprising: stop means adjacent the path of movement of said driving member having a plurality of adjustable portions corresponding to said first set of predetermined positions; a compensating element mounted on said driving member for limited movement with respect thereto and having a follower adapted to successively engage said adjustable portions of said stop means as said driving member moves through said first set of predetermined positions, whereby a different portion of the stop means independently determines the position of said compensating element in each of said first set of predetermined positions; and means jointly responsive to the position of said driving member and the position of said compensating element for positioning said driven member in said second set of predetermined positions.

2,421,169
AUTOMATIC TELEPHONE SYSTEM DIRECTED WITH THE AID OF REVERTIVE AUDIO-FREQUENCY SIGNALS

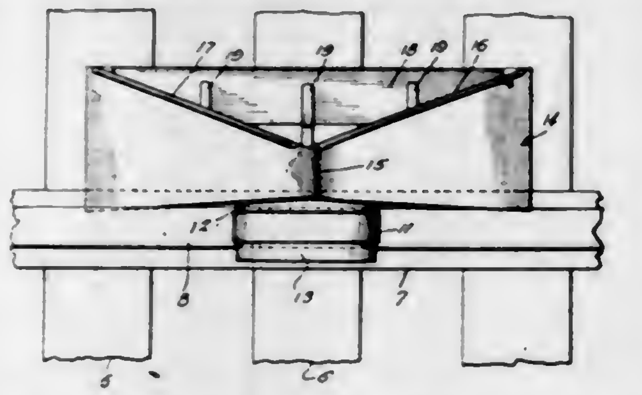
Reginald Taylor and George Thomas Baker, Liverpool, England, assignors to Automatic Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application May 27, 1944, Serial No. 537,564
In Great Britain July 8, 1943
13 Claims. (Cl. 179—16)

1. In a telephone system, a plurality of telephone substations each including a receiver, an exchange, lines connecting each of the substations to the exchange, switching means in the exchange having a plurality of selecting positions each corresponding to one of said substations, means controlled over a calling one of said lines for initiating the operation of said switching means, means in the exchange for thereafter causing said switching means to be successively advanced through said plurality of selecting positions and for concurrently transmitting a series of audio frequency impulses over the calling line, each of said impulses corresponding to one of said selecting positions, said impulses causing audible signals to be produced by the receiver at the calling substation to indicate the progress of said switching means, said second means being controlled over the calling line to stop the advancement of said switching means when it has reached a position corresponding to a desired station.



2,421,170
CAR RERAILER

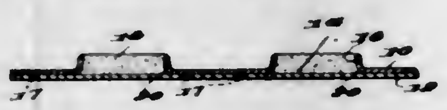
Harry J. Thomas, Greensboro, N. C.
Application August 3, 1944, Serial No. 547,853
3 Claims. (Cl. 104—265)



1. A car re-railer of the type shown and described comprising a single casting fashioned into a unitary openwork frame, said frame comprising a substantially triangular vertically disposable adapter wall proportioned and constructed for spaced disposition adjacent to and alongside of a coacting standard railroad rail, the outer end portions of said wall being laterally disposed and adapted to rest directly on the rail base flange, an inverted substantially V-shaped plate, said plate secured to and extending at approximate right angles from the upper edges of said adapter wall, the end portions of said plate slanting downwardly and outwardly from the vertical median top portion of the frame and defining wheel ramps, the edges of said ramps spaced outwardly from said adapter wall being provided with upstanding longitudinal ribs, said ribs constituting wheel confining guides, the vertex portion of said plate inclining laterally and toward the head of the rail in a manner to receive and then laterally shift the wheel in the direction of said rail head, the vertex of said plate being formed with an integral outstanding horizontal retainer, said retainer being adapted to rest upon and hook over the head of the rail, said retainer embodying a wheel flange guiding groove, the latter spaced from and at right angles to said vertex, and a horizontally disposed relatively narrow tie spanning bar, said bar being connected at its outer ends to the transverse outer end portions of said plate, said bar being laterally and outwardly spaced from the vertical adapter wall, and retaining and anchoring means on the underside of said bar adapted to abut an adjacent tie to limit slippage of the frame after its working position is established.

2,421,171
ANTISLIP SURFACE

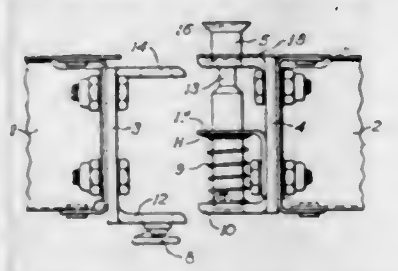
George Trautvetter, Jenkintown, and Francis Lambert, Narberth, Pa., assignors to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 30, 1944, Serial No. 561,112
4 Claims. (Cl. 94—5)



1. An article of manufacture comprising, a tread plate of sheet metal having a plurality of openings, and a reinforcing plate of sheet metal having a plurality of depressions of substantially the same configuration as said openings but slightly larger than said openings, said reinforcing plate being disposed beneath said tread plate with the openings in said tread plate in register with said depressions, said tread plate and said reinforcing plate being secured together in face to face contact to form a laminated structure, and anti-slip material disposed in the pockets formed by said openings and depressions.

2,421,172
QUICKLY DETACHABLE FASTENER

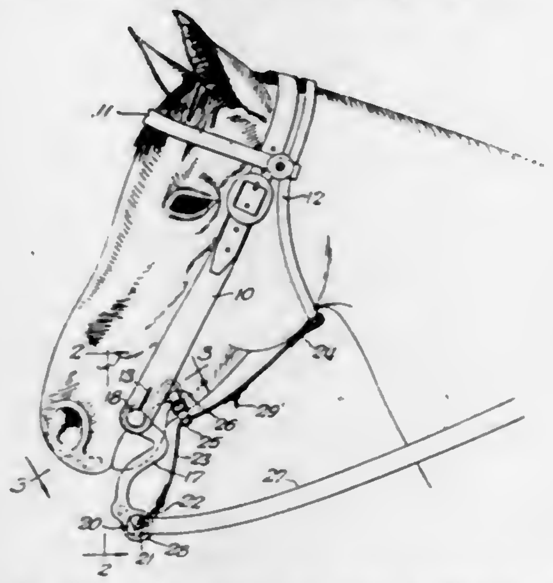
Charles J. Ulrich and Anthony F. Weissenberger, Los Angeles, Calif., assignors to North American Aviation, Inc.
Application June 7, 1944, Serial No. 539,158
5 Claims. (Cl. 189—36)



5. A joint for a pair of wall members to be joined in co-planar relationship, including spaced projecting lugs on each wall member overlapping to provide two pairs of adjoining lugs, said lugs having apertures one of which is provided with a necked-down open slot, a bolt having spaced body portions connected by a reduced portion, said body portions engaging in said apertures to join said members together with said reduced portion disposed between the respective adjoining pairs of lugs, said bolt being shiftable from the position in which said body portions are thus engaged to a position in which one of the body portions is withdrawn from one of the apertures of its respective pair of apertures and the other body portion is moved relatively to said slotted aperture sufficiently to permit said reduced portion to pass through said slot, a head at one end of said bolt adapted to seat against one of the outermost lugs, quickly detachable coupling means coacting with the opposite end of said bolt and adapted to yieldingly urge said head into said seating engagement, and a coil spring surrounding one of said body portions and adapted for automatically moving said bolt to the releasing position when said coupling is uncoupled.

2,421,173
BRIDLE BIT

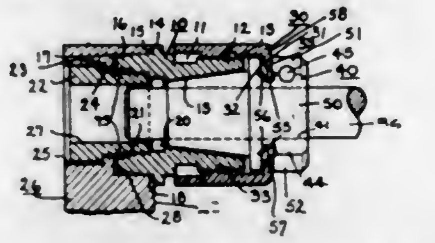
Eugene L. Ulrich, Pendleton, Oreg.
Application January 9, 1946, Serial No. 640,020
3 Claims. (Cl. 54—6)



1. A bridle having in combination a pair of cheek straps, a straight bit mounted across the lower end of said straps, bit arms depending from the ends of said bit, a cross bar constituting a counter-weight disposed in front of the lower ends of said bit arms, a throat latch attached to said cheek straps, and a strap secured to said cross bar between the lower ends of said bit arms and the under side of said throat latch adapted to limit the swinging movement thereof.

2,421,174
QUICK-CHANGE CHUCK

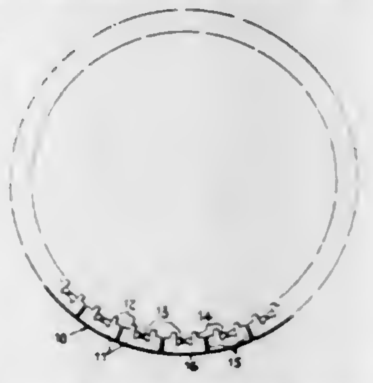
Clayton E. Wyrick, Miami, Fla.; Mary R. Wyrick, executrix of said Clayton E. Wyrick, deceased, assignor to Hopkins-Wyrick Laboratories, Inc., Miami, Fla., a corporation of Florida
Application August 5, 1944, Serial No. 548,229
10 Claims. (Cl. 279—16)



2. A tool chuck including in the combination a chuck body having a tapered axial bore therein to receive a tool holder, transverse recess means in said body adjacent said bore, a tool holder, means on said tool holder to clamp a tool therein, said tool holder having a tapered portion for positioning in said bore and having a radially elongated col-

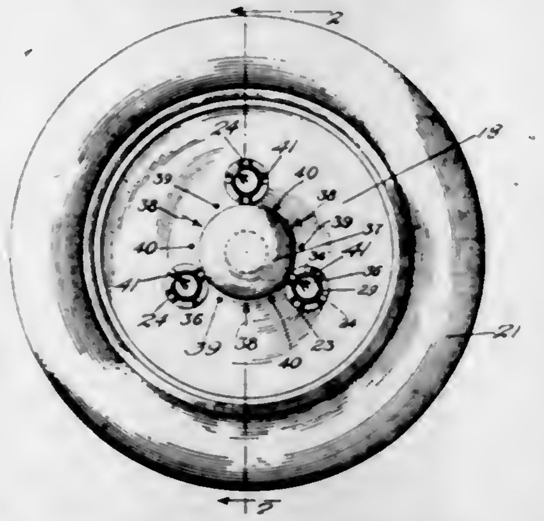
lar to engage said recess means whereby to drive said tool holder from said body, and retaining means on said body removably securing said tool holder therein and having two selective positions one of which rigidly secures said tool holder to said body with said tapered parts in intimate engagement for positive axial alignment thereof and the other retains said tool holder loosely in said body but with said collar in driving engagement with said recess means, whereby the tool carried by said tool holder can float in axial alignment of said body during the work operation.

2,421,175
PISTON RING
Victor F. Zahodiakin, Short Hills, N. J.
Application March 22, 1946, Serial No. 656,384
5 Claims. (Cl. 309—45)



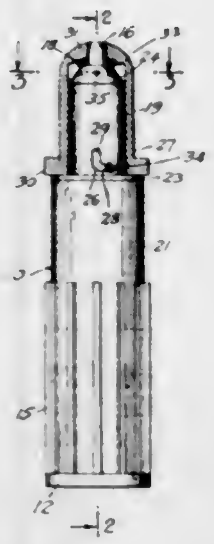
1. A piston ring comprising a strip of resilient sheet material folded in a rectangular body, said strip of material providing upper and lower crowns having circumferential edges for the scraping of oil, said crowns integrally connected by links, and struts adapted to retain, in rigid position, the crowns of the ring, one end of each strut being integrally connected with the crowns and the other end of each strut disposed in contact with adjacent crowns straddling the radial slot between the crowns.

2,421,176
DEMOUNTABLE WHEEL
David Adams, Detroit, Mich.
Application November 20, 1945, Serial No. 629,758
6 Claims. (Cl. 301—9)



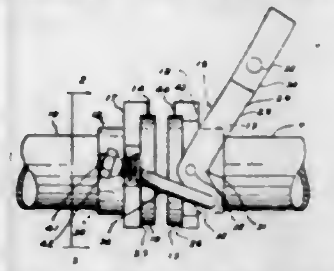
1. A demountable wheel comprising a hub, arms radiating from the hub, each arm having at least one cam-receiving slot near its free end, the axes of the slots lying concentric with the axis of the hub, a wheel disk and an annular series of cams carried by the wheel disk for entry into the slots to lock the wheel disk to the hub and effect driving connection between the hub and wheel disk.

2,421,177
NASAL INHALER
Huna L. Apfelbaum, Brooklyn, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application October 24, 1944, Serial No. 560,085
1 Claim. (Cl. 128—198)



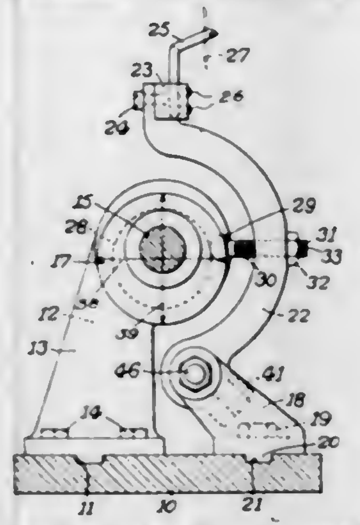
A pocket inhaler adapted to be held in one hand and manipulated by the fingers of the same hand and comprising a one-piece elongated container, valve part, air inlet part and locking part combined, said one-piece container being in the form of a pair of integral coaxial hollow cylinders of different inner and outer diameters, the larger cylinder being open at its lower end and constituting the container part of the inhaler, the smaller cylinder terminating at its upper end in a solid teat constituting the aforementioned valve part, a conical wall on the smaller cylinder below the teat, said wall having a flat annular shoulder at the upper end thereof, an annular gasket on said shoulder, the wall having inclined spaced perforations therethrough, a second flat annular shoulder at the juncture of the cylinders, a second annular gasket on the second shoulder, a removable closure for the open end of the larger cylinder comprising a head and an upstanding skirt within the periphery of the head and fitted to the inner surface of the larger cylinder, the smaller cylinder having an L-shaped slot therethrough constituting said inlet part and said locking part combined, one leg of the slot being parallel to the axes of the cylinders and the other being at an obtuse angle to said one leg and subtending an angle less than 90°, both legs being closed at the respective outer ends thereof, a hollow cover on the outside of the smaller cylinder and having a smooth inner surface fitted to the outer surface of the smaller cylinder and slidable axially thereon and also rotatable thereon, an outstanding flange at the lower end of the cover adapted to be pressed into engagement with the second gasket, an end wall on the cover having an opening therein to receive the teat, and a pin carried by the flange of the cover and extending inwardly thereof into the slot, the pin being arranged at the upper end of said one leg of the slot when the cover is raised off the teat and the air inlet slot is exposed, and being at the closed end of the other leg of the slot when the slot is covered and the teat is in the opening of the cover to compress both of said gaskets, to lock the cover against separation from and accidental movement relatively to the container and to seal the interior of the container against the entrance of outside air thereinto.

2,421,178
CLAMP
Morton H. Baker, Brookline, and John F. Blackburn, Cambridge, Mass., assignors, by mesne assignments, to United States of America, as represented by the Secretary of War
Application December 9, 1944, Serial No. 567,514
2 Claims. (Cl. 285—171)



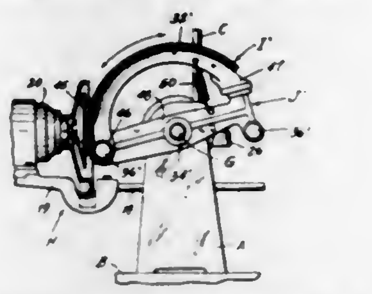
1. A clamping device for connecting two lengths of pipe having outstanding flanges on the adjacent ends thereof comprising, in combination, a pair of substantially parallel U-shaped members adapted to receive pipe ends within the U-shaped recesses thereof, the opposing faces of said members being adapted to engage the pipe side of said flanges, a pair of arms extending from the side walls of one of said members in planes normal to the plane of the flange-engaging face of said member, a slot disposed longitudinally and centrally in each said arm, the other of said members having projecting pivot members rotatably and slidably mounted in said slots, a pair of parallel rotatable members pivotally mounted on the ends of said pivot members projecting beyond said slots, an arcuate slot in each said rotatable member, said slot having a greater radius at one end than at the other end providing a camming surface in each said rotatable member, a lug extending outwardly from the end portion of each of said arms and engaging said camming surface of said arcuate slot, and a handle member rigidly associated with and connecting said rotatable members, whereby movement of said handle member rotates said rotatable members and moves said camming surfaces relative to said lugs thereby moving said rotatable members longitudinally relative to said arms while being rotated and thereby imparting movement to said second member to and from said first member.

2,421,179
LOOPER MECHANISM FOR SEWING MACHINES
Leslie Mark Ballamy, Caterham, and Richard Hasell Sheepshanks, Eyke, Woodbridge, England
Application October 7, 1943, Serial No. 505,372
In Great Britain October 23, 1942
7 Claims. (Cl. 112—200)



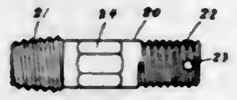
1. Looper mechanism for a sewing machine comprising a cam rotatable about an axis and having follower engaging surfaces for actuating the follower radially and axially of the cam, a looper supporting arm having a follower engaging said cam, and a resilient mounting for one end of said arm yieldably urging the follower into contact with the cam and permitting movement of the arm both radially and axially of the cam through corresponding movement of the follower.

2,421,180
EQUIPMENT FOR GRINDING BRAKE-SHOE LINING SECTIONS
Harry B. Barrett, Ladue, Mo.
Application March 25, 1944, Serial No. 528,033
8 Claims. (Cl. 51—124)



1. Grinding equipment including a pedestal, a hub on the pedestal, a grinder on the hub, a shaft on the pedestal concentric with the hub for mounting a lined brake-shoe on the pedestal for lining grinding by the supported grinder, and a gauge on the pedestal having a contactor finger which is radially disposed in relation to the shaft for indicating brake-drum measurement during grinding operation.

2,421,181
STUD BOLT
James William Batchelder, Alstead, N. H.
Application January 23, 1943, Serial No. 473,291
4 Claims. (Cl. 85—1)

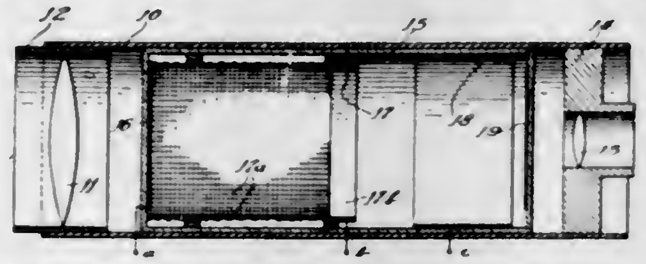


2. A stud bolt having a threaded tapered end for engagement with a mating tapered hole in a stud-receiving element and a threaded portion in the same hand as said end for engagement with a threaded nut, the taper of said tapered threaded end being sufficiently large so that no deformation forces beyond the elastic limit of the stud or the material into which it is threaded without any tapping action are produced so that when the stud is set up in the element under a torque at least substantially equal to that employed to set up the nut, the reverse direction torque necessary to be exerted on the stud to remove it from the element is greater than the reverse direction torque necessary to back off the nut, whereby the stud remains tight in the element when the nut is backed off.

2,421,182
STROBOSCOPE
Robert T. Bayne, Manitowoc, Wis.
Application October 29, 1943, Serial No. 508,257
15 Claims. (Cl. 250—41.5)

2. Stroboscopic apparatus including: a photosensitive cathode of considerable area; means for affecting said cathode by light derived from a view of an object being studied, to develop a stream of electrons in a pattern instantaneously corresponding to an instantaneous view of said

object; a fluorescent screen adapted to be affected by the stream of electrons to render said pattern visible; and means for periodically simultaneously interrupting the entire stream of said electrons without affecting the pattern thereof.



2,421,183

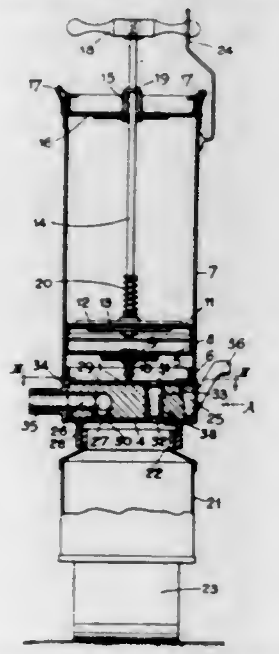
APPARATUS FOR SPRAYING POWDERS, ATOMIZED LIQUIDS, AND THE LIKE

Courtenay Cakebread, Fortyhill, Enfield, England

Application February 12, 1945, Serial No. 577,547

In Great Britain July 3, 1944

2 Claims. (Cl. 222—4)



1. Spraying apparatus comprising in combination a canister for holding spraying material, an air cylinder in axial alignment with the receptacle, a piston within the cylinder, an external handle for reciprocating the piston, a valve controlling flow of air from the cylinder, a cylindrical distributor housing in direct communication with apertures in canister and cylinder, a rotary barrel distributor within the cylindrical distributor housing, a transverse port in the distributor adapted to connect the apertures in canister and cylinder to provide passage for air under pressure to the canister, a pair of ports in V-disposition in the distributor respectively connecting the air cylinder direct to an axial passage in the distributor or the canister to the same axial passage for egress therethrough of air-borne material from the canister, a discharge nozzle connecting with said axial passage in the distributor and means for rotating the distributor to bring the appropriate ports into action.

2,421,184

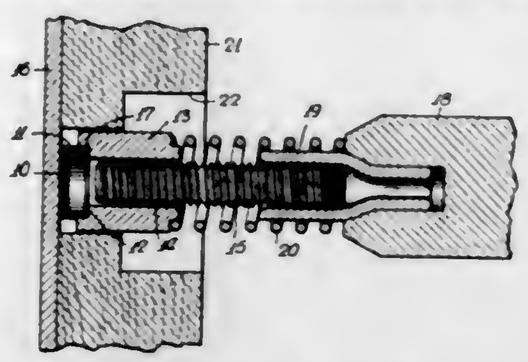
APPARATUS FOR ELECTRIC WELDING OF STUDS

Albert M. Candy, La Grange, Ill., assignor to Hollup Corporation, Chicago, Ill., a corporation of Illinois

Application April 3, 1944, Serial No. 529,298

1 Claim. (Cl. 219—17)

A stud welding apparatus of the type in which there is provided an adapter having a socket for detachably holding a stud and pressing it against the part to which it is to be welded, and for use in connection with a flat ended ferrule of heat-resistant material, said apparatus having a sleeve provided with a central passage through which the stud may move and on which stud said sleeve may slide, one end of said sleeve being recessed to provide a socket for receiving and centering said ferrule in respect to said stud, the inner end of said socket forming a shoulder for engaging one end of said ferrule, and a spring carried by and engaging said adapter and engaging the other end of said sleeve, whereby said sleeve presses said ferrule against said part during movement of the adapter and said stud toward said part and the compressing of said spring.



2,421,185

DUSTLESS SALT AND PROCESS

Rock L. Comstock, Weeks, La., assignor to Bay Chemical Company, Inc., New Orleans, La., a corporation of Louisiana

No Drawing. Application August 19, 1943, Serial No. 499,283

9 Claims. (Cl. 99—143)

1. The process of producing a free-flowing substantially dustless granular salt from a free-flowing granular water-soluble salt containing fine material in the form of dust, which comprises, applying to the particles of said salt an aqueous solution of a water-soluble adhesive which will dry to an adherent film, said solution having a concentration between approximately 15% to 30% adhesive, the amount of said solution providing between approximately 0.005 and 0.1% of said adhesive by weight on a dry basis on said salt.

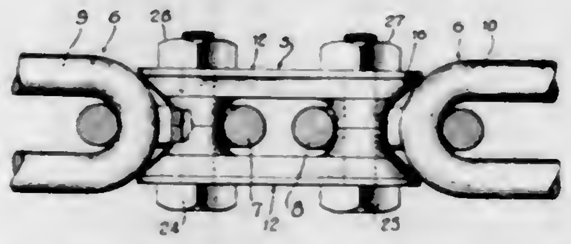
2,421,186

CHAIN LINK

Howard A. Delano, York, Pa., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York

Application June 15, 1944, Serial No. 540,487

5 Claims. (Cl. 59—87)



1. A half-link comprising a plate provided with semi-circular ends and with a continuous beveled corner on one side of said plate, and bosses projecting from said side of said plate at the center of said semi-circular ends and having at their outer ends bearing surfaces for abutment with mating surfaces on the bosses of a similar link, said bosses and plate being provided with through-holes extending axially of said bosses.

2,421,187

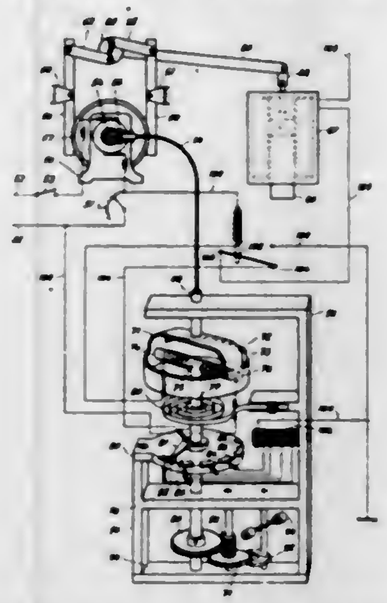
BRAKING DEVICE REGULATED BY MOTOR SPEED AND LOAD

Ernest Alphonse Derungs, Le Locle, Switzerland

Application December 23, 1943, Serial No. 515,406

In Switzerland July 3, 1942

3 Claims. (Cl. 188—158)



1. In a device, a mover to be braked, a brake in operating relation with said mover, an operator in relation with said brake, arranged to put said brake automatically into action, an apparatus for automatically regulating the braking intensity of said brake, comprising, a rotatable part in driven connection with said mover, forming the one half of an induced current coupling, an oscillatingly rotatable means operative to adjust the effect of said operator upon said brake, forming the other half of said induced current coupling so as to be in driven relation with said rotatable part for rotation in one direction, a driver connected with said oscillatingly rotatable means to rotate the latter in the other direction for adjusting said operator's effect upon said brake, and a regulator coupled with said oscillatingly rotatable means on its rotation in said other direction to adjust the duration of the latter.

2,421,188

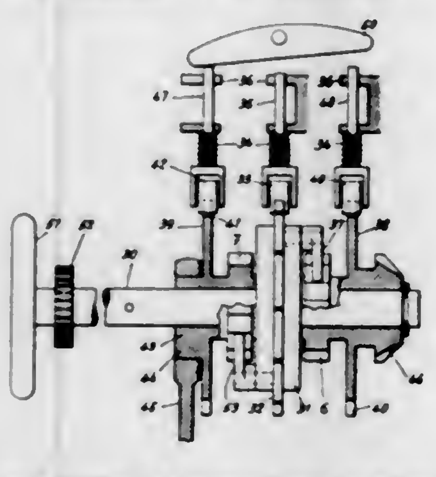
TRANSMISSION CONTROL DEVICE

Ernest Alphonse Derungs, Le Locle, Switzerland

Application December 23, 1943, Serial No. 515,407

In Switzerland May 24, 1943

5 Claims. (Cl. 192—3.5)



1. In a machine, a coupling control member, a speed selector control member, a member movable in opposite directions, and means operable during the movement of the movable member in one direction for coupling said movable member with said speed selector control member and operable during movement in the other direction for coupling the movable member with said coupling control member, and a locking device preventing manipulation of the speed selector control member during operation of the coupling control member by said movable member.

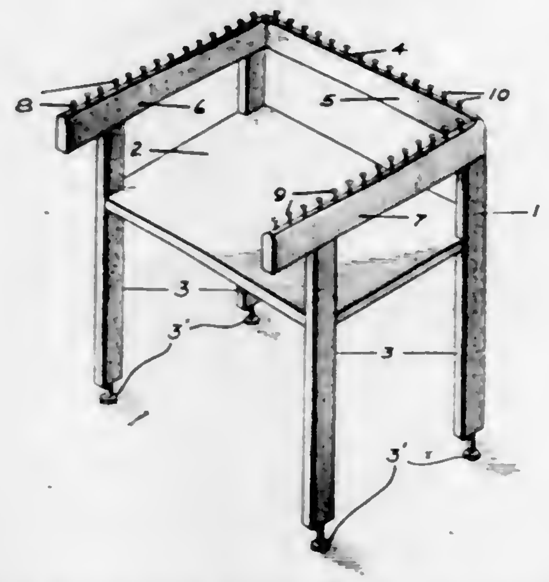
2,421,189

SUPPORTING FRAME FOR FABRICATING MATERIAL

Harry Robertson Dillon, Niagara Falls, N. Y.

Application June 8, 1945, Serial No. 598,288

2 Claims. (Cl. 28—15)



1. In a supporting frame for fabricating material, the combination of spaced upright supporting legs, a U-shaped frame consisting of a forward end and two sides surmounting the upper extremities of the legs, a top comprising a plane secured to said legs in a horizontal position below the said frame, and providing a suitable space for the hands and arms of an operative located in the area facing the forward end of said frame between the two sides thereof; both the top and frame located at an appreciable distance above the lower or free extremities of the legs which are adapted to be placed upon the floor or other supporting medium, and a plurality of pegs disposed upon the upper edge of said U-shaped frame and being spaced in uniform fashion.

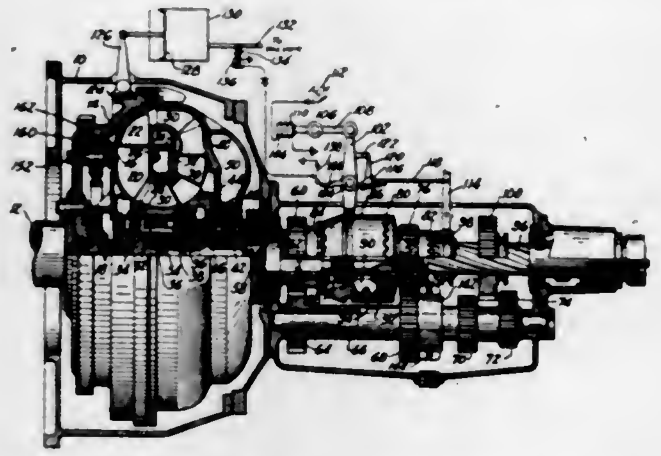
2,421,190

HYDRAULIC TRANSMISSION CONTROL

Adiel Y. Dodge, Rockford, Ill.

Application April 16, 1941, Serial No. 388,725

4 Claims. (Cl. 74—189.5)



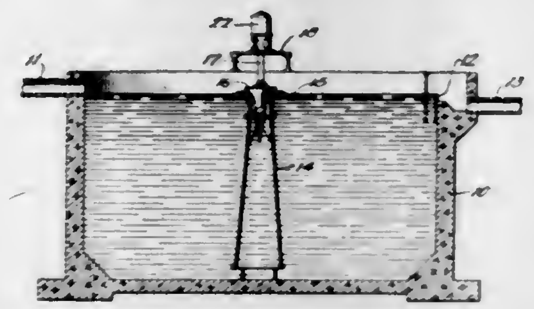
1. A transmission for connecting a driving shaft to a driven shaft comprising a hydraulic torque transmitting device including a driving member and a driven member, a gear chain con-

necting the driven member to the driven shaft including a shiftable member to change the torque ratio of the gear chain, means to shift the shiftable member, a clutch responsive to the speed of the driving shaft to connect it to the driving member, a brake engageable with the driving member, and means operated by shifting of the shiftable member to control the brake.

2,421,191
MECHANICAL AERATING DEVICE

Augustus C. Durdin, III, Rockford, Ill., assignor of twenty-four per cent to Lewis H. Durdin, Franklin, Pa., and fifty-two per cent to Augustus C. Durdin, Jr.; The Northern Trust Company, executor of said Augustus C. Durdin, Jr., deceased

Application February 2, 1944, Serial No. 520,813
1 Claim. (Cl. 259—97)

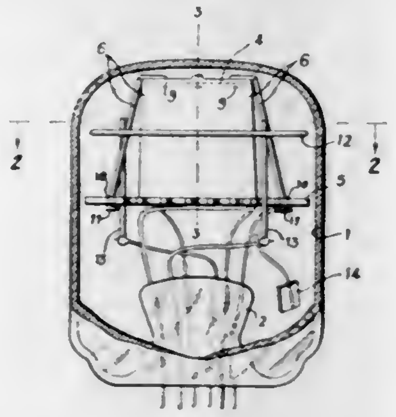


A mechanical aerator comprising a tube for fluid flow flared at its outlet end, a reaction cone mounted in the flared outlet end and spaced from the walls thereof, an impeller adjacent the inner end of the cone to cause circulation of fluid through the tube, a series of guide vanes at the inlet side of the impeller secured to the tube and tapering in width from their inlet ends to a maximum such as to leave a central free space in the tube aligned with the impeller, and a series of reactance vanes on the flared end of the tube to receive fluid from the impeller and direct it out the end of the tube, the reactance vanes being supported solely by the tube and having their inner edges spaced from the cone.

2,421,192
MULTICATHODE PHOTOTUBE

Ralph W. Engstrom, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application May 29, 1943, Serial No. 489,000
6 Claims. (Cl. 250—165)

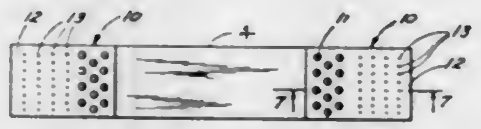


1. A phototube comprising an envelope, a plurality of cathodes and an anode within said envelope, said cathodes lying along surfaces forming a truncated pyramid whose apex is outside said envelope.

2,421,193
SURGICAL DRESSING

William James Gardner, Cleveland Heights, Ohio, assignor to Cleveland Clinic Foundation, a nonprofit corporation of Ohio

Application August 2, 1943, Serial No. 496,982
5 Claims. (Cl. 128—335)

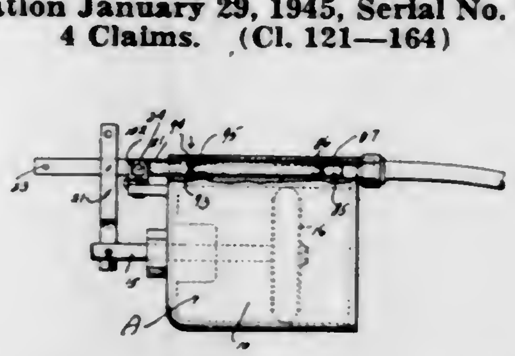


1. A dressing comprising a highly elastic web portion, means for attaching said web to the body comprising a terminal portion of thin metal having the elastic web portion secured to one marginal portion thereof and having the other marginal portion provided with a plurality of skin engaging barbs.

2,421,194
SUCTION ACTUATED MOTOR FOR WINDSHIELD WIPERS

David M. Given, Jr., Newark, N. J.

Application January 29, 1945, Serial No. 575,045
4 Claims. (Cl. 121—164)



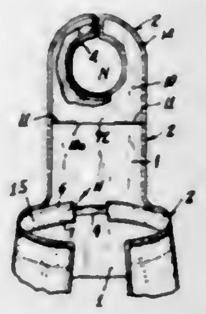
1. A suction actuated motor comprising a cylinder, a piston slidable in the cylinder, a suction regulating valve, reciprocation means connecting the piston with the suction regulating valve to shift the position of the latter at the extremes of movement of the piston, duct means in the cylinder and valve for shifting the suction from one side of the piston to the other as the piston approaches an extreme position at either end of its movement, duct means for admitting air at the opposite side of the piston within the cylinder at the change of suction in the cylinder from one side of the piston to the other, auxiliary duct means on the valve for transferring suction to one side of the piston only at a parking position of the valve, and means to move the valve to such position.

2,421,195
APRON

Pauline Goldsmith, New York, N. Y.

Application February 8, 1946, Serial No. 646,228
1 Claim. (Cl. 2—48)

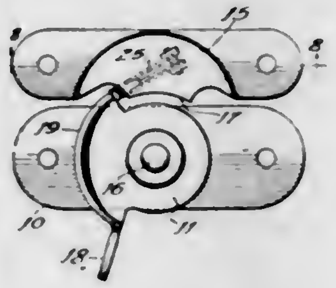
An apron which comprises a body-layer of fabric, said body-layer having outer longitudinal marginal edges at the top portion of said body-layer, said body-layer having a cut-out which provides a neck-opening between said marginal edges at the top of said apron, said body-layer having separate edges at the rear of said neck-opening, a supplemental layer of fabric which is located at the rear of said body-layer, said supplemental layer extending transversely across the respective part of said body-layer, the bottom-edge of said supplemental layer being below said neck-opening, said supplemental layer having a cut-out which coincides with said first-mentioned cut-out, said supplemental layer and said body-layer being continuously stitched to each other at the edges of said cut-outs and at said longitudinal marginal edges, said bottom edge being stitched to the body-layer by transverse stitches which are interrupted substantially at the median point of said bottom edge, a blade neck-spring which is located between said layers and which abuts the connected edges of said cut-outs, said neck-spring being shaped to be inserted between said layers and to be removed from its position between said layers at said median point.



2,421,196
SASH LOCK

Fred Granberg, Chicago, Ill.

Application October 12, 1944, Serial No. 558,359
6 Claims. (Cl. 292—336)



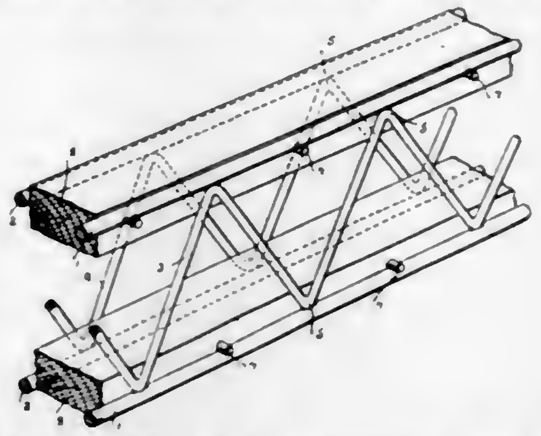
1. A self-locking fastener for a check rail window or the like comprising: a rotatable locking plate mounted on the check rail of one sash of said window; a catch mounted on the check rail of the other sash of said window for engagement with said rotatable plate to lock the window; means including an inclined surface integral with the catch for automatically moving the rotatable plate into unlocking position as the window approaches closed position; spring means for moving the rotatable plate into locking position when the window reaches closed position; and means including a spring-actuated stop for holding the rotatable plate in open position for opening the window, said stop having an engaging face adjacent to but projecting beyond said inclined surface so that the rotatable plate pushes said stop aside when the window is being closed.

2,421,197
STRUCTURAL MEMBERS FORMED OF METAL AND TIMBER

Douglas Harold Green, London, England

Application May 26, 1945, Serial No. 595,897
In Great Britain May 16, 1944
5 Claims. (Cl. 189—40)

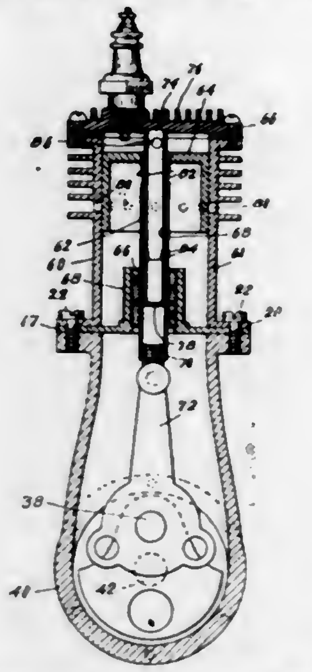
1. Structural members comprising ladders formed of straight metal elements and bent metal lattices welded between the straight elements and having a timber fixing located between one edge of one ladder and one edge of another ladder and metal pins traversing the timber fixing and secured to the edges of the ladders.



2,421,198
INTERNAL-COMBUSTION ENGINE

Leonard A. Guaraldi, Somerville, Mass.

Application November 1, 1945, Serial No. 625,999
3 Claims. (Cl. 123—74)

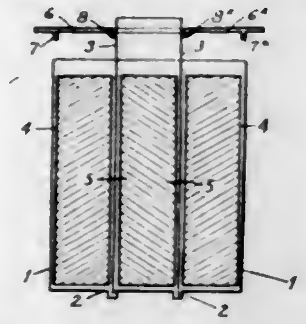


3. In an internal combustion engine, a relatively short cylinder having an end wall at each end thereof, a relatively short piston operable in the cylinder for relatively high compression of the same charge of fuel both on the inward and the outward strokes of the piston, a rigid tubular shank on the piston extending through the inner end wall of the cylinder, a rigid shank on the outer end wall of the cylinder extending with sliding fit axially within said tubular shank of the piston, means for admitting a fresh charge of fuel into the cylinder on the inner side of the piston during the outward stroke of the piston whereby said fresh charge is relatively highly compressed by the piston in its inward stroke, an annular series of exhaust ports in the cylinder walls at a location to be uncovered as the piston approaches its inner limit, ports in said shanks on the inner side of the piston adapted to register when the piston approaches its inner limit, there being a port in said end-wall shank close to the outer end wall of the cylinder whereby said compressed charge is by-passed to the extreme outer end of the cylinder during registration of the shank ports at the inner side of the piston, said by-passed charge entering the outer end of the cylinder behind the spent gases therein for effectively driving said spent gases out through said annular series of exhaust ports.

2,421,199

PROCESS FOR PRESERVING EGGS

Hanns A. Gutmann, Vineland, N. J.
Application July 22, 1944, Serial No. 546,082
2 Claims. (Cl. 99—161)

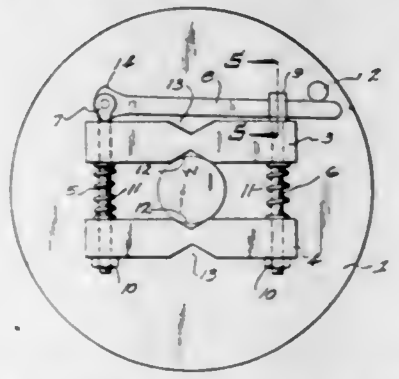


1. A method of preserving eggs, said method comprising introducing into a container a centrally arranged tubular insert, filling into the space between the wall of said insert and the wall of the container raw egg white, coagulating said egg white, removing said tubular insert, filling raw egg yolk into the central space left in the coagulated egg white, coagulating the egg yolk and sterilizing and sealing the container.

2,421,200

LATHE DOG

Clinton S. Hall, Farmington, Mich.
Application March 24, 1944, Serial No. 527,969
3 Claims. (Cl. 82—41)

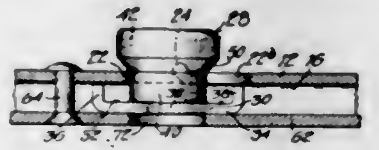


1. A driver comprising a pair of parallel bars, a pair of bolts passed slidably through the ends thereof, a spring on each bolt between said bars and adapted to spread the bars, a lever pivoted on an end of one of said bolts, and a retainer for said lever on the corresponding end of the other bolt, said retainer being resilient and having a restricted neck of less internal width than the entering thickness of said lever.

2,421,201

FASTENING MEANS

Robert Lay Hallock, Larchmont, N. Y., assignor to Elastic Stop Nut Corporation of America, Union, N. J., a corporation of New Jersey
Application April 20, 1943, Serial No. 483,739
21 Claims. (Cl. 85—32)

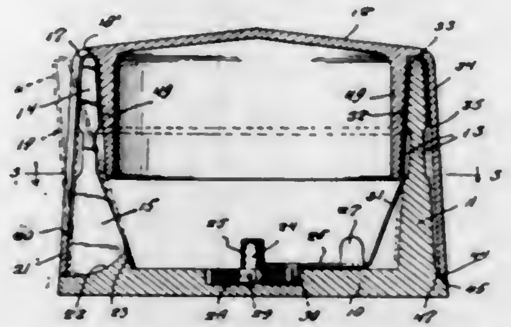


1. A fastening device comprising a retaining member adapted to be secured to another body, said member having a web portion provided with an aperture, and a fastening element extending through said aperture, said element being shiftable laterally of said aperture from a first position to a second position and being shaped to engage said member to be retained in assembled relation therewith when in said first position and to be removable therefrom through said aperture in a direction away from said body when shifted to said second position.

2,421,202

HAIRPIN DISPENSER

Harold M. Howard, Elmhurst, Long Island, N. Y.
Application August 21, 1945, Serial No. 611,771
4 Claims. (Cl. 312—69)

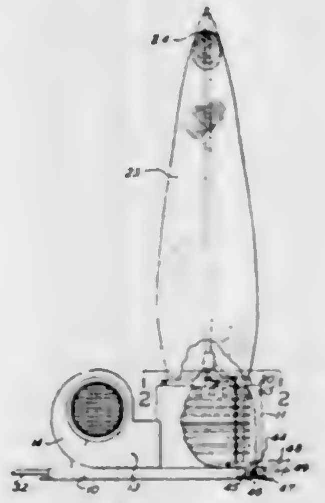


3. A hairpin dispenser comprising a circular base member having an annular upstanding flange adjacent the periphery of the base member, said flange being tapered corresponding to the flaring of the legs of the hairpin, said flange comprising a rack upon which a plurality of hairpins are placed in straddling relation thereto and closely adjacent and abutting each other in an annular stack on the rack, spring follower means for urging the stack of hairpins on the rack in one direction, said rack having a slot therein and into which slot the leading hairpin is forced under pressure of the spring follower, a cover member applicable to said base member and enclosing the hairpins placed on the rack portion of the base member, said cover member having a slot therein coincident with the slot in the rack portion of the base member, and means within the device for causing an outward tilting movement of the leading hairpin as the same reaches the slotted portions of the rack member and the cover member.

2,421,203

GARMENT FINISHING APPARATUS

George W. Johnson, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application February 14, 1946, Serial No. 647,506
3 Claims. (Cl. 223—73)

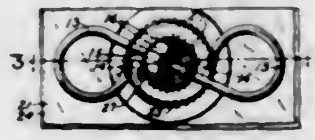


1. Finishing apparatus of the character described, comprising a double walled dished member having an open top central cavity within its inner wall and an annular dish shaped closed chamber between its inner and outer walls, means for circulating steam through said closed chamber, thereby to maintain said walls in heated condition, a steaming nozzle communicating with and supplied from the upper portion of said chamber and discharging into said cavity, and means for supporting a garment in distended form above said cavity, whereby steam discharged from said nozzle is delivered in dry form to the space within said garment.

2,421,204

FASTENER FOR ADJOINING SHEETS OR PLATES

William Jung, Forest Hills, N. Y.
Application September 11, 1943, Serial No. 502,037
3 Claims. (Cl. 24—221)

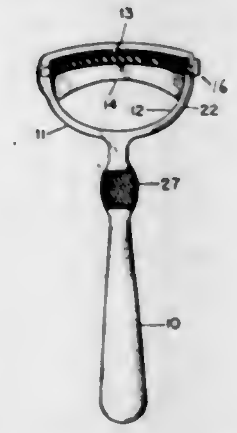


1. In a spring-member of a device for fastening sheets or plates to one another, said spring-member having a central substantially circular opening and having springy loops at opposite sides of said central substantially circular opening and having a stub projecting away from a plane in which the marginal elements of the central opening lie, said stub being insertable into a lateral recess of a catch-receiving opening in one of said sheets or plates for preventing undue rotary movement of said spring-member with respect to said one of the sheets or plates, said spring-member including a catch-engaging element that is yieldingly supported by said springy loops and is spaced from said central opening so as to be movable toward and from said central opening when cooperating with a catch of the type described, said catch-engaging element being at least partly across said central opening and disposed substantially along a diametral line of the latter.

2,421,205

RAZOR

Errol F. Kingsley, Multnomah County, Oreg.
Application June 1, 1945, Serial No. 597,067
10 Claims. (Cl. 30—49)

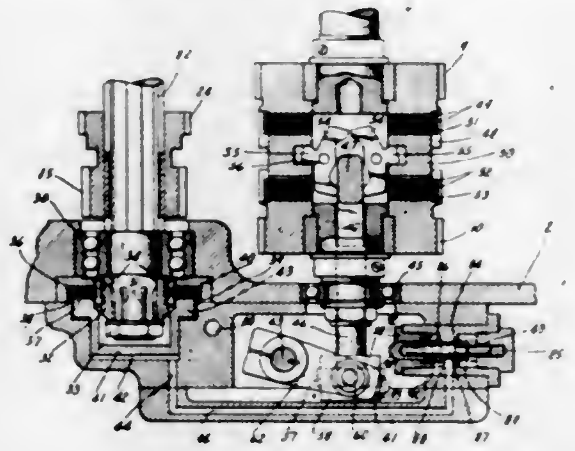


1. A razor of the class described, consisting of a handle having a pair of forked arms disposed on one end thereof and having a curving plate joining said arms at the outer ends thereof, together with a guard member hingedly attached to one of said arms near a junction with said plate in spaced relation with said curved plate, and a clamping jaw attached to said guard adapted to bear against the underside of a wafer razor blade when said guard is in a latched position the arm opposite the hinge of the guard member having a recessed portion in its outward surface slightly below its joinder with a plate connecting the upper portion of said arms and having a spring wire attached to said arm adapted to be pressed against the end of the wafer razor blade member when the clamping jaw is closed.

2,421,206

HYDRAULIC BRAKE MECHANISM AND CONTROL THEREFOR

Oskar Kylin and Henrik O. Kylin, Cleveland Heights, Ohio, assignors to Bardons and Oliver, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 12, 1943, Serial No. 486,684
4 Claims. (Cl. 192—4)



1. In a machine tool having a part movable at a preselected rate, means for preselecting the rate of said movable part, a drive for said part including a reversing clutch mechanism, a brake acting directly on said movable part, a single control means for operating said brake and said reversing clutch mechanism, a clutch shaft directly operable by said control means, and means engageable by said control means and responsive to such engagement to actuate said brake, said control means being movable when said clutch mechanism is disengaged to select a rate change for said movable part, and means associated with said movable part and responsive to said control means to select a rate change for said movable part.

2,421,207

METHOD OF MANUFACTURING LUMINESCENT SULFIDES AND SELENIDES

Humboldt W. Leverenz, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application January 26, 1942,
Serial No. 428,228
5 Claims. (Cl. 252—301.6)

1. The method of making phosphor crystals which consists in heating to its crystallizing temperature a mixture of a compound of a metal selected from the group consisting of zinc, and cadmium and mixtures thereof and an element selected from the group consisting of sulphur and selenium and mixtures thereof, an activator for said compound and a flux for the heated compound soluble in a hot aqueous solution of a compound of hydrogen and said element, cooling the mixture and alternately washing it with hot distilled water and said hot aqueous solution to eliminate the flux and prevent contamination of the phosphor crystals with a precipitate not crystallized by said heating.

2,421,208

METHOD OF APPLYING PHOSPHOR MATERIAL TO A SUPPORT MEMBER

Humboldt W. Leverenz, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application May 5, 1945, Serial No. 592,287
2 Claims. **(Cl. 117—33.5)**

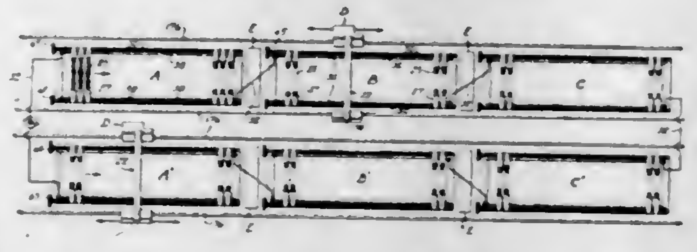
1. The method of applying a fluoride phosphor to a base, which comprises suspending above the base fine particles of the fluoride in a saturated solution of magnesium sulphate in alcohol, removing the supernatant alcohol after the phosphor particles have settled onto said base and evaporating the remaining alcohol to cause the magnesium sulphate to bind the phosphor particles together and to said base.

2,421,209

ELECTROLYTIC REFINING OF METALS

Karl A. Lindner and William M. Morrison, Plainfield, and Adolph Busche, Stelton, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey

Application January 30, 1942, Serial No. 428,820
12 Claims. (Cl. 204—108)



3. An electrolytic machine for refining impure metal electrodes by electrolysis comprising a tank for holding electrolyte, a plurality of racks spanning said tank, each of said racks comprising an anode and a cathode with intermediately spaced electrodes of impure metal to be refined spacedly supported on the rack and arranged for suspension in electrolyte in the tank, means for electrically connecting the anode and cathode electrodes on the respective racks to a source of direct electric current and for passing electric current from the anode and through the electrolyte to each of the spaced intermediate electrodes on a rack solely through the electrolyte in series to the cathode, means for moving said racks of electrodes as units from one end of said tank to the other, means for conducting electric current to the electrodes on the racks continuously as same are moved from one end of the tank to the other, and crane means operatively associated with said rack moving mechanism for elevating and lowering a selected rack of electrodes while maintaining its relative horizontal spacing between adjacent racks and while continuing the movement of the racks of electrodes from one end of the tank toward the other.

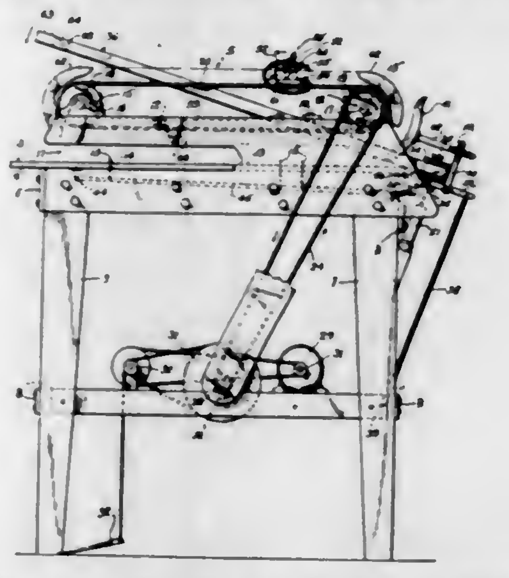
2,421,210

SCREEN STENCIL MACHINE WITH TRAVELING ORBITAL INKER

Nathan Louft, Silver Spring, Md.

Application April 7, 1944, Serial No. 530,007
12 Claims. (Cl. 101—123)

1. A printing machine of the character set forth, the combination of, a bed-plate, endless conveyors mounted thereover in space parallel relation, a clamp pivotally secured to the bed-plate, a printing screen carried by the clamp and operable between the conveyors, means yieldingly retaining the clamp and printing screen in inclined elevated position at one end, a squeegee connected to said conveyors, a paint trough connected to said conveyors and disposed adjacent the squeegee, stock guide-pins slidably extending through the bed-plate, shoes connected to the conveyors in alignment with the inclined sides of the screen, a frame supporting the bed-plate, side members on the frame, squeegee guide rails on the side members, a paint-guard in the path of the squeegee at a point beyond its working cycle on the screen, means securing the paint-guard to the clamp, means connecting the stock guide-pins to the clamp, cushioning means connected to the clamp, and power transmitting means including a clutch connected to the conveyors.

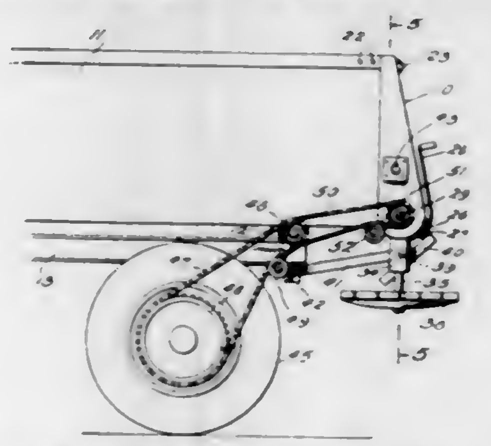


2,421,211

SPREADING ATTACHMENT

Wilmer Albert Lutz, Bucyrus, Ohio

Application November 2, 1944, Serial No. 561,589
6 Claims. (Cl. 275—8)



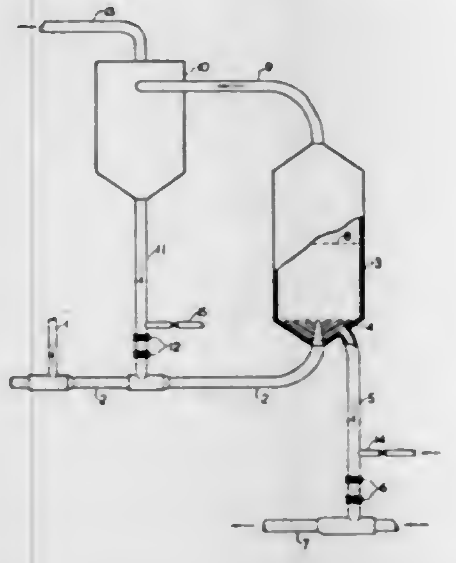
1. A spreading attachment comprising a casing to close the rear end of a dump truck body, said casing having an open front and comprising a back wall, a bottom and end walls, said bottom having material outlets spaced inwardly from said end walls, a horizontal shaft rotatably supported by said end walls near said bottom and having means whereby it may be driven, said shaft having means for feeding material along said bottom to said outlets, vertical bearings under said shaft, means pivotally suspending said bearings from said shaft near said end walls, said bottom having openings through which said bearings extend, hoods over these openings to prevent leakage of material therethrough, said openings being sufficiently large to permit said casing to tilt while said bearings remain vertical, vertical shafts mounted in said bearings and having spreading disks on their lower ends, gearing connecting said vertical shafts with said horizontal shaft, means connected with said bearings for holding them substantially vertical while said casing tilts with the dump body, and means for conducting material from said outlets to said spreading disks.

2,421,212

OPERATION OF FLUIDIZED SYSTEMS

William V. Medlin, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application November 3, 1943, Serial No. 509,012
6 Claims. (Cl. 196—52)



1. In the operation of a fluidized system wherein a solid in the form of particles ranging from about 0 microns diameter up to about 100 mesh is cycled through a reaction or treating zone and is maintained in a fluidized condition in said reaction or treating zone by means of a stream of gas or vapor which normally carries with it in suspension a portion of the solid particles, the improvement which comprises continuously separating suspended particles from said gas or vapor in a fractional manner, thereby to separate portions of the solid particles having different average particle sizes, recycling to the main portion of said solid separated particles having a diameter of from about 20 microns up and withdrawing from the system particles having a diameter below about 20 microns in such an amount to maintain the concentration of particles between 0 and 20 microns in said system below about 5%.

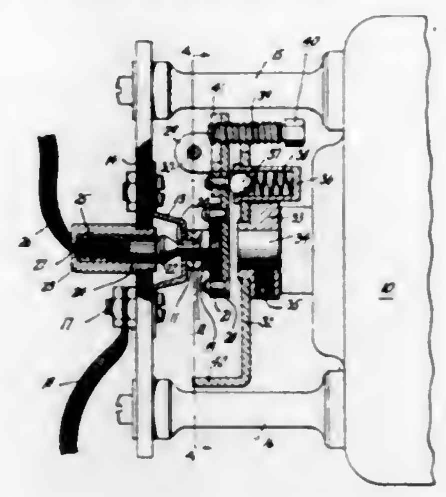
2,421,213

CENTRIFUGAL OPERATED SWITCH

John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California

Application April 5, 1944, Serial No. 529,884
4 Claims. (Cl. 200—80)

1. A governor for an electric motor comprising contacts in the motor circuit, said contacts being relatively movable to open and close the motor circuit, means movable in response to centrifugal force for causing relative movement of said contacts, a member rotated by the motor, means for pivoting said movable means on said member, a weight mounted on said movable means and adjustable as a unit with respect to the pivotal axis of said movable means to position selected parts of the unitary weight respectively on opposite sides of said pivotal axis, centrifugal force acting on one part of said weight in one direction around said pivotal axis and centrifugal force acting on another part of said weight in the opposite direction around said pivotal axis.

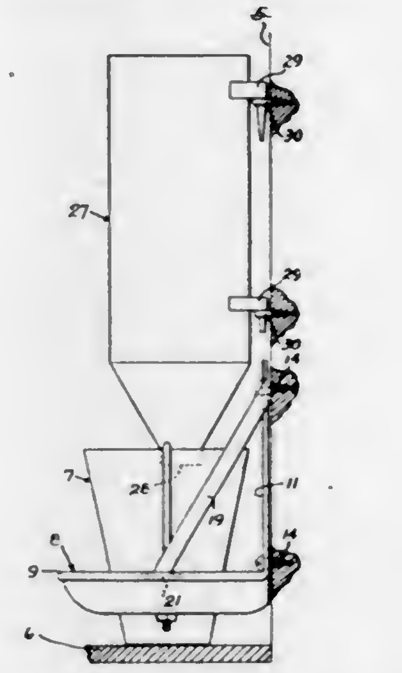


2,421,214

RABBIT FEEDER

Howard E. Morey, Aurora, Ill.

Application September 14, 1945, Serial No. 616,220
4 Claims. (Cl. 119—52)



1. A feeder for rabbits and the like comprising a horizontal support and a vertical support, a feeding cup resting on the horizontal support adjacent to the vertical support, a vertical back plate secured to the vertical support, a horizontal tray projecting from the lower part of the back plate above the horizontal support at a level below the upper edge of the cup and formed with an opening in its bottom spacedly surrounding the sides of the cup.

2,421,215

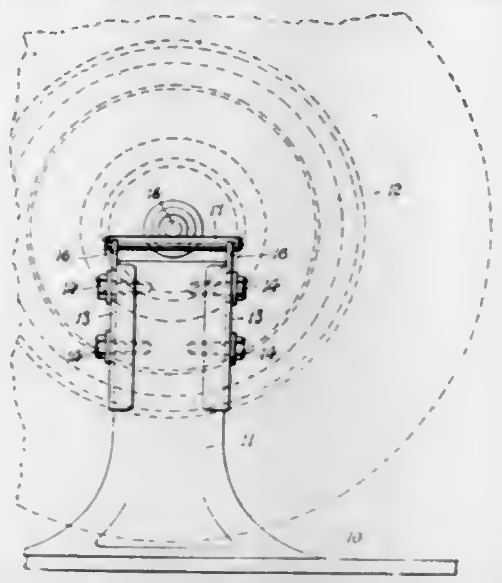
AUTOMOBILE WHEEL BALANCER

Leo Olbrys, Hamtramck, Mich.

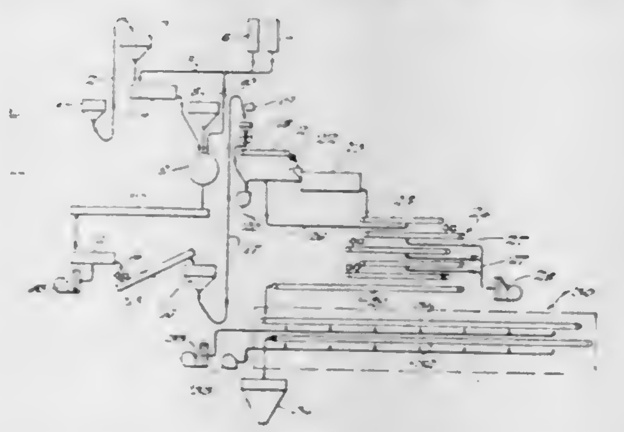
Application October 23, 1944, Serial No. 559,991
3 Claims. (Cl. 73—66)

1. In a device of the class described, a pair of spaced columns, vertically adjustable members having V-notches in their upper edges affixed to the vertical edges of said spaced columns, a pair

of horizontal cylindrical rails arranged in parallel relation with their ends supported in the notches of said members, and a wheel arbor spanning and having rolling contact on said rails.



2,421,216
PROCESS OF MAKING READY-TO-EAT FOOD
William P. Penty, Battle Creek, Mich., assignor to Kellogg Company, Battle Creek, Mich., a corporation of Delaware
Application June 11, 1943, Serial No. 490,460
5 Claims. (Cl. 99—83)



1. A process of making a ready-to-eat food product of the shredded breakfast cereal type by compositing cereal grain particles in amount from about 85 to about 60 per cent by weight and de-fatted soya bean particles in amount from about 15 to about 40 per cent by weight in a two-stage cooking process which comprises, subjecting said cereal grain particles to a cooking operation in the presence of moisture by first partially cooking same alone, adding de-fatted soya bean particles to said partially cooked cereal, co-jointly admixing and cooking the mixture to partially cook and soften said soya particles and without substantial discoloration and darkening by hydrolysis of the protein content thereof and to complete said cereal cooking to superficially gelatinize the particles thereof and to render same soft and pliable with substantially no free starch or white centers the resultant mass being in a form of discrete particles with the soya particles lightly adhered to the cereal particles, subsequently shredding the cooked particle composite under pressure to produce shreds thereof with the soya particles inseparably cohered to the cereal particles in a substantially uniformly finely divided homogeneous composite, and toasting the resultant shreds to a brown and slightly puffed and blistered condition, said final product being substantially devoid of inherent palatably objectionable characteristics of the soya particles.

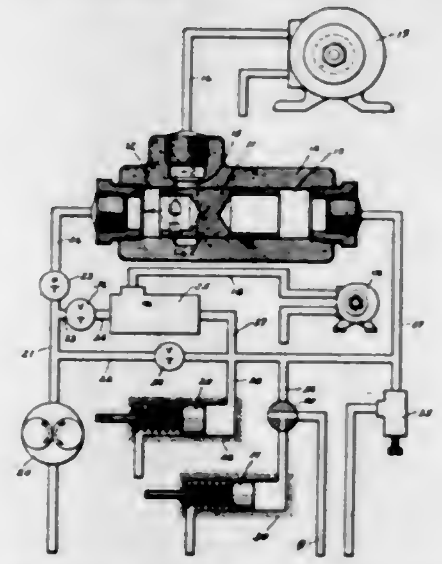
2,421,217
READY-TO-EAT FOOD PRODUCT
William P. Penty, Battle Creek, Mich., assignor to Kellogg Company, Battle Creek, Mich., a corporation of Delaware
No Drawing. Application October 28, 1943, Serial No. 508,059
5 Claims. (Cl. 99—83)

1. A ready-to-eat composite palatable food product of the breakfast cereal type comprising cooked, intimately associated and toasted components of de-fatted soya bean particles in amount from about 20 to about 30 percent by weight and yellow corn particles in amount from about 70 to 80 percent by weight, said components initially having individually inherent palatably objectionable characteristics, said components being inseparably cohered in a substantially uniformly finely divided homogeneous composite condition and substantially devoid of the initial inherent palatably objectionable characteristics.

2,421,218
NONINFLAMMABLE WATERPROOFED TEXTILES AND METHOD OF MAKING SAME
Frederick F. Pollak, Brooklyn, N. Y.
No Drawing. Application February 11, 1943, Serial No. 475,575
6 Claims. (Cl. 117—76)

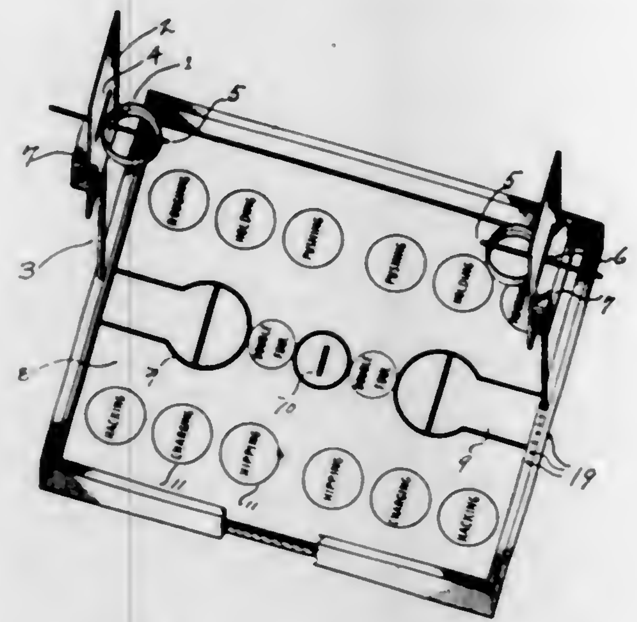
1. As a new product of manufacture a noninflammable waterproof organic fibre material impregnated with a water insoluble melamine salt of pyrophosphoric acid and coated with a melamine formaldehyde condensation product.

2,421,219
BALANCING VALVE
Ralph E. Price, Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa.
Application March 4, 1942, Serial No. 433,365
2 Claims. (Cl. 60—97)



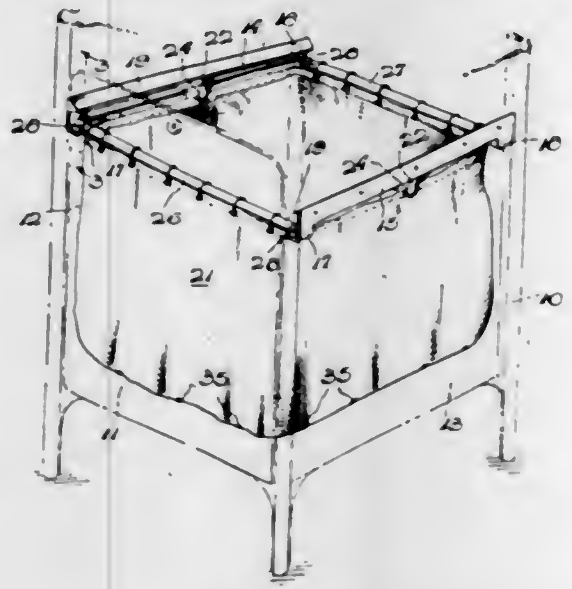
1. In a hydraulic system, a pump, hydraulically operated devices which require a constant pressure, other hydraulic devices which function at a constant rate of speed, a relief valve for maintaining said constant pressure, means for supplying a constant volume of fluid under pressure to the constant speed devices including a branch from the pump output for the constant pressure devices, a separate branch for each constant speed device, a restricting means in each of said branches and means including a valve in the constant speed branch for maintaining pressure in the supply to the constant speed branch equal to that in the supply to the constant pressure branch.

2,421,220
BASKETBALL GAME GOAL
William J. Robinson, II, and Frank E. P. Lindsay, Wilmington, Del.
Application June 2, 1944, Serial No. 538,494
1 Claim. (Cl. 273—85)



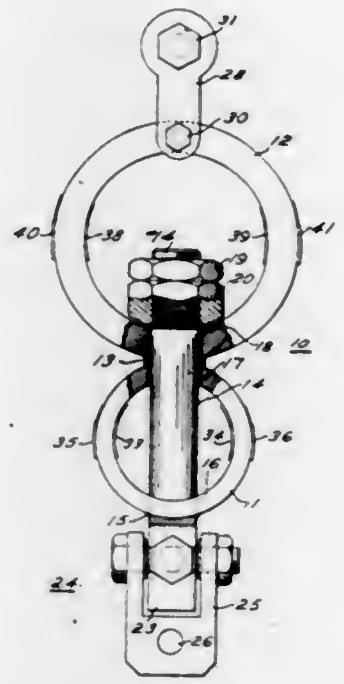
A simulated basketball game including a backboard, a basket attached to said backboard, a slot in said backboard extending above the level of said basket, and a lever arm positioned in said slot to extend above the basket whereby the player simulating the defending team may hold the back end of the lever arm and maneuver it above the basket to deflect the ball from the basket.

2,421,221
LETTER BOX
Walter F. Rothe, Washington, D. C.
Application August 2, 1946, Serial No. 688,132
9 Claims. (Cl. 232—30)



6. In a mail box, a pair of guide channels for supporting a mail bag having cross rods at the front and back, said guide channels comprising top and bottom portions, said top portion being sloped inwardly from the inner side of the mail box, said bottom portion having an intermediate straight flat section leading into a countersunk recess at each end of each channel, a gap intermediate said flat section, and a means extending downwardly from the rear edge of the gap adapted to direct the ends of said cross rods upwardly into the guide channels.

2,421,222
MULTIRANGE LOAD MEASURING APPARATUS
Herman Schaevitz, Collingswood, N. J., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application September 10, 1945, Serial No. 615,309
4 Claims. (Cl. 73—141)

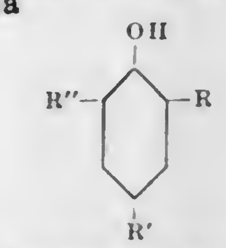


1. A multiple range dynamometer comprising a first load responsive member whose strain varies with its load, a second load responsive member whose strain varies with its load, means securing said load responsive members together for simultaneous application of the load thereto, tension means attached to one of said members and extending in spaced relation to the other of said members so as to render one of said members inoperative upon occurrence of a predetermined load applied directly to said member to which said tension means is attached, and bonded wire type strain gages mounted on said members for measurement of the strain thereof as an index of the magnitude of the load applied thereto.

2,421,223
STABILIZED INSECTICIDE
Herschel G. Smith, Wallingford, and Mark L. Hill, Yeadon, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 5, 1943, Serial No. 505.058
9 Claims. (Cl. 167—24)

1. As improved, stable pyrethrin-containing insecticides, stabilized against deterioration by light, the improved insecticide compositions comprising a pyrethrum extract in a hydrocarbon solvent containing a minor amount of a 2,4,6-

tri-alkylated monohydroxy phenol having the following formula



wherein R and R′ represent tertiary butyl groups and R′′ represents an alkyl group selected from the class consisting of methyl and tertiary butyl groups, the amount of said tri-alkylated phenol being sufficient to stabilize the pyrethrin-containing insecticide against deterioration by light and air and to inhibit loss of insect killing efficiency when exposed to light and air.

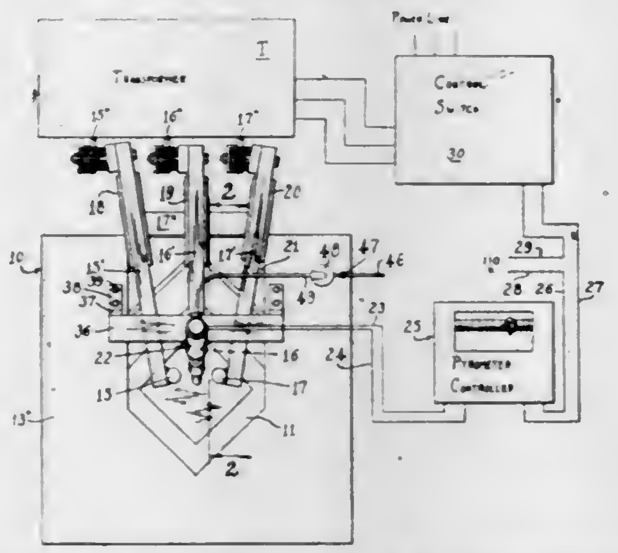
2,421,224

FURNACE FOR HEAT TREATMENT OF METAL

Haig Solakian, New Haven, Conn., and Chester M. Vincent, Detroit, Mich., assignors to Artemas F. Holden, New Haven, Conn.

Application May 19, 1943, Serial No. 487,576

4 Claims. (Cl. 13—23)



3. In a salt bath furnace, the combination of a rectangular pot, a charge of salts therein which when fused form a salt bath, electrodes immersed in the bath and disposed in triangular arrangement at one side of a diagonal of the pot, one of said electrodes being located in a corner of the pot and the other two being in a plane extending transversely of the pot, supporting shanks extended over the wall of the pot and connected to said electrodes, a current source connected to said shanks, means for controlling the bath temperature including a downwardly pointed heat ray collecting tube having a lower open end spaced upwardly from the bath and arranged substantially over a space between the two last mentioned electrodes of the group, and a support for said tube in the form of a bridge member extended across and above the electrode shanks, said bridge member having its end portions attached to and supported from a part of the furnace at points adjacent the outer electrode shanks.

2,421,225

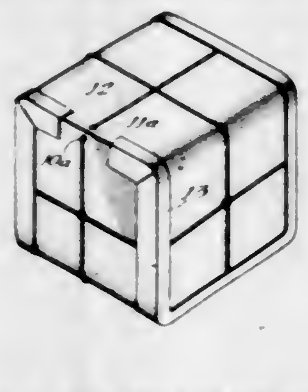
REUSABLE NESTING SHIPPING CONTAINER

William L. Stensgaard, Chicago, Ill., assignor to W. L. Stensgaard and Associates, Inc., a corporation of Illinois

Application October 6, 1943, Serial No. 505,099

2 Claims. (Cl. 229—23)

1. A reusable merchandise container of approximately cubical shape, formed of only two principal parts which for return after reuse may be nested together along with other similar parts, comprising: a pair of substantially rigid U-shaped members of sheet material such as plywood, Masonite, and the like, each of said members before being formed into U-shape having a length several times its width and each after being formed into U-shape having an end section and a pair of substantially parallel wing sections integrally connected to the end section, said sections being substantially rigid with only a slight flexibility at their connecting joints, each of said wings along their three exposed edges being free of any lateral projections and separable from the corresponding edges of the mating member to enable reuse, said members in use being intermeshed with the side sections of one member occupying planes at right angles to the planes of the side sections of the other member; the edges of the wing sections having apertures for receiving securing cords; cords passed through said apertures and extended around the container and tied with the cords extending substantially medially of each side of each member; and flexible adhesive tape overlying and secured to the adjacent edges of the sections.



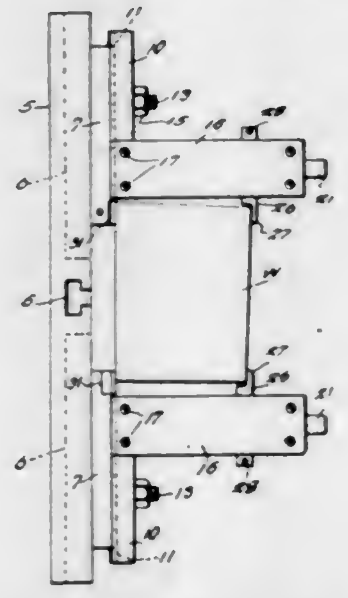
2,421,226

CHUCK

William A. Tiede, Bridgeport, Mich.

Application September 13, 1944, Serial No. 553,867

6 Claims. (Cl. 279—8)



1. In a chuck of the character described, a clamping device embodying an attaching base, said base including inner and outer members slidably interlocked for relative radial adjustment with respect to each other and a face plate, a slide frame rigid with and projecting outwardly from the inner end of the outer base member, a slide block in said frame having an inwardly projecting work-engaging jaw, an adjusting screw for adjusting the slide block in said frame toward or from the attaching base, the inner base member having a reduced end providing a transversely inclined seat, a wedge-shaped jaw plate slidable on said seat transversely of the inner base member and arranged in opposed relation to the work-engaging jaw of said slide block, and an adjusting screw carried by said inner base member and operatively connected to said jaw plate for adjusting the latter transversely of the inner base member and toward or away from the first-named jaw.

2,421,227

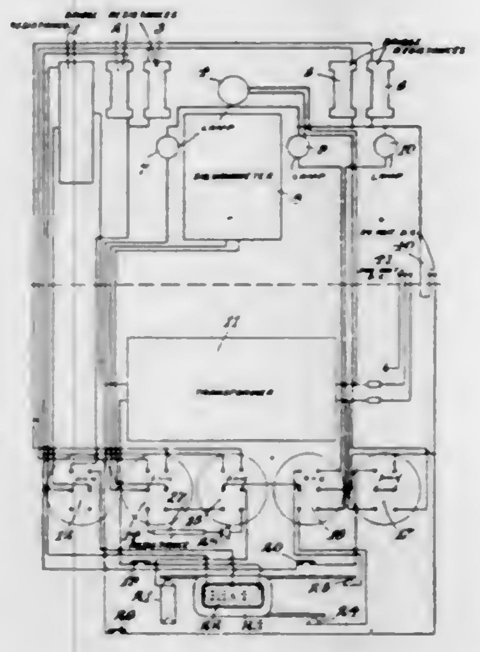
APPARATUS FOR TESTING ELECTRIC COILS

Frederick James Watson, Old Windsor, and Felix Moutran, Slough, England, assignors to Self-Priming Pump & Engineering Co. Limited, London, England, a British company

Application June 17, 1943, Serial No. 491,188

In Great Britain May 6, 1942

2 Claims. (Cl. 175—183)



1. Apparatus for testing electrical coils as to ohmic resistance and number of turns in the coil, said apparatus comprising a unitary structure which includes, in combination, a single current-indicating instrument, a mounting for receiving the coil under test including contacts for the winding terminals thereof, a Wheatstone bridge supplied by a D. C. circuit, a transformer primary associated with said mounting and supplied by an A. C. circuit, switching means for electrically connecting said contacts for the coil under test selectively either as a branch of the Wheatstone bridge or as part at least of the secondary of a transformer, the said primary of which is associated with the mounting, a rectifier, switch means for electrically connecting said instrument selectively either in the Wheatstone bridge system, or through said rectifier, in the secondary circuit of said transformer whereby there is provided a unitary device combining resistance and reactance tests for test coils, the single current-indicating instrument being provided with a pointer, a cover for said instrument and pointer, two slots formed in said cover through which two different portions of the length of the pointer may be observed during certain portions of its movement, the slots being appropriate respectively to the reading of indications of the resistance and number of turns tests, and the location and lengths of each slot being such that its opposite ends define prescribed plus and minus variations from a standard.

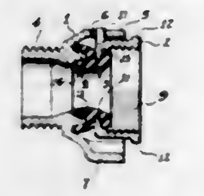
2,421,228

HOSE COUPLING

Gilbert E. White, Milwaukee, Wis.

Application October 30, 1944, Serial No. 560,942

2 Claims. (Cl. 285—175)



1. A coupling comprising a socketed member having an externally threaded end, the opposite end having bayonet-like slots; an annular axially projecting flange integral with and intermediate the ends of said socket member; an insert member projecting into said slotted end and having an internal thread at one end, an inner flange at the other end, and locking lugs engaged in said slots; and a resilient packing washer having an annular groove receiving said inner flange and a second annular groove extending axially and receiving said annular axially projecting flange in said socket member, said washer being clamped between said flanges and the walls thereof embracing said flanges.

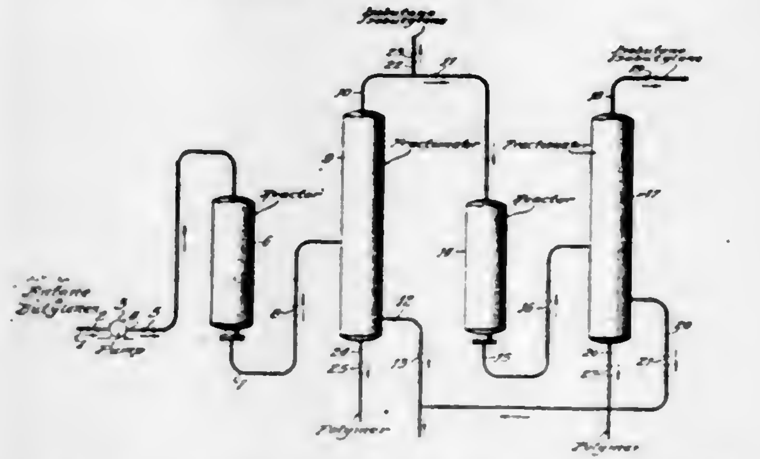
2,421,229

PROCESS FOR THE SEPARATION OF ISOBUTENE FROM A MIXTURE OF C_4 HYDROCARBONS

Gordon B. Zimmerman, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application September 11, 1942, Serial No. 457,943

7 Claims. (Cl. 260—677)



1. A process for the separation of isobutene from a mixture of C_4 hydrocarbons containing isobutene and butene-1 which comprises contacting said mixture with an olefin isomerizing catalyst under isomerizing conditions regulated to selectively isomerize the butene-1 to butene-2 without effecting to any substantial extent isomerization of the isobutene contained therein, and subsequently fractionating the isobutene from the resulting isobutene-butene-2 mixture.

2,421,230

ELECTROHYDRAULIC POSITION CONTROL SYSTEM

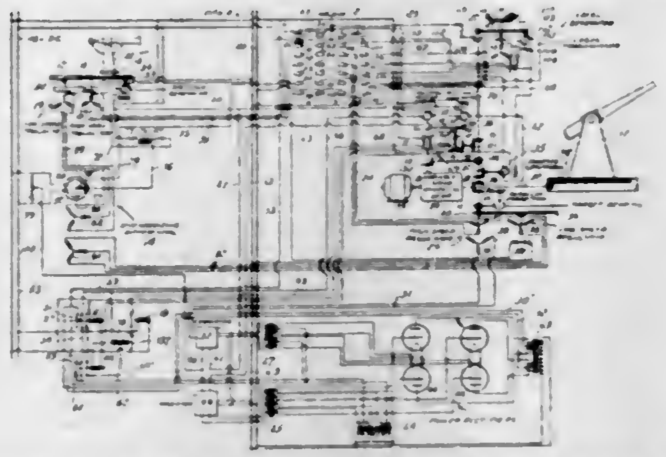
George Agins, Brooklyn, N. Y., assignor to Arma Corporation, a corporation of New York

Application May 12, 1936, Serial No. 79,290

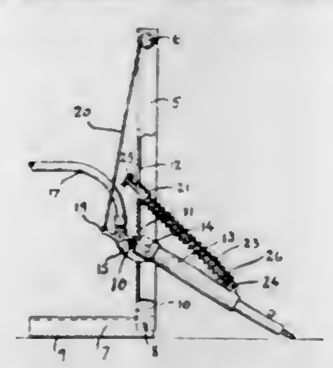
25 Claims. (Cl. 318—30)

19. In a position control system, a controlling object, a controlled object and means for moving said controlled object substantially in positional agreement with said controlling object compris-

ing means for driving said controlled object and means for controlling said driving means in accordance with the positional disagreement of said controlled and controlling objects and with the first and a higher time derivative of the motion of said controlling object.

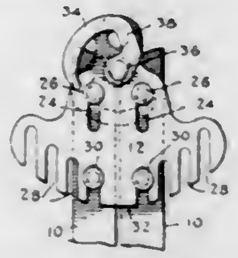


2,421,231
CHIPPING APPARATUS
Walter F. Allen, Los Angeles, Calif.
Application February 15, 1945, Serial No. 578,008
2 Claims. (Cl. 29—81)



1. In a device of the class described, a base, an upright support pivoted on said base for swinging movement, a pneumatic tool pivoted at one end on the support to incline downwardly therefrom into work engaging position and permit swinging of the support relative to the tool in the direction of inclination of the tool toward the work, an air control valve mounted on said tool and normally closed, and means operative by swinging of said support to open the valve comprising a valve lever, and a flexible pull connection between said lever and support.

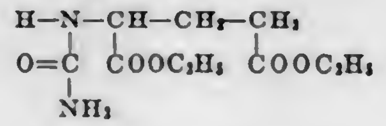
2,421,232
DISPLAY SUPPORT OR FIXTURE
Walter N. Applegate, Point Pleasant, N. J., and Charles A. Petersen, Brooklyn, N. Y.
Application March 5, 1946, Serial No. 652,088
6 Claims. (Cl. 248—166)



1. A device comprising a pair of legs; a pivot pin extending from the same side of one end of each leg; a plate member having a parallel pair of vertically extending pivot slots engaging the pivot pins and pivotally connecting the corresponding ends of said legs, and an edge spaced inwardly of the pivot slots and formed with a plurality of locking slots extending inwardly in parallelism to the pivot slots; and a locking pin on each leg in a position to engage one of the locking slots when the pivot pins are in the outer ends of their respective slots.

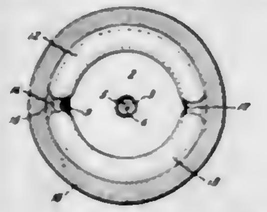
2,421,233
UREIDO ACID ESTERS AND METHOD OF MAKING THE SAME
Reginald Auchincloss and Fred Linsker, New York, N. Y.
No Drawing. Application February 28, 1945, Serial No. 580,276
8 Claims. (Cl. 260—482)

8. The ureide of diethyl glutarate having the following structural formula:



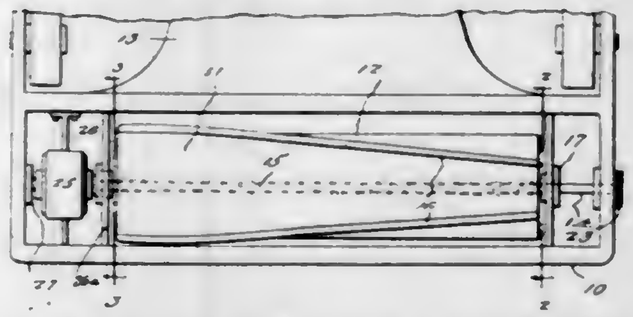
$$\begin{array}{lll} \text{H—N—} & \text{CH—} & \text{CH}_2\text{—CH}_2 \\ \quad\ | & \ \ | & \qquad\ \ | \\ \text{O=C} & \text{COOC}_2\text{H}_5 & \ \ \text{COOC}_2\text{H}_5 \\ \quad\ | & & \\ \ \ \text{NH}_2 & & \end{array}$$

2,421,234
ELECTRON LENS ASSEMBLY
Charles H. Bachman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 31, 1944, Serial No. 552,038
3 Claims. (Cl. 250—162)



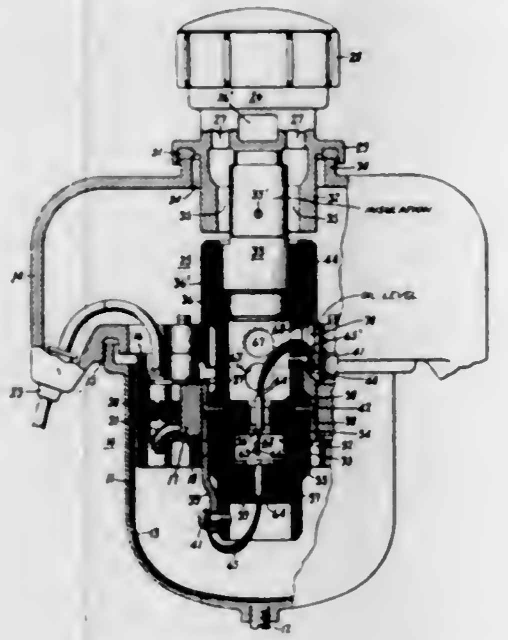
1. In an electron lens system, the combination of a disk electrode, a cylindrical envelope concentrically surrounding said electrode, a plurality of insulators positioned between said electrode and said envelope, said insulators having a groove adapted to fit over the edge of the said electrode, and said electrode having a built-up portion on the outer edge thereof for wedging said insulators between said electrode and said envelope.

2,421,235
DIRECT DRIVE VACUUM CLEANER AGITATOR ROLLER
Elmer A. Basinger, Washington, D. C.
Application February 10, 1944, Serial No. 521,867
1 Claim. (Cl. 15—6)



In a vacuum cleaner having a suction chamber with an intake nozzle, a readily accessible and independently removable dust raising device comprising a roller provided with agitating elements along its surface and mounted in said nozzle, an axial shaft keyed in the roller for rotation therewith but permitting axial withdrawal, bearings at each end of said nozzle for said shaft, a motor axially aligned with said shaft mounted adjacent one end of said roller in a compartment separated by a partition from said intake nozzle, a coupling between the motor spindle and said shaft releasable by a pull on the shaft, said shaft projecting through the end wall of the nozzle at the opposite end of said roller and being provided at its projecting end with a knob to facilitate withdrawal of the shaft from the roller.

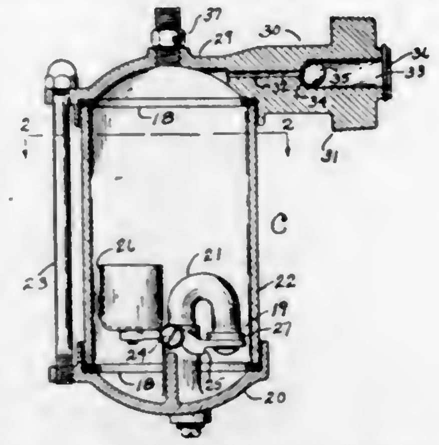
2,421,236
ELECTRIC CIRCUIT INTERRUPTER
Ralph S. Bennett, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 29, 1943, Serial No. 492,691
10 Claims. (Cl. 200—120)



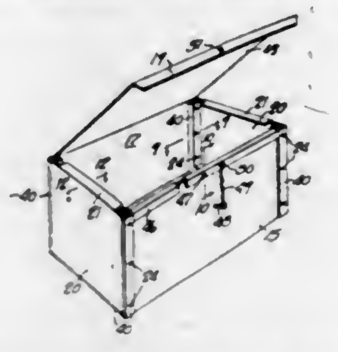
1. In an electric circuit interrupting device of the fluid blast type, an arc chamber of conducting material containing an arc-extinguishing liquid, means defining a pair of openings one at each end of said arc chamber, and a fuse link including a fusible element having a single rupturable section extending through said openings so that said fusible element is in said arc chamber immersed in said liquid, said fusible element being so arranged that upon rupture of said fusible element two arcs in series are produced substantially simultaneously between said fuse link and said first mentioned means with one of said arcs producing a fluid blast to extinguish said other arc.

2,421,237
AIR CHARGER FOR JET PUMPS
Charles J. Bergh, Racine, Wis., assignor to Jacobsen Manufacturing Company, Racine, Wis., a company of Wisconsin
Application March 2, 1945, Serial No. 580,650
3 Claims. (Cl. 103—6)

1. A device of the character described, comprising a pressure tank, a pump having a driving motor and an injector associated with said pump adapted to discharge water into the tank, an air charger having at its top a valved connection to the tank at substantially the normal water level in the tank, an air inlet check valve in the top of the charger, the valve in said tank connection adapted to close under the action of a vacuum in the air charger, a drain valve near the bottom of the air charger, a lever operatively connected at one end to said drain valve having a pivotal support intermediate its ends and having an open top cup secured to the other end and means whereby when the cup is not submerged the valve will be closed and when the cup is submerged the valve will be opened, an operating connection from said valve to the suction side of said injector, means whereby normal pressure in the tank is maintained on the on and off principle and air or water may pass from the tank into the charger when the pump is standing, and whereby air from the atmosphere will pass into the charger and surplus water in the charger will pass into the suction side of the injector when the pump is operating.



2,421,238
REINFORCED COLLAPSIBLE PAPERBOARD CONTAINER
John E. Borah, Penn Township, St. Joseph County, Ind.
Application December 23, 1942, Serial No. 469,873
2 Claims. (Cl. 229—23)

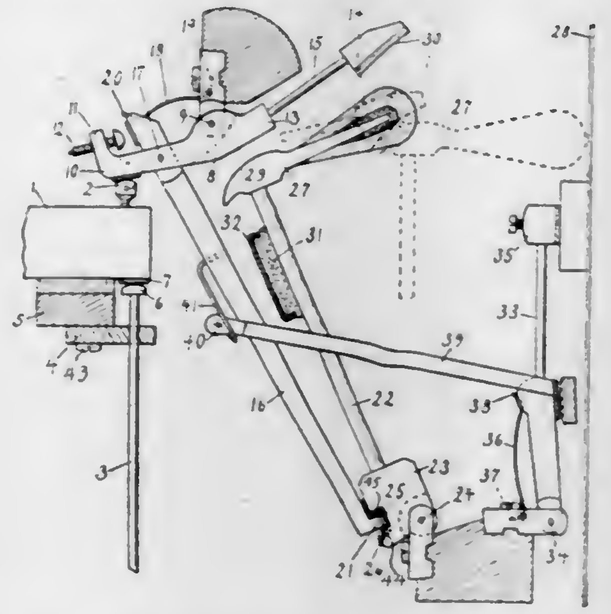


1. A container formed from a plurality of paper board blanks and having a folding cover and a cover tab folded from the free edge of said cover, some of said blanks having marginal flanges bent inwardly alongside the marginal portions of adjacent angularly disposed blanks, a plurality of vertical and horizontal rigid edge-forming bars each having a pair of spaced longitudinal grooves to respectively snugly receive and retain one of said marginal blank portions and connect said blanks, the upper end portions of one groove in each of the vertical bars at the front of the container being of increased width to receive the ends of said cover tab and means for securing said interfitting blank portions and bars.

2,421,239
PIANO ACTION
Alexander P. Brown, Beechhurst, N. Y.
Application December 13, 1945, Serial No. 634,672
5 Claims. (Cl. 84—240)

1. In a piano action, a combination comprising a key having a back end moving up when the key is struck, a wippen having a fixed pivot positioned, in horizontal direction, beyond said key end, and having two arms, one of said arms having a lower side drivingly contacted by said key end, a back

check affixed to the other arm, a jack hinged to said first wippen arm whereby said jack moves up when said key is struck, said jack extending down across the back side of said key and having a projection positioned considerably lower than said key, and a hammer having a butt and a fixed pivot in said butt, said butt having a recess engageable by said projection, said hammer having a head located, in the position of rest, below said other wippen arm and engaging said back check in rebounded position.



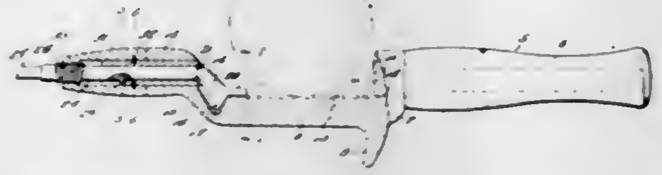
2,421,240

CASTING ROD

Elwyn Camburn, Logan, Utah

Application July 6, 1945, Serial No. 603,414

2 Claims. (Cl. 43—22)



1. A casting rod comprising a handle, a reel seat on the forward part of said handle, said reel seat including a recess to non-shiftably receive the rear end of the base of a reel resting on said reel seat, a tubular rod tip holder on the forward end of said reel seat in which the butt end of the rod tip is slidably positioned, a lever pivoted on said reel seat and having a locking projection overlying the forward part of said reel base and a nose for engagement by the rear extremity of the butt end of the rod tip, and operating means for gripping said rod tip and forcing the same rearwardly to operate said lever to lock the reel base on the seat while holding the rod tip in place.

2,421,241

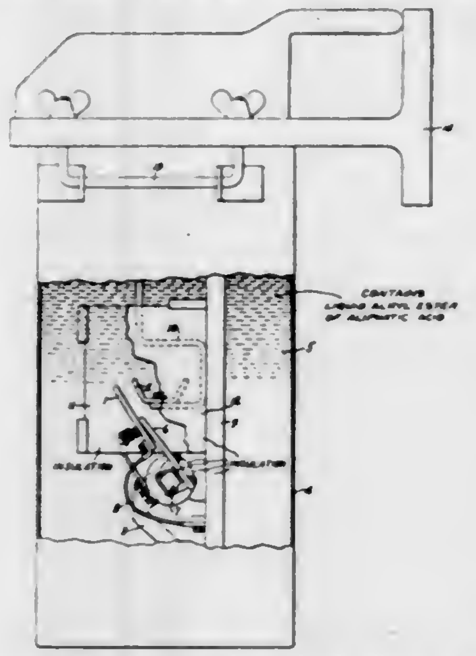
LIQUID-QUENCHED SWITCH

Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application August 9, 1944, Serial No. 548,678

10 Claims. (Cl. 200—150)

1. An electric circuit-interrupter containing separable electric contacts and an arc-quenching liquid operatively associated with said contacts, said liquid consisting of a substantially water-insoluble alkyl ester of aliphatic acid in which the organic acid radical contains from two to eighteen carbon atoms, and the ester alkyl radical contains one to five carbon atoms.



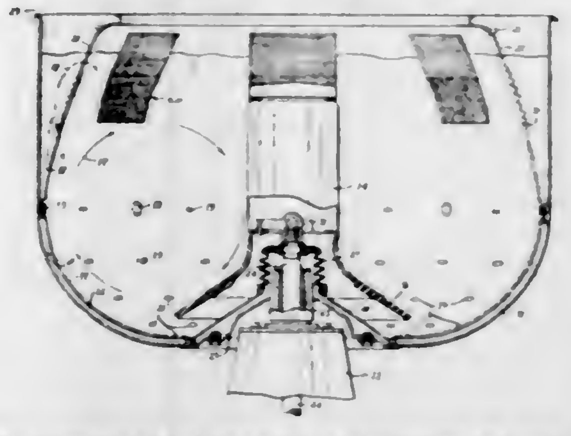
2,421,242

DOMESTIC WASHING MACHINE AND METHOD

Kendall Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application May 21, 1943, Serial No. 487,879

9 Claims. (Cl. 8—159)



8. The method of washing articles which comprises agitating said articles in a washing fluid held in a confining zone to produce an outward and inward toroidal flow of a major volume of fluid and articles and an outward and inward toroidal flow of greater radius of a minor volume of fluid, filtering scum from said fluid below the top surface of said fluid as it flows inwardly in said minor volume of fluid, and centrifugally discharging from said zone said major and minor volumes of fluid and scum outwardly while arresting outward movement of said articles, the centrifugal discharge of said major and minor volumes of fluid carrying said scum from said zone.

2,421,243

VULCANIZATION ACCELERATOR

Ernest B. Curtis, Yonkers, N. Y., assignor to R. T. Vanderbilt Co. Inc., New York, N. Y., a corporation of New York

No Drawing. Application March 24, 1945, Serial No. 584,721

4 Claims. (Cl. 260—785)

1. An accelerator compound consisting essentially of a pulverulent mixture of benzo thiazyl disulfide and zinc stearate in which the proportion of zinc stearate approximates 1%-2% by weight on the benzo thiazyl disulfide.

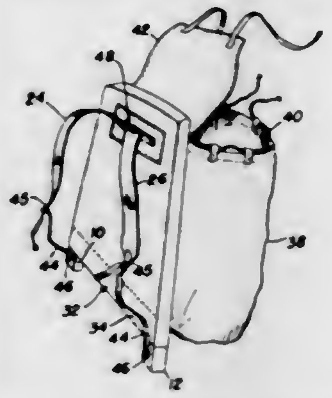
2,421,244

PACKBOARD

Ome C. Daiber, Seattle, Wash.

Application October 26, 1943, Serial No. 507,715

3 Claims. (Cl. 224—25)



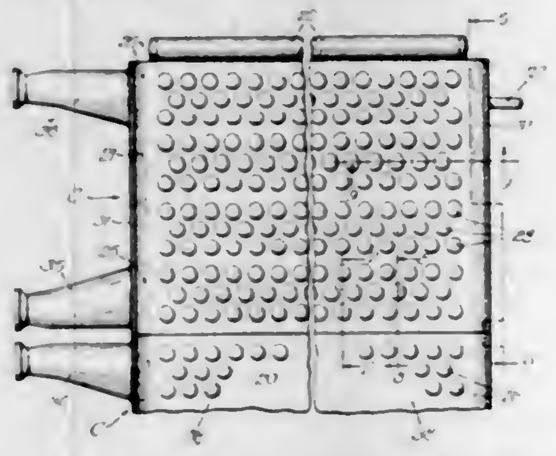
1. A packboard, comprising: cross members of different lengths, a pair of side members having sockets detachably receiving the ends of said cross members; the shorter of said cross members being uppermost and the longer being lowermost in their engagement with the side members whereby the latter are spaced apart in an upwardly converging manner; said cross members and side members forming a frame; means associated with said frame for supporting the same upon the back of a carrier; and around said frame, a load-carrying sheath shaped to fit the converging arrangement of the side members, and when drawn down thereon to hold the ends of said cross members socketed in said side members.

2,421,245

HEAT EXCHANGE ELEMENT

Charles Brown Dalzell and Ellsworth Wyman, Little Falls, N. Y., assignors to Cherry-Burrell Corporation, Wilmington, Del., a corporation Original application November 30, 1938, Serial No. 243,130. Divided and this application May 13, 1942, Serial No. 442,750

2 Claims. (Cl. 257—187)



1. In a heat exchange element for liquids, opposed sheet metal portions forming a double-walled structure, said sheet metal portions of the double-walled structure having certain parts thereof secured together and certain offset parts spaced apart and in end to end communication to provide a refrigerant passage between said walls, and liquid distributing means fixed to the top edge of the heat exchange element and forming an integral portion thereof for uniformly distributing liquid over the top outer portion of said element, said distributing means having a horizontally grained flow diverting finish on its liquid contacting surface.

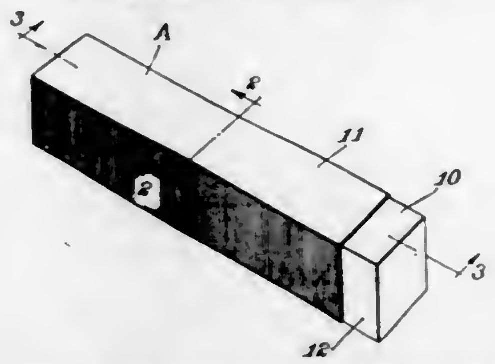
2,421,246

COATED SHOE POLISH STICK AND METHOD OF COATING SAME

Roger Harry David, St. Paul, Minn.

Application February 6, 1942, Serial No. 429,841

4 Claims. (Cl. 206—56)



1. A polish stick comprising an elongated body of polish material in stick form having a softening point above normal room temperatures and including wax, a coloring pigment, and a coating on at least a part of the surface of said body capable of forming a relatively hard uncolored film penetrating into the material forming the body and blendable with the polish material under pressure to form a smooth film, the body of the stick being visible through the coating.

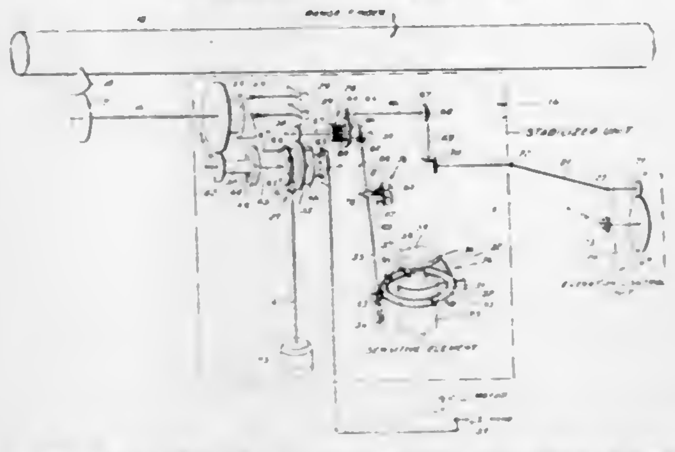
2,421,247

MOTION REPRODUCING SYSTEM

Arthur P. Davis, New York, N. Y., assignor to Arma Corporation, a corporation of New York

Application December 10, 1935, Serial No. 53,736

13 Claims. (Cl. 318—31)



1. In a system for reproducing motion between a controlling object and a controlled object, the combination of cooperating electrical elements severally connected to said objects for movement therewith, electrical means responsive to a predetermined distance of displacement of the controlling object element relatively to the controlled object element, a motor energized by said means, operative connections between said motor and said controlled object for driving the latter to follow the relative movement of said controlling object, and electrical means responsive to an initial movement of said controlled object for additionally energizing said motor to drive said controlled object through said displacement distance and maintaining the motor energized to continue to drive said controlled object in the same direction independently of the relative positions of said electrical elements.

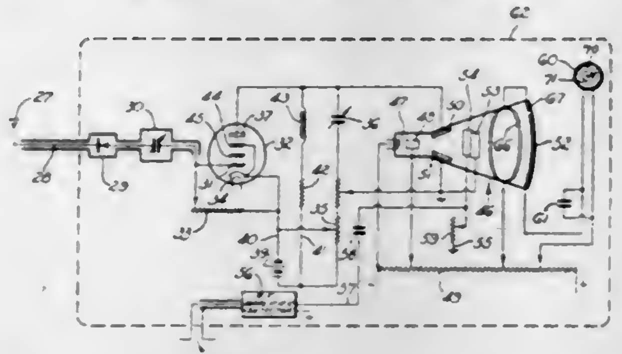
2,421,248

METHOD OF AND APPARATUS FOR DETERMINING ABSOLUTE ALTITUDE

Lee de Forest, Los Angeles, Calif., assignor to Allen B. DuMont Laboratories, Inc., a corporation of Delaware

Application May 10, 1941, Serial No. 392,900

3 Claims. (Cl. 250—1.66)



3. A distance-indicating device, including: a spark-gap transmitter for transmitting toward an object, the distance of which is to be measured, an aperiodic damped electromagnetic impulse; means for receiving the reflection of said impulse from such object; means for producing a cathode-ray beam; means to initiate movement of said beam along a path in response to transmission of an impulse by said transmitter; means for terminating the movement of said beam along said path in response to receipt of the reflected impulse by said receiving means; a conductor of relatively high resistance extending along said path; means to form a circuit with said beam and said conductor in series whereby current flows in the circuit in accord with the distance along said path traversed by the beam; and indicating means responsive to the flow of current in said circuit.

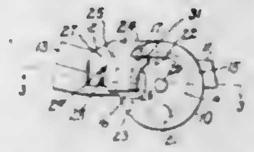
2,421,249

EXTRACTOR-AND-BREECH-BOLT ASSEMBLY FOR FIREARMS

Joseph H. Delsole, New Haven, Conn., assignor to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware

Application April 19, 1945, Serial No. 589,116

7 Claims. (Cl. 42—25)



6. An extractor-and-breech-bolt assembly for firearms, including in combination: a breech-bolt having cartridge-engaging means in its forward face and having an inwardly-facing extractor-retaining abutment extending substantially parallel with the plane of movement of the hereinafter-mentioned cartridge-extractor, the said breech-bolt also being provided with an extractor-accommodating recess extending substantially perpendicularly with respect to the longitudinal axis of the breech-bolt and located adjacent the said cartridge-retaining abutment; a cartridge-extractor movably mounted in the extractor-accommodating recess in the said breech-bolt and having a cartridge-extracting lip movable into and away from a cartridge seated against the cartridge-engaging means at the forward end of the said breech-bolt, the said cartridge-extractor also having an outwardly-facing retaining-abutment constructed and arranged to engage with the extractor-retaining abutment of the said breech-bolt to retain the cartridge-extractor in the extractor-accommodating recess in the breech-bolt against ejection therefore by centrifugal force when the cartridge-extracting lip of the said cartridge-extractor is in engagement with a cartridge, and the said retaining-abutment being retirable out of cooperating relationship with respect to the said extractor-retaining abutment; and spring-means yieldingly urging the said cartridge-extractor into position to cause its cartridge-extracting lip to engage with a cartridge and to cause its retaining-abutment to move into position to engage with the extractor-retaining abutment of the said breech-bolt.

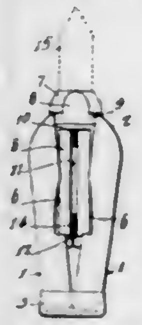
2,421,250

LIPSTICK HOLDER

Jan de Swart, Los Angeles, Calif., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio, a corporation of Delaware

Application January 16, 1945, Serial No. 573,043

7 Claims. (Cl. 206—56)



7. In a lipstick holder, an outer tubular split casing, an inner tubular member movable in said casing and adapted to be partially projected therefrom, a lipstick carrier movable in said tubular member, cooperating means on said tubular member and said casing whereby said tubular member may be rotated relative to said casing when in a partially projected position, and means whereby predetermined rotation of said tubular member relative to said casing renders said lipstick carrier accessible for movement of the same to project the end thereof from the inner tubular member, said lipstick carrier being accessible only when said tubular member is in a partially projected position.

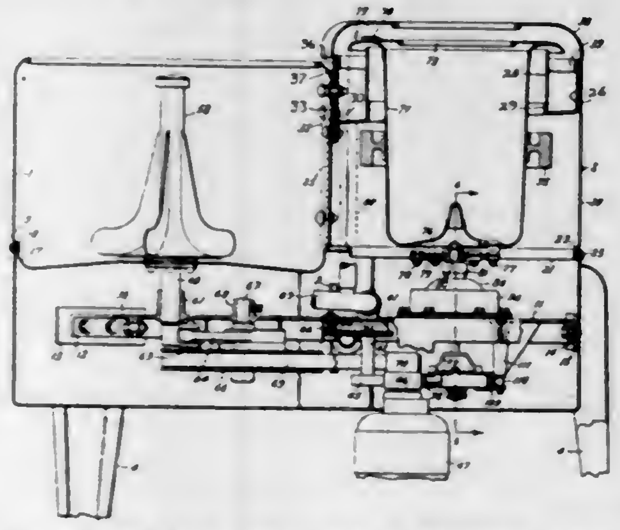
2,421,251

SUPPORTING MEANS FOR VERTICAL AXIS WASHING MACHINE SPINNER BASKETS

George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York

Application April 9, 1943, Serial No. 482,417

2 Claims. (Cl. 210—71)



1. In a washing machine, a spinner basket, a drive shaft therefor, means resiliently supporting the drive shaft and spinner basket for gyratory movement, a pulley, an intermediate shaft having universal connections with said pulley and said drive shaft, a driving pulley and a brake on opposite sides of said first pulley, and means for selectively moving said first pulley into engagement with said driving pulley or said brake.

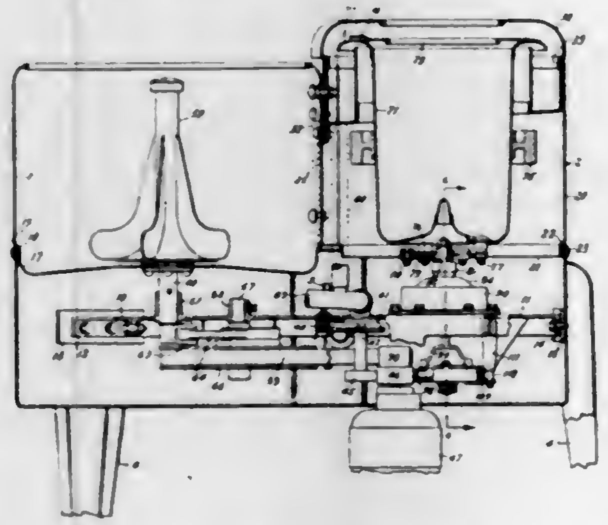
2,421,252

TUB CONSTRUCTION FOR TWO-TUB SPINNER TYPE CLOTHES WASHING MACHINES

George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York

Original application April 9, 1943, Serial No. 482,417. Divided and this application May 5, 1945, Serial No. 592,105

2 Claims. (Cl. 68—26)



1. In a washing machine having a tub and a spinner basket side by side, an enclosure surrounding the spinner basket having integral projecting walls projecting radially outward and conforming with the side walls of the tub, an annular trough within said enclosure having projecting walls nesting within the projecting walls of the enclosure, and means fastening the projecting walls of the trough and enclosure to the side walls of the tub, and registering openings in said projecting walls and the side walls of the tub through which the trough drains to the tub.

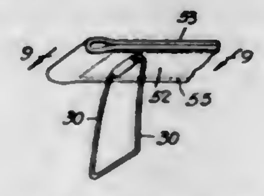
2,421,253

WRIST WATCH ATTACHMENT

Richard P. Fleischner, Scarsdale, N. Y.

Application September 14, 1943, Serial No. 502,259

2 Claims. (Cl. 58—56)



1. An attachment to the wrist band strap section to be secured to the upper end of a watch for securing it to the wrist, said attachment comprising an adapter to be secured to the strap section and provided with a pivot bearing and a member to be supported at its upper end in said bearing so that it will swing freely angularly relatively to the watch about an axis parallel and adjacent to the upper edge of the watch, said member being of such length that when swung angularly about its axis relatively to the watch, the watch and the member will both engage the surface upon which the watch is to be supported and maintain the parts with the watch dial face presented for convenient reading with its hour index number "12" uppermost.

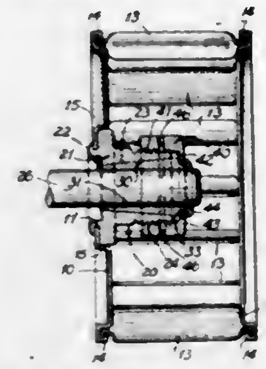
2,421,254

WHEEL AND SHAFT ASSEMBLY MEANS

Gustave H. Froelich, Torrington, Conn., assignor to The Torrington Manufacturing Company, Torrington, Conn., a corporation of Connecticut

Application August 24, 1944, Serial No. 551,033

8 Claims. (Cl. 287—53)



8. In a hub and shaft assembly, an externally threaded hub having a tapered bore, a nut having a large diameter threaded bore and an apertured end, the passage through which is of small diameter, an externally tapered sleeve, of even internal diameter to receive the shaft, the sleeve provided with a peripherally grooved extension outside of the hub, with the small diameter portion of the nut freely rotatably engaging the groove in said extension, whereby to enable insertion and withdrawal of the sleeve into and from the hub as the nut is rotated.

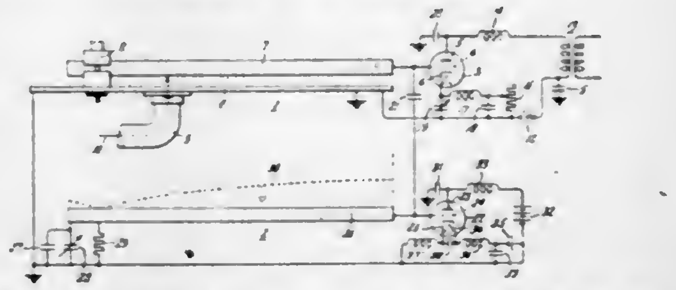
2,421,255

ULTRA HIGH FREQUENCY OSCILLATOR

George W. Fyler, Stratford, Conn., assignor to General Electric Company, a corporation of New York

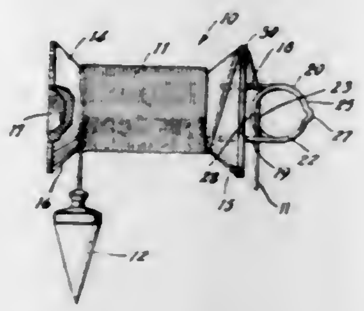
Original application November 30, 1942, Serial No. 467,286. Divided and this application December 9, 1944, Serial No. 567,453

2 Claims. (Cl. 250—36)



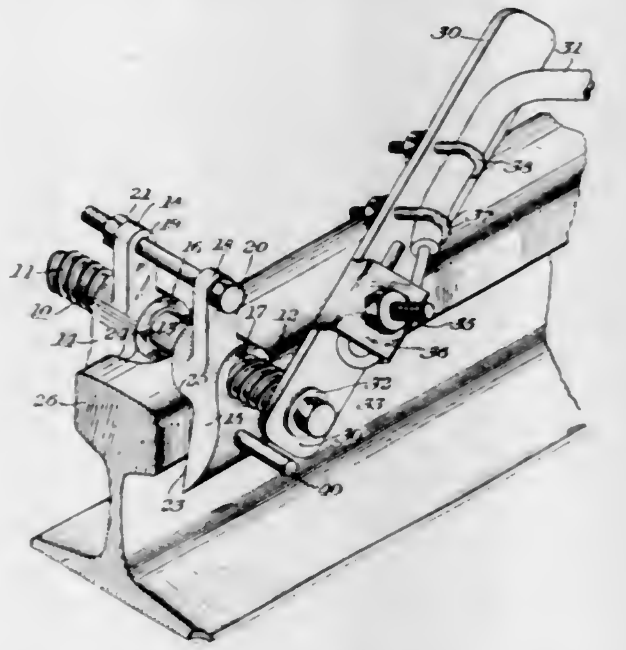
1. A generator for producing ultra high frequency oscillations including an electron discharge device having an anode and a cathode and a control electrode, means including a bar transmission line and a variable condenser connected in series between said control electrode and ground for tuning the control electrode circuit of said device in series resonance for ultra high frequencies within a predetermined range, means for connecting said anode to ground at frequencies within said range, a source of direct current connected between said anode and said cathode, and an inductance connected between said cathode and ground and having a value such that the current in the control electrode circuit of said device remains substantially constant over said range of frequencies.

2,421,256
PLUMB LINE REEL
Everett H. Galford, Charleston, W. Va.
Application January 28, 1946, Serial No. 643,854
5 Claims. (Cl. 242—126)



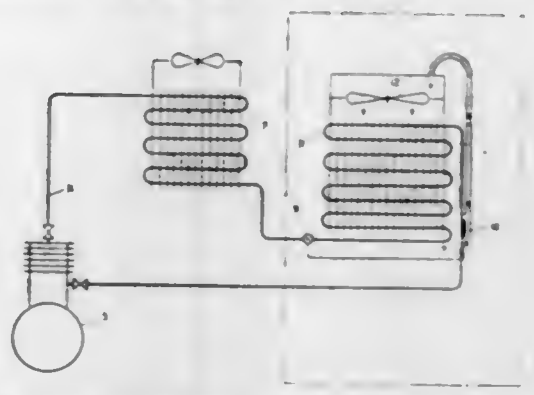
5. The described device comprising a spool with enlarged ends, one of which is countersunk and a clamp attached to the other, said clamp consisting of a pair of resilient jaws consisting of spring wire formed into contacting convolutions.

2,421,257
RAILHEAD CLAMP
Albert H. Genter, Mount Lebanon, Pa.
Application October 4, 1944, Serial No. 557,099
3 Claims. (Cl. 173—324)



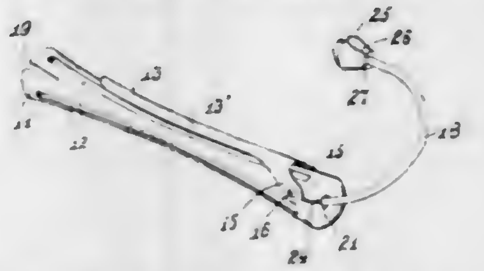
1. A rail clamp for attaching an electric return circuit cable to the head of a rail comprising a screw shaft provided at its opposite extremities with a right hand thread and a left hand thread respectively, a pair of rail head-gripping jaws having aligned holes provided respectively with a right hand thread and a left hand thread which are engaged by the corresponding threads of the screw shaft, opposed shoulders on the jaws arranged to engage the top of the rail head and limit the downward movement of the jaws, said jaws having opposed gripping surfaces which converge downwardly and engage the lower edges of the rail head when the jaws are caused to converge, means for rotating the screw shaft to cause the jaws to grip the rail head or to release the jaws from the rail head, and means for electrically connecting an electric cable to said last mentioned means whereby the pull of the cable tightens the clamp on the rail head.

2,421,258
CONTROL ARRANGEMENT FOR REFRIGERATION APPARATUS
Merrill B. Goddard, Chicago, Ill., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application October 22, 1943. Serial No. 507,328
4 Claims. (Cl. 62—8)



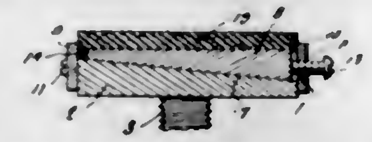
1. The combination of, a coil section, a casing for said coil section, means including a superheat control expansion valve for admitting refrigerant to the coil section, a suction line connecting the coil section to a compressor, a thermal bulb affixed to and in thermal contact with said suction line, said bulb being operatively connected to said valve to cause said valve to function responsive to heat affecting the bulb, a conduit surrounding the bulb, a conditioned space, a fan section positioned adjacent the coil section, means connecting said conduit to the fan section in such manner that air from the conditioned space will actively be circulated through said conduit, over the bulb and into the fan section.

2,421,259
CURLING DEVICE
Samuel Grant, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc., a corporation of Illinois
Application November 9, 1944, Serial No. 562,629
7 Claims. (Cl. 132—42)



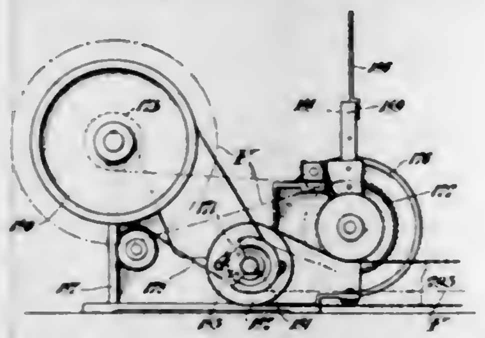
5. A curling rod comprising, in combination, an elongated shaped body adapted to have a hair tress wound thereon, said body having a diametrical hole extending therethrough adjacent one end and an axial bore in said end communicating with said opening, said bore being of lesser diameter than said hole to provide a shoulder at their juncture, a fastening strand projecting from said rod end through said bore, said strand having means on an end enclosed within the diametrical bore and abutting the shoulder to prevent its withdrawal outwardly through said bore, said hole and bore being connected by a common slot in the body end through which the strand may be drawn to engage the means against said shoulder, a clamp pivotally mounted at one end in said diametrical bore adapted to lie against said rod to hold a hair tress during initial winding of said hair tress on said rod, and means on the other end of said rod to receive the free end of the fastening strand when said strand is extended across the curl to prevent the curl from unwinding.

2,421,260
WORKTABLE FOR STAMPING AND EMBOSSING MACHINES
Rupert L. Greenleaf, Auburn, Maine
Application November 8, 1944, Serial No. 562,508
4 Claims. (Cl. 101—407)



3. A table for a stamping machine comprising a table top formed across its upper surface with a transverse groove spaced from the rear edge of the table top and having a sloping bottom, end walls for said groove, an adjusting screw threaded through one end wall, a spring in the groove having an intermediate portion bearing against the other end wall and end portions spaced inwardly from the last mentioned wall, a wedge in said groove shiftable longitudinally and moved vertically therein by action of the sloping bottom and having one end engaging the inner end of the adjusting screw and its other end engaged by the end portions of said spring to yieldably hold the wedge against the inner end of the screw, and a pad resting on said wedge and shiftable vertically with the wedge.

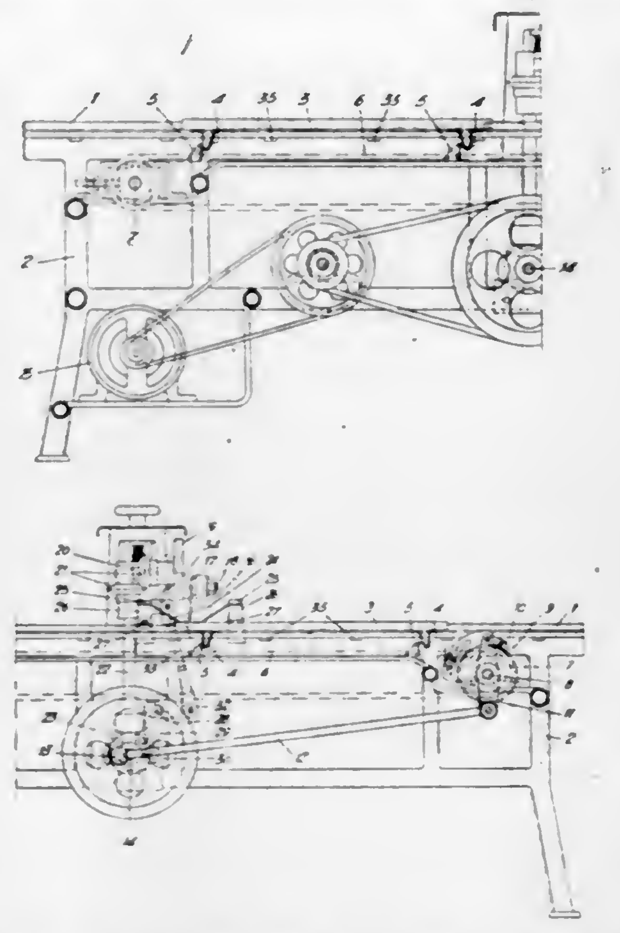
2,421,261
HARDWARE AND SCREEN CLOTH MACHINE
Noah S. Harter, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Original application October 13, 1938, Serial No. 234,853, now Patent No. 2,363,415, dated November 21, 1944. Divided and this application September 22, 1944, Serial No. 555,346
6 Claims. (Cl. 139—304)



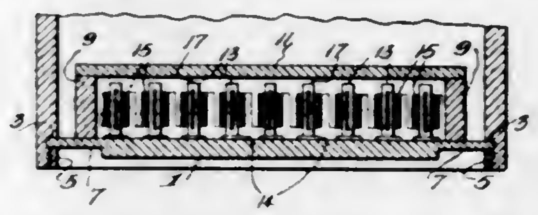
1. In a wire fabricating machine: a relatively stationary warp supply; a relatively stationary weft supply; means for feeding wires from said supplies into interwoven association with each other to form fabric, means for maintaining an uninterrupted and continuous fabric take-up after the formation thereof including a drum frictionally engaging the fabric, a gripper drum positively gripping the fabric, means for positively driving said friction drum, and driving connections between said friction and gripper drums including a friction clutch.

2,421,262
MACHINE FOR CUTTING FISH
Knut Georg Vilhelm Helldén, Lysekil, Sweden
Application May 8, 1945, Serial No. 592,589
In Sweden April 1, 1944
4 Claims. (Cl. 17—4)

1. A machine for cutting fish to pieces for preserving purposes which comprises in combination, a frame, guide means at the top of said frame, a loose table adapted to be supported by said guide means for carrying the fishes and to act as a cutting board therefor, a chain transmission and grippers thereon to propel the table along the guide means, a pawl and ratchet gear to impart a step by step motion to said chain transmission, a transversely extending knife above said guide means, means to impart a cycle of operation to said knife which includes a horizontal working stroke on a level with the top surface of the table lying on the guide means, a horizontal return stroke on a higher level, and semi-circular transitions between said strokes, flexible members to press upon the fishes at opposite sides of the path of said knife, and means to cause said flexible members to act during the working stroke of the knife only.



2,421,263
MAGNETOSTRICTIVE ELECTROACOUSTIC TRANSDUCER
Philip J. Herbst, Fort Wayne, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application January 3, 1940, Serial No. 312,295
12 Claims. (Cl. 177—386)

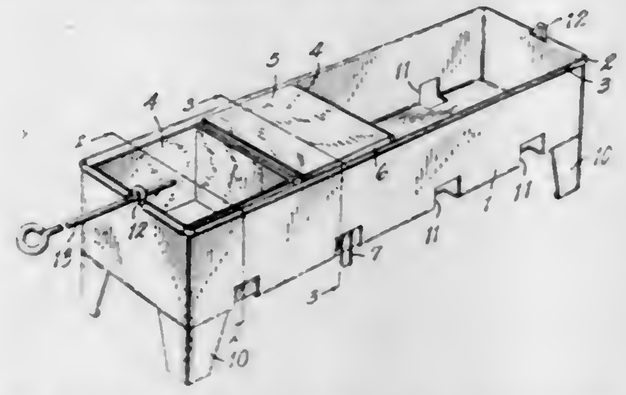


3. An electroacoustic transducer including a magnetic diaphragm, a plurality of magnetostrictive elements each mounted at one end on said diaphragm and arranged to drive the diaphragm or to be driven thereby, a back plate of magnetic material spaced from the free ends of said elements and substantially parallel to said diaphragm, and permanent magnet means located between and in magnetically coupled relation with both said diaphragm and said back plate for applying magnetic polarizing flux to said elements.

2,421,264

PACKING DEVICE HAVING FASTENER MEANS FOR FACILITATING THE FORMATION OF ATTRACTIVE DISPLAY LAYERS

George H. Herwig, Benton Harbor, Mich.
Application September 8, 1944, Serial No. 553,165
8 Claims. (Cl. 226—17)



1. In a packing apparatus, the combination of an invertible tray of rectangular section and provided with supporting legs and adapted when in upright position to receive a plurality of tubular container members rectangular in cross section and support the same in filling position with the bottom of the tray constituting a facing surface, the width of the tray being such that the side walls of the tubular container members are spaced therefrom to receive auxiliary side walls between them, the tray having opposed slot-like openings at the lower corners thereof extending into the bottom and side walls and adapted to receive projecting fasteners carried by the auxiliary side walls of a combined container bottom and side wall member and to permit the folding of such fasteners over the edges of the side walls of the tubular container member while the container members are assembled within the tray, upwardly projecting eyes on the end walls of the tray, and a container retaining rod removably engageable with said eyes and when engaged extending across the bottoms of the assembled containers facilitating the inverting of the tray with the filled containers therein and permitting the bending of the fasteners with the tray in inverted position.

2,421,265

RAPID ZINC DEPOSITING BATH

George B. Hogaboom, New Britain, Conn., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey
No Drawing. Application April 26, 1941, Serial No. 390.539
5 Claims. (Cl. 204—55)

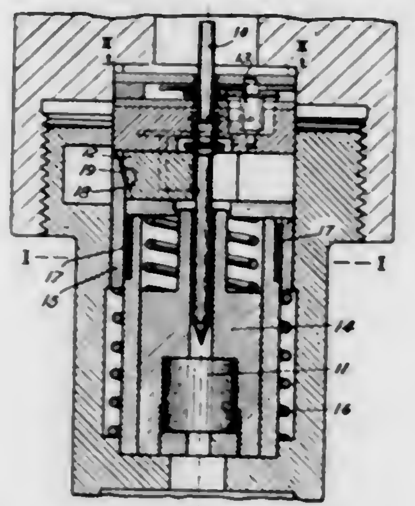
1. An aqueous bath for the electrodeposition of zinc, comprising zinc chloride and zinc acetate as substantially the entire electrolyte, the total zinc being within the range of 10 to 30 oz./gal. with about 80% supplied from zinc chloride and about 20% from zinc acetate.

2,421,266

FUSE FOR ORDNANCE PROJECTILES OR BOMBS

Guido Hönger, Petit-Lancy, Geneva, Switzerland, assignor to Mefina, S. A., Binningen, Switzerland, a corporation of Switzerland
Application October 29, 1938, Serial No. 237,729
In Switzerland November 6, 1937
9 Claims. (Cl. 102—78)

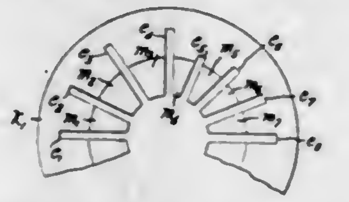
1. The combination, with a projectile fuse having a movable detonator member, of a movable locking member adapted to prevent actuation of said detonator member, a reversible horological escapement controlling the movement of said locking member, and a spring loaded bolt which normally prevents movement of said locking member from the locking position and is retracted against the action of its spring by the effect of inertia when the fuse is in flight, said locking member and said bolt having coacting cam surfaces with a mechanical advantage in favor of the bolt whereby said locking member is restored to the locking position by said bolt when said bolt, after partial retraction, is restored to normal position by its spring.



2,421,267

MECHANICAL SWITCHING DEVICE

Jakob Huber, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application August 5, 1943, Serial No. 497,501
In Switzerland June 24, 1942
2 Claims. (Cl. 200—165)



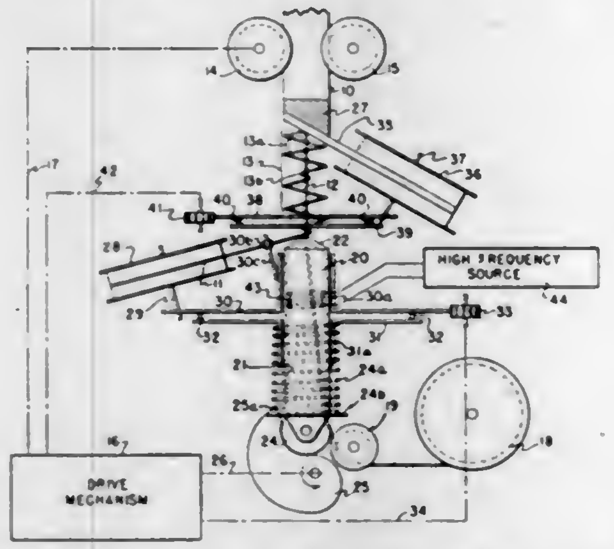
1. Contacts for a switching device for use in current converters of the mechanical type comprising a stationary contact element of annular form, a cooperating movable contact element having a lifting stem extending through said annular stationary contact element, and spring means tending to retain said contact elements in engagement, said stationary contact element being provided with a plurality of radial slots dividing the inner portion thereof into component parts of different size, and having natural frequencies of vibration which differ from the frequency at which said movable contact element is to be reciprocated.

2,421,268

METHOD AND APPARATUS FOR MAKING AIR INSULATED CABLE

Hans D. Isenberg, Wilmette, Ill.
Application February 3, 1945, Serial No. 576,079
11 Claims. (Cl. 57—6)

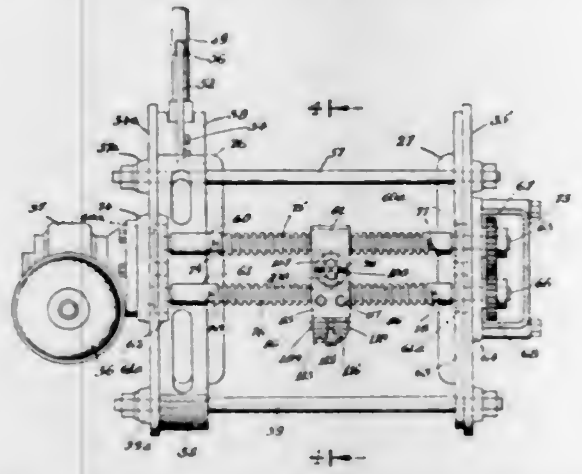
1. Apparatus for making cable having an inner conductor, comprising means for continuously moving said conductor longitudinally thereof, means operated in timed relationship with said last-named means for continuously winding a filamentary element of insulating material around said conductor to form helical convolutions spaced along the length of said conductor and surrounding said conductor, and means operated in timed relationship with said last-named means for so controlling the winding of said convolutions that certain thereof are radially displaced from said conductor and the other convolutions engage said conductor at spaced points along the length thereof to support said certain convolutions from said conductor.



2,421,269

STRAND WINDING APPARATUS

Francis J. Joyce, Keyport, N. J.
Application June 21, 1943, Serial No. 491,593
4 Claims. (Cl. 242—158)

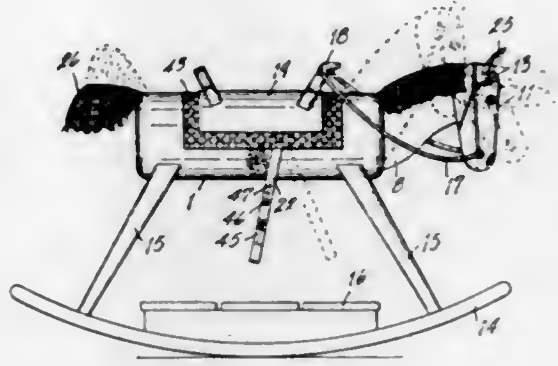


1. In a cable winding apparatus having a rotating drum mounted between end plates and a distributor for distributing cable thereon from an airplane towing device in superimposed layers as the cable is wound thereon and for unwinding cable therefrom in reverse order, a pair of rotatable shafts mounted between said end plates and on which said distributor is traversable, cam tracks on each of said shafts for effecting opposite movements to said distributor longitudinally of said drum, means at the ends of the tracks of each shaft and rotatable therewith to reverse the movement of said distributor, movably mounted corresponding cam followers for the shafts carried by the distributor and provided with concave engaging surfaces transverse to the axes of the shafts, guides carried by the distributor to absorb imposition of side loads by the drum and the cable extending from the drum, each follower being alternately engageable with the tracks and means of the corresponding shaft for effecting reciprocatory movements to said distributor.

2,421,270

ROCKING HORSE

Max J. Kendall, Benton Harbor, Mich.
Application August 18, 1944, Serial No. 549,977
9 Claims. (Cl. 272—53)



1. In a rocking horse, the combination of a body having supporting legs provided with rockers, said body having a longitudinally extending chamber therein with a vertical slot-like opening at the front thereof and provided with an opening at the rear thereof, a neck pivotally mounted within said slot-like opening, a head pivotally mounted on said neck, coacting stops on said body and neck limiting the vertical swinging movement of said neck, said head being balanced on its pivot to hang in a substantially vertical position when the neck is in its lowered position and unless restrained being free to swing on its pivot with the rocking of the body and when the neck is raised and lowered, an actuating member disposed within said body member and provided with a pivot projecting at both sides of the body, straps connecting said actuating member at opposite sides of its pivot to said neck on opposite sides of its pivot whereby on the actuation of said actuating member on its pivot the neck is raised and lowered on its pivot, lever-like stirrups mounted on the projecting ends of said actuating member pivot and normally inclined rearwardly with the neck element in its lowered position, a tail element comprising a lever member pivotally mounted in said body member to project through said opening at the rear of said body, said tail element further comprising a coiled spring mounted on said lever member and a fabric covering therefor, a link connecting said lever member to said actuating member, and a flexible tube embracing the lower end of said coiled spring tail element and split and secured to the body to provide cover guards for said rear opening in said body, said body being provided with a flexible saddle blanket element overlying the upper ends of said stirrups and the rear end of the neck receiving slot portion of said body member chamber to constitute guards.

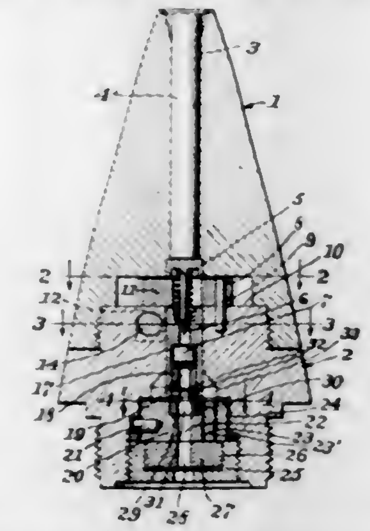
2,421,271

FUSE CONSTRUCTION

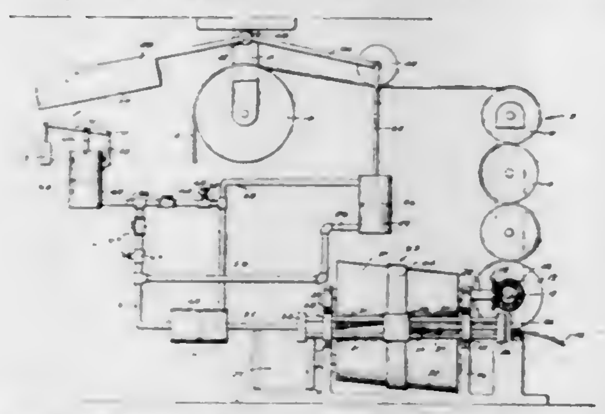
Piao Kiang, Washington, D. C.
Application June 10, 1942, Serial No. 446,493
4 Claims. (Cl. 102—79)

1. A fuse for explosive projectiles having an exploding charge, comprising a primer to ignite the charge, a striker member movable to ignite the primer, means to lock the striker member against movement, said means comprising a pivotal segment normally interposed in the path of said movable striker member but movable in response to centrifugal force to release said striker mem-

ber for movement to ignite the primer, and adjustable spring means acting on said segment to prevent its movement until a desired centrifugal force is attained.



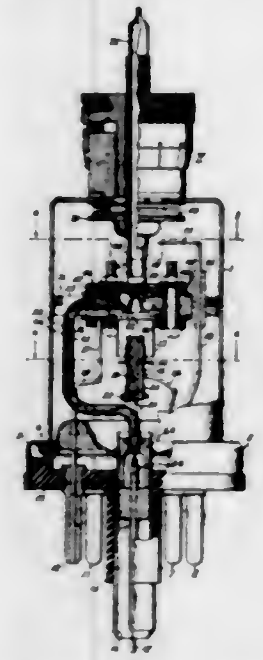
2,421,272
PAPERMAKING APPARATUS
Harry T. Knearem, Dallas, Tex., assignor to Gerald T. Shipman
Application November 18, 1944, Serial No. 564,100
3 Claims. (Cl. 92—73)



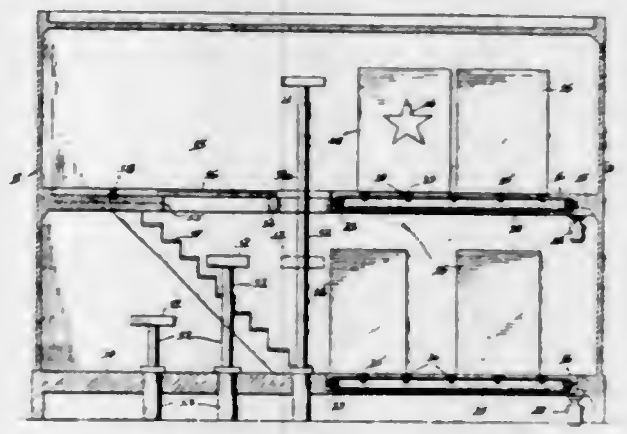
1. In apparatus for manufacturing paper, the combination of a paper drying roll, paper calender rolls, means for driving said calender rolls, automatic means controllable by the tension of a sheet of paper passing from the drying roll to the calender rolls, the means including a third roll supported by said sheet, operating mechanism governed by the position of said third roll and a counterbalance for said third roll, said counterbalance including a pivotally mounted, fluid-filled tank having a plurality of spaced, substantially vertical partitions therein, each of said partitions being provided with an aperture in the lower portion thereof, whereby relatively slow flow of liquid from one end of the tank to the other in accordance with the position thereof is permitted, said partitions precluding sudden surges of fluid when the tank is jarred by the operating mechanism.

2,421,273
ULTRA HIGH FREQUENCY ELECTRIC DISCHARGE DEVICE
James M. Lafferty, Colonie, N. Y., assignor to General Electric Company, a corporation of New York
Application February 25, 1943, Serial No. 477,065
6 Claims. (Cl. 250—275)

1. An ultra high frequency electric discharge device of the velocity modulation type comprising an hermetically sealed envelope including a cylindrical wall closed at one end, a base member transverse to said wall supporting and closing said wall at the other end thereof, an annular anode structure within said envelope supported from said wall and having spaced walls extending transversely to said cylindrical wall and defining in part a cavity resonator, aligned apertures in said spaced walls, a cathode constituting a source of electrons to be passed through said resonator and said apertures positioned on one side of said anode structure in alignment with said apertures, electrode means adapted to return electrons to said resonator in alignment with said apertures and positioned on the other side of said anode structure and supported thereby, conductor means connected to said electrode means for impressing potentials thereupon and extending through said anode structure but electrically insulated therefrom, said conductor means being connected to externally accessible terminal means supported by said base member, and a concentric transmission line coupled to said resonator and terminated in an externally accessible protuberance constituting a part of said base.

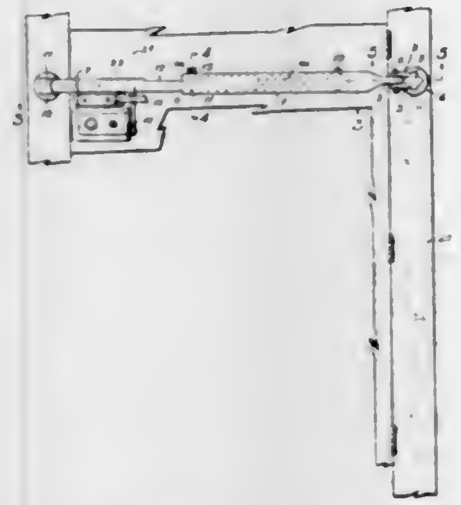


2,421,274
TELEVISION STUDIO CONSTRUCTION
Lawrence Levey, New York, N. Y.
Application December 13, 1944, Serial No. 568,039
3 Claims. (Cl. 95—82)



1. A studio for productions adapted to be televised comprising a plurality of independent and stationary studio rooms vertically arranged, each of the rooms having a floor provided with areas of spaced and geometrically arranged grooves, members detachably secured in and movable along said grooves in directions to effectuate montage effects, elevating means operating between and above and below vertically adjacent studio rooms to support television cameras for elevated and depressed angular and horizontal shots for continuous action in said rooms, and a prop member joining said rooms whereby the cameras are enabled to televise continuous action from one studio room to the other.

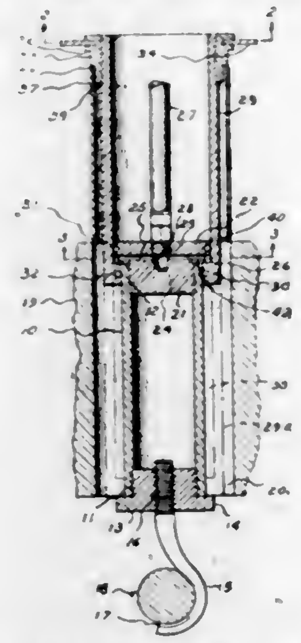
2,421,275
METALLIC SAFETY BAR FOR DOORS
Leandro Garcia Lopez, Habana, Cuba
Application February 17, 1945, Serial No. 578,405
In Cuba March 14, 1944
2 Claims. (Cl. 292—259)



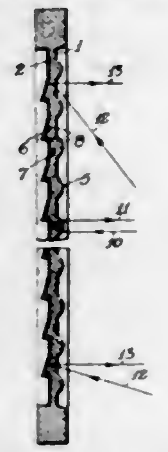
1. A metallic safety bar for doors, comprising a partly tubular member having at one bored end thereof means for connection with the door frame, whereby the bar is permitted to move in any direction, said means comprising in a screw which passes through the bored end of said tubular member and through threaded bores formed in the upper and lower branches of a semi-circular forked member secured as by a screw to the jamb to which the door is hinged, said member having inserted in its other end one end of a rod, said rod having integrally secured to its lower portion a projection adapted to cooperate with the bolt of a lock arranged in an inverted horizontal position, so that said projection and consequently said rod will move with the lock bolt.

2,421,276
TOOL FOR INSERTING CYLINDER LINERS
Homer W. Lotz, Detroit, Mich., assignor to Lotz Industrial Research Center, Detroit, Mich., a firm
Application July 26, 1945. Serial No. 607,217
4 Claims. (Cl. 29—252)

1. An apparatus of the kind described, comprising a stationary cylindrical member adapted to be disposed axially within the cylinder of the engine to be equipped with a liner, means at one end of said member to anchor the apparatus to the crankshaft of the engine during the operation of said apparatus, a closure at the other end of said member having an annular shoulder extending outwardly, a cylindrical sleeve, open at one end and being slidingly disposed over said shoulder, an annular collar on said sleeve at the open-end thereof to bear against the outer end of the liner, and an inwardly turned, annular flange on the opposite end of the sleeve to abut the outer surface of the stationary member, means to introduce liquid under pressure between the shoulder of the closure and the flange to drive said sleeve by means of said flange inwardly into the cylinder of the engine, with the liner on said sleeve to force the liner into its place in said cylinder.

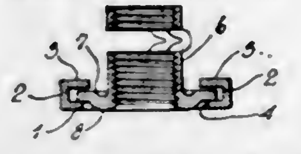


2,421,277
REFLECTIVE SIGN
Richard W. Luce, Southport, Conn.
Application May 12, 1943, Serial No. 486,713
5 Claims. (Cl. 88—82)



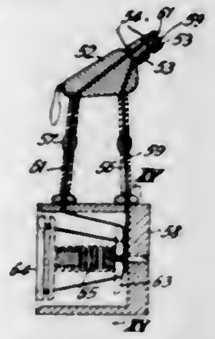
1. A light-reflecting device comprising a relatively thin sheet of light transmitting material having one surface thereof formed with a plurality of spaced relatively small light-collecting lenses and plane surfaces intermediate the lenses. and the opposite surface formed with plane surfaces opposite the lenses and prismatic reflectors intermediate the plane surfaces, the thickness of the sheet being such that the plane surface behind a lens is located at the point of greatest concentration of light by the lens from a point source at infinity and the prismatic reflectors being arranged to reflect light falling thereon from a source fixed with respect thereto in a predetermined direction other than retrodirectively.

2,421,278
NUT STRUCTURE
Richard W. Luce, Southport, Conn.
Application March 30, 1944, Serial No. 528,662
1 Claim. (Cl. 85—32)



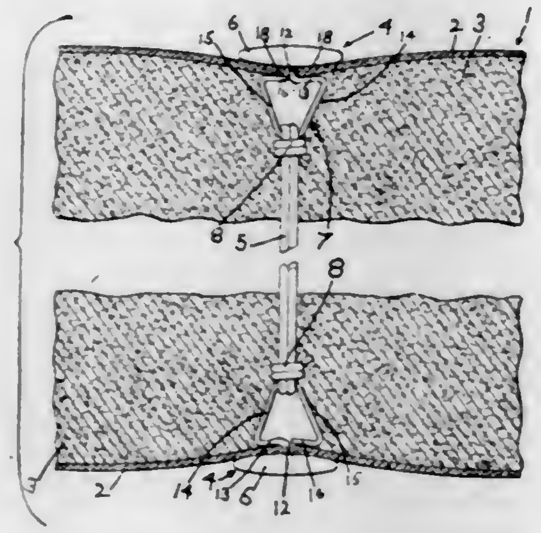
A nut structure comprising in combination a nut retainer including a strip adapted to be secured to one of two members to be secured together, and a nut retained by said nut retainer and having an engaging face substantially flush with the engaging surface of the strip of the nut retainer.

2,421,279
BODY WITH MOVABLE PARTS
Meinrad Marty, Zurich, Switzerland, assignor to Emanuel Merian, Basel, Switzerland
Application April 24, 1944, Serial No. 532,494
In Switzerland March 25, 1943
11 Claims. (Cl. 46—126)



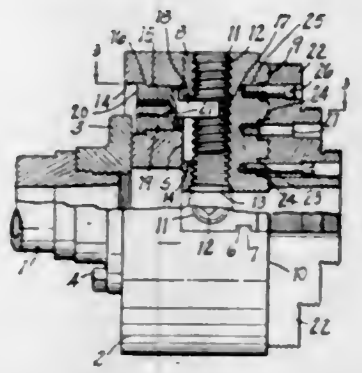
1. A body representing a figure comprising, a base, a plurality of articulated abutting elements forming said body, flexible connecting members passing through said elements, spring means normally holding said members under tension and thereby holding said body in a predetermined end position, and actuating means adapted to vary the tension in the individual connecting members to provide for positions of said body different from said end position.

2,421,280
TUFTING BUTTON
Wilfred B. Mathewson, North Weymouth, Mass., assignor to United Mattress Machinery Co. Inc., Quincy, Mass., a corporation of Maine
Application November 7, 1944, Serial No. 562,292
3 Claims. (Cl. 24—102)



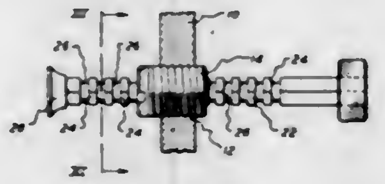
1. A tufting button comprising a head having a substantially flat top and a shank comprising a pair of legs whose ends are fixed in the substance of the head, the legs extending below the head to form a stem, and integrally merging with an eye portion, the eye portion being symmetrical with respect to the vertical axis of the head and comprising abutment shoulders whose uppermost elements are spaced from the under surface of the head a distance of the order of the fabric thickness, the eye tapering in width from said shoulders and having a fabric-penetrating point of small radius.

2,421,281
CHUCK
William J. A. McKay and Arthur J. Koon, Grand Rapids, Mich.
Application September 8, 1944, Serial No. 553,142
4 Claims. (Cl. 279—112)



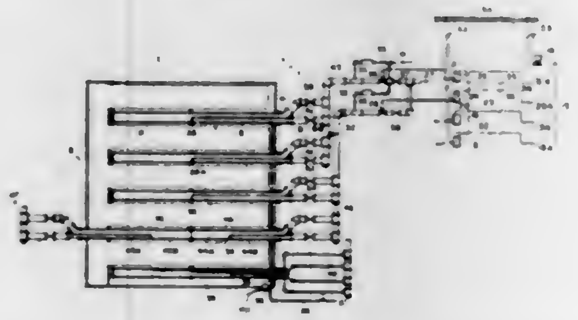
1. In a chuck, the combination of a body member having radial channel-like slideways provided with opposed jaw slide engaging ribs on the side walls thereof, jaw slides slidable in said ways and grooved to receive said ribs, said jaw slides having longitudinally disposed threaded bores therein open at their outer ends and longitudinal slots in the bottoms thereof opening to said bores, closures for the inner ends of said bores, jaw adjusting screws threaded into said bores and having annular grooves intermediate their ends, said screws when the jaws are in their inner position of adjustment being entirely housed in said bores, screw anchoring lugs mounted within said body member to project through said slots in said jaw slides and forked to engage the grooves in said screws, said closures and the walls of the inner ends of said bores constituting housings for the inner ends of said screws to protect the same from chips and shavings, and jaws carried by said jaw slides.

2,421,282
RAPID TRAVERSE PRESSURE UNIT
Henry H. Merriman, Jackson, Mich., assignor to Harry D. Boardman, Jackson, Mich., as trustee
Application April 6, 1944, Serial No. 529,783
4 Claims. (Cl. 74—424.8)



1. A rapid traverse screw advance pressure unit assembly, comprising an externally threaded thrust collar adapted to be supported in a threaded aperture and having a cylindrical axially extending chamber extending through substantially the entire length of said collar, a transverse wall at one end of said collar and defining one end of said chamber, a noncircular opening defined in said wall of reduced cross section as compared with the cross section of said chamber, a thrust bar having a noncircular portion adapted to be moved axially through said opening and held in one position of axial alignment therewith and having axial and radial clearance with said chamber in all positions of relative rotation and axial movement, a portion of reduced transverse cross section upon said bar adjacent said noncircular portion and having at least partial rotational clearance with said noncircular portion when disposed in the radial plane thereof, said noncircular portion of said bar upon partial rotation of said reduced portion in the plane of said opening overlapping a portion of said wall defining said opening to transfer the thrust of said bar to said collar, an axial projection on said wall adjacent said opening with which said noncircular portion of said bar engages as a stop on partial rotation in one direction to interlock said collar and bar for unitary rotation, and a second axial projection on said wall and engaging said noncircular portion of said bar as a stop upon partial rotation in the opposite direction to axially align said noncircular portion of said bar with said opening for rapid axial traverse of said bar relative to said collar.

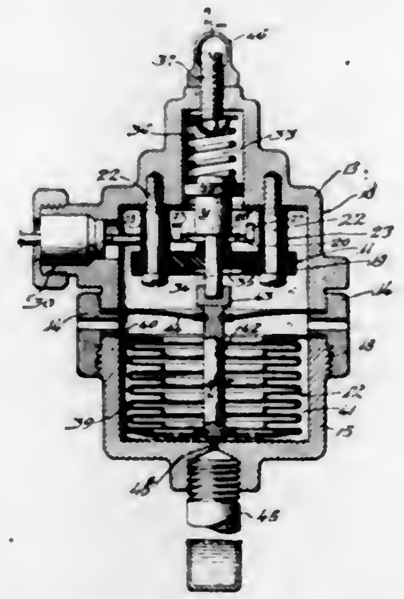
2,421,283
WEB DRYER ARRANGEMENT
Bernard Offen, Chicago, Ill.
Application May 7, 1943, Serial No. 485,998
3 Claims. (Cl. 263—3)



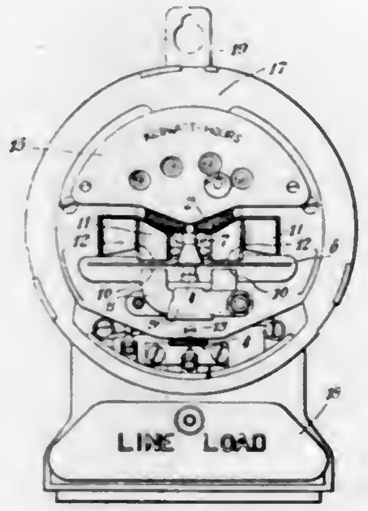
1. A combination of apparatus for drying a printed web including a dryer hood, a series of burners within said hood, such burners being positioned to throw flames in the path of web travel through the hood, a series of electrical starter control buttons governing the speed of a press from which a web may be routed to the dryer hood, a series of contact points cooperating with said starter control buttons, a controller having a contact element for making contact with said control buttons and with the corresponding contact points in desired number, a plurality of relay devices and a plurality of solenoid valves, each relay serving a corresponding solenoid valve to govern the admission of fuel to a corresponding burner of the series, the movement of said controller across said starter buttons and contact points to increase and decrease the speed of the press causing a corresponding increase and decrease in the number of burners placed in operation whereby the total heat supplied by the burners is increased and decreased as the speed of the press is correspondingly increased and decreased.

2,421,284
PRESSURE ACTUATED SWITCH
William R. Peterson, Lowell, Ind., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application June 24, 1944, Serial No. 541,963
5 Claims. (Cl. 200—83)

1. A pressure actuated switch, for controlling an electric circuit comprising, in combination, a switch assembly formed with an opening therethrough, a temperature responsive motor positioned at one side of said switch assembly for moving the switch arm thereof in one direction, resilient means positioned at the other side of said switch assembly, a movable element associated with said resilient means extending through said opening in said switch assembly and engaging the switch arm operating member of the motor for moving the motor in the opposite direction, adjustable means associated with said resilient means to vary the pressure exerted thereby and thereby determine the temperature at which the switch arm will function, means for mounting the switch assembly relative to said motor and said resilient means, a housing in which said switch assembly and said temperature responsive motor are enclosed, and a flexible diaphragm extending across said housing intermediate said motor and said switch assembly, whereby the said switch assembly is contained in a dust-proof compartment.



2,421,285
INDUCTION TYPE ELECTRICITY METER
John Prince, Brooklands, England
Application May 7, 1943, Serial No. 486,054
In Great Britain May 13, 1942
3 Claims. (Cl. 171—34)



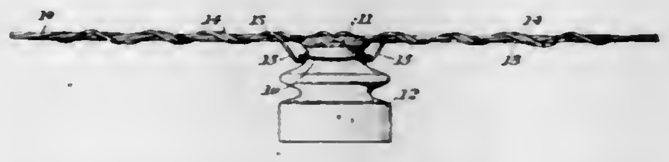
1. An induction type electricity meter comprising a frame, upper and lower spindle bearings carried by the frame, at least one of which is adjustable for releasing the spindle, a spindle mounted in the said bearings, a rotor disc secured to the said spindle, an electro-magnetic driving system for the disc carried by the frame at the back of the meter and an electro-magnetic braking system for the disc symmetrically disposed at the front of the meter opposite to the driving system, said braking system comprising a U-shaped permanent magnet located wholly on one side of the disc and across the front of the meter

with its ends presented to the disc and its U of sufficient depth to permit the passage of the end of the spindle on that side of the disc for frontal withdrawal of the disc and a one-piece complementary magnetic conductor located on the other side of the disc said conductor including a pair of arms projecting forwardly having faces complementary to those of the ends of the magnet and a rear bridge part behind the said spindle joining said arms, the space between the said arms and the arch of the said bridge part providing a passage for the spindle for frontal withdrawal of the disc without disturbing any part of the said braking system.

2,421,286
INSULATOR TIE FOR LINE CONDUCTORS

Ralph D. Pyle, Pleasant Hills, Pa., assignor to Copperweld Steel Company, Glassport, Pa., a corporation of Pennsylvania

Application March 24, 1945, Serial No. 584,536
8 Claims. (Cl. 174—173)

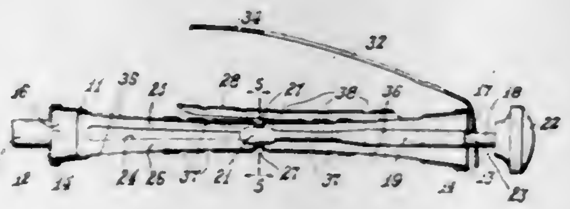


1. A tie for securing a line conductor to an insulator comprising two separate substantially identical, hard-drawn, preformed, helical, reinforcing wires adapted to be wrapped around the conductor, said wires being thereby effective to secure a tight frictional grip on the conductor, each wire having an offset loop formed therein, the wires being disposed on the conductor one on each side of the insulator, in partly overlapping relation, their loops engaging opposite sides of the insulator, and a binding wire extending around the insulator and through the loops of said reinforcing wires to secure the latter to the insulator.

2,421,287
CURLING ROD

Carl A. Reininger, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc., a corporation of Illinois

Application January 8, 1945, Serial No. 571,835
7 Claims. (Cl. 132—42)

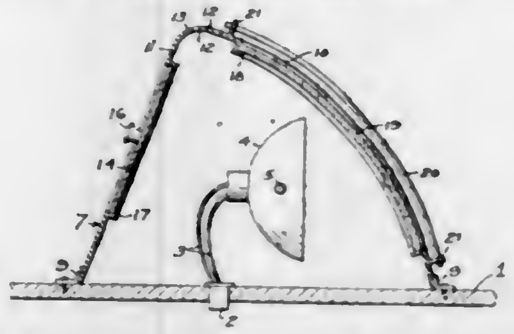


7. A curling rod comprising, in combination, a shaped tubular body closed at its ends having normally contracted medial portions, an engageable member slidably mounted in one end of said body movable into cooperative engagement with the contracted portion of the body to expand said portion, and a fastening strand detachably carried by said member adapted to be extended across a hair tress wound on said rod and be engaged with the other body end to hold the hair tress from unwinding, said strand when so engaged frictionally restraining the engageable member from moving in a direction to operatively engage with the body portion.

2,421,288
DUAL-PURPOSE LIGHT

Roy Roby, Staunton, Va.

Application June 30, 1945, Serial No. 602,490
2 Claims. (Cl. 240—7.1)

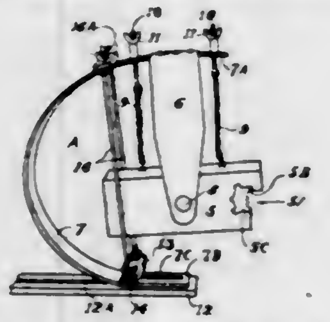


1. A boat light, comprising a lamp and reflector adjustable on a horizontal axis to cast beams at any angle from substantially horizontal to an angle approaching the vertical, a waterproof casing enclosing the lamp and reflector and adapted to rest on a flat surface, a horizontal rod journalled in the side of the casing and adjustably supporting the lamp and reflector, the back of the casing being upwardly and forwardly inclined, the front of the casing being arcuately curved upwardly and backwardly, an arcuate lens in the front extending throughout the angle of adjustment of the light beam, and a door in the back, upper and lower supports extending across the front below and above the arcuate lens, and arcuate grid rods extending between the supports to protect the lens.

2,421,289
ABRASIVE BELT MACHINE

Louis Roth, Du Bois, and John M. Schnaus, Jasper, Ind.

Application December 27, 1944, Serial No. 570,490
5 Claims. (Cl. 51—141)



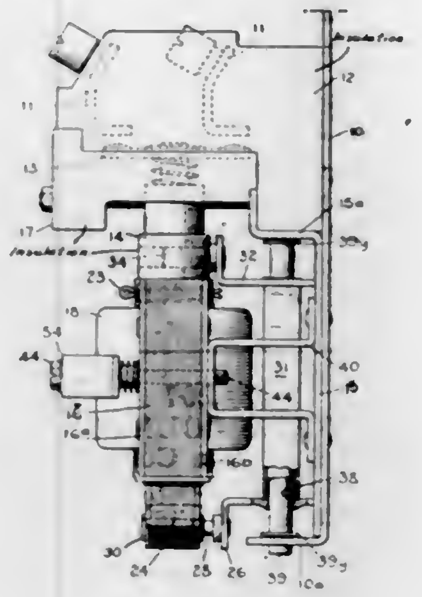
2. In apparatus for sanding edge faces or the like comprising a table, a sanding block, a main spring means operatively mounted in relation to said table for entirely suspending said block, said block having a face conforming to the edge face to be finished; a sanding belt operatively associated with said block; means for driving said belt, the belt being trained over the face of said block, means for adjusting said spring and a pair of auxiliary springs attached to said main spring and said block for balancing the block and locating the face thereof.

2,421,290
ELECTROMAGNETIC SWITCH

Harold E. Schleicher, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut

Application July 15, 1943, Serial No. 494,826
8 Claims. (Cl. 200—111)

1. Operating means for an electric switch comprising a mounting plate, an electromagnetic field piece, a coil mounted on said field piece, means supporting said field piece and coil spaced in front of said plate, an armature movable within said coil, a carriage adapted to move switch contacts, a connection between said carriage and armature constructed and arranged to permit disassociation of said armature from said carriage by movement forwardly of said plate, and means securing said field piece against said supporting means and constructed and arranged to permit disassociation of said field piece from said supporting means by movement forwardly of said base when said securing means are removed.



2,421,291
PRINTING INK

Alfred F. Schmutzler, Boonton, N. J., assignor to Sun Chemical Corporation, a corporation of Delaware

No Drawing. Application April 2, 1943, Serial No. 481,594
10 Claims. (Cl. 106—26)

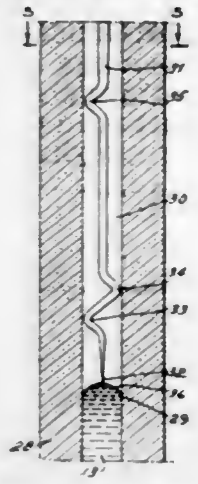
10. A printing ink characterized by superior press stability, whereby said ink remains open on the ink distributing rolls and inking mechanism of a press under conditions of high relative humidity and capable of being set to non-offsetting conditions by application of moisture after printing, comprising a coloring material, a water-insoluble binder material above 13% and up to about 40% and a water miscible liquid component compatible therewith and within the range of approximately 40–70%, said liquid component consisting essentially of an organic carboxylic acid ester of a dihydric alcohol in which only one of the hydroxyl groups of the dihydric alcohol is esterified and in which the other of said groups remains as a terminal hydroxyl group, said liquid component boiling above 200° C.

2,421,292
ADJUSTABLE THERMOSTAT SWITCH

John Leonard Schwartz, Philadelphia, Pa., assignor to Clarence A. Rossman, J. Leonard Schwartz, and Hugo Engelhardt, a copartnership doing business as The Philadelphia Thermometer Company, Philadelphia, Pa.

Application April 26, 1946, Serial No. 665,164
5 Claims. (Cl. 200—141)

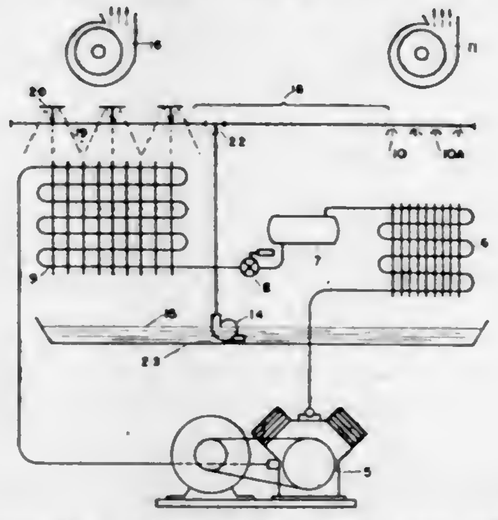
1. A thermostat comprising a barrel having a capillary bore, mercury in the bore, a movable electrode wire disposed in the bore, said wire having a plurality of lateral bends in such relative angularity as to guide the wire in the bore to maintain its substantial concentricity therein.



2,421,293
DEFROSTING METHOD AND APPARATUS

Sam F. Shawhan, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Application April 9, 1943, Serial No. 482,414
9 Claims. (Cl. 62—129)



1. A method of expediting the removal of accumulations of frost from evaporator surfaces consisting in circulating water in the form of spray over the surfaces during a defrosting operation, simultaneously supplying water in the form of spray into an air stream having a higher temperature than that of the water and melted frost leaving the evaporator, mixing the water from both operations, and then supplying the mixed water in part to the evaporator and in part to the air stream in a repetition of said steps until defrosting is accomplished, and finally cutting off the water fed to the evaporator surfaces.

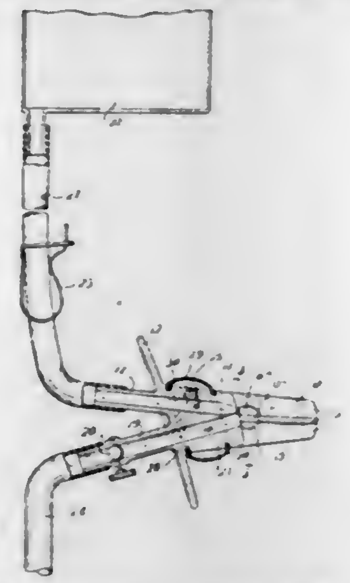
2,421,294
VAGINAL IRRIGATOR

John C. Shotton, Lakewood, Ohio

Application March 9, 1945, Serial No. 581,832
4 Claims. (Cl. 128—241)

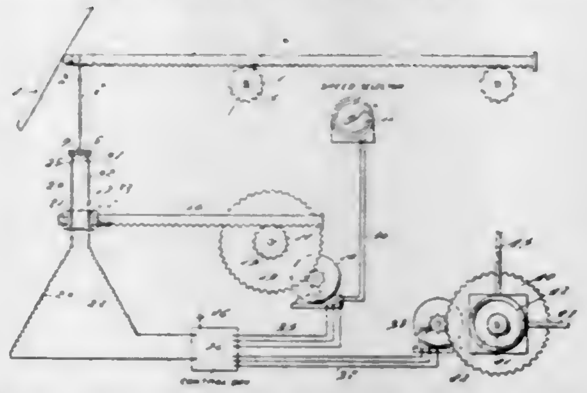
1. An instrument of the character described comprising a body having a rear portion, and a front portion comprising a plurality of ribs extending forwardly from the said rear portion and providing substantially V-shaped channels between said ribs, the rear portion of the said instrument having an inlet channel and an outlet channel therein with their respective delivery and receiving ends in the front end of the said rear portion, the said instrument being provided with

a central distributing chamber in front of and immediately adjacent to the delivery end of the inlet channel and the receiving end of the outlet channel and communicating directly therewith, there being openings extending outwardly from said chamber through the portions of the V-shaped channels between which the chamber is located, means for supplying liquid under pressure to the inlet channel, means for controlling the pressure of liquid within and surrounding the channels between said ribs when the said instrument is in situ, and means carried by the rear portion of the said body adjacent to the rear end thereof, for effecting a seal against the escape of liquid supplied to the said instrument except through the said outlet channel.



2,421,295
APPARATUS FOR APPLYING LOAD TO TESTING MACHINES

Jens Sivertsen, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 10, 1943, Serial No. 494,177
2 Claims. (Cl. 73—90)

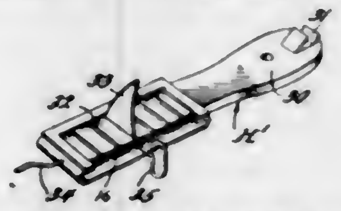


1. A system to control the loading rate of a specimen, comprising means to establish a loading rate, means to establish a timing rate, means responsive to a difference in said rates to automatically make a permanent adjustment in the loading rate, and means to automatically make a temporary adjustment in the timing rate which is effective only as long as the loading rate is being adjusted.

2,421,296
CAN OPENER

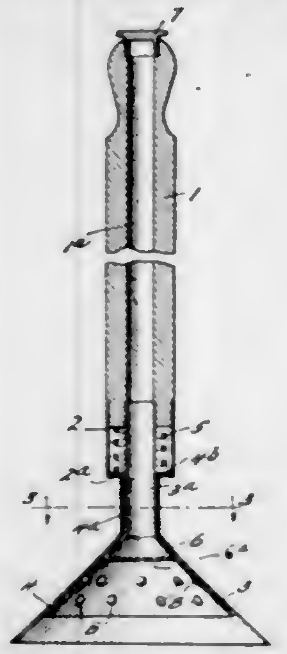
Joseph H. Solomon, Columbia, Pa.
Application November 30, 1945, Serial No. 631,919
3 Claims. (Cl. 30—16)

1. A can opener comprising a top plate and a bottom plate arranged in superposed spaced-apart relation and providing an opening extending along one side thereof communicating with the space between the plates, said bottom plate having an elongated slot therein, a rotatable key spanning the slot and having a finger-piece projecting outwardly through the opening, a blade secured to the key and adapted to lie within the slot in one angular position of the key and to project outwardly through the slot in another angular position of the key, and a can top penetrating hook located adjacent an end of said plates.



2,421,297
CLOTHES POUNDER

Joseph H. Solomon, Columbia, Pa.
Application January 3, 1946, Serial No. 638,746
2 Claims. (Cl. 68—219)



1. A clothes washing device comprising a pair of substantially nested metal cups having open bottoms, the inner cup being of less depth than the outer cup, tubular necks upon the cups arranged in coaxial telescoped relation, said necks extending axially outward from the ends of the cups opposite their open bottoms, a hollow handle secured to and communicating with the neck of the inner cup for reciprocating the inner cup within the outer cup, a compression spring exerting pressure between the handle and the outer cup, a perforated partition located within and extending transversely between the walls of the inner cup a spaced distance from its open bottom, an opening in said handle distantly located from the end of the handle secured to the inner cup through which a supply of soap may be introduced into the space upon one side of the partition and a closure for said opening.

2,421,298
TRANSFORMER

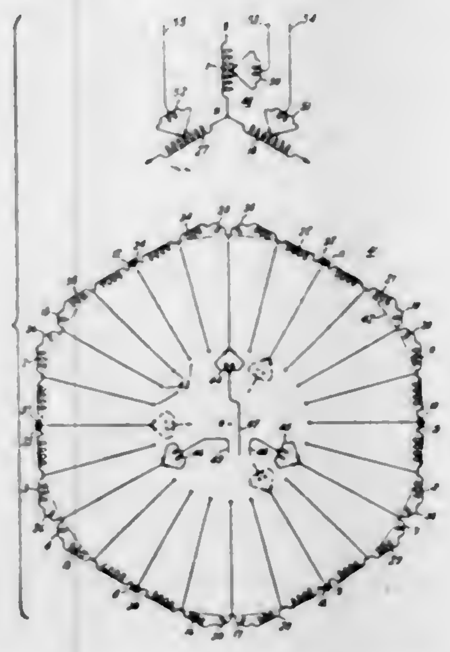
James R. Sutherland, New Lebanon, N. Y., assignor to General Electric Company, a corporation of New York
Application December 4, 1944, Serial No. 566,476
10 Claims. (Cl. 171—119)

1. An N phase transformer system having at least N^2 interconnected windings, said windings

and their interconnections being characterized by a voltage vector diagram of N angled symmetry having at least N^2 points on a common circle, said points being divisible into N phase displaced groups of N points each, the N points in any group being displaced

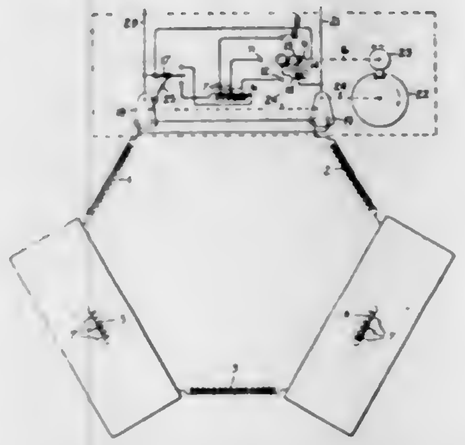
$$\frac{360}{N}$$

degrees from each other, and means for selectively connecting a polyphase circuit to said system at places corresponding to any of said groups of points so as to obtain polyphase voltage phase shift at constant voltage magnitude.



2,421,299
TRANSFORMER CONNECTION

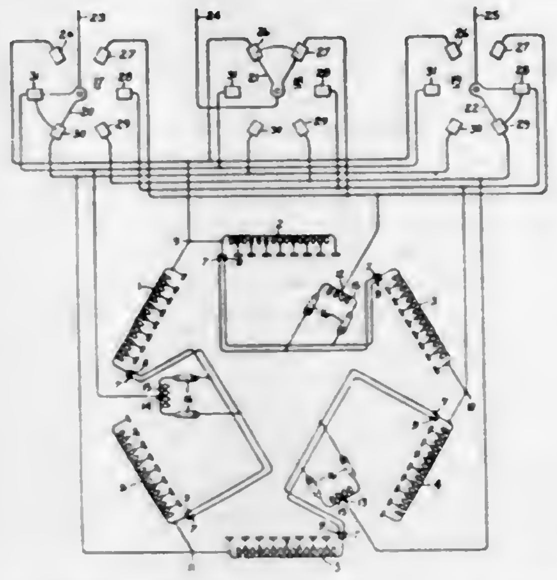
Wallace M. Johnson, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application December 4, 1944, Serial No. 566,562
15 Claims. (Cl. 171—119)



1. In combination, two sets of three-phase transformer windings connected in a closed mesh whose vector voltages constitute a hexagon, tap-changing means for one of said sets of windings, said tap-changing means having an operating member which when rotated in the same direction causes the effective voltage of said one set of windings to vary from a maximum in one direction through zero to a maximum in the other direction, means for reversing the connections of said one set when its tap-changing means goes through its zero effective voltage position, and line terminals for said mesh connected to said connection reversing means.

2,421,300
TRANSFORMER CIRCUIT

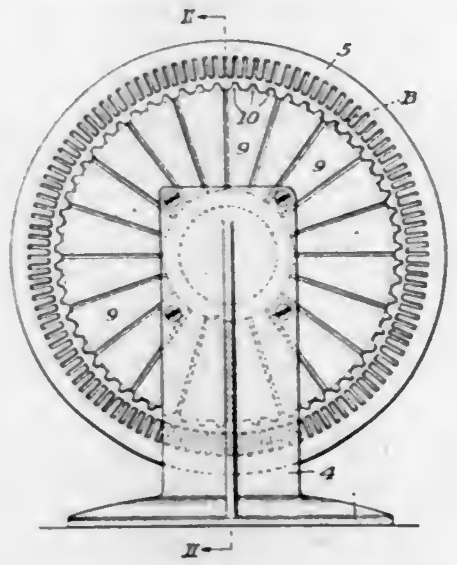
Howard O. Stephens, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application December 4, 1944, Serial No. 566,607
6 Claims. (Cl. 171—119)



1. In combination, a closed polyphase mesh-connected winding, means for changing the effective turns of the phase windings of said mesh in such a manner as to keep the junctions of their effective vector voltages on a circle so as to vary the phase of the voltages of the junctions of said windings relative to the phase of the voltages of said phase windings, and means for selectively connecting the line conductors of a polyphase circuit to a plurality of sets of such junctions which are electrically symmetrically located in said mesh.

2,421,301
SINGLE-PHASE ALTERNATING CURRENT SYNCHRONOUS MOTOR

Murray T. Swisher, Clairton, Pa.
Application March 15, 1944, Serial No. 526,548
2 Claims. (Cl. 172—275)



2. In an alternating current synchronous motor, a supporting frame, a sleeve, two side by side stators mounted thereon having four series of 60 teeth each, a hardened iron rotor surrounding such stators, having outermost and middle elements comprising three internal equally spaced series of 120 teeth each, all supported by said frame having an end plate mounted on a bearing within the hub of the stators.

2,421,302

PROCESS FOR IMPROVING THE EXTENSIBILITY AND STRENGTH OF HARDENED ARTIFICIAL FILAMENTS, FILMS, AND LIKE THIN MATERIALS HAVING A PROTEIN BASIS

Robin Hamilton Kendall Thomson, Kilwinning, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application August 24, 1942, Serial No. 455,942. In Great Britain September 12, 1941

5 Claims. (Cl. 34—23)

1. A process for the treatment of washed formaldehyde hardened artificial filamentous coagulated protein material containing associated water which consists in substantially completely removing the moisture from said material, thereafter heating the moisture-free material to a temperature between 85° C. and 120° C. by subjecting the material to a current of heated air having a temperature between about 100° C. and 120° C. for between three to eight hours, the period of time of the heat treatment being longer the lower the temperature, and then rehumidifying the material to a moisture content between about 9.5% and 13%.

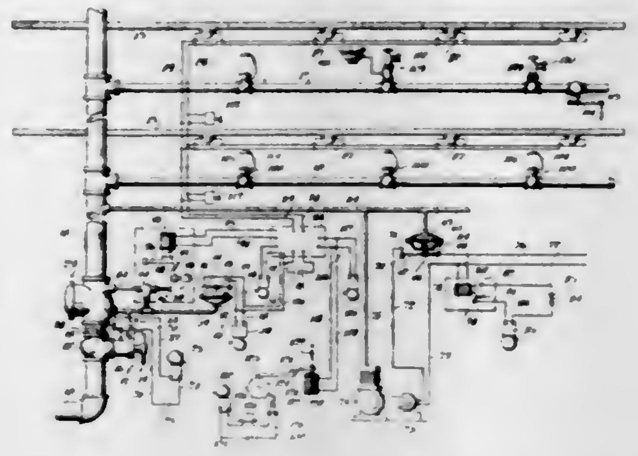
2,421,303

FIRE EXTINGUISHING SYSTEM

Stephen T. Van Houten, Allendale, N. J.

Application December 11, 1942, Serial No. 468,631

1 Claim. (Cl. 169—17)



A differential pressure operating dry-pipe fire extinguishing system for discharging an extinguishing fluid under pressure and normally containing a controlling body of air under pressure including, in combination, a sprinkler head having a discharge outlet, a main control valve communicating with a source of extinguishing fluid under pressure and adapted to be normally held in closed position against the pressure of the extinguishing fluid by air confined under a predetermined normal pressure in the system between the valve and sprinkler head, heat responsive means operating on the rate of rise principle for releasing air from the system, and a closure means for the outlet in the sprinkler head operative to normally confine the air against escape through the sprinkler head so as to keep the valve closed under the air pressure against the pressure of the extinguishing fluid, said closure means being inert to heat and to the normal air pressure in the system, but responsive to the pressure of the extinguishing fluid when air is released and its pressure reduced relative to the pressure of the extinguishing fluid to open the outlet in said sprinkler head.

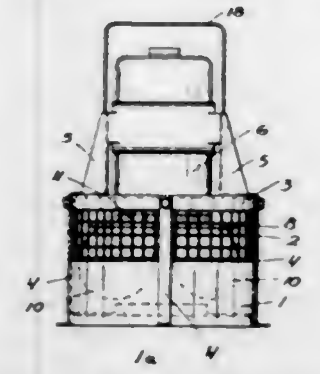
2,421,304

PORTABLE ELECTRIC EXHAUSTING FAN

Arne Alvar von Sneidern, Landskrona, Sweden, assignor, by mesne assignments, to Aktiebolaget Thulinverken, Landskrona, Sweden, a corporation of Sweden

Application November 20, 1945, Serial No. 629,901
In Sweden November 13, 1944

3 Claims. (Cl. 230—117)



1. In a portable electric exhausting-fan of the character described, the combination of a casing approximately in the form of a vertical cylinder and having an axial inlet in its lower end and a radial outlet in its upper part, an electric motor with vertical shaft, mounted on top of said casing, and a fan wheel mounted on the lower end of the motor shaft and working in said casing for drawing hot gases up though the axial inlet of the casing and exhausting them radially through the outlet at the upper part of the casing, said fan wheel comprising a full circular disk, fan blades mounted on the under side of said disk, and a second disk located at a distance above said first disk and having a central hub secured on the motor shaft, and means connecting said first disk to said second disk at a considerable distance from the motor shaft, said first disk being out of contact with the motor shaft and the hub secured thereon, and said second disk having inlets for cooling air leading to the space formed between the two disks.

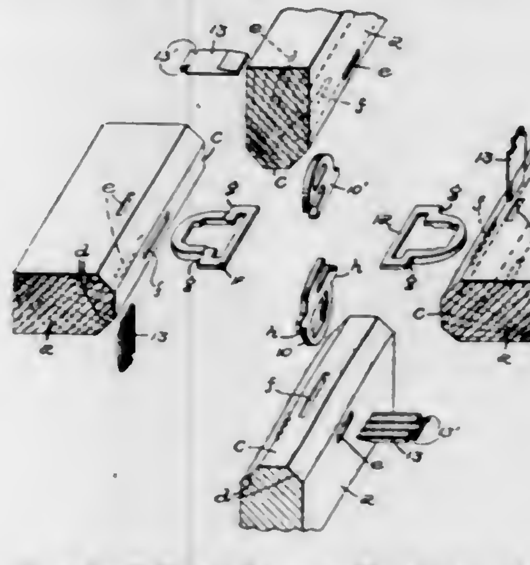
2,421,305

BUILDING STRUCTURE

Konrad L. Wachsmann, New York, N. Y., and Walter Gropius, Lincoln, Mass., assignors to General Panel Corporation, New York, N. Y., a corporation of New York

Application August 10, 1945, Serial No. 609,996

10 Claims. (Cl. 20—4)



1. In a building, the combination of four building panels positioned edge to edge about a common axis, each panel having bevelled edges positioned in abutting relationship to the corresponding edges of those panels at opposite sides of it, a joint connecting said panels and including four parts substantially in radiating relationship with respect to said axis, one pair of said parts which are in oppositely disposed relation overlapping each other and having openings therein which also overlap each other, and two other parts located in opposed relationship to each other, one of the latter parts extending into said openings and engaging walls of said openings which cooperate with said part to limit the movement of the first two parts away from each other, the second pair of said parts having surfaces in wedging relationship, one to the other, the plane of one at least of said wedging surfaces being inclined at an angle to said common axis, and means anchoring each of said panels to a corresponding radiating part of said joint.

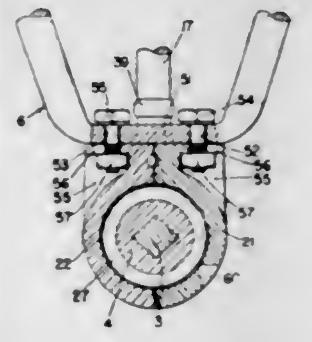
2,421,306

DISK HARROW AND BEARING THEREFOR

Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application August 4, 1944, Serial No. 548,055

17 Claims. (Cl. 97—220)



1. In a disk harrow, a bearing structure comprising a bearing spool, a bearing sleeve receiving the latter and comprising a pair of separable parts having a generally vertical plane of separation and each part having a bolt-receiving recess, a gang frame bracket having a horizontal portion overlying said recesses and apertured in registry therewith, and bolt means extending through the apertures in said bracket and into said recesses for holding said separable parts together.

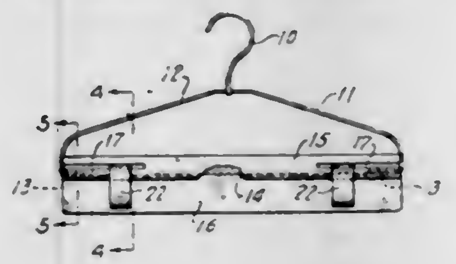
2,421,307

GARMENT HANGER

William T. Albrecht, Detroit, Mich.

Application January 8, 1945, Serial No. 571,742

5 Claims. (Cl. 223—96)



1. A garment hanger comprising a suspension member, a horizontal cross bar, shoulder supporting arms comprising wires leading from the suspension means to a recess within the ends of the cross bar, slots in each end of said cross bar, closed by said wires, and clamping means at each end of said bar, retained by and slidable in said slots having portions arranged to bear against said bar to engage garments and the like.

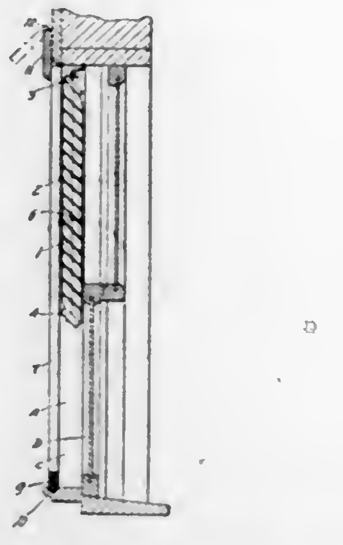
2,421,308

VENETIAN BLIND

Frederick Anderson and Frank D. Couzzen, Hawthorne, Calif.; said Anderson assignor to Albert Brearley and Vera M. Bramel, both of Monterey Park, Calif.

Application August 13, 1945, Serial No. 610,456

4 Claims. (Cl. 160—172)



1. Guiding means for a Venetian blind mounted within a window casing comprising, facing strips hingedly secured to the side members of the window casing to enclose the ends of the blind slats and movable on their hinges away from the slats, and means for locking said strips in slat enclosing position.

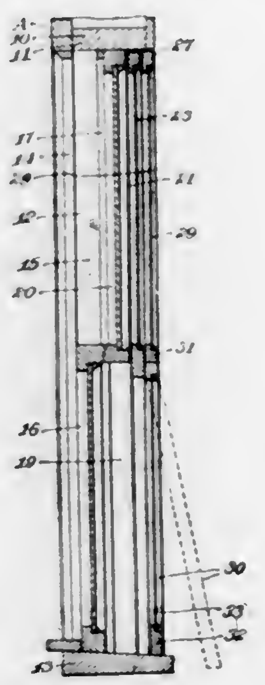
2,421,309

WINDOW CONSTRUCTION

Reuben B. Anderson, St. Paul, Minn.

Application March 23, 1944, Serial No. 527,713

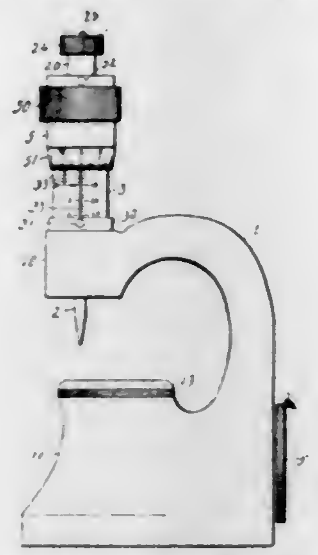
10 Claims. (Cl. 160—91)



6. A window comprising a frame, a main window unit in said frame, a storm window externally of said main window unit, said storm window including a vertically slidable lower sash, a vertically slidable upper sash, and a screen pivotally supported at its upper edge in said frame between the lower edge of said upper sash and the lower end of said frame.

2,421,310
WATCHMAKER'S STAKING TOOL AND JEWEL SETTER

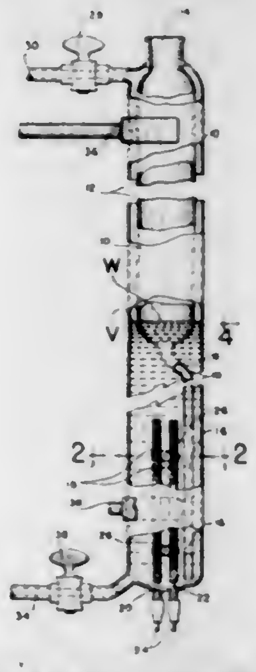
William E. Berlincourt, Montreal, Quebec, Canada
Application May 1, 1943, Serial No. 485,298
In Canada May 2, 1942
4 Claims. (Cl. 81—6)



1. In a watchmaker's tool, a staking tool frame, a fixed vertical sleeve therein supporting a punch, combined with a micrometer mechanism operating vertically on an extension to the sleeve, and an adjustable screw plug in such mechanism, means to couple the punch to such mechanism.

2,421,311
STEAM GENERATOR

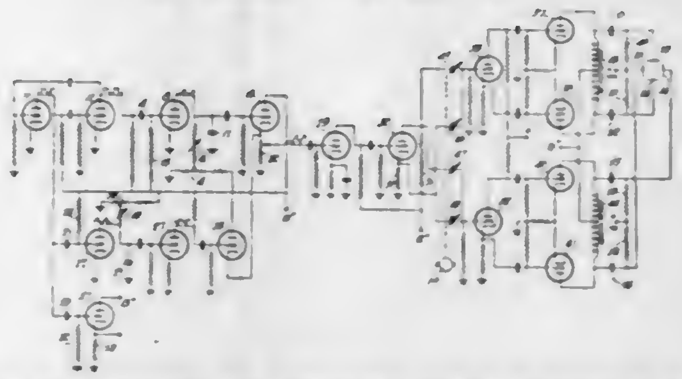
Donald S. Binnington, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application January 1, 1944, Serial No. 516,719
3 Claims. (Cl. 219—40)



1. A steam generator comprising a closed vertical chamber having a tube leading from the top for carrying off steam as generated, spaced electrodes enclosed in the bottom adapted to be connected to a source of alternating current, a reservoir for water in the upper part of the chamber and having a tube extending to the lower part of the chamber near the lower ends of the electrodes so that back pressure of steam will force water in the lower portion of the chamber up into the reservoir reducing the area of the electrodes in contact with water thereby decreasing in the rate of generation of steam.

2,421,312
DEFLECTION SIGNAL GENERATOR FOR POLAR SCANNING OF CATHODE-RAY TUBES

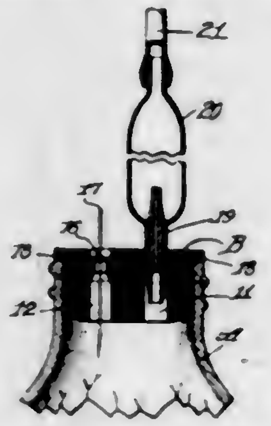
Lloyd J. Bobb, Glenside, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application April 25, 1944, Serial No. 532,670
19 Claims. (Cl. 315—24).



1. In a system for effecting polar scanning of a cathode ray tube, means for generating an alternating voltage wave having a rising wave front and a steep wave back in each half cycle, means responsive to said voltage wave for producing control voltages, means for cyclically varying said control voltages, and means operable by said control voltages to effect scanning movement of the electron beam within said tube.

2,421,313
CLOSURE FOR CONTAINERS

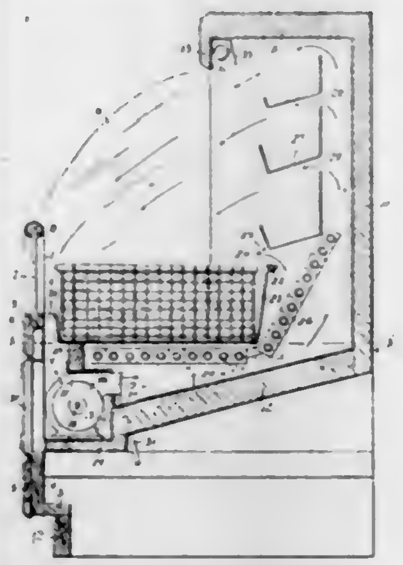
Wayne D. Brandon, Skokie, Ill., assignor to Baxter Laboratories, Inc., Glenview, Ill., a corporation of Delaware
Application December 12, 1941, Serial No. 422,646
7 Claims. (Cl. 128—214)



5. In combination, a container closure for containers of liquids for intravenous administration, comprising a closure plug having a body formed of resilient material and provided with an outlet passage extending therethrough, an integral resilient diaphragm extending across said passage to close the same, said diaphragm being positioned slightly below the upper face of the plug to define a recess above the diaphragm, and the latter being puncturable to permit the insertion of an outlet tube in the passage, the outlet passage having a relatively restricted portion of uniform diameter extending immediately below the diaphragm and an enlarged portion below the restricted portion, said portions being connected by a shoulder, and an outlet tube insertable through the punctured diaphragm and provided with an enlargement engaging said shoulder, the punctured portion of the diaphragm extending downwardly along the walls of the passage to firmly grip the outlet tube and urge the latter upwardly to bring said enlargement into liquid-tight gripping engagement with the shoulder.

2,421,314
OPEN TOP REFRIGERATED DISPLAY CASE

Paul H. Brinkoeter, San Antonio, Tex., assignor to Ed. Friedrich, Inc., San Antonio, Tex., a corporation of Texas
Application November 21, 1945, Serial No. 629,970
10 Claims. (Cl. 62—89.5)

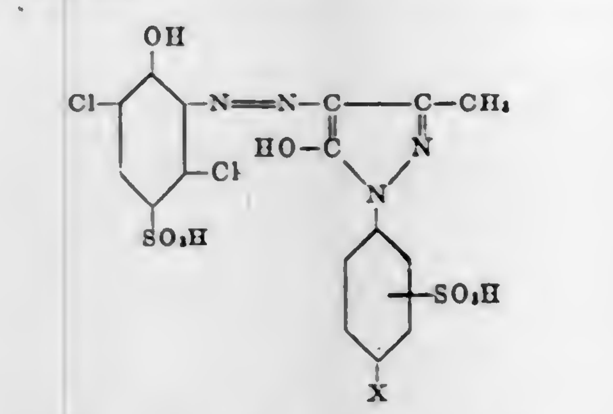


1. In a refrigerated display case of the class described, insulated bottom, side, back and front walls, the back and side walls extending a substantial distance above the front wall and the bottom wall inclining rearwardly-upwardly from the front wall; a canopy extending forwardly from the upper end of said back wall a distance substantially less than the depth of the cabinet between said front and back walls to leave an opening between said front wall and the front of the canopy; food shelves having rear walls spaced from said back wall and spaced one above another to provide air circulating passages; a pan located above but adjacent the fore part of said bottom wall; a heat-exchange unit beneath and in close proximity to said pan; and means creating a forced air circulation from the fore portion of and along said bottom wall, up said back wall and downwardly over said shelves and pan to and down said front wall, all within the cabinet.

2,421,315
CHROMIUM COMPLEX OF MONAZO PYRAZOLONE

Boyce Galloway Carson, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 9, 1943,
Serial No. 490,193
4 Claims. (Cl. 260—147)

1. The chromium complex of a dye represented by the formula



in which X is one of the group consisting of hydrogen, chloro and methyl.

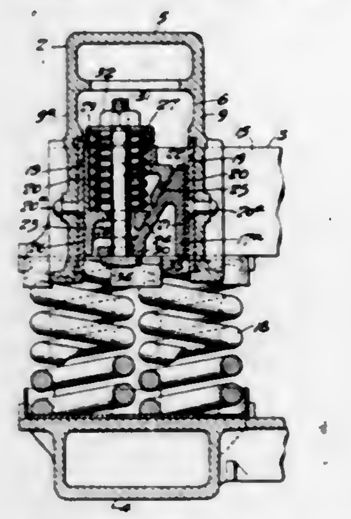
2,421,316
ELECTROLYTIC ETCHING BATH

Kenneth J. Carson, North Caldwell, and Justin M. Kelly, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application January 4, 1944,
Serial No. 516,982
1 Claim. (Cl. 204—141)

As a bath for the electrolytic etching of samples of nickel base alloys in preparation for metallographic examination, a water solution consisting of about 62 parts by volume of 38% hydrochloric acid, about 35 parts by volume of 10% solution of ferric chloride in water, about 2 parts by volume of glacial acetic acid, combined with about one part by volume of a water solution proportioned to contain about 3 grams of an alkali dichromate, about 3 cubic centimeters of oil of vitriol and about 0.10 gram sodium chloride in each 100 cubic centimeters of water.

2,421,317
RAILWAY TRUCK

Glenn F. Couch, Rochester N. Y., assignor to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland
Application March 12, 1941, Serial No. 383,023
32 Claims. (Cl. 105—197.2)



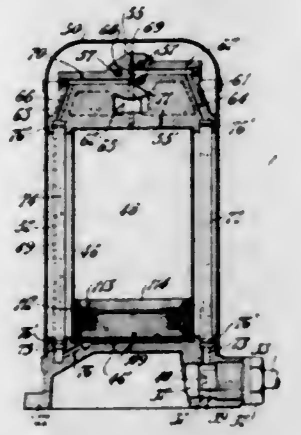
3. In a railway truck of a type having a pair of transversely spaced side frames each comprising spaced guide columns having transverse webs and longitudinal flanges upstanding from a tension member and defining a window opening therebetween, the combination of a bolster structure having an extremity extending into each of said openings, means outstanding from each bolster extremity longitudinally of said truck and positioned in accommodating guide columns, and movable means positioned in each guide column in intimate contact therewith and with said outstanding means, said outstanding means being in constant intimate contact with said guide column flanges for maintaining said side frames in transverse alignment.

2,421,318
FLUID PRESSURE MOTOR OF THE EXPANSIBLE CHAMBER TYPE WITH PISTON OPERATED SNAP ACTION VALVE

Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application October 30, 1944, Serial No. 560,924
5 Claims. (Cl. 121—164)

4. In a motor, having a cylinder with heads, a piston in the cylinder and valve mechanism

controlling the admission of pressure fluid to and the discharge of such fluid from the cylinder; said mechanism including a cylindrical slide valve reciprocable in the same direction as the piston, a seat for said valve, a reciprocable yoke for moving the valve and having an elongated slot therein with semi-cylindrical ends, said valve being located in said slot and free to rotate, means for moving said yoke by the piston near each end of its stroke, said slot having a dimension in the direction of reciprocation of the yoke equal to the length of the valve in said direction plus half the stroke of the yoke, and snap-action means conditioned during the first half of each stroke of the yoke to complete the stroke of the yoke and move the valve from one extreme position to the other.

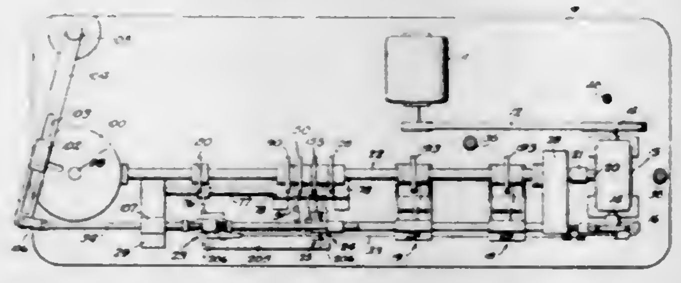


2,421,319
FILAMENT SCRAPER

John Ehret, Jr., Trenton, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application February 16, 1944, Serial No. 522,610

7 Claims. (Cl. 15—93)



1. An apparatus for scraping portions of a cover from a covered core, the apparatus comprising a scraping element having a scraping edge, means to continuously reciprocate the element between given limits, means to grip a covered core at spaced positions beyond the said limits of the element, leaving the intermediate portion thereof unsupported, and means to move the gripping means to move the unsupported portion of the core into engagement with the scraping edge of the element for scraping a portion of the cover from the said unsupported portion of the material.

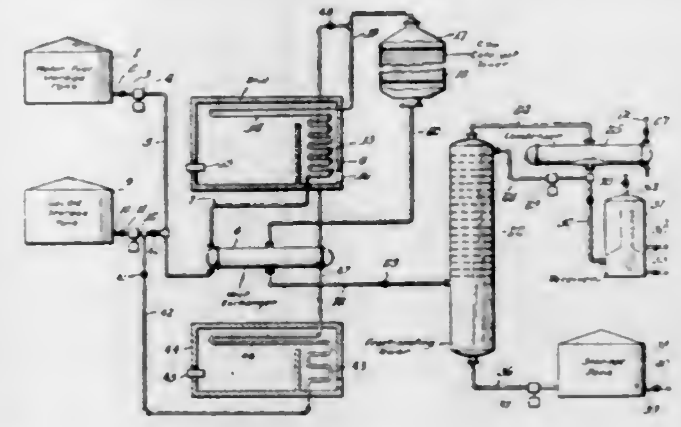
2,421,320
METHOD OF DESULPHURIZING HYDROCARBON OILS

Joseph C. Ernest, Grand Rapids, Mich., assignor to Mid-West Refineries, Inc., Grand Rapids, Mich., a corporation of Michigan

Application August 25, 1945, Serial No. 612,668

3 Claims. (Cl. 196—28)

1. In a process for desulphurizing hydrocarbons boiling within the motor fuel range in which motor fuel hydrocarbons are heated to vaporizing temperatures, the hydrocarbon vapors are passed through a bed of solid adsorbent catalytic material consisting essentially of clay whereby the sulphur compounds present in the hydrocarbon oil are converted into more easily removable sulphur compounds, the improvement comprising extending the catalytic activity of the catalyst bed by simultaneously heating a hydrocarbon oil boiling within the gas oil range to temperature substantially equal to that to which the motor fuel hydrocarbons are heated and introducing the heated gas oil into the catalytic bed as a menstruum to remove converted sulphur compounds tending to inactivate the catalyst, removing the motor fuel vapors and gas oil from the contacting catalytic zone, separating liquid hydrocarbons from hydrocarbon vapors and condensing the vapors to obtain a treated hydrocarbon condensate boiling within the motor fuel range.

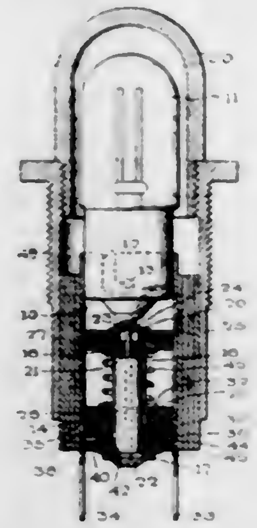


2,421,321
GASEOUS CONDUCTION LAMP SOCKET

Paul Forman, Bronx, N. Y., assignor to Dial Light Co. of America, Inc., New York, N. Y.

Application August 13, 1945, Serial No. 610,579

2 Claims. (Cl. 201—49)



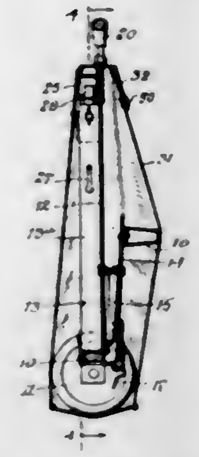
1. In a socket, the combination with a shell, a hollow plunger slidably mounted in said shell and insulated therefrom, contact means carried by and having electrical contact with said shell and another contact means carried by and insulated with respect to said shell and having electrical contact with said plunger, an insulated resistor mounted in said plunger and having an end thereof secured to said plunger, and contact means disposed in said shell and insulated from said shell and plunger, and secured to said resistor and movable therewith.

2,421,322
SHOPPING CART

Benjamin Frazin, New York, N. Y.

Application December 11, 1945, Serial No. 634,226

1 Claim. (Cl. 280—36)



A portable shopping cart comprising a pair of wheels, a frame mounted on said pair of wheels, a back rest mounted on said frame, a foldable pulling handle connected to said frame and said back rest, a foldable platform connected to said frame, a carrying handle on said back rest, a bag supported by said platform, a loop on said bag, a hook on said pulling handle, said loop being adapted to engage the hook to prevent the bag from falling off the platform, said bag being adapted to accommodate all of the other parts of the cart including the foldable parts thereof when they are in folded position, said bag having an opening through which the carrying handle may extend when all of the other parts of the shopping cart are enclosed within said bag, and a closing member for said opening, said closing member comprising a flap which extends under said carrying handle, leaving said carrying handle exposed for carrying purposes, and fastening means for fastening said flap to the bag to prevent the bag from falling off the rest of the cart when the cart is carried.

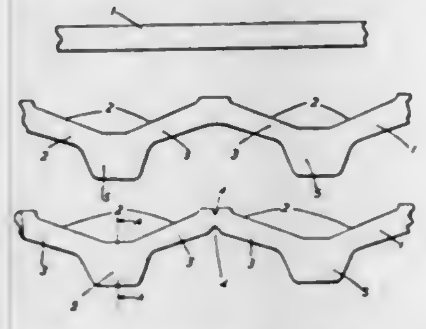
2,421,323
MANUFACTURE OF SLIDING CLASP FASTENERS

Hermann Richard Fruengel, London, England, assignor to Zipp Fastener Company Limited, London, England, a company of Great Britain

Application January 28, 1944, Serial No. 520,113

In Great Britain May 15, 1942

6 Claims. (Cl. 29—148)



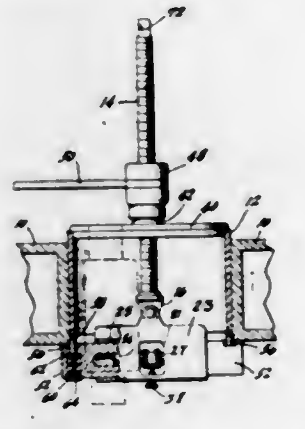
1. A method of making fastener elements for sliding clasp fasteners comprising the steps of deforming a continuous blank material extending linearly along a longitudinal axis, into a continuous longitudinally extending approximately wavy shape to form crests of waves interconnected by inclined portions of the material defining the legs of embryo fastener elements, the crests lying on one side of the said longitudinal axis of the material substantially defining the interconnected ends of contiguous legs, providing at least one indentation in each of said crests, providing the crests lying on the other side of said axis with coupling elements, and severing the crests defining the ends of the legs at said indentations.

2,421,324
THRUST ELEMENT FOR CYLINDER LINER REMOVING AND INSERTING TOOL

George M. Graham, Detroit, Mich., assignor to Hinckley-Myers Division of Kent-Moore Organization Inc., Jackson, Mich., a corporation of Michigan

Application December 21, 1944, Serial No. 569,138

4 Claims. (Cl. 29—283)



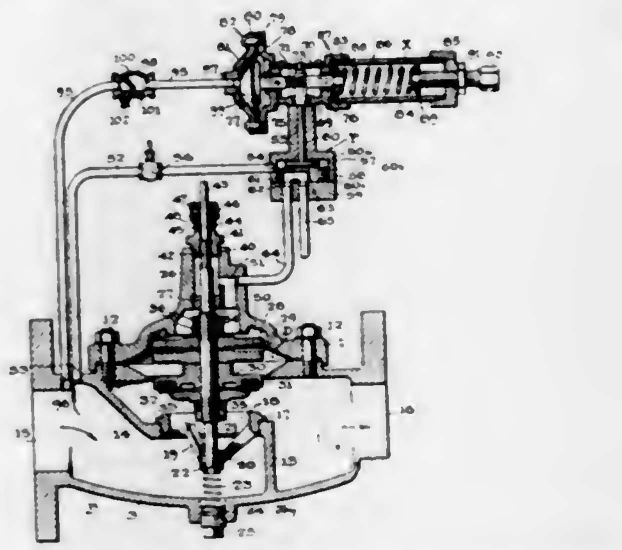
1. A thrust element comprising a shaft adapted to transmit axial thrust, a yoke pivoted upon one end of the shaft to extend diametrically or axially thereof, a pair of arms mounted slidably within the yoke and projecting beyond opposite ends of the yoke, the outer end of each arm beyond the yoke provided with a recess and a plunger spring urged outwardly beyond the recess and resistingly depressible into the recess.

2,421,325
NONSURGE MEANS

Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.

Application October 14, 1942, Serial No. 461,977

21 Claims. (Cl. 103—113)



8. In a water pumping system wherein a quantity of air precedes the flow of water, the combination of: a pump; a service valve; a non-surge valve; and automatic control means for said non-surge valve, said service valve and said non-surge valve each having an inlet chamber communi-

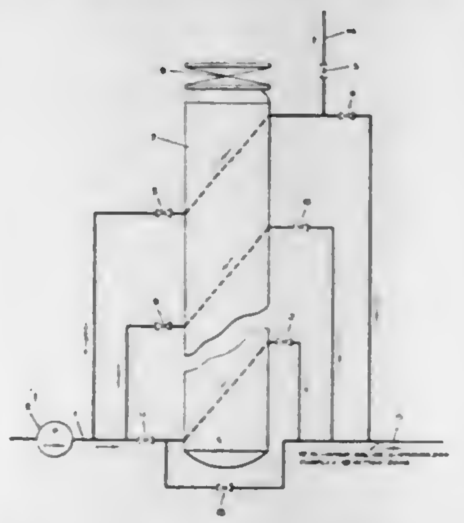
cating with the outlet of said pump and hence subject to the pressure developed by said pump, said automatic control means being pressure-responsive and connected with said inlet chamber of said non-surge valve so as to be operated by hydraulic pressure built up in the inlet chamber of said non-surge valve by said pump, said automatic control means being arranged to permit said non-surge valve to remain open while said air is being pumped through said non-surge valve and to effect closing of said non-surge valve when said pump starts to pump said water through said non-surge valve, said non-surge valve including adjustable means for limiting the extent of opening thereof so as to assure building up of hydraulic back-pressure in said inlet chamber, said service valve normally being closed while said pump is pumping said air but being adapted to be opened upon the closing of said non-surge valve.

2,421,326
REFORTIFICATION OF ALUMINUM HALIDE-HYDROCARBON COMPLEX CATALYSTS

John L. Groebe, William B. Reeves, and Daniel C. Campbell, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application January 17, 1946, Serial No. 641,716

3 Claims. (Cl. 260—683.4)



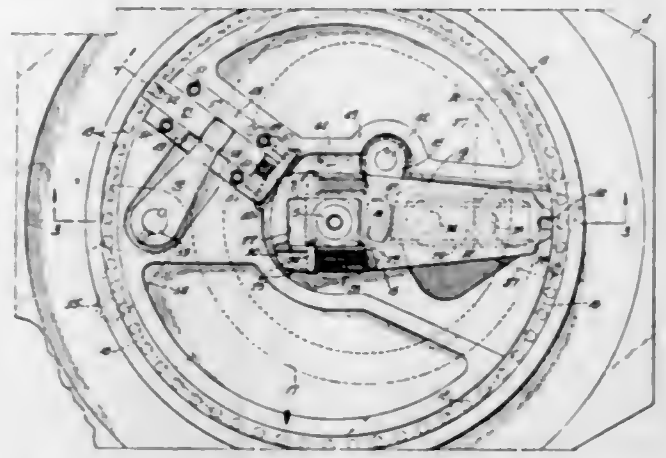
1. In a hydrocarbon conversion process wherein an isoparaffin is a reactant in the presence of an aluminum halide-hydrocarbon complex catalyst which requires refortification that improvement which comprises passing an incoming stream of isoparaffin feed in a net effective direction of flow extending upwardly at an acute angle through an upper portion of a chamber containing granular aluminum halide, controlling the rate of flow of said stream of isoparaffin feed so the amount of aluminum halide required for catalyst fortification becomes suspended in the isoparaffin stream during its passage through the upper portion of said chamber, after aluminum halide has been removed from said upper portion of the chamber passing said incoming stream of isoparaffin in a net effective direction of flow extending upwardly at an acute angle through a lower portion of said chamber containing aluminum halide, controlling the rate of flow of said stream so that the amount of aluminum halide required for catalyst refortification becomes suspended in the isoparaffin during its passage through said lower portion of the chamber, withdrawing isoparaffin containing suspended aluminum halide from the chamber, introducing this effluent into a reaction zone and there contacting it with the aluminum halide-hydrocarbon complex catalyst requiring fortification.

2,421,327
TURRET TRAVERSING AND INDEXING DEVICE

Howard Thomas Hallowell, Jr., Jenkintown, Pa., assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa., a corporation of Delaware

Application January 27, 1944, Serial No. 519,930

8 Claims. (Cl. 74—125)



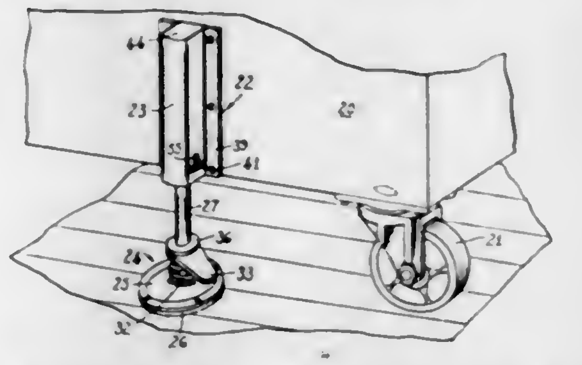
1. In combination, a rotary turret having a concentric series of pins projecting from one face thereof, a rotary drive shaft forming a journal for said turret, an oscillatory lever and means affording bodily movement of the lever to and from said pins, means operative only when the lever is in an advanced position of said bodily movement for interlocking the lever with a pin of said series whereby subsequent angular movement of the lever about its axis of oscillation may effect a rotary movement of the turret, and mechanism operatively connecting the shaft with the lever for effecting synchronized oscillatory and bodily movements of the latter.

2,421,328
INDUSTRIAL TRUCK

Walter F. Herold, Easton, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut

Application May 30, 1945, Serial No. 596,651

20 Claims. (Cl. 188—5)



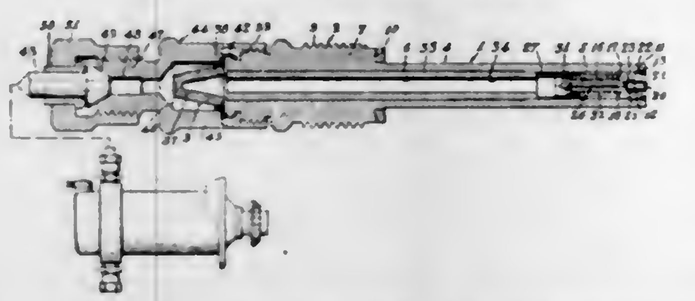
1. An anchoring device for industrial trucks and the like, comprising a housing adapted to be fastened to the lower portion of the truck body and having a chamber therein, a plunger having an upper portion moving in said chamber, a spring in said chamber acting against the plunger and tending to hold the plunger in a raised position, the lower portion of the plunger being disposed outside of said chamber, a foot member carried by the lower end portion of the plunger, a spring surrounding the plunger above the foot member and adapted to exert pressure on the foot member in the direction of the floor, a laterally extending arm fixed on the plunger above said last spring by means of which the plunger can be pressed downwardly, and a latch mechanism carried by the housing adjacent the lower part thereof and cooperating with the plunger to maintain the foot member in engagement with the floor.

2,421,329
FUEL INJECTION NOZZLE

James F. Hoffer, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan

Application July 8, 1941, Serial No. 401,499

3 Claims. (Cl. 210—166)



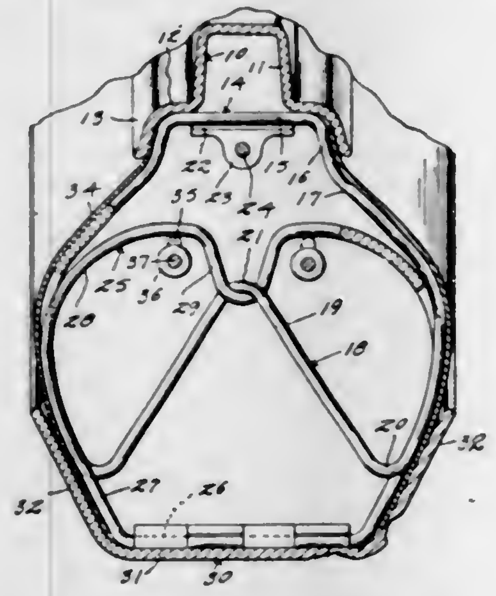
1. In a fuel injection nozzle, in combination, an elongated sleeve having a base end and a discharge end, and being formed intermediate its ends with screw threads for connection with a suitable support, means in the discharge end of said sleeve defining a discharge orifice, valve means including a stationary tubular valve seat member disposed against said first mentioned means and a valve for controlling the supply of fuel under pressure through said sleeve to said orifice, abutting tubular spacer means in said sleeve engaging said seat member, a filter disposed against said base end and serving to hold said spacer means in position, means rigidly connecting said filter and said sleeve, and a hollow member threaded onto said base end of said sleeve and enclosing said filter and being adapted for connection to a source of fuel supply.

2,421,330
RESILIENT TIRE

Harlan E. Huntsbery, Washington, D. C.

Application June 28, 1945, Serial No. 602,064

3 Claims. (Cl. 152—287)



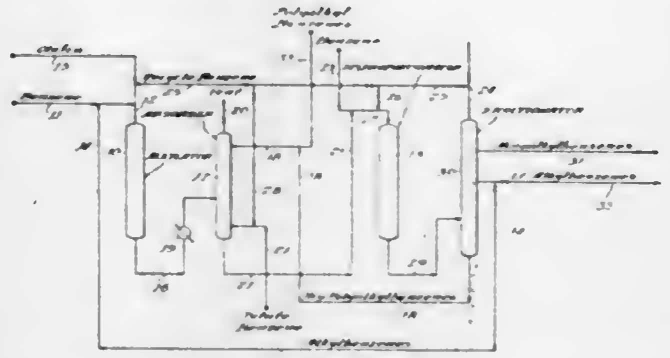
2. A tire construction comprising an inner annular wire coil, an outer wire coil, the convolutions of said inner coil being formed with inverted V-shaped saddle members, U-shaped saddle members on said outer coil, the bight of said U-shaped members engageable with the apex of an adjacent V-shaped saddle member whereby said outer coil will be resiliently supported by said inner coil, tread members carried by said outer coil, a pair of split circular contracting members fixed to the convolutions of said outer coil at the inner portions thereof, and means drawing the ends of said contracting members together whereby to hold said outer coil about said inner coil.

2,421,331
PRODUCTION OF ALKYLAROMATICS

Everett A. Johnson, Park Ridge, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application February 29, 1944, Serial No. 524,449

11 Claims. (Cl. 260—671)



1. A process for the production of monoalkylbenzenes which comprises supplying an olefin-containing stream and alkylated mononuclear aromatics to an alkylation zone, further alkylating said aromatics with said olefins in the presence of an alkylation catalyst within said zone, withdrawing the alkylation products from said zone, introducing the alkylation products and unreacted hydrocarbons into a gas separation zone, introducing into said separation zone a relatively cool polyalkylated aromatic liquid fraction hereinafter derived, withdrawing gases overhead from said separation zone recovering a combined liquid stream from said separation zone comprised essentially of polyalkylated aromatics, commingling benzene with said polyalkylated mononuclear aromatics contacting said polyalkylated aromatics and a molar excess of benzene with another quantity of said alkylation catalyst, maintaining the temperature within said contacting zone substantially above that maintained in the alkylation zone whereby substantial proportions of said polyalkylaromatic and of said benzene are converted to monoalkylaromatic hydrocarbons, withdrawing the products from said second contacting step, recovering at least one monoalkylbenzene fraction, an intermediate alkylaromatic fraction and a heavy polyalkylaromatic fraction, and supplying said intermediate alkylaromatic fraction to the first-mentioned alkylation step, at least a portion of said heavy polyalkylaromatic fraction being the liquid fraction introduced into said separation step.

2,421,332
QUICK DISCONNECT COUPLING

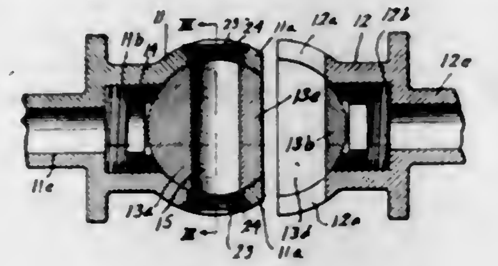
Paul P. Johnson, Willoughby, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application May 16, 1945, Serial No. 594,070

6 Claims. (Cl. 284—4)

1. A coupling comprising a pair of complementary parts having ports therein, a multi-piece valve rotatably mounted in both of said parts to

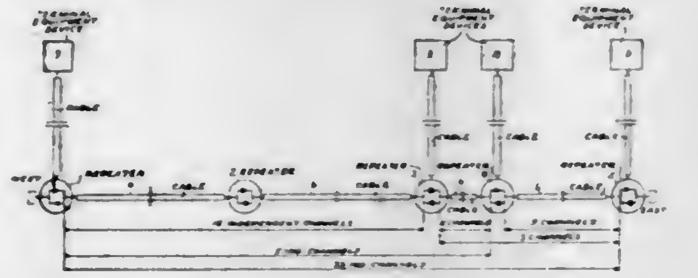
detachably connect the same and join the ports in fluid flow communication, means for retaining a piece of said valve in each part for sealing the ports when the parts are disconnected, and seals for the valve holding fluid in the valve when it is in disconnect position.



2,421,333
MULTIPLEX CARRIER CURRENT COMMUNICATION SYSTEM WITH TRANSMISSION LINE IMPEDANCE CONTROL MEANS

Leon Katchatouroff and Marc A. Lalande, Lyon, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application April 13, 1943, Serial No. 482,906
In France April 17, 1941
16 Claims. (Cl. 179—15)



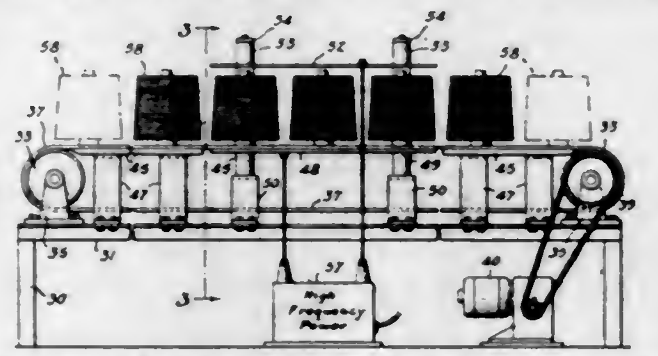
14. A multiplex carrier telephone system including signal-controlled circuits, means for producing control impulses, a plurality of signal-carrying voice frequency lines, a common high frequency transmission line for interconnection, means to produce carrier waves of differing frequencies, means to convert the signals from a voice frequency line into successively modulated carriers, thereby producing side bands, the last carrier being of the higher frequency and being modulated by a single side band of the first carrier frequency to control repeater operation, means for suppressing said carriers, means for applying said modulations to a carrier wave of the lower frequency so as to produce signals associated with each voice frequency line for controlling the setting up of telephone connections and the like, said signals being used to short circuit the unmodulated carriers from the line when the line is not in use, and to connect said suppressed carrier in cadence with said control impulses to control the establishment of a telephone connection between the voice frequency lines.

2,421,334
METHOD OF TREATING TWISTED FILAMENTARY MATERIALS

Hayden B. Kline and Alden H. Burkholder, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application April 26, 1944, Serial No. 532,740
19 Claims. (Cl. 28—72)

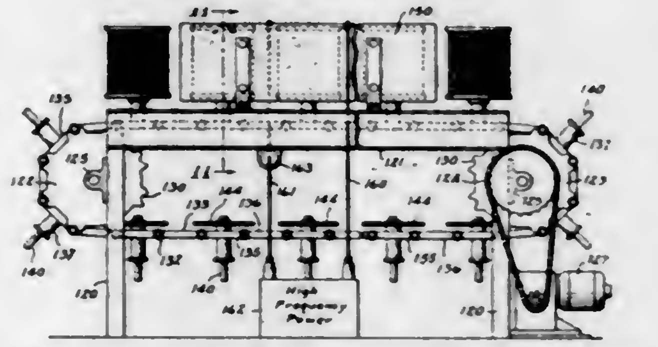
1. The method of reducing the liveliness of a substantially air dry lively twisted nonmetallic filamentary material which comprises subjecting a wound package of said material to the action of a high frequency electrical field.



2,421,335
METHOD OF TREATING TWISTED FILAMENTARY MATERIALS

Hayden B. Kline and Alden H. Burkholder, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Original application April 26, 1944, Serial No. 532,740. Divided and this application May 22, 1945, Serial No. 595,094
14 Claims. (Cl. 28—72)

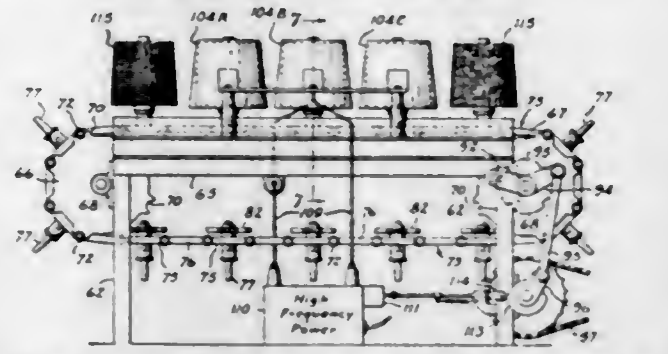


1. The method of reducing the liveliness of a substantially air dry lively, twisted, natural, organic, filamentary material which comprises subjecting a wound package of said material to the action of a high frequency electrical field.

2,421,336
METHOD OF TREATING TWISTED FILAMENTARY MATERIALS

Hayden B. Kline and Alden H. Burkholder, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Original application April 26, 1944, Serial No. 532,740. Divided and this application May 22, 1945, Serial No. 595,095
17 Claims. (Cl. 28—72)

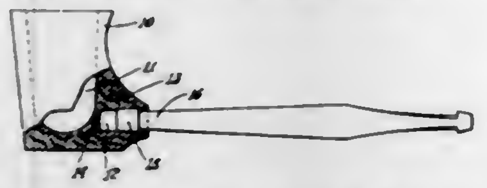


1. The method of reducing the liveliness of a substantially air dry lively, twisted, artificial, organic, nitrogen-containing, filamentary material which comprises subjecting a wound package of said material to the action of a high frequency electrical field.

2,421,337
SMOKER'S PIPE

David P. Lavietes, Brooklyn, N. Y.

Application June 13, 1944, Serial No. 540,013
2 Claims. (Cl. 131—225)

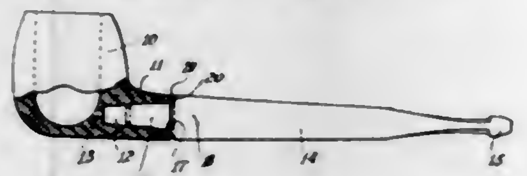


1. A smoker's pipe embodying therein a briar wood bowl having a bore and a tapered, truncated conical socket within the material of the wall of said bowl, said socket having its end of largest diameter opening outwardly of said bowl and the opposite end in communication with said bore, and a bit having a tapered, truncated conical head, the outer face of which has substantially the same degree of angularity as said socket and the greatest diameter of said head being less than the greatest diameter of said socket whereby said bit will adapt itself to some part of said socket to form a tight friction joint therewith and cracking of the briar wood of said bowl from expansion thereof or of the material of the bit, or from excess pressure when applying the bit to a bowl, is prevented.

2,421,338
SMOKER'S PIPE

David P. Lavietes, Brooklyn, N. Y.

Application June 13, 1944, Serial No. 540,014
4 Claims. (Cl. 131—225)

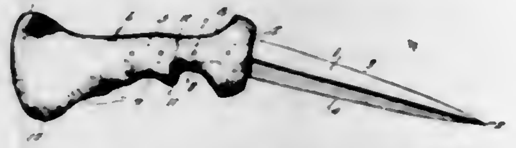


1. A smoker's pipe embodying therein a bowl having an integral stem formed of briar wood, said stem having a socket of a truncated conical form with its largest diameter opening outwardly of its end, and a bit of resilient material having a truncated conical tenon symmetrical with but of a shorter length than the depth of said socket, an adjacent part of the bit being of larger diameter than the largest diameter of said tenon, the end of the tenon of largest diameter being presented toward but spaced away from the larger diameter of the bit, whereby the bit may have variable lengthwise and turning movement in relation to the stem to cause the tenon and the socket to adapt themselves to each other and form a tight, non-seeping joint between the socket and the tenon.

2,421,339
KNIFE OR DAGGER

Henry Leger, New York, N. Y.

Application February 20, 1943, Serial No. 477,180
4 Claims. (Cl. 30—165)

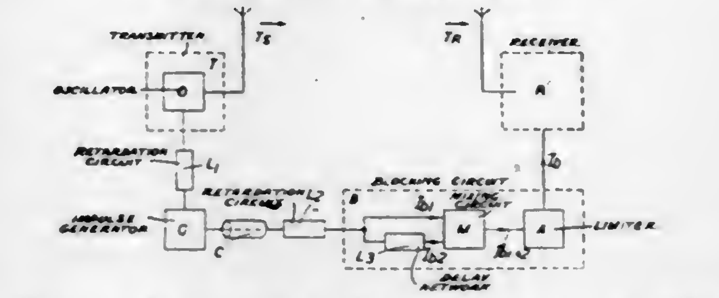


2. A bladed instrument comprising a substantially straight blade, said blade having a cutting edge, a straight shank integrally formed with and downwardly bent from the blade and presenting an obtuse angle to said cutting edge, a substantially straight grip attached to said shank, finger engaging projections on the lower surface of the grip and a thumb engaging projection on the upper surface of the grip.

2,421,340
DETECTION OF OBSTACLES BY MEANS OF ELECTROMAGNETIC IMPULSES

Maurice Moise Lévy, London W. C. 2, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application September 11, 1942, Serial No. 458,063
In Great Britain March 11, 1941
1 Claim. (Cl. 250—1.66)

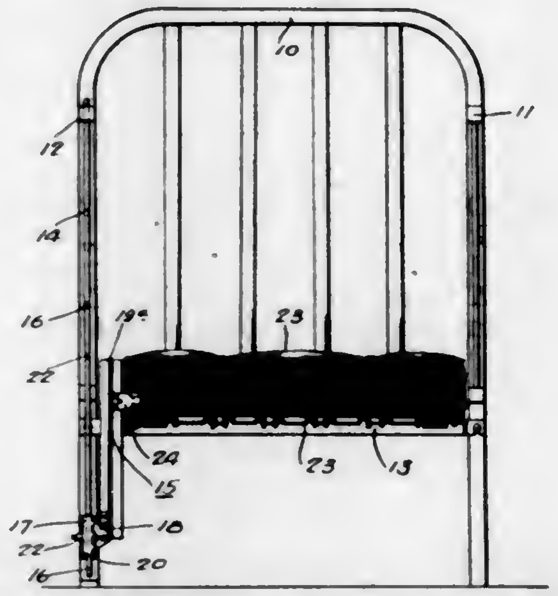


System for obstacle detection by electromagnetic waves comprising a transmitter for transmitting impulses consisting of short trains of electromagnetic waves, a receiver for receiving said waves after reflection by an object, a blocking circuit for rendering said receiver inoperative comprising a thermionic tube having an impedance in its output circuit, a delay network the output terminals of which are left unconnected and the input terminals of which are connected across said impedance, means for deriving from said transmitter impulses of the same wave form and periodicity as said transmitted impulses and for applying them to the input of said tube, and an output circuit connected across said impedance and extending to said receiver.

2,421,341
PLAY CRIB

Edward A. Lynch, Merion, Pa.

Application January 16, 1945, Serial No. 573,015
7 Claims. (Cl. 5—93)

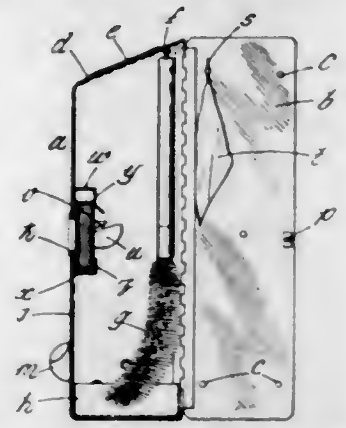


2. In a crib, a frame comprising end and side members and a spring frame mounted in said frame with one side thereof spaced from the adjacent side member, a panel, means slidably and pivotally connecting said panel to the frame for movement from a lowered inoperative position

where it is disposed in the space between the spring frame and side member to an operative position where it may be disposed over the spring frame as a flooring for the crib or in parallel relation to the adjacent side, and means to secure said panel in the last-named position.

2,421,342
SANITARY CABINET WITH MEANS FOR DISPENSING PAPERS

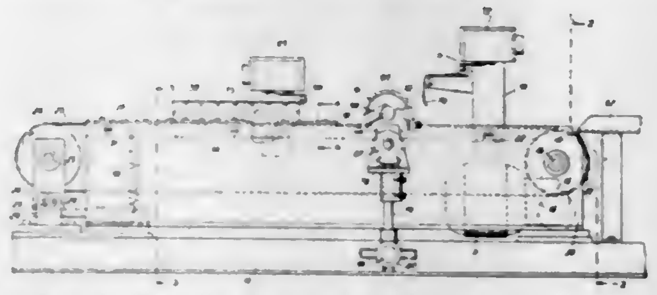
Albert Kenneth MacKenzie, Northwood, England, assignor to Amac Refinements Limited, Chesham Bois, England, a British company
Application November 23, 1944, Serial No. 564,790
In Great Britain September 26, 1944
1 Claim. (Cl. 312—113)



A compact sanitary cabinet of easily portable construction comprising a box-like body elongated in the vertical direction having a top, front, sides, bottom and an open back, a backplate for said body hinged thereto along one of its vertical edges and adapted to be secured against a wall, an aperture in said front, said body providing space for mounting accessories above and below said aperture, and dual-purpose means extending backward from said aperture into the space within said body having structure for supporting toilet paper in roll form and structure serviceable alternatively for supporting toilet paper in pack form, said means including backwardly extending laterally spaced lugs having inclined alined slots adapted to receive pintles on the ends of a roller holding such paper in roll form and including top and bottom ledges spaced vertically apart so as to receive therebetween either a roll or an interleaved pack of such paper, said top and bottom ledges having flanges extending downwardly and upwardly, respectively, in back of such pack when the latter is supported on the bottom ledge.

2,421,343
ARTICLE COATING APPARATUS

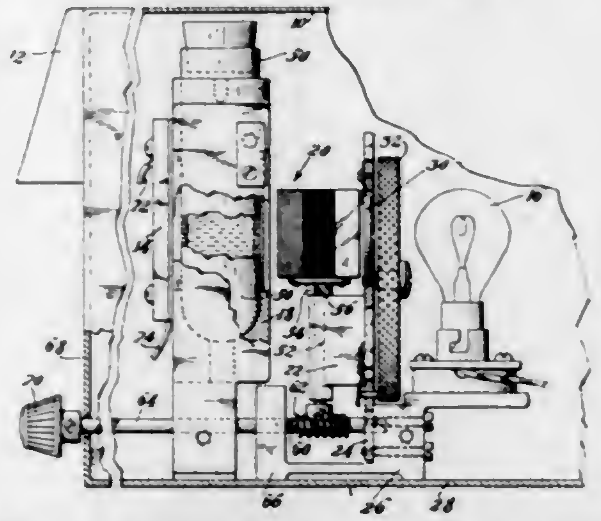
Nelson H. Mageoch, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 7, 1944, Serial No. 517,353
2 Claims. (Cl. 91—44)



2. An apparatus for coating articles comprising a spray unit actuable to spray a coating material in a given path, electrically operable means to actuate the unit, a conveyor movable in a path at an angle relative to the path of the coating material to convey articles successively through the latter path, means actuable by articles prior to reaching the path of the material to cause operation of the electrical means, and means disposed beyond the spray unit and actuable by each article to maintain the operation of the electrical means until each article has passed completely beyond the path of the material.

2,421,344
COLORIMETER

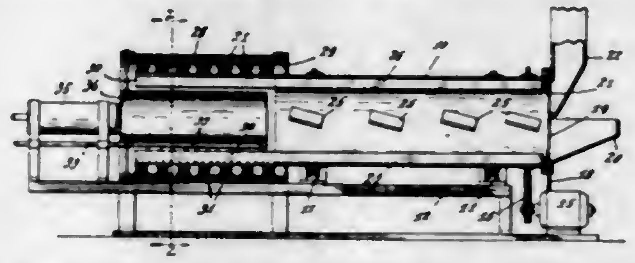
Morris Mass, New York, N. Y.
Application December 7, 1942, Serial No. 468,083
5 Claims. (Cl. 250—41.5)



2. In a colorimeter, a housing; a source of light, a photoelectric cell and means for suspending a specimen between the source of light and the photoelectric cell for transmission of light rays from the source through a suspended specimen on to the photoelectric cell, arranged in the housing; a cross shaft mounted in the housing for rotation therein and accessible from the exterior of the housing; a worm on the cross shaft; a light valve in the housing for adjusting the intensity of light projected from the said source of light through a suspended specimen onto the photoelectric cell and comprising a multi-faced, transparent cylinder, a pair of opposed faces of the light valve being opaque, a pair of opposed faces of the light valve being transparent, a pair of opposed faces of the light valve being translucent and one face of a pair of opposed faces of the light valve being transparent and the other face of said last mentioned pair of faces being translucent; said valve mounted on a shaft in the housing; a gear on the last mentioned shaft engaging the said worm; the said faces being parallel to the axis of rotation of the light valve on the shaft.

2,421.345
MIXER

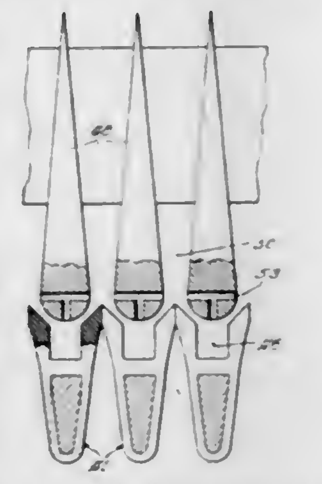
Kenneth E. McConnaughay, West Lafayette, Ind.
Application November 4, 1944, Serial No. 561,849
6 Claims. (Cl. 259—158)



1. In a mixer for preparing a bituminous paving composition, a rotatable drum having an inlet end for the reception of aggregate and a discharge end, said drum being provided near its inlet end with internal flights which lift aggregate and permit it to drop across the interior of the drum as the drum rotates, means for supplying a bituminous binder to aggregate passing through the drum, said binder-supply means discharging into said drum at points located wholly beyond said flights in the direction of aggregate-movement through the drum whereby none of the material lifted by said flights will contain binder, means operative in the rotation of the drum for mixing the aggregate and binder together below the drum-axis, and means for forming and directing a stream of heated gases above the mixing aggregate and binder and axially through the drum toward the inlet end thereof.

2,421,346
VALVE

Robert P. McCulloch, Fox Point, and John L. Ryde, Milwaukee, Wis., assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 24, 1943, Serial No. 515,575
1 Claim. (Cl. 251—119)

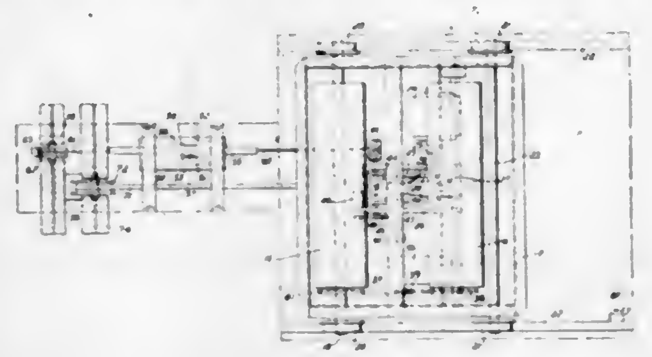


A valve for a fluid displacement device comprising walls defining an open frame; a first grid and a second grid arranged in superposed spaced relation in said frame; said first grid comprising a plurality of vanes each having a cross-section of tear drop formation tapered in the direction of the normal flow of pressure fluid; said second grid comprising a plurality of bars aligned with said vanes; and a pair of spaced wings on each bar, said wings being inherently flexible and having spear shape end regions tapered in the direction of normal flow of fluid; each pair of said wings being so constructed and arranged that outward flow of pressure fluid is effective to bend each wing in a direction to engage a side face of its spear shape region with the adjacent side of the large end of an adjacent vane, and upon cessation of the flow of pressure fluid said each wing bends toward and engages its spear shape end region with the spear shape end region of a wing of the adjacent pair of wings thereby to prevent back flow of the pressure fluid past said wings.

2,421,347
MATERIAL HANDLING APPARATUS

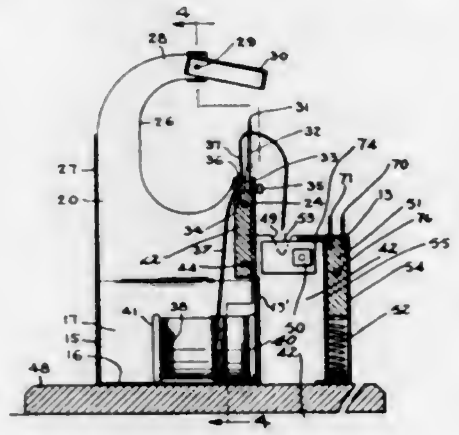
Harry H. Merwin, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 31, 1944, Serial No. 528,845
7 Claims. (Cl. 242—45)

1. A material handling apparatus comprising a carriage, rollers supporting the carriage for movement relative to a normal winding position, means supported by the carriage to rotatably support a reel, means supported by the carriage and including a variable transmission to drive the reel supporting means to rotate the reel in a direction to wind a material thereon received from a supply at a constant rate of speed, and means actuable by the movement of the carriage from the normal position in one direction to cause variation in the transmission of the driving means to decrease the speed of rotation of the reel supporting means and the reel.



2,421,348
METHOD AND APPARATUS FOR TAGGING GARMENTS

Ewald F. Meyer, St. Cloud, Minn.
Application March 27, 1944, Serial No. 528,324
11 Claims. (Cl. 112—104)



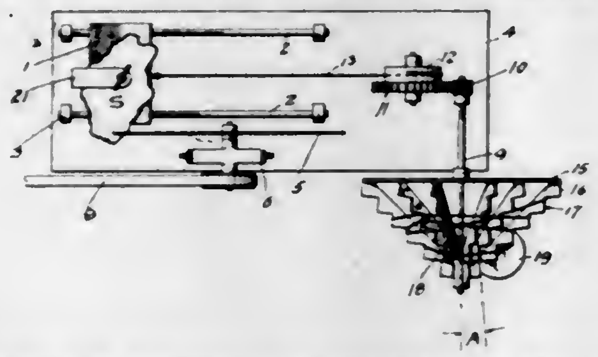
9. A device for tagging garments, comprising a stand, means including a needle held in fixed vertical position on said stand and a thread passing through the eye of the needle, whereby a strand of said thread may be inserted through a tag and a part of the garment, means for cutting off a length of said strand to leave the ends thereof extending in opposite directions from the garment and tag, a plunger operative upon the stand, pegs on the plunger normally held in exposed position and adapted to have the exposed ends of the strand jointly wrapped about the same, and means to operate the plunger and the pegs thereon to effect tying of the free ends of the strands.

2,421,349
PRESSURE MODULATING DEVICE FOR STONE SAWS

Morris A. Moeller, Long Beach, Calif.
Application March 26, 1946, Serial No. 657,203
10 Claims. (Cl. 125—13)

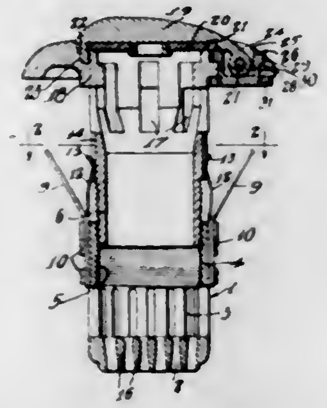
2. In combination with a saw and a stone support movable relative thereto, a shaft, a pulley, a band extending from said stone support to said pulley, speed reducing connections between said shaft and said pulley, means rotatable with said

shaft to advance said stone support past said saw, a counter-weight, and a cord extending from said counter-weight and mountable on said rotatable means.



2,421,350
TANK CAP

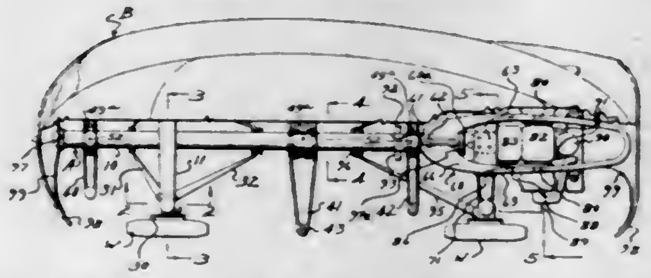
Benjamin B. Odell, Burbank, Calif.
Application May 21, 1946, Serial No. 671,307
7 Claims. (Cl. 220—86)



6. In a tank closure for a liquid tank, the combination of a grill element having a bottom grill, a sleeve threaded to the bottom grill element, a spring lock finger secured to the grill element in position to engage an under surface of the liquid tank, an irreversible ratchet means between the grill element and the sleeve to prevent unthreading of the grill element from the sleeve, a cap pivotally secured to the sleeve exterior to the tank, and the pivot means between the cap and the sleeve including means permitting rotation of the cap in the plane of the cap pivot and around an axis perpendicular to the pivot.

2,421,351
VEHICLE CHASSIS CONSTRUCTION

Herbert E. Page, Alhambra, Calif.
Application September 25, 1944, Serial No. 555,635
1 Claim. (Cl. 280—124)

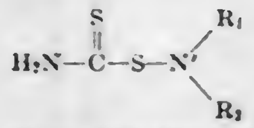


A vehicle having a body, a chassis comprising a tube disposed longitudinally under the body intermediate its sides, wheels rotatably and resiliently suspended from the tube, and means for mounting the body on the tube consisting of a resilient sleeve around the tube, a cross arm having a semi-circular sleeve-receiving recess in one of its side surfaces, a semi-circular sleeve-embracing clamp, means securing the clamp and cross arm together in clamping engagement about the sleeve, an opening through the cross arm, a resilient sleeve in the opening, an opening through the first-mentioned sleeve, and a screw extending through said openings and threaded into the tube.

2,421,352
SUBSTITUTED THIOCARBAMO SULFENAMIDES

Philip T. Paul and Byron A. Hunter, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application March 9, 1944, Serial No. 525,774. Divided and this application April 26, 1944, Serial No. 532,881
5 Claims. (Cl. 260—551)

1. An N'-disubstituted thiocarbamyl sulfenamide of the formula

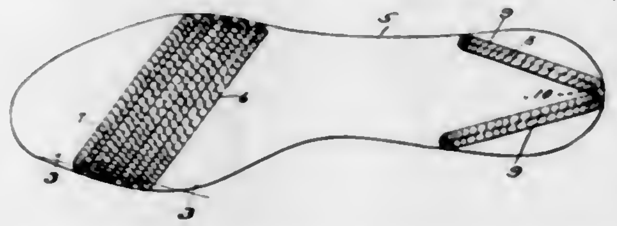


$$H_2N-\overset{\overset{\textstyle S}{\|}}{C}-S-N'\begin{matrix}\diagup R_1\\ \diagdown R_2\end{matrix}$$

where R_1 and R_2 each represent hydrocarbon radicals selected from the class consisting of aliphatic, aralkyl, and cycloalkyl radicals.

2,421,353
TUBULAR PLASTIC SHOE UPPER

Leo Pessak and Rose Pessak, Miami Beach, Fla.
Application June 25, 1945, Serial No. 601,478
1 Claim. (Cl. 36—11.5)

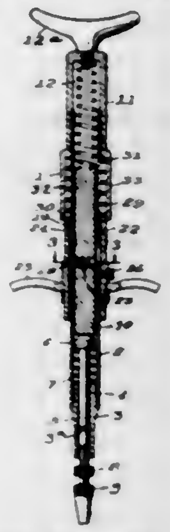


In a shoe construction, a sole, a plurality of flexible tube members formed into loops extended above the sole, said loops being arranged in contact with each other side by side and being disposed at oblique angles with respect to the side edges of the sole in the formation of the shoe upper, the ends of the loops being open and resting on the sole adjacent to the side edges thereof, a thread having its ends secured to the sole, the intermediate portion of the thread being extended through the loops, the portions of the thread between adjacent loops and at the ends of the loops being laced through openings formed in the sole, securing the loops to the sole.

2,421,354
SURGICAL INSTRUMENT WITH MALLET ACTION

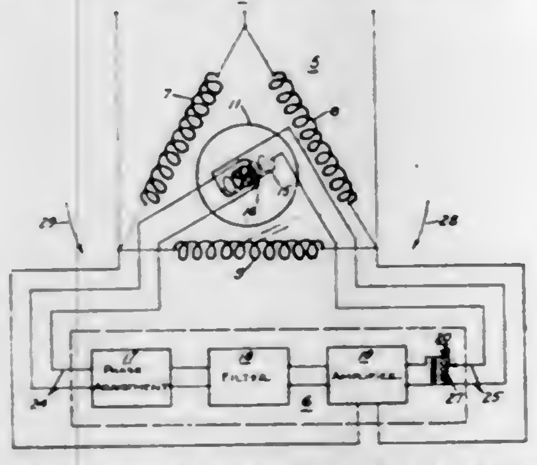
David Reiter, Woodside, Long Island, N. Y.
Application June 5, 1946, Serial No. 674,401
5 Claims. (Cl. 128—305)

1. In a surgical instrument of the type having a spring urged hammer arranged to reciprocate in a cylinder and be moved against an action of the spring by movement of a sleeve, the combination of, a plurality of guideways in said cylinder, a single cross bore in said hammer, a removable nib extending out of one end of said cross bore and into one of said guideways, a latch extending out of another end of said cross bore and into another of said guideways, spring means within said cross bore between said nib and latch urging said nib and latch apart, and means carried by said sleeve adapted to underlie and engage said latch for moving said hammer against the action of said spring.



2,421,355
HIGH-SPEED MOTOR

Willard C. Robinette, South Pasadena, Calif.
Application June 6, 1944, Serial No. 538,958
18 Claims. (Cl. 172—274)



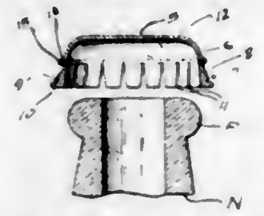
1. In an electrical motor having a stator and a rotor, means supported by the stator for producing a magnetic field which rotates in one direction therein, a current winding and a voltage winding on the rotor and linked by such rotating magnetic field, said current winding controlling the magnetic field in the rotor, means interconnecting said windings for so magnetizing the rotor that it rotates oppositely to the magnetic field of the stator.

18. An induction type motor comprising means for producing a rotating magnetic field, means including a main winding and an auxiliary winding mounted with said windings linked by such rotating magnetic field, and means for feeding energy into said main winding in accordance with the voltage induced in said auxiliary winding from such rotating magnetic field.

2,421,356
BOTTLE CAP

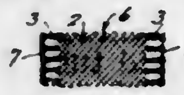
Thomas F. Saffady, Detroit, Mich., assignor to Sav-Way Industries, Inc., Warren Township, Macomb County, Mich., a corporation of Michigan
Application January 28, 1943, Serial No. 473,833
2 Claims. (Cl. 215—45)

2. A closure for a bottle neck having a marginal flange of outwardly curved cross section, comprising a cap having an end wall, a circular, flange-encompassing skirt whose inner surface is straight in cross-section and whose outer surface adjacent its bottom edge slopes outwardly and downwardly to provide a cam surface, the portion of the skirt medially between its ends being adapted to encompass the maximum diameter portion of the flange and being of relatively thinner section than adjacent portions of the skirt, and ring means engageable against the cam surface to force the bottom end portion of the skirt radially inwardly.



2,421,357
STRIP LACE AND METHOD OF MAKING SAME

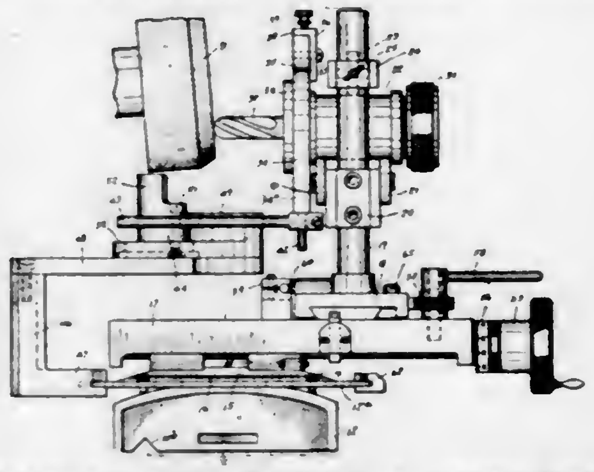
Samuel Saftlas, Newark, N. J.
Application May 18, 1946, Serial No. 670,692
5 Claims. (Cl. 66—170)



1. Strip lace which comprises a flat width of circularly knit lace fabric, the body of the strip being knit in a predetermined lace design pattern, the edge portions of the strip being formed in substantial part at least by non-run knit stitches, lace-forming threads presenting free ends at the edges of said non-run edge portions, said free ends being anchored in said portions by machine stitching.

2,421,358
RADIUS FORMER FOR END MILLS

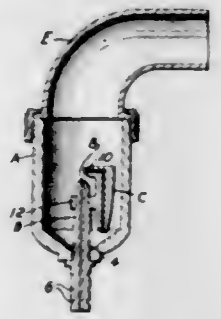
Ingolf Sneva, Bedford, Ind., assignor to W. F. Meyers Company, Bedford, Ind., a corporation
Application June 16, 1944, Serial No. 540,649
8 Claims. (Cl. 51—225)



1. Apparatus for forming a prescribed end radius on a spirally fluted cutting tool, including a base member, an oscillating turntable pivotally mounted thereon, a compound slide carried by said turntable, a rotary support for securing said tool mounted on said slide, whereby said tool is simultaneously oscillated through movement of said turntable and fed through movement of said slide into flute grinding contact with a rotating grinding wheel, a cam adjustably mounted on said base member, and a cam follower secured to said rotary support engageable with and movable by said cam upon oscillatory movement thereof for causing controlled rotative movement of said tool about its axial center according to the spiral curvature of said flute.

2,421,359
ATOMISER

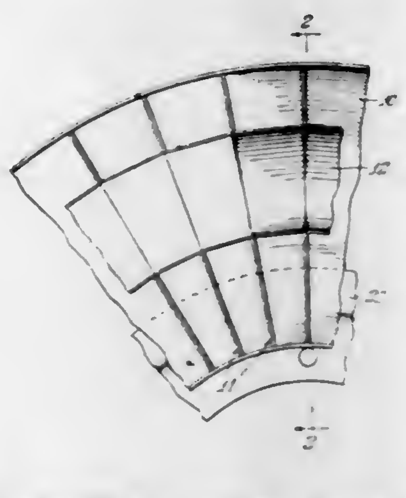
Thomas Scott Sutherland, Aberdeen, Scotland
Application June 20, 1944, Serial No. 541,190
In Great Britain October 15, 1943
2 Claims. (Cl. 299—88.5)



1. An atomiser for mixing liquid and gas that is readily assembled and disassembled for cleaning comprising a liquid container having a removable breathing connection at the top thereof, and an opening in the bottom thereof, an air stem extending into said container from the bottom through said opening and forming a liquid tight seal therewith, said stem having a stop adjacent the top thereof, a fluid tube having thereon an encircling bracket tightly surrounding said stem, and contacting said stop, one end of said fluid tube being near the upper end of said stem, being spaced therefrom by said bracket and stop, both said tube end and stem end being adapted to be above the liquid level of said container, and the other end of said tube being adapted to be below said liquid level, said tube and bracket being removable from said stem through the top of the container, to permit the removal of the stem from the container through the bottom opening therein for cleaning.

2,421,360
FLUID COUPLING

Benjamin A. Swennes, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 5, 1941, Serial No. 387,016
3 Claims. (Cl. 103—115)



1. A fluid coupling member comprising an annular shell, an annular core shell inside and spaced from said first named shell and a plurality of spaced radial vanes inside said first named shell and extending between the two shells, said core shell and said vanes being formed by a plurality of elements, each of said elements comprising a section of the core shell and a pair of spaced vanes integral with the core shell section, said elements being disposed in contact with each other side by side in said first named shell.

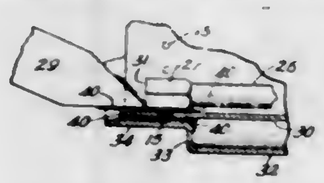
2,421,361
PROCESS FOR MAKING DIOLEFINS

Walter J. Toussaint, South Charleston, and Jesse T. Dunn, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application September 29, 1942, Serial No. 460,120
20 Claims. (Cl. 260—681)

1. Process for making dienes which comprises passing an acyclic mono-olefinic aldehyde having at least four carbon atoms and a monohydric alcohol having at least one hydrogen atom attached to the carbinol carbon atom over a catalyst of the group consisting of the oxides and silicates of zirconium, tantalum, and columbium, and recovering a diene from the reaction products.

2,421,362
HEAT EXCHANGER

Fred M. Young, Racine, Wis.
Application July 26, 1943, Serial No. 496,237
2 Claims. (Cl. 257—128)



1. A device of the character described comprising, a circular in cross section inner cylinder, a bundle of tubes, their ends being expanded and formed into hexagonal shapes and being nested in the inner cylinder with the hexagonal ends bonded together, the outer edges of the outer tube ends being bonded to the inner cylinder, an elongated valve housing adapted to fit longitudinally on said inner cylinder and being bonded thereto, the ends of the housing terminating a short distance from the ends of the inner cylinder, an outer closure for the major part of said inner cylinder and being offset inwardly in transverse alignment with the ends of said elongated housing, its ends lying on the inner cylinder for a short distance and overhanging the ends of the inner cylinder for a short distance and being bonded to the inner cylinder, the transverse ends of said outer closure from and between the offsets, contacting the sides of said elongated chamber and being bonded thereto to thereby form a narrow circular chamber which extends around the inner cylinder from opposite sides of the elongated housing, whereby a soldering iron may be used for bonding the outer edges of the tube ends to the inner cylinder and the inner cylinder to the outer cylinder by successively turning the device.

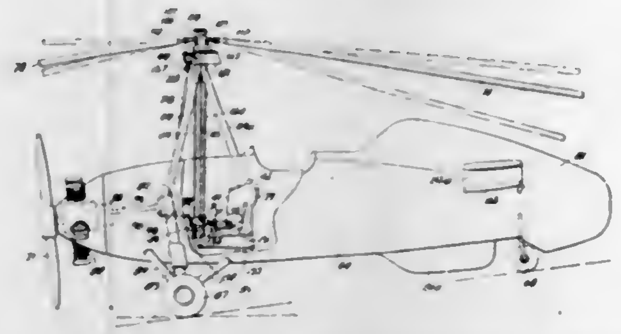
2,421,363
PROCESS FOR TREATING FABRICS

Howard A. Young, Westfield, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 27, 1943, Serial No. 488,751
4 Claims. (Cl. 117—62)

1. The process of treating fabrics which comprises directly depositing onto a fabric rubber from an aqueous suspension of rubber, separating the thus treated material from the used treating bath, and rinsing the treated material before drying in an aqueous bath containing a cation-active agent selected from the class consisting of quaternary ammonium salts in which one of the groups attached to the nitrogen comprises a straight chain aliphatic group having at least 6 carbon atoms and amines, amids, diamines and glyoxalidines having a straight chain aliphatic group containing at least 6 carbon atoms.

2,421,364
SUSTAINING-ROTOR-EQUIPPED AIRCRAFT, INCLUDING AUTOROTATABLE ROTOR CONSTRUCTION AND THE REGULATION OF ROTOR BLADE PITCH

Juan de la Cierva, Madrid, Spain, assignor, by mesne assignments, to Autogiro Company of America, a corporation of Delaware
Application January 15, 1936, Serial No. 59,292
In Great Britain January 16, 1936
60 Claims. (Cl. 244—18)



1. In an aircraft of the character described having an autorotative sustaining rotor, a rotor hub, blades mounted on the hub and capable of variation of pitch angle, driving means, including a clutch, for overspeeding the rotor with the blades at decreased pitch angles, and mechanism for controllably increasing the blade pitch angles to utilize the excess kinetic energy of the overspeeding for obtaining a direct take-off of the craft, said mechanism including means automatically operating under the influence of cutting down the driving torque, as by disconnection of said clutch, to regulate the rate of change of blade pitch angle during the period of changing regime of air flow from the time of disengagement of the clutch until autorotation is established.

35. In an aircraft sustaining rotor, a hub, an autorotative blade, and pivot mechanism mounting the blade on the hub comprising a flapping pivot axis angled to effect blade pitch variation upon flapping and a drag pivot axis angled to effect blade pitch variation upon lag-and-lead oscillation.

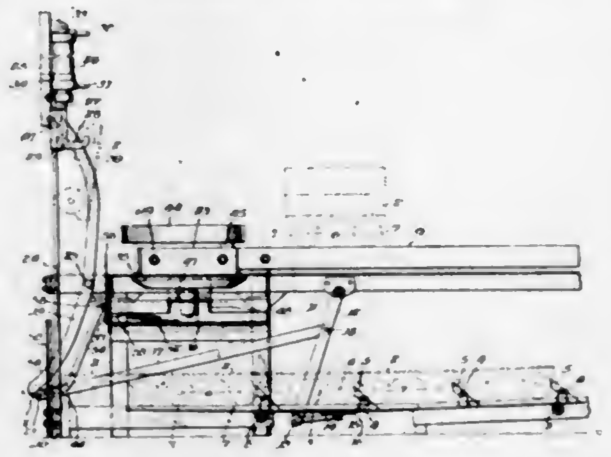
45. In an aircraft sustaining rotor, a generally upright hub, a blade radiating therefrom, and pivot mechanism connecting said blade to the hub including a pivot having its axis lying substantially in the plane of the blade and, when the blade is substantially radial, making an acute angle with the longitudinal axis of the blade at the leading side thereof with reference to the direction of rotation, and a second pivot positioned with its axis approximately upright and located outboard of said first mentioned pivot.

54. In an aircraft sustaining rotor rotatable about an upright axis and constructed for yielding in the flapping sense sufficiently to accommodate differential lift effects due to translational flight, an elongated aeroform sustaining blade, capable of autorotation, having a root connection adapted to mount the blade at a point on its longitudinal axis, said connection including a pitch-varying pivot whose axis approximately intersects the axis of rotation, said blade having a bi-convex profile and being of a construction providing flexibility in the flapping sense and having its sectional mass centre located on said longitudinal axis.

58. In an aircraft sustaining rotor adapted to accommodate or compensate for differential flight forces, an elongated aeroform sustaining blade, capable of autorotation, having a blade-swinging pivot whose axis intersects the general axis of rotation to provide for up and down blade-swinging and a pitch-varying pivot disposed in a plane approximately containing the longitudinal axis of the blade and the axis of rotation, and being of a structure and profile providing a mass centre location and a mean aerodynamic center of pressure location which are separated, chordwise, from each other.

2,421,365
DOLLY LIFTING DEVICE

John A. Patrick, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 26, 1945, Serial No. 624,808
12 Claims. (Cl. 214—95)



1. In a conveyor system of the character described, the combination including a plurality of dollies, a dolly lifting device, an upper platform carrying rail sections for receiving the said dollies, a second platform immediately below said upper platform and comprising rail sections for supporting the dollies thereon preliminary to being lifted, means for moving the said dollies toward an end portion of the said second platform, the said latter means including a horizontally movable pusher bar, means on the said pusher bar for engagement with the said dollies, lever means for moving the said pusher bar longitudinally relative to the rail sections of the said lower platform, the said dolly lifting device being simultaneously actuated with the said lever means for moving said pusher bar longitudinally and to permit the latter member including hooks to engage an under portion of the said dollies upon predetermined movement of the said pusher bar.

2,421,366
TEXTILE MARKING APPARATUS

Hans J. Theiler, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application December 26, 1941, Serial No. 424,453
6 Claims. (Cl. 91—12)

6. A textile machine comprising a plurality of automatic bobbin-winding heads adapted for delivering wound bobbins, each of said heads comprising a receiving chute for the bobbin, shaped and adapted to turn the same into position for endwise delivery therefrom, means mounted on each chute, including a bobbin supporting roller for making a smear stripe on the bobbins delivered thereby, and an actuating means for said roller operated by the winding-head to which it is appurtenant.

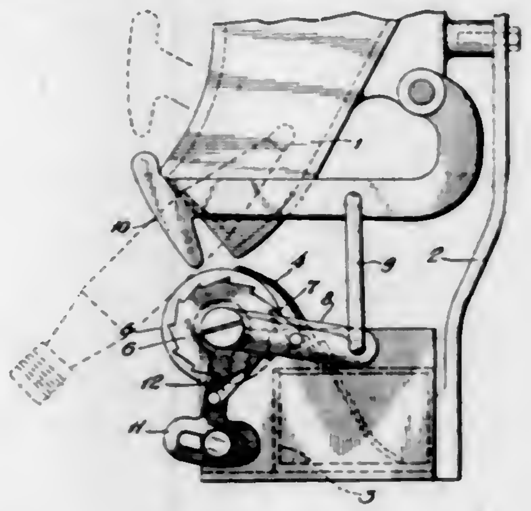
2,421,367
FIBROUS SHEET MATERIAL FOR THE ELECTROLYTIC FORMATION OF AZO DYES THEREON

Myer Solomon, deceased, late of Westmont, N. J., by Nellie W. Solomon, administratrix, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application October 24, 1942, Serial No. 463,218

5 Claims. (Cl. 204—2)

1. A fibrous sheet material for the electrolytic formation of azo dyes thereon carrying a composition comprising a diazotizable sulfonated aromatic amine, a quantity of an ionizable nitrite sufficient to effect diazotization of said amine, a water-soluble inorganic salt as the electrolyte in an amount sufficient to facilitate the passage of the electrolyzing current, an azo dye coupling component in a quantity sufficient to react with said diazonium compound when formed to yield an azo dye, and a quantity of an alkali sufficient to give a pH on the alkaline side to thereby prevent premature diazotization of said diazotizable amine.



DESIGNS

MAY 27, 1947

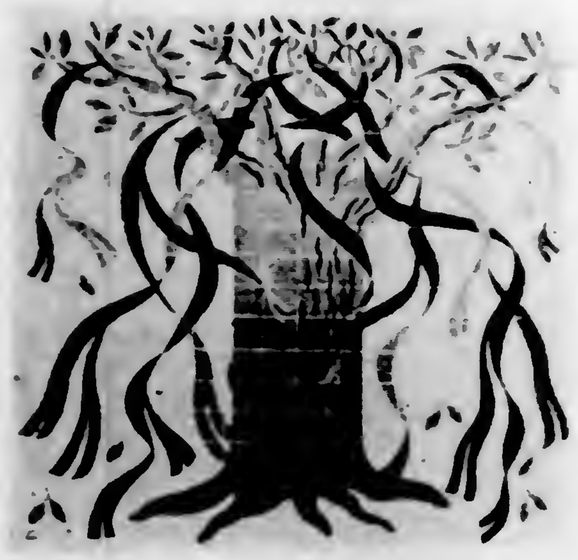
146,821
DESIGN FOR A SCARF

Ivan Bartlett, Long Beach, Calif., assignor to Edgar C. Hyman Co., New York, N. Y., a firm composed of Edgar C. Hyman and Theresa M. Hyman

Application December 3, 1946, Serial No. 135,230

Term of patent 3½ years

(Cl. D3—12)



The ornamental design for a scarf, substantially as shown.

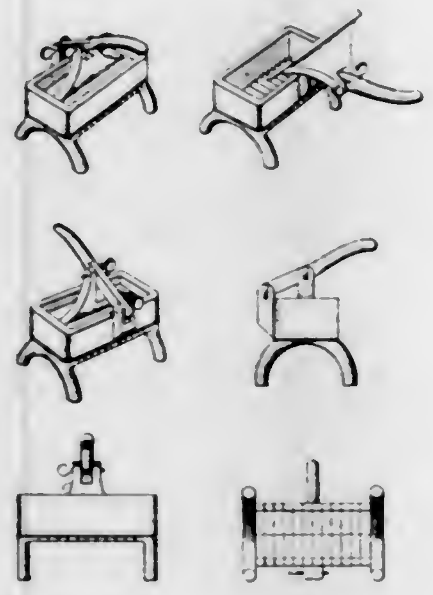
146,822
DESIGN FOR A BUTTER CUTTER

Harold E. Cocke, Oakland, Calif.

Application February 11, 1946, Serial No. 126,439

Term of patent 3½ years

(Cl. D23—1)



The ornamental design for a butter cutter, as shown.

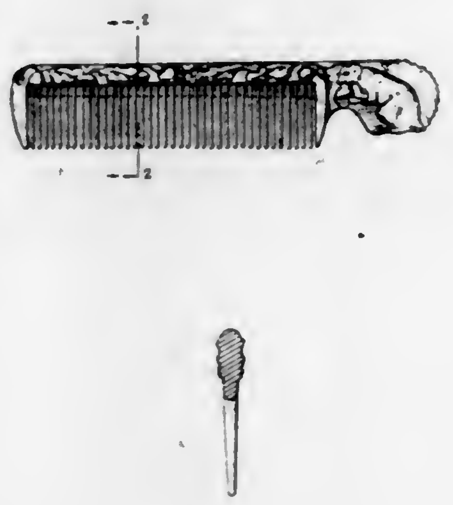
146,823
DESIGN FOR A COMB

Alan Daniels, New York, N. Y., assignor to Baby World Company, Inc., New York, N. Y., a corporation of New York

Application September 7, 1946, Serial No. 133,138

Term of patent 7 years

(Cl. D86—8)



The ornamental design for a comb, substantially as shown and described.

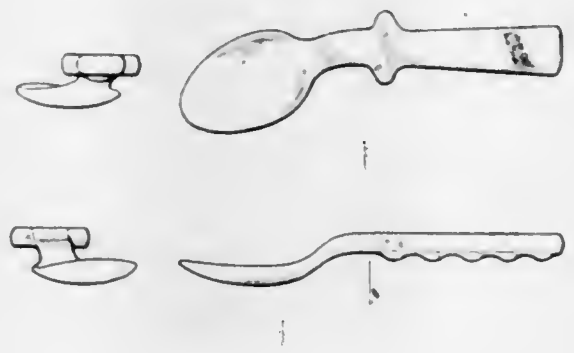
146,824
DESIGN FOR A SPOON

Jay L. Goodwin, Tujunga, Calif.

Application June 17, 1946, Serial No. 130,818

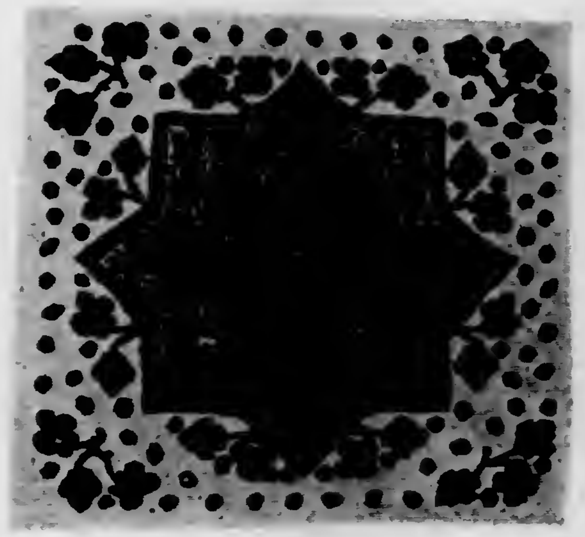
Term of patent 7 years

(Cl. D54—12)



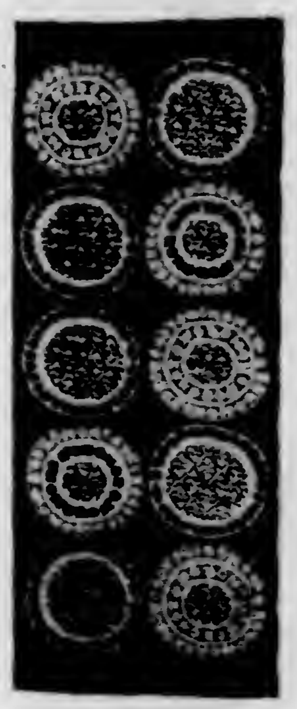
The ornamental design for a spoon, as shown.

146,825
DESIGN FOR A SCARF
Rose Gottschalk, New York, N. Y., assignor to Edgar C. Hyman Co., New York, N. Y., a firm composed of Edgar C. Hyman and Theresa M. Hyman
Application November 27, 1946, Serial No. 135,138
Term of patent 3½ years
(Cl. D3—12)



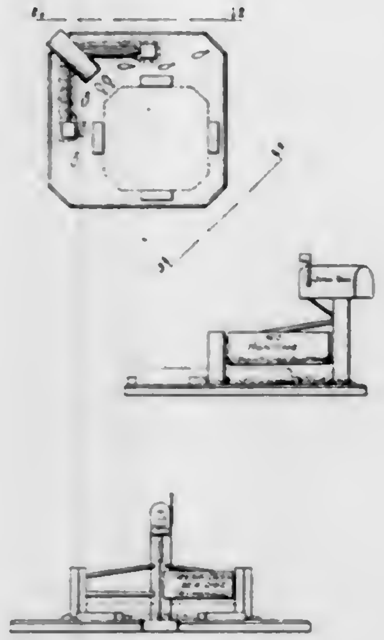
The ornamental design for a scarf, substantially as shown.

146,826
DESIGN FOR A SCARF
Rose Gottschalk, New York, N. Y., assignor to Edgar C. Hyman Co., New York, N. Y., a firm composed of Edgar C. Hyman and Theresa M. Hyman
Application November 27, 1946, Serial No. 135,139
Term of patent 3½ years
(Cl. D3—12)



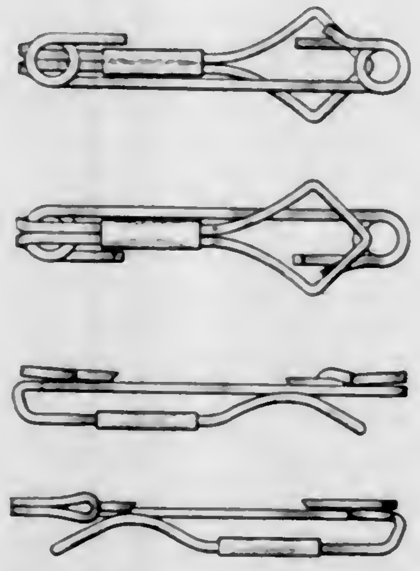
The ornamental design for a scarf, substantially as shown.

146,827
DESIGN FOR AN ASH TRAY HOLDER OR SIMILAR ARTICLE
Stephen B. Herman, Cleveland, and Joseph S. Herman, Brooklyn Village, Ohio
Application February 18, 1946, Serial No. 126,635
Term of patent 3½ years
(Cl. D85—2)



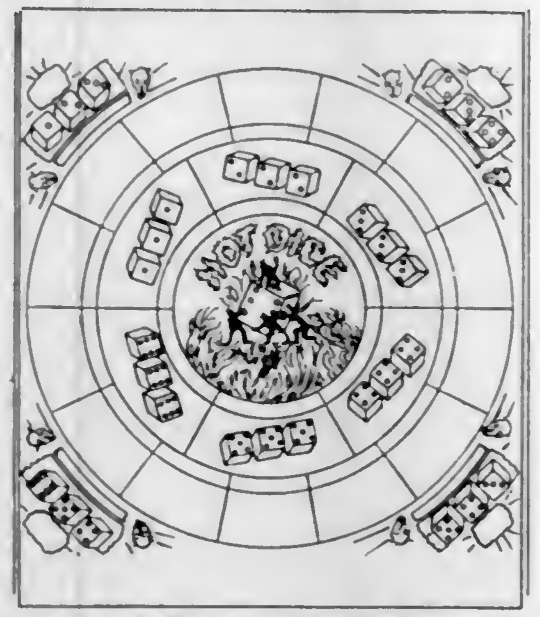
The ornamental design for an ash tray holder or similar article, as shown and described.

146,828
DESIGN FOR A NECKTIE HOLDER
Viola T. Howard, Saylesville, R. I., assignor to Swank, Inc., a corporation of Delaware
Application September 19, 1946, Serial No. 133,410
Term of patent 14 years
(Cl. D17—10)



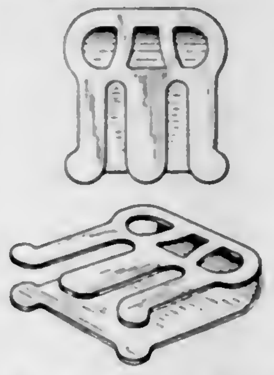
The ornamental design for a necktie holder, substantially as shown.

146,829
DESIGN FOR A GAME BOARD
Mortimer M. Kastner, Montreal, Quebec, Canada
Application November 27, 1945, Serial No. 124,114
Term of patent 7 years
(Cl. D34—5)



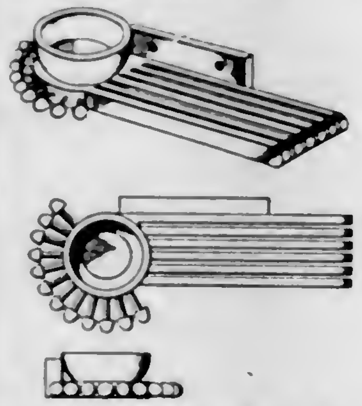
The ornamental design for a game board, as shown and described.

146,830
DESIGN FOR A NAPKIN HOLDER
Ruth M. Kimmelstiel, New York, N. Y.
Application February 8, 1946, Serial No. 126,394
Term of patent 7 years
(Cl. D44—24)



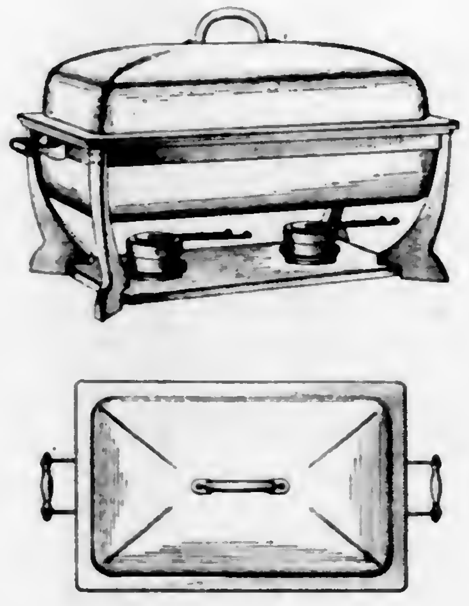
The ornamental design for a napkin holder, as shown.

146,831
DESIGN FOR A COMBINED TIE, TROUSER, AND JEWELRY HOLDER
Murrey M. London, Venice, Calif., assignor to California Slack Rack Co., Venice, Calif.
Application February 5, 1946, Serial No. 126,278
Term of patent 3½ years
(Cl. D33—8)



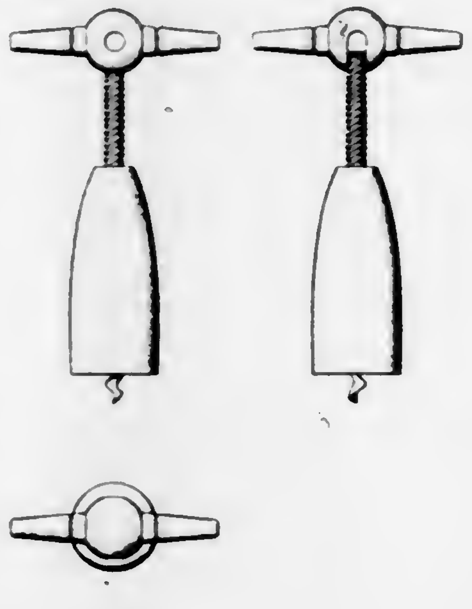
The ornamental design for a combined tie, trouser and jewelry holder, substantially as shown.

146,832
DESIGN FOR A BUFFET CHAFING DISH
Daniel C. O'Connell, New York, N. Y., assignor to Sterno, Inc., a corporation of New York
Application January 16, 1946, Serial No. 125,618
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a buffet chafing dish, as shown.

146,833
DESIGN FOR A CORK PULLER
James E. Peterson, Los Angeles, Calif.
Application February 12, 1946, Serial No. 126,509
Term of patent 3½ years
(Cl. D44—29)

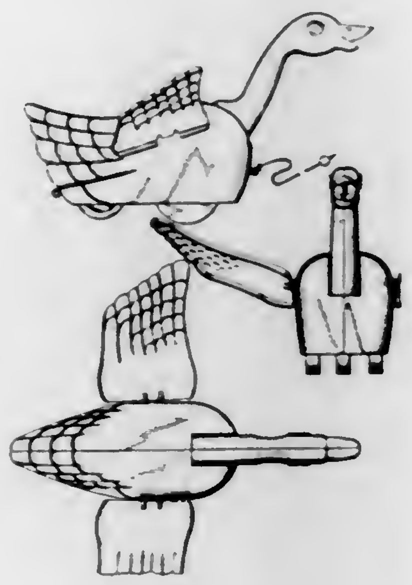


The ornamental design for a cork puller, as shown.

146,834

DESIGN FOR A TOY GOOSE

George J. Provol, Winnetka, Ill.
Application June 24, 1946, Serial No. 130,970
Term of patent 14 years
(Cl. D34—15)

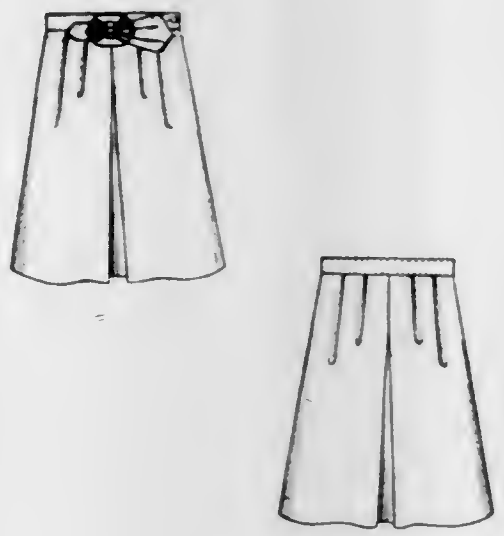


The ornamental design for a toy goose, substantially as shown and described.

146,835

DESIGN FOR A SKIRT OR SIMILAR ARTICLE

Arthur Sternberger, New York, N. Y.
Application May 20, 1946, Serial No. 129,864
Term of patent 3½ years
(Cl. D3—26)

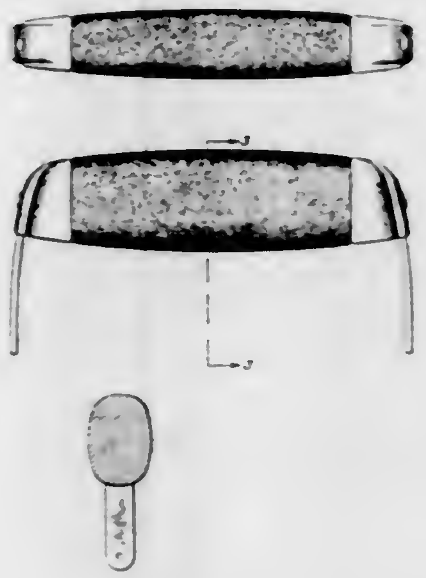


The ornamental design for a skirt or similar article, substantially as shown.

146,836

DESIGN FOR A HANDLE FOR HAND LUGGAGE

Clifford Brooks Stevens, Milwaukee, Wis., assignor to Wheary Incorporated, Racine, Wis., a corporation of Wisconsin
Application January 17, 1946, Serial No. 125,638
Term of patent 7 years
(Cl. D87—2)

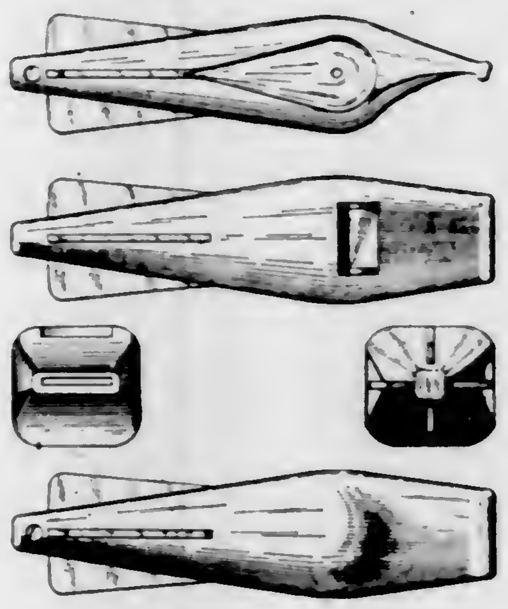


The ornamental design for a handle for hand luggage, as shown.

146,837

DESIGN FOR A MULTITONE WHISTLE

Josephus Thompson, Covington, Ohio, assignor of one-third to Grossman Music Company, Cleveland, Ohio, a partnership composed of Julius I. Grossman and Henry S. Grossman
Application April 3, 1946, Serial No. 128,234
Term of patent 14 years
(Cl. D34—15)

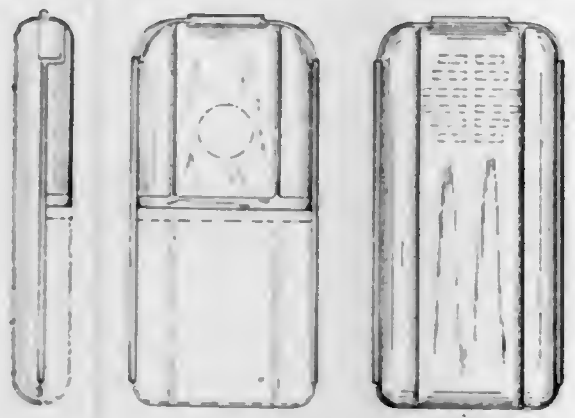


The ornamental design for a multi-tone whistle, substantially as shown.

146,838

DESIGN FOR A CASING FOR HEARING AID APPARATUS

Raleigh E. Tresise, Cleveland Heights, and Paul D. Kendall, Maple Heights, Ohio, assignors to Paraphone Hearing Aid, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 28, 1946, Serial No. 126,982
Term of patent 14 years
(Cl. D58—11)

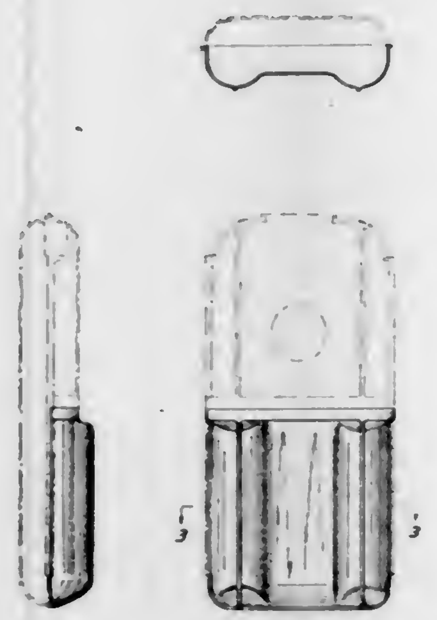


The ornamental design for a casing for hearing aid apparatus, as shown and described.

146,839

DESIGN FOR A CASING FOR HEARING AID APPARATUS

Raleigh E. Tresise, Cleveland Heights, and Paul D. Kendall, Maple Heights, Ohio, assignors to Paraphone Hearing Aid, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 28, 1946, Serial No. 126,983
Term of patent 14 years
(Cl. D58—11)

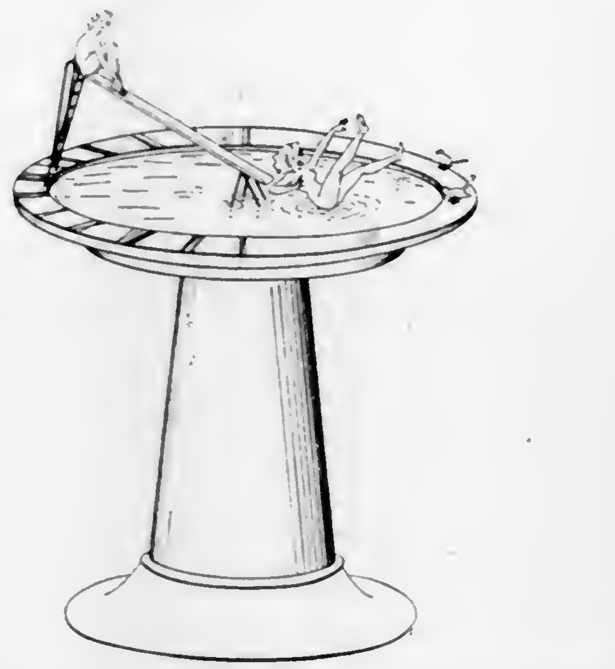


The ornamental design for a casing for hearing aid apparatus, as shown and described.

146,840

DESIGN FOR A COMBINATION SUNDIAL AND BIRDBATH

George E. Vinnedge, Fort Worth, Tex.
Application June 17, 1946, Serial No. 130,820
Term of patent 7 years
(Cl. D42—7)

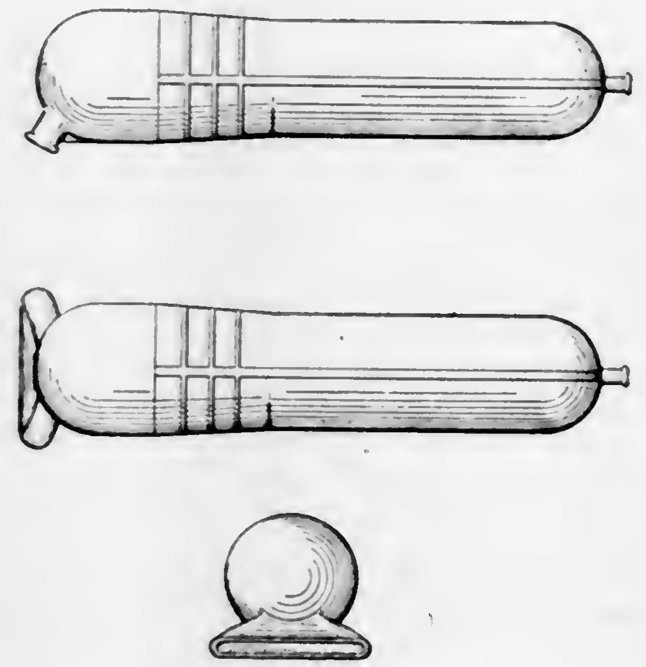


The ornamental design for a combined sundial and birdbath, substantially as shown.

146,841

DESIGN FOR A VACUUM CLEANER

Russell J. Wolfe, Buffalo, N. Y.
Application June 29, 1946, Serial No. 131,184
Term of patent 7 years
(Cl. D9—2)



The ornamental design for a vacuum cleaner, as shown.

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 599

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WASHINGTON : 1947

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[Decisions of the United States Court of Customs and Patent Appeals are indicated by an asterisk (*).]

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
W. AVERELL HARRIMAN, *Secretary*

U. S. Patent Office
CASPER W. OOMS, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

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Reissues	2—No.	22,886	to No.	22,887,	inclusive
Patents	371—No.	2,421,368	to No.	2,421,738,	inclusive
Designs	50—No.	146,842	to No.	146,891,	inclusive
Total	670				

Patents expiring: Patent Numbers 1,760,863 to 1,762,138, inclusive, issued June 3, 1930, expire June 3, 1947

Condition of Applications Under Examination at Close of Business May 16, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 146,194; Trade-Mark Division, 13,491. Oldest new case, July 26, 1945; oldest amended, July 27, 1945.)
(The dates given are 1945 except where * indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Oct. 8	Nov. 30	2,878
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 19	Oct. 26	3,525
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus)	Nov. 21	Nov. 20	1,769
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	*Jan. 8	*Jan. 5	2,993
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	July 26	July 27	4,243
6. SURLE, H., Carbon Chemistry (part)	*Apr. 26	*Apr. 11	1,962
7. HANLIN, GEORGE, Optics, Photography	*May 20	*May 23	2,012
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	Dec. 8	Dec. 7	3,732
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 27	Oct. 26	2,151
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Dec. 17	*Jan. 19	1,459
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	*Aug. 12	*Aug. 6	810
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	*Jan. 4	*Jan. 5	2,686
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Oct. 1	Oct. 2	2,248
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	*Mar. 6	*Mar. 7	1,409
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	Nov. 5	*Apr. 11	1,327
16. LOVEWELL, N. N., Telegraphy; Telephony	*Mar. 1	*Mar. 16	1,311
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	*Jan. 29	*Jan. 3	1,309
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 14	Sept. 22	1,728
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	*Mar. 7	*Feb. 23	1,767
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Oct. 31	Nov. 3	2,238
21. THOMPSON, T. J., Textiles	*July 8	*Sept. 5	929
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Dec. 18	Dec. 13	1,881
23. LEWIS, J. B., Cash Registers; Calculators (part)	*Mar. 14	*Feb. 15	235
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	*Sept. 23	*Oct. 2	1,673
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Dec. 29	Dec. 29	1,779
26. YOUNG, R. R., Electricity—Generation and Motive Power	Oct. 24	Dec. 3	2,180
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	*Jan. 25	*Jan. 5	2,462
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons.	Oct. 11	Oct. 1	1,283
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	*Jan. 5	*Jan. 16	2,672
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	*Jan. 31	*Feb. 4	2,512
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons; Halogenated Hydrocarbons; Hydrogenation of Carbon Oxides.	*Dec. 3	*Nov. 30	654
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	*Jan. 4	Dec. 8	2,491
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.	Oct. 27	Oct. 29	3,722
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	*Jan. 3	*Jan. 3	1,377
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Dec. 20	*Feb. 15	2,317
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 24	Oct. 18	1,879
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	*Mar. 6	*Feb. 8	1,600
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions; Rubber; Ornamentation	*Apr. 6	*Apr. 2	1,365
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Sept. 11	Sept. 13	2,622
40. DRUMMOND, E. J., Receptacles (part); Packages	*Jan. 30	*Jan. 18	2,859
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	Nov. 28	Dec. 17	1,313
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	*June 11	*June 20	1,079
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	*June 8	*June 6	1,076
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 22	Oct. 8	1,413
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 6	Dec. 1	2,410
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	*Feb. 4	*Mar. 13	1,763
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	*Feb. 18	*Mar. 8	2,886
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Oct. 25	Nov. 13	1,914
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	*Feb. 23	*Feb. 15	1,543
50. LEVIN, SAMUEL, Synthetic Resins	*Mar. 27	*Mar. 27	2,620
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	*Jan. 4	*Jan. 2	2,081
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	*Mar. 11	*Feb. 23	3,433
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Aug. 9	Sept. 14	4,391
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	*Jan. 30	*Feb. 1	2,135
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Nov. 19	Nov. 1	1,945
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Acetylene; Gas Mixing	*Mar. 23	*Mar. 28	1,451
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Nov. 1	*Jan. 4	3,194
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	*Mar. 19	*Apr. 6	1,377
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Oct. 31	Oct. 9	2,142
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Nov. 19	*Mar. 6	2,028
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys, Ships and Marine Propulsion.	Dec. 17	Dec. 5	2,803
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Aug. 28	Sept. 13	4,105
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	*Jan. 7	*Jan. 8	2,130
64. NASH, P. M., Compositions—Coating or Plastic (part), Fuel and Miscellaneous	*Mar. 6	Aug. 1	1,669
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Oct. 11	Oct. 13	2,283
TRADE-MARKS: MERCHANT, J. H	*July 27	*Nov. 13	13,491
DESIGNS: BREHM, G. L. (Acting)	*Feb. 25	*Nov. 5	9,061

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Hormone preparation. Serial No. 506,282; June 3. Class 6.

Ace Specialties Co., Detroit, Mich. Adjustable wrenches. Serial No. 507,226; June 3. Class 23.

American Elan Corporation, New York, N. Y. Shoulder pads, pins and needles, etc. Serial No. 498,677; June 3. Class 40.

Arbee Food Products Co., Kansas City, Kans. Pancake flour and breakfast whole wheat cereal. Serial No. 478,103; June 3. Class 46.

Aridye Corporation, assignor to Interchemical Corporation, New York, N. Y. Dyestuffs and textile coloring materials. Serial No. 506,084; June 3. Class 6.

Arkwright, Incorporated, New York, N. Y. Blankets and rugs. Serial No. 507,453; June 3. Class 42.

Atkinson Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 493,878; June 3. Class 46.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Acid-proof cement. Serial No. 465,937; June 3. Class 12.

Atomic Manufacturing Co.: *See*—
Hoffman, Mary K.

Baer, Otto, doing business as United Jewelry Company, Buffalo, N. Y. Jewelry for personal wear (not including watches). Serial No. 493,945; June 3. Class 28.

Barnes, George F., Elmhurst, Ill. Game played with paddle bats. Serial No. 510,052; June 3. Class 22.

Beaver, Gammon H., assignee: *See*—
Globe Enterprises.

Berlage, J., Co., Inc., New York, N. Y. Insecticides and fungicides. Serial No. 503,495; June 3. Class 6.

Binney & Smith Company, New York, N. Y. Partly prepared paint product. Serial No. 488,013; June 3. Class 16.

Bombi: *See*—
Bombi Perfumer, Inc.

Bombi Perfumer, Inc., doing business as Bombi, New York, N. Y., and West Haven, Conn. Talcum powder, dusting powder, perfumes, etc. Serial No. 502,263; June 3. Class 6.

Bosco Company, Inc., New York, N. Y. Series of cartoons. Serial No. 508,462; June 3. Class 38.

Brevitt Shoes Limited, Leicester, England. Handbags. Serial No. 504,245; June 3. Class 3.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Electrically operated refrigerators. Serial No. 515,482; June 3. Class 31.

Buzzerd, Robert B., Charleston, W. Va. Blank ruled stamp collectors' sheets. Serial No. 507,295; June 3. Class 37.

C-Z Chemical Company, Beloit, Wis. Floor wax. Serial No. 470,754; June 3. Class 16.

Carbonell y Compania de Cordoba S. A., Cordoba, Spain. Olive oil. Serial No. 458,388; June 3. Class 46.

Clayton, Benjamin, doing business as Refining, Unincorporated, Pasadena, Calif. Vegetable oil phosphatides. Serial No. 508,716; June 3. Class 46.

Columbus Iron Works Company, doing business as Southern Plow Co., Columbus, Ga. Plow and cultivator parts. Serial No. 511,380; June 3. Class 23.

Covalda Date Company, Coachella, Calif. Fresh dates. Serial No. 507,891; June 3. Class 46.

Cowlbeck, Wilbur G., doing business as Elwax Sales Company, Bedford, Va. Electrically heated wax melting and pouring pot. Serial No. 510,486; June 3. Class 21.

Crucible Steel Company of America, New York, N. Y. Semi-finished intermediate cutting alloy castings, castings in the form of magnets, etc. Serial No. 500,287; June 3. Class 14.

Delta Color Corporation, New York, N. Y. Ready mixed water show card color. Serial No. 496,897; June 3. Class 16.

Dick, A. B., Company, Chicago, Ill. Duplicating machines. Serial No. 506,652; June 3. Class 23.

Dictograph Products Company, Inc., New York, N. Y. Electrical personal hearing aid apparatus. Serial Nos. 502,196–7; June 3. Class 44.

E. A. Laboratories, Inc., Brooklyn, N. Y. Electrically operated horns and controls therefor. Serial No. 510,787; June 3. Class 21.

Eastern Air Devices, Inc., Brooklyn, N. Y. Electric motors. Serial No. 490,422; June 3. Class 21.

Eberhart, James A., Cincinnati, Ohio. Combination radio receiver and phonograph. Serial No. 501,649; June 3. Class 21.

Elco Lubricant Corporation, The, Cleveland, Ohio. Chemical concentrate. Serial No. 503,247; June 3. Class 6.

Elgin Softener Corporation, Elgin, Ill. Ion exchange materials. Serial No. 506,741; June 3. Class 6.

Elwax Sales Company: *See*—
Cowlbeck, Wilbur G.

Etablissements Uti, Paris, France. Clocks, watches, jeweled watch cases, etc. Serial No. 511,545; June 3. Class 27.

Evans Chemetics Inc., New York, N. Y. Organic chemical. Serial No. 495,460; June 3. Class 6.

Fabrics of United Kingdom Limited, New York, N. Y. Textile fabrics in the piece. Serial No. 507,248; June 3. Class 42.

Fibrcan Corporation, New York, N. Y. Material or waste cans of plastic, paper or base metal. Serial No. 502,956; June 3. Class 2.

Fore-Site Home Furnishings, Inc., New York, N. Y. Living-room chairs, dining-room chairs, occasional chairs, etc. Serial No. 502,206; June 3. Class 32.

Gem Publications Inc., New York, N. Y. Magazine or publication. Serial No. 504,349; June 3. Class 38.

General Chemical Company, New York, N. Y. Liquid insecticidal product. Serial No. 506,662; June 3. Class 6.

Glin Company: *See*—
Miles, James.

Globe Enterprises, assignor to G. H. Beaver, Beverly Hills, Calif. Incinerator doors. Serial No. 510,872; June 3. Class 34.

Gordon's Sonocle Shops, Pawtucket, R. I. Hearing aids and parts thereof. Serial No. 500,302; June 3. Class 44.

Hallgarten, Marie-Helene, New York, N. Y. Textile design sketches. Serial No. 491,915; June 3. Class 38.

Hancock, G. L., & Company, Forest Hills, N. Y. Hairpins. Serial No. 512,907; June 3. Class 40.

Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Electroplating bath ingredients. Serial No. 505,054; June 3. Class 6.

Heckethorn Mfg. & Supply Co., Littleton, Colo. Insecticides. Serial No. 501,184; June 3. Class 6.

Hoffman, Mary K., doing business as Atomic Manufacturing Co., Reno, Nev. Horse shoes. Serial No. 505,412; June 3. Class 3.

Houston Oil Field Material Company, Inc., Houston, Tex. Steel fittings. Serial No. 492,267; June 3. Class 13.

Hutchinson Burner and Manufacturing Company, Hutchinson, Kans. Gas burners. Serial No. 512,418; June 3. Class 34.

Hydraulic Unit Specialties Company: *See*—
Schneider, Dana J.

Import Publications Inc., New York, N. Y. Section in a magazine. Serial No. 506,600; June 3. Class 38.

Industrial Tape Corporation, New Brunswick, N. J. Adhesive cements. Serial No. 494,071; June 3. Class 5.

Industrial Tape Corporation, New Brunswick, N. J. Adhesive tape dispensers. Serial No. 516,360; June 3. Class 38.

Interchemical Corporation, assignee: *See*—
Aridye Corporation.

International Plastics, Inc., Boston, Mass. Plastic compositions. Serial No. 507,403; June 3. Class 1.

Irvington Varnish & Insulator Co., Irvington, N. J. Extruded resinoid plastic materials in the form of tapes, tubes, rods, etc. Serial No. 494,792; June 3. Class 1.

Jerney Fabrics Co., New York, N. Y. Fabrics in the piece. Serial No. 491,160; June 3. Class 42.

Ken-Shaw Products, Inc., Detroit, Mich. Toy stilts. Serial No. 518,408; June 3. Class 22.

Kisco Company, Inc., St. Louis, Mo. Electric circulator fan assemblies. Serial No. 501,328; June 3. Class 21.

Kolb, Clyde E., doing business as Tourn-A-Grip Company, Birmingham, Mich. Fishing rods. Serial No. 500,086; June 3. Class 22.

Kono Manufacturing Company, The, Woodside, N. Y. Merchandise envelopes. Serial No. 498,639; June 3. Class 2.

Laclede Home Products Company, St. Louis, Mo. Envelopes or small pouches. Serial No. 492,202; June 3. Class 2.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Perfume, toilet water, talcum powder, etc. Serial No. 484,307; June 3. Class 6.

Leach & Co.: *See*—
Leach, Sydney M.

Leach, Sydney M., doing business as Leach & Co., Toledo, Ohio. Juvenile chaise lounges, juvenile chairs, and juvenile rockers. Serial No. 508,295; June 3. Class 32.

Leart, Inc., New York, N. Y. Dresser sets. Serial No. 509,225; June 3. Class 40.

Lesco Ltd., New York, N. Y. Ladies' handbags. Serial No. 515,434; June 3. Class 3.

Les Parfums de Dana, Inc., New York, N. Y. Toilet preparations, perfumery, and cosmetics. Serial No. 495,301; June 3. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. Serial No. 499,718; June 3. Class 2.

Lightning Adding Machine Company: *See*—
Thornton, Ernest E.

Mack Electric Devices Company: *See*—
McKinney, Norman.

Mandle, Urie F., Co., New York, N. Y. Costume jewelry. Serial No. 504,852; June 3. Class 28.

McKinney, Norman, doing business as Mack Electric Devices Company, Elkins Park, Pa. Mercury contact circuit makers and breakers, mercury plunger relays and parts thereof. Serial No. 507,133; June 3. Class 21.

Merrit Products Company: *See*—
National Toilet Company.

Mido Societe Anonyme, Bienne, Switzerland. Watches, watch casings and parts of watches. Serial No. 493,274; June 3. Class 27.

Mid-States Gummed Paper Co., Chicago, Ill. Gummed paper labels. Serial No. 489,340; June 3. Class 37.

Miles, James, doing business as Glin Company, Okeechobee, Fla. Food preparation. Serial No. 488,469; June 3. Class 46.

Minser Tackle Company: *See*—
Minser, William D.

Minser, William D., doing business as Minser Tackle Company, Seattle, Wash. Fish lures, fishing reels, fishing sinkers, etc. Serial No. 495,492; June 3. Class 22.

Modern Miltex Corporation, New York, N. Y. Sequins and spangles. Serial No. 511,406; June 3. Class 40.

Mueller Brass Co., Port Huron, Mich. Parts of refrigeration apparatus. Serial No. 515,233; June 3. Class 31.

Mutual Sunset Lamp Manufacturing Co., Inc., New York, N. Y. Portable lamp shades. Serial No. 514,769; June 3. Class 34.

Myers, E., Lye Corporation, St. Louis, Mo. Lye. Serial No. 505,976; June 3. Class 6.

Naegele-Horner Inc., New York, N. Y. Mannequins and parts therefor. Serial No. 505,852; June 3. Class 50.

National Toilet Company, doing business as Merrit Products Company, Paris, Tenn. Liquid hair dressing and straightener, antiseptic mouth wash and gargle, hair tonic, etc. Serial No. 472,117; June 3. Class 6.

Nyal Company, Detroit, Mich. Medicinal preparation. Serial No. 506,057; June 3. Class 6.

O'Brien, Howard T., doing business as O'Brien Mfg. Co., Chicago, Ill. Electric sewer cleaning machines. Serial No. 509,529; June 3. Class 23.

O'Brien Mfg. Co.: *See*—
O'Brien, Howard T.

Para Ti Corporation, New York, N. Y. Perfumes. Serial No. 491,024; June 3. Class 6.

Parfumerie Fragonard G. Fuchs & Cie., Paris, France. Perfumes. Serial No. 501,770; June 3. Class 6.

Parfums Verlayne (S. A. R. L.), Paris, France. Perfumes, toilet waters, rouge, etc. Serial No. 489,358; June 3. Class 6.

Paulera, George D., doing business as Paulera Laboratories, Union, N. J. Hair dressing and scalp conditioning composition. Serial No. 494,572; June 3. Class 6.

Paulera Laboratories: *See*—
Paulera, George D.

Peake, George V., Los Angeles, Calif. Toys, specifically, toy wagons, coasters, and scooters. Serial No. 494,410; June 3. Class 22.

Philco Corporation, Philadelphia, Pa. Synthetic plastic resin in liquid form. Serial No. 475,456; June 3. Class 1.

Phillips-Beal Company, Manchester, Conn. Plastic coated shoe buckles. Serial No. 512,533; June 3. Class 40.

Pierrine Laboratories, Paterson, N. J. Liquid preparation. Serial No. 506,958; June 3. Class 6.

Poro College: *See*—
Poro College Products Company, Inc.

Poro College Products Company, Inc., doing business as Poro College, Chicago, Ill. Liquid and ointment preparations. Serial No. 507,538; June 3. Class 6.

Process Equipment Engineers, Inc., Belding, Mich. Portable electric propeller blade industrial mixers for liquids. Serial No. 497,496; June 3. Class 21.

Redhurd Corporation, Terre Haute, Ind. Pure concentrated eggs. Serial No. 497,201; June 3. Class 46.

Refining, Unincorporated: *See*—
Clayton, Benjamin.

Robboy Electric Mfg. Co., Cleveland, Ohio. Electrical apparatus. Serial No. 511,646; June 3. Class 21.

Robert, Herbert F., Boston, Mass. Novelty dice. Serial No. 500,490; June 3. Class 22.

Roosen Silks Limited, London, England. Piece goods. Serial No. 502,334; June 3. Class 42.

Rosemarie de Paris, Inc., New York, N. Y. Candy. Serial No. 505,237; June 3. Class 46.

Rosemarie de Paris, Inc., New York, N. Y. Candy. Serial No. 510,200; June 3. Class 46.

Ross, S. Grahame, Limited, Slough, England. Pressure relief valves. Serial Nos. 495,333–4; June 3. Class 13.

Saltz, Frank, La Crosse, Wis. Office equipment. Serial No. 507,940; June 3. Class 32.

Salz, A. K., Company, Santa Cruz, Calif. Hides and leather. Serial No. 506,840; June 3. Class 1.

Sands, Fred, Kansas City, Mo. Publications. Serial No. 492,960; June 3. Class 38.

Schneider, Dana, doing business as Hydraulic Unit Specialties Company. Hydraulic units. Serial No. 510,202; June 3. Class 23.

Schultz, James H., Detroit, Mich. Paint. Serial No. 500,704; June 3. Class 16.

Shepherd, James D., Denver, Colo. Newspaper or periodical feature. Serial No. 507,078; June 3. Class 38.

Silcote Co.: *See*—
Talbot, Richard L.

Société d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris & Asnieres, near Paris, France. Perfumes. Serial No. 502,083; June 3. Class 6.

Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., The, Chicago, Ill., and Detroit, Mich. Magazines. Serial No. 504,867; June 3. Class 38.

Southern Plow Co.: *See*—
Columbus Iron Works Company.

Steensland, Vernon, Syracuse, N. Y. Blank forms. Serial No. 507,544; June 3. Class 37.

Sumner, Richard J., Arlington, Va. Perfumes. Serial No. 495,345; June 3. Class 6.

Sunshine Products Company, Seattle, Wash. Deodorant and disinfectant. Serial No. 506,137; June 3. Class 6.

Superdraulic Corporation, Dearborn, Mich. Fluid-operated mechanisms. Serial No. 500,636; June 3. Class 23.

Tablerock Laboratories, Greenville, S. C. Vitamin preparation in capsule form. Serial No. 503,019; June 3. Class 6.

Talbot, Richard L., doing business as Silcote Co., Oshkosh, Wis. Water proofing plastic. Serial No. 504,588; June 3. Class 6.

Tennessee Eastman Corporation, Kingsport, Tenn. Chemical composition. Serial No. 506,558; June 3. Class 6.

Textileather Corporation, Toledo, Ohio. House organ. Serial No. 507,439; June 3. Class 38.

Thornton, Ernest E., doing business as Lightning Adding Machine Company, Los Angeles, Calif. Portable adding machine. Serial No. 504,009; June 3. Class 26.

Titanine, Inc., Union, N. J. Polishes for use on lacquered-type finishes. Serial No. 499,518; June 3. Class 16.

Titanine, Inc., Union, N. J. Polishes for use on lacquered-type finishes. Serial No. 499,521; June 3. Class 16.

Tourn-A-Grip Company: *See*—
Kolb, Clyde E.

Treesdale Laboratories, Inc., Pittsburgh, Pa. Liquid chemical preparations. Serial Nos. 505,993–4; June 3. Class 6.

Tremblay Machine Shop Ltd., Montreal, Quebec, Canada. Metal drinking cups. Serial No. 488,493; June 3. Class 13.

Tri-Way Industries, Inc., Seattle, Wash. Tubular metal-framed furniture. Serial No. 510,036; June 3. Class 32.

Turco Products, Inc., Los Angeles, Calif. General purpose cleaning compound. Serial No. 506,705; June 3. Class 4.

Unimex Company, doing business as Unimex Watch Distributors, New York, N. Y. Watches and parts thereof. Serial Nos. 511,304–5; June 3. Class 27.

Unimex Watch Distributors: *See*—
Unimex Company.

United Jewelry Company: *See*—
Baer, Otto.

Upco Company, The, Cleveland, Ohio. Hydraulic patching cement. Serial No. 499,877; June 3. Class 12.

Vangtronic Corporation, The, Bridgeport, Conn. Electrical welding apparatus. Serial No. 494,527; June 3. Class 21.

Victoria, Ltd., New York, N. Y. Perfume, cologne, toilet water, etc. Serial No. 505,371; June 3. Class 6.

Western Oil and Fuel Company, Minneapolis, Minn. High tensile strength steel cylinders and drums. Serial No. 518,798; June 3. Class 2.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Brick Company, Fort Worth, Tex. Brick. 223,077; renewed Jan. 18, 1947. O. G. June 3. Class 12.

Acme Quality Sales Co.: *See*—
Hooton, Clifford F.

Affiliated Retailers, Inc., New York, N. Y. All types of bedroom, dining room, and living room furniture. 430,054–5; June 3. Class 32.

Ahlberg Bearing Company, Chicago, Ill. Ball bearings. 220,027; renewed Oct. 26, 1946. O. G. June 3. Class 23.

Air-O-Tabs Co.: *See*—
Kaplan, Sam.

Alamo Packing Co., Heber and Los Angeles, Calif., to A. M. Seckbach & Co., Los Angeles, Calif. Fresh vegetables. 207,326; renewed Dec. 29, 1945. O. G. June 3. Class 46.

Alvin Corporation, The, Providence, R. I. Sterling silver flatware, hollowware, and cutlery. 430,018; June 3; Serial No. 504,957; published Mar. 11, 1947. Class 28.

American Bosch Corporation: *See*—
American Bosch Magneto Corporation.

American Bosch Magneto Corporation, to American Bosch Corporation, Springfield, Mass. Windshield wipers of squeegee type. 226,400; renewed Apr. 5, 1947. O. G. June 3. Class 29.

American Cellulose & Chemical Manufacturing Company, Ltd., The, to Celanese Corporation of America, New York, N. Y. Knitted, netted, and textile fabrics. 225,285–6; renewed Mar. 15, 1947. O. G. June 3. Class 42.

American Cellulose & Chemical Manufacturing Company, Ltd., The, to Celanese Corporation of America, New York, N. Y. Pyjamas, negligee shirts, undershirts, etc. 226,304; renewed Apr. 5, 1947. O. G. June 3. Class 39.

American Crayon Company, The, Sandusky, Ohio. Crayons. 226,290; renewed Apr. 5, 1947. O. G. June 3. Class 37.

American Thermos Bottle Company, The, Norwich, Conn. Publication distributed as a house organ. 224,048; renewed Feb. 15, 1947. O. G. June 3. Class 38.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton, sewing-cotton, and thread. 59,371–2; re-renewed Jan. 8, 1947. O. G. June 3. Class 43.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton and thread. 59,654–5; re-renewed Jan. 15, 1947. O. G. June 3. Class 43.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton and thread. 59,686; re-renewed Jan. 15, 1947. O. G. June 3. Class 43.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton, sewing-cotton, and thread. 59,687–8; re-renewed Jan. 15, 1947. O. G. June 3. Class 43.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton, sewing-cotton, and thread. 59,690–1; re-renewed Jan. 15, 1947. O. G. June 3. Class 43.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton, sewing-cotton, and thread. 59,846; re-renewed Jan. 22, 1947. O. G. June 3. Class 43.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton and thread. 59,867; re-renewed Jan. 22, 1947. O. G. June 3. Class 43.

Anglo Fabrics Company, assignor to Anglo Fabrics Company, Inc., New York, N. Y. Woolen and worsted piece goods. 430,051–2; June 3. Class 42.

Anglo Fabrics Company, Inc., assignee: *See*—
Anglo Fabrics Company.

Apex Electrical Manufacturing Co., The: *See*—
Vulcan Manufacturing Company.

Aristocrat Leather Products, Inc., New York, N. Y. Leather watch straps, leather chains, leather watch fobs, etc. 429,982; June 3; Serial No. 492,123; published Aug. 20, 1946. Class 40.

Arrow Packing Co., Exeter, Calif. Fresh deciduous fruits. 226,104–5; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Art & Sign Brush Manufacturing Corporation, Long Island City, N. Y. Paint brushes. 430,010; June 3; Serial No. 503,339; published Mar. 11, 1947. Class 29.

Asquith Associates: *See*—
Asquith, Bennett.

Asquith, Bennett, doing business as Asquith Associates, Boston, Mass. Costumers and hat racks. 430,042; June 3; Serial No. 510,561; published Mar. 11, 1947. Class 32.

Atlantic Refining Company, The, Philadelphia, Pa. Specially treated motor lubricating oils. 220,489; renewed Nov. 9, 1946. O. G. June 3. Class 15.

Baby Vanity Company, New York, N. Y. Nursery furniture. 430,050; June 3. Class 32.

Bachmann, Eric R., Jackson Heights, Long Island, N. Y. Telephone stands. 429,984; June 3; Serial No. 493,723; published Feb. 25, 1947. Class 32.

Balbinder, Sigmund, doing business as Siggy Coat Co., New York, N. Y. Ladies' and misses' coats. 430,057; June 3. Class 39.

Bates, C. J., & Son, Chester, Conn. Crochet hooks and knitting needles. 430,028; June 3; Serial No. 506,917; published Mar. 11, 1947. Class 40.

Bates, C. J., & Son, Chester, Conn. Crochet hooks and knitting needles. 430,063; June 3. Class 40.

Bates, C. J., & Son, Chester, Conn. Crocket hooks and knitting needles. 430,068; June 3. Class 40.

Beaver Products Company, Inc., The, Buffalo, N. Y., to Certain-teed Products Corporation, Chicago, Ill. Fiber wall board, gypsum board, gypsum plaster, etc. 221,037; renewed Nov. 23, 1946. O. G. June 3. Class 12.

Bell & Zoller Coal Company: *See*—
Blanchard, Charles N.

Bergen Machine & Tool Company, Inc., Nutley, N. J. Magazine racks, card tables, and occasional tables. 429,989; June 3; Serial No. 496,128; published Mar. 11, 1947. Class 32.

Berwind-White Coal Mining Company, The: *See*—
Berwind White Coal Mining Company.

Berwind White Coal Mining Company, to The Berwind-White Coal Mining Company, Philadelphia, Pa. Coal. 60,916; re-renewed Feb. 26, 1947. O. G. June 3. Class 1.

Bickmore Company, The, Old Town, Maine. Healing veterinary salves. 221,703; renewed Dec. 7, 1946. O. G. June 3. Class 6.

Bickmore Company, The, Old Town, Maine. Salves. 221,856; renewed Dec. 14, 1946. O. G. June 3. Class 6.

Black & White Milling Company, to Ultra-Life Laboratories, Inc., East St. Louis, Ill. Cereals and cereal products. 224,731; renewed Mar. 1, 1947. O. G. June 3. Class 46.

Blanchard, Charles N., Binghamton, N. Y., to Bell & Zoller Coal Company, Chicago, Ill. Coal. 224,931; renewed Mar. 8, 1947. O. G. June 3. Class 1.

Boss Manufacturing Company, The, Kewanee, Ill. Fabric gloves and mittens. 225,714; renewed Mar. 22, 1947. O. G. June 3. Class 39.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes, smoking tobacco, chewing tobacco, and snuff. 429,990; June 3; Serial No. 496,422; published Dec. 24, 1946. Class 17.

Buchsbaum, S., & Co., Chicago, Ill. Belt buckles, tie bars, collar bars, etc. 429,979; June 3; Serial No. 489,559; published May 28, 1946. Class 28.

Bunn Capitol Grocery Company: *See*—
Humphreys, J. F., & Co.

Burwell, Maurel G., doing business as Century Mfg. Co., Columbus, Ohio. Gas-fired water heaters. 430,073; June 3. Class 34.

California Stucco Company: *See*—
California Stucco Products Co.

California Stucco Products Co., to California Stucco Company, Los Angeles, Calif. Exterior and interior colored cement-stucco finish coat, etc. 220,137; renewed Nov. 2, 1946. O. G. June 3. Class 12.

Celanese Corporation of America: *See*—
American Cellulose & Chemical Manufacturing Company, Ltd., The.

Celanese Corporation of America, New York, N. Y. Yarns. 430,032; June 3; Serial No. 507,457; published Mar. 11, 1947. Class 43.

Celluplastic Corporation, Newark, N. J. Plastic materials, and synthetic resins. 430,002; June 3; Serial No. 502,061; published Mar. 11, 1947. Class 1.

Century Mfg. Co.: *See*—
Burwell, Maurel G.

Certain-teed Products Corporation: *See*—
Beaver Products Company, Inc., The.

Certain-teed Products Corporation, Chicago, Ill. Roll roofing, siding, and sheathing, etc. 429,970–1; June 3; Serial Nos. 470,407–8; published Mar. 11, 1947. Class 12.

Certain-teed Products Corporation, Chicago, Ill. Cements. 429,972; June 3; Serial No. 470,409; published Mar. 11, 1947. Class 12.

Chadkin, Bernard, doing business as Photographic Arts Supply Company, New York, N. Y. Photographic objectives. 430,026; June 3; Serial No. 506,368; published Mar. 11, 1947. Class 26.

Champion Bedding Company, Lynn, Mass. Mattresses, box springs, and studio couches. 429,991; June 3; Serial No. 497,647; published Feb. 11, 1947. Class 32.

Chandler, W. Ray, Marysville, to W. Ray Chandler, Yuba City, Calif. Fresh deciduous fruits. 226,119; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Chula Vista Citrus Association, The: *See*—
Chula Vista Citrus Association.

Chula Vista Citrus Association, to The Chula Vista Citrus Association, Chula Vista, Calif. Fresh citrous fruits. 226,006; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Chula Vista Citrus Association, to The Chula Vista Citrus Association, Chula Vista, Calif. Fresh citrous fruits. 226,380; renewed Apr. 5, 1947. O. G. June 3. Class 46.

Cincinnati Bickford Tool Company, The, Oakley and Cincinnati, to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Metal-drilling machines. 216,412; renewed Aug. 10, 1946. O. G. June 3. Class 23.

Cohn-Goldwater Mfg. Co., Los Angeles, Calif. Men's clothing; children's play suits. 225,768; renewed Mar. 22, 1947. O. G. June 3. Class 39.

Cold Spring Granite Company, Cold Spring, Minn. Cut granite. 224,926; renewed Mar. 8, 1947. O. G. June 3. Class 12.

Cold Spring Granite Company, Cold Spring, Minn. Uncut granite. 225,720; renewed Mar. 22, 1947. O. G. June 3. Class 1.

Collin County Mill & Elevator Company, McKinney, to Tex-O-Kan Flour Mills Company, Dallas, Tex. Wheat-flour. 52,194; re-renewed May 1, 1946. O. G. June 3. Class 46.

Collins, J. N., Company, Minneapolis, Minn., to Peter Paul, Inc., Naugatuck, Conn. Candies. 226,121; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Columbia Mills, Inc., The, New York, N. Y. Venetian blinds and parts thereof. 429,996; June 3; Serial No. 499,047; published Feb. 25, 1947. Class 32.

Columbia Mills, Inc., The, New York, N. Y. Window shades and (porch) shades. 430,064; June 3. Class 32.

Columbia Mills, Inc., The, New York, N. Y. Window shades and porch shades. 430,066; June 3. Class 32.

Compagnie des montres Ardath, Dreyfuss & Cie (Ardath Watch Co. Dreyfus & Co.), Geneva, Switzerland. Watches and watch movements. 429,973; June 3; Serial No. 481,101; published Mar. 4, 1947. Class 27.

Company of Master Craftsmen, Inc., Oneida, N. Y. Upholstered furniture. 429,992–3; June 3; Serial Nos. 498,206–7; published Mar. 11, 1947. Class 32.

Concordia-Gallia Corp., New York, N. Y. Textile fabrics in the piece. 430,014; June 3; Serial No. 503,870; published Mar. 22, 1947. Class 42.

Continental Can Company, Inc., New York, N. Y. Paper cups. 430,044; June 3. Class 2.

Cordo-Hyde Company, to Cordo-Hyde Company, Brockton, Mass. Shoe trees and fillers. 226,360; renewed Apr. 5, 1947. O. G. June 3. Class 50.

Corn Fix Co., Inc., Newark, N. J. Remedy for corns, calli, and bunions. 226,256; renewed Apr. 5, 1947. O. G. June 3. Class 6.

Curran Cushion & Textile Co., Downers Grove, Ill. Seats and back rests of the sporting furniture type. 429,980; June 3; Serial No. 490,294; published Mar. 4, 1947. Class 32.

Dejur-Amsco Corporation, Long Island City, N. Y. Photographic exposure meters. 430,021; June 3; Serial No. 505,738; published Mar. 11, 1947. Class 26.

Delta Delta Delta, Evanston, Ill., to Delta Delta Delta, Minneapolis, Minn. Fraternity badges, lapel buttons, scarf, lapel and breast pins, etc. 223,230; renewed Jan. 25, 1947. O. G. June 3. Class 28.

Dery, Henry J., doing business as The Dery Products Co., Richmond, Calif. Folding clothes stands. 429,997; June 3; Serial No. 499,212; published Feb. 25, 1947. Class 32.

Dery Products Co., The: *See—*
Dery, Henry J.

Dinges, Wilton C., doing business as The Emeco Co., Baltimore, Md. Household chairs, breakfast sets, etc. 430,029; June 3; Serial No. 507,112; published Mar. 4, 1947. Class 32.

E-Z-Way Business and Tax Record, Income Tax Service: *See—*
Sherrill, Jas. (Jim) Milton.

Faber, Eberhard, New York, to Eberhard Faber Pencil Company, Brooklyn, N. Y. Pens and penholders and lead-pencils. 60,457; re-renewed Feb. 12, 1947. O. G. June 3. Class 37.

Faber, Eberhard, Pencil Company: *See—*
Eberhard Faber.

El Cajon Valley Citrus Association, El Cajon, Calif. Fresh citrous fruits. 226,008; renewed Mar. 29, 1947. O. G. June 3. Class 46.

El Cajon Valley Citrus Association, El Cajon, Calif. Fresh citrous fruits. 226,017; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Electric Company, The, Hartford, Conn. Electrical connecting devices. 225,544; renewed Mar. 22, 1947. O. G. June 3. Class 21.

Electronic Specialty Co.: *See—*
Marcus, David A.

Emeco Co., The: *See—*
Dinges, Wilton C.

Erwin Cotton Mills Company, The: *See—*
Monohansett Mfg. Co.

Esquire Manufacturing Co., Inc., New York, N. Y. Cigarette cases not made of precious or semi-precious metal. 430,047; June 3. Class 8.

Eversharp, Inc., Chicago, Ill. Fountain pens. 430,059; June 3. Class 37.

Excelso Products Company, West Allis, Wis. Pigment coloring material. 225,941; renewed Mar. 29, 1947. O. G. June 3. Class 6.

Falcon Products, Inc., Portland, Maine. Paper in sheets and rolls. 429,999; June 3; Serial No. 501,249; published Mar. 11, 1947. Class 37.

Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany, to Winthrop Chemical Company, Inc., New York, N. Y. Substitutes for iodids. 61,730; re-renewed Apr. 2, 1947. O. G. June 3. Class 6.

Farquhar Furnace Company, The, Wilmington, Ohio. Furnaces. 225,522; renewed Mar. 22, 1947. O. G. June 3. Class 34.

Federal Sweets & Biscuit Co. Inc.: *See—*
Federal Sweets & Wafer Co. Inc.

Federal Sweets & Wafer Co., Inc., New York, N. Y., to Federal Sweets & Biscuit Co. Inc., Clifton, N. J. Chocolate-covered candy bars. 225,238; renewed Mar. 15, 1947. O. G. June 3. Class 46.

Fortress Watch & Jewelry Co. Inc., New York, N. Y. Bracelets, ornamental pins, ear-rings, etc. 429,995; June 3; Serial No. 498,614; published Mar. 11, 1947. Class 28.

Foster, Babette A., doing business as Plastic Articles Company, New York, N. Y. Cigarette cases of plastic material. 430,049; June 3. Class 8.

Geller, Irving, New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio receiving and/or transmitting sets, television receiving and sending apparatus, etc. 429,977; June 3; Serial No. 487,613; published May 14, 1946. Class 21.

General Electric X-Ray Corporation: *See—*
Victor X-Ray Corporation.

Gerotor May Corporation: *See—*
May Oil Burner Corporation.

Gilbert Shoe Co., Thiensville, Wis. Children's shoes constructed of leather, rubber, or fabric. 223,941; renewed Feb. 15, 1947. O. G. June 3. Class 39.

Gillette Safety Razor Company, Boston, Mass. Surgical knives and parts thereof. 226,344; renewed Apr. 5, 1947. O. G. June 3. Class 44.

Gold Cross Mattress Corp., Boston, Mass. Mattresses, beds, studio couches, etc. 430,036; June 3; Serial No. 508,688; published Mar. 11, 1947. Class 32.

Goodrich, B. F., Company, The, New York, N. Y., to The B. F. Goodrich Company, Akron, Ohio. Chemicals. 221,908; renewed Dec. 14, 1946. O. G. June 3. Class 6.

Gorham Manufacturing Company, Providence, R. I. Sterling silver flatware, hollowware, and cutlery. 430,019; June 3; Serial No. 504,973; published Mar. 11, 1947. Class 28.

Grad, David, Company, New York, N. Y. Costume jewelry. 429,988; June 3; Serial No. 495,733; published Mar. 4, 1947. Class 28.

Grey, John A., & Partners Limited, London, England. Apparatus, electrically operated, for drying and heating towels and clothes. 430,011; June 3; Serial No. 503,442; published Mar. 11, 1947. Class 24.

Grove Regulator Company, Oakland, Calif. Back pressure relief valves. 430,056; June 3. Class 13.

Gruen Watch Company, The, Cincinnati and Time Hill, Cincinnati, Ohio. Watch straps. 430,030; June 3; Serial No. 507,253; published Mar. 11, 1947. Class 40.

Gutradt, Joseph, Company, to Newell Gutradt Company, San Francisco, Calif. Soaps. 225,947; renewed Mar. 29, 1947. O. G. June 3. Class 4.

Hallet & Hallet: *See—*
Hallet, Harry.

Hallet, Harry, doing business as Hallet & Hallet, Somerville, Mass. Metal furniture. 429,986; June 3; Serial No. 494,446; published Mar. 11, 1947. Class 32.

Hamilton Manufacturing Company: *See—*
Manning, Rollo G.

Hanson & Van Winkle Co., Newark, to Hanson-Van Winkle-Munning Company, Matawan, N. J. Detergents. 58,061; re-renewed Dec. 4, 1946. O. G. June 3. Class 4.

Hanson-Van Winkle-Munning Company: *See—*
Hanson & Van Winkle Co., The.

Hartman Broom Company, Clay Center, Kans. Brooms. 430,020; June 3; Serial No. 504,978; published Mar. 11, 1947. Class 29.

Health-O-Swim Nose Clip Co., New York, N. Y. Nose clips. 430,071; June 3. Class 22.

Hecker-Jones-Jewell Milling Company, New York, N. Y., to Lantz Brothers Baking Company, St. Louis, Mo. Pancake flour. 207,047; renewed Dec. 15, 1945. O. G. June 3. Class 46.

Heisen, Cole and Company, Portland, Oreg. Concrete building blocks. 430,072; June 3. Class 12.

Hooton, Clifford F., doing business as Acme Quality Sales Co., Pittsburg, Kans. Dog mats. 430,061; June 3. Class 3.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, lotion eau vegetale, etc. 226,004; renewed Mar. 29, 1947. O. G. June 3. Class 6.

Howell, Richard H., New York, N. Y. Collapsible dinette sets. 429,987; June 3; Serial No. 494,846; published Feb. 18, 1947. Class 32.

Hugh and Hall Adams Corporation: *See—*
Johnson, J. W.

Humphreys, J. F., & Co., Bloomington, to Bunn Capitol Grocery Company, Springfield, Ill. Canned fruit and vegetables. 56,961; re-renewed Oct. 30, 1946. O. G. June 3. Class 46.

Insul-Wool Insulation Corporation, Wichita, Kans. Thermal insulating material. 430,024; June 3; Serial No. 506,033; published Mar. 11, 1947. Class 12.

Johnson, J. W., doing business as Pence Springs Co., Pence Springs, to Hugh and Hall Adams Corporation, Charleston, W. Va. Mineral-spring water. 220,936; renewed Nov. 16, 1946. O. G. June 3. Class 45.

Kalish, Ben, New York, N. Y. Women's and children's fur neck pieces and fur coats. 225,788; renewed Mar. 22, 1947. O. G. June 3. Class 39.

Kaplan, Sam, doing business as Air-O-Tabs Co., Chicago, Ill. Articles of bedding. 429,976; June 3; Serial No. 487,328; published Mar. 11, 1947. Class 32.

Karp, David, Company, New York, N. Y. Finger rings. 430,015; June 3; Serial No. 504,367; published Mar. 11, 1947. Class 28.

Kauai Fruit & Land Co. Ltd., to Kauai Pineapple Company, Limited, Kalaheo, Hawaii. Canned pineapple. 225,156–7; renewed Mar. 15, 1947. O. G. June 3. Class 46.

Kauai Pineapple Company, Limited: *See—*
Kauai Fruit & Land Co. Ltd.

Kellogg, P. P., & Co.: *See—*
United States Envelope Company.

Kerco Jewelry Limited, Montreal, Quebec, Canada. Jewelry and jewelry novelties. 429,978; June 3; Serial No. 488,535; published Mar. 4, 1947. Class 28.

Kingsbury, Albert, Frankford, Philadelphia, assignor to Kingsbury Machine Works, Inc., to Kingsbury Machine Works, Inc., Philadelphia, Pa. Bearings and parts of bearings and accessories of bearings. 222,918; re-renewed Jan. 21, 1947. O. G. June 3. Class 23.

Kingsbury Machine Works, Inc., assignee: *See—*
Kingsbury, Albert.

Kingsbury Machine Works, Inc., Frankford, Philadelphia, to Kingsbury Machine Works, Inc., Philadelphia, Pa. Bearings and parts of bearings and accessories of bearings. 223,397; renewed Feb. 1, 1947. O. G. June 3. Class 23.

Knickerbocker Clothing Company, St. Louis, Mo. Suits, trousers, vests, etc. 225,699; renewed Mar. 22, 1947. O. G. June 3. Class 39.

Kny-Scheerer Company, The, New York, to Kny-Scheerer Corporation, Long Island City, N. Y. Apparatus for examination of the blood, the stomach, and the urine, etc. 61,298; re-renewed Mar. 12, 1947. O. G. June 3. Class 44.

Kny-Scheerer Corporation: *See—*
Kny-Scheerer Company, The.

Krafts Foods Company: *See—*
Phenix Cheese Corporation.

Lantz Brothers Baking Company: *See—*
Hecker-Jones-Jewell Milling Company.

Levine, Max, & Co., New York, N. Y. Dresses. 225,202; renewed Mar. 15, 1947. O. G. June 3. Class 39.

Lewis, Henry, & Co., Inc., New York, N. Y. Wool blankets. 430,070; June 3. Class 42.

Lilac Bros. Golf Club Repair Shop, Dearborn, Mich. Golf clubs and putter heads. 430,060; June 3. Class 22.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 225,344; renewed Mar. 15, 1947. O. G. June 3. Class 6.

Lindsay District Orange Company, Lindsay, Calif. Fresh citrous fruits. 226,347; renewed Apr. 5, 1947. O. G. June 3. Class 46.

Little Rock Restaurant Supply Company, Little Rock, Ark. Unit combination dining table and chairs. 430,008; June 3; Serial No. 502,989; published Mar. 11, 1947. Class 32.

Manning, Rollo G., Toledo, Ohio, to Hamilton Manufacturing Company, Two Rivers, Wis. Drawing-tables, and filing cases. 59,036; re-renewed Jan. 1, 1947. O. G. June 3. Class 32.

Marcus, David A., doing business as Electronic Specialty Co., Los Angeles, Calif. Aircraft radio transmitting and/or receiving sets and parts thereof. 430,053; June 3. Class 21.

Marine Optical Mfg. Co., Boston and Roslindale, Boston, Mass. Optical frames and sunglasses. 430,022; June 3; Serial No. 505,905; published Mar. 11, 1947. Class 26.

Mason-Neilan Regulator Company: *See—*
Mason Regulator Co., The.

Mason Regulator Co., The, to Mason-Neilan Regulator Company, Boston, Mass. Steam-regulating devices, steam-pumps, and steam-engines. 58,494; re-renewed Dec. 18, 1946. O. G. June 3. Classes 13, 23, and 26.

May Oil Burner Corporation, to Gerotor May Corporation, Baltimore, Md. Oil burners. 223,793; renewed Feb. 8, 1947. O. G. June 3. Class 34.

Mayes Brothers Tool Manufacturing Company, Inc., Port Austin, Mich. Spirit levels. 226,175; renewed Apr. 5, 1947. O. G. June 3. Class 26.

McKesson & Robbins, to McKesson & Robbins, Incorporated, New York, N. Y. Pharmaceutical preparations. 50,752; re-renewed Mar. 27, 1946. O. G. June 3. Class 6.

McKesson & Robbins, Incorporated: *See—*
McKesson & Robbins.

Mercedes Citrus Growers: *See—*
Rio Grande Valley Citrus Growers Association.

Mergenthaler Linotype Company: *See—*
Mergenthaler Linotype Co.

Mergenthaler Linotype Co., New York, to Mergenthaler Linotype Company, Brooklyn, N. Y. Powdered substance for removing the dross from old molten type or linotype metal. 59,264; re-renewed Jan. 1, 1947. O. G. June 3. Class 6.

Mid-California Citrus Association, Porterville, to Terra Bella Citrus Association, Terra Bella, Calif. Fresh citrous fruits. 226,010; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Midwest Laboratories, Inc., Chicago, Ill. Radio receiving sets. 430,025; June 3; Serial No. 506,048; published Feb. 25, 1947. Class 21.

Miss America Brassiere Co. Inc.: *See—*
Powell Corset Company.

Mittineague Paper Company, to Strathmore Paper Company, West Springfield, Mass. Writing, drawing, and book paper, paper for covers of pamphlets and catalogues, etc. 57,915–16; re-renewed Dec. 4, 1946. O. G. June 3. Class 37.

Monohansett Mfg. Co., Putnam, Conn., to The Erwin Cotton Mills Company, Durham, N. C. Sheetings and shirtings. 58,866; re-renewed Dec. 25, 1946. O. G. June 3. Class 42.

Moore Pen Company, The, Boston, Mass. Pen points. 224,526; renewed Mar. 1, 1947. O. G. June 3. Class 37.

Morrill, George H., Company, Norwood, Mass., to Sun Chemical Corporation, New York, N. Y. Half-tone ink. 222,420; re-renewed Jan. 4, 1947. O. G. June 3. Class 11.

Mutation Mink Breeders Association, Elkhorn, Wis. Mink pelts. 429,974; June 3; Serial No. 483,435; published Mar. 11, 1947. Class 1.

Narragansett Brewing Company, Cranston, R. I. Ale, beer, porter, etc. 59,413; re-renewed Jan. 8, 1947. O. G. June 3. Class 48.

National Sawdust Co., Inc., Brooklyn, N. Y. Sawdust and shavings. 226,305; renewed Apr. 5, 1947. O. G. June 3. Class 1.

Neustadtl, Henrietta: *See—*
Neustadtl, Victor.

Neustadtl, Victor, to Henrietta Neustadtl, New York, N. Y. Malt sirups, extracts. 219,767; renewed Oct. 26, 1946. O. G. June 3. Class 48.

Newell Gutradt Company: *See—*
Gutradt, Joseph, Company.

New Haven Clock Company, The, assignor to New Haven Clock and Watch Company, New Haven, Conn. Clocks, watches, and parts thereof. 430,000; June 3; Serial No. 501,265; published Mar. 11, 1947. Class 27.

New Haven Clock Company, The, assignor to New Haven Clock and Watch Company, New Haven, Conn. Clocks, watches, and parts thereof. 430,005; June 3; Serial No. 502,316; published Mar. 11, 1947. Class 27.

New Haven Clock Company, The, assignor to New Haven Clock and Watch Company, New Haven, Conn. Clocks, watches, and parts thereof. 430,006; June 3; Serial No. 502,396; published Mar. 11, 1947. Class 27.

New Haven Clock and Watch Company, assignee: *See—*
New Haven Clock Company, The.

New York Hat Stores, Inc., Los Angeles, Calif. Hats and caps. 221,902; renewed Dec. 14, 1946. O. G. June 3. Class 39.

New York Hat Stores, Inc., Los Angeles, Calif. Hats and caps. 223,647; renewed Feb. 8, 1947. O. G. June 3. Class 39.

New York Knitting Mills, New York, N. Y. Knitted outerwear. 429,981; June 3; Serial No. 491,113; published Aug. 20, 1946. Class 39.

Northrup, King & Company, Minneapolis, Minn. Poultry feed, stock feed, and dairy feed. 226,053; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Noxzema Chemical Co., Baltimore, Md. Skin cream, talcum powder, tooth paste, etc. 225,012; renewed Mar. 8, 1947. O. G. June 3. Class 6.

Olin Industries, Inc.: *See—*
Western Cartridge Company.

Oneida Ltd., Sherrill and Oneida, N. Y. Silverplated flat tableware. 430,017; June 3; Serial No. 504,784; published Mar. 4, 1947. Class 28.

Oneida Ltd., Sherrill and Oneida, N. Y. Silverplated flat tableware. 430,023; June 3; Serial No. 505,938; published Mar. 4, 1947. Class 28.

Overholt, A., & Co. Inc.: *See—*
Renziehausen, Frederick C.

Pacific Mills, Boston, Mass., and New York, N. Y. Face and bath towels and face cloths. 430,001; June 3; Serial No. 501,403; published Mar. 4, 1947. Class 42.

Patons & Baldwins, Inc., Newark, N. J. Knitting yarn. 430,033–5; June 3; Serial Nos. 507,926–8; published Mar. 11, 1947. Class 43.

Paul, Peter, Inc.: *See—*
Collins, J. N., Company.

Pence Springs Co.: *See—*
Johnson, J. W.

Pendleton Woolen Mills, Portland, Oreg. Clothing. 223,598; renewed Feb. 8, 1947. O. G. June 3. Class 39.

Pendleton Woolen Mills, Portland, Oreg. Textile blankets. 223,756; renewed Feb. 8, 1947. O. G. June 3. Class 42.

Pendleton Woolen Mills, Portland, Oreg. Clothing. 224,189; renewed Feb. 22, 1947. O. G. June 3. Class 39.

Pennsylvania Rubber Company, Jeannette, Pa. Tennis balls, hand balls, toy play balls, etc. 430,048; June 3. Class 22.

Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal preparation. 225,919; renew Mar. 29, 1947. O. G. June 3. Class 6.

Phenix Cheese Corporation, New York, N. Y., to Krafts Foods Company, Chicago, Ill. Cheese. 222,959; renewed Jan. 11, 1947. O. G. June 3. Class 46.

Philadelphia Toboggan Company, Philadelphia, Pa. Carrousels, coaster cars, coaster structures, etc. 218,405; renewed Sept. 28, 1946. O. G. June 3. Class 22.

Photographic Arts Supply Company: *See—*
Chadkin, Bernard.

Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio. Stationary and portable X-ray apparatus. 430,074; June 3, Class 44.

Plastic Articles Company: *See—*
Foster, Babette A.

Powell Corset Company, to Miss America Brassiere Co. Inc., Chicago, Ill. Corsets, brassières, girdles, etc. 224,499; renewed Mar. 1, 1947. O. G. June 3. Class 39.

Radway & Company, to Radway & Co. Inc., New York, N. Y. Pills. 61,759; re-renewed Apr. 2, 1947. O. G. June 3. Class 6.

Radway & Co. Inc.: *See—*
Radway & Company.

Red Feather Products Ltd., assignor to Red Feather Products Ltd., Redwood City, Calif. Stencils, styli, correction fluid, etc. 429,975; June 3; Serial No. 485,545; published Mar. 11, 1947. Class 37.

Reed Brothers, Inc., Tupelo, Miss. Work shirts. 226,191; renewed Apr. 5, 1947. O. G. June 3. Class 39.

Refiners Oil Co., The, Dayton, to The Standard Oil Company, Cleveland, Ohio. Lubricating oils and greases and gasoline. 224,832; renewed Mar. 8, 1947. O. G. June 3. Class 15.

Renziehausen, Frederick C., Pittsburgh, to A. Overholt & Co. Inc., Broad Ford, Pa. Whisky. 61,688; re-renewed Apr. 2, 1947. O. G. June 3. Class 49.

Resinous Products & Chemical Company, The: *See—*
Rohm & Haas Co., Inc.

Resisto-Loy Company, Grand Rapids, Mich. Metal alloy welding rods. 429,994; June 3; Serial No. 498,457; published Jan. 7, 1947. Class 14.

Reynolds & Reynolds Company, The, Dayton, Ohio. Stationery. 430,065; June 3. Class 37.

Rice-Stix Dry Goods Company, St. Louis, Mo. Piece goods of cotton, silk, rayon, etc. 226,014; renewed Mar. 29, 1947. O. G. June 3. Class 42.

Riley Brothers, Kansas City, Mo. Combined high chair and stroller. 430,007; June 3; Serial No. 502,844; published Mar. 4, 1947. Class 32.

Rio Grande Valley Citrus Growers Association, to Mercedes Citrus Growers, Mercedes, Tex. Fresh citrous fruits. 226,109–10; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Ripans Chemical Co., The, New York, N. Y., to Strathmore Products Company, Englewood, N. J. Remedy for dyspepsia, billiousness, heartburn, etc. 56,465; re-renewed Sept. 25, 1946. O. G. June 3. Class 6.

Ripans Chemical Co., The, New York, N. Y., to Strathmore Products Company, Englewood, N. J. Remedy for dyspepsia, biliousness, heartburn, etc. 56,483; re-renewed Sept. 25, 1946. O. G. June 3. Class 6.

Rohm & Haas Co., Inc., to The Resinous Products & Chemical Company, Philadelphia, Pa. Synthetic or chemically-prepared resins. 225,956; renewed Mar. 29, 1947. O. G. June 3. Class 6.

Roos, Ed, Company of Forest Park, Forest Park, Ill. Cedar chests. 430,041; June 3; Serial No. 509,927; published Mar. 11, 1947. Class 32.

Royalmaid Corporation, Brooklyn, N. Y. Kitchen cabinets. 430,031; June 3; Serial No. 507,343; published Mar. 11 1947. Class 32.

Rumford Chemical Work, Providence, to Rumford Chemical Works, Rumford, R. I. Yeast-powder and baking-powder. 60,394; re-renewed Feb. 5, 1947. O. G. June 3. Class 46.

Russell Manufacturing Co., The, Alexander City, Ala. Underwear of knitted and woven fabric. 225,750; renewed Mar. 22, 1947. O. G. June 3. Class 39.

Santaella, A., & Co. Inc., Tampa, Fla. Cigars. 219,807; renewed Oct. 26, 1946. O. G. June 3. Class 17.

Sapolin Co. Inc., New York, N. Y. Floor wax, liquid wax, polishing cream, etc. 225,950; renewed Mar. 29, 1947. O. G. June 3. Class 16.

Sarna, S. S., San Francisco, Calif., to S. S. Sarna, New York, N. Y. Textile rugs, curtain table covers and bedspreads. 224,801; renewed Mar. 8, 1947. O. G. June 3. Class 42.

Satterfield, Dewey M., Parma, Ohio. Guide dogs trained to lead the blind. 430,045; June 3. Class 1.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 219,983; renewed Oct. 26, 1946. O. G. June 3. Class 39.

Schultz, Baujan & Company, Beardstown, Ill. Hard-wheat flour. 225,867; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Sealy, Incorporated, Chicago, Ill. Mattresses and box springs. 430,038; June 3; Serial No. 509,606; published Mar. 11, 1947. Class 32.

Sealy, Incorporated, Chicago, Ill. Mattresses and box springs. 430,039; June 3; Serial No. 509,608; published Mar. 11, 1947. Class 32.

Seckbach, A. M., & Co.: *See—*
Alamo Packing Co.

Shepherd Worested Mills, The, Newton, Mass. Yarns. 430,027; June 3; Serial No. 506,555; published Mar. 11, 1947. Class 43.

Sherrill, Jas. (Jim) Milton, doing business as E-Z-Way Business and Tax Record, Income Tax Service, Memphis, Tenn. Bookkeeping system comprising blank business forms. 430,058; June 3. Class 37.

Siggy Coat Co.: *See—*
Balbinder, Sigmund.

Slumber Products Corporation, Memphis, Tenn. Mattresses for beds, box springs, for beds, coil and fabric springs, etc. 430,037; June 3; Serial No. 508,748; published Mar. 11, 1947. Class 32.

Smith Bros. Hardware Company, The, Columbus, Ohio. Knives, pocket-knives, razors, etc. 61,000; re-renewed Feb. 26, 1947. O. G. June 3. Class 23.

Smith, E. T., Company, Worcester, Mass. Canned fruits and vegetables, dried fruits, spices, etc. 60,706; re-renewed Feb. 19, 1947. O. G. June 3. Class 46.

Smith, E. T., Company, Worcester, Mass. Salmon, shrimp, lobsters, etc. 61,596; re-renewed Mar. 26, 1947. O. G. June 3. Class 46.

Solari, A. M. & J., Ltd., New Orleans, La. Compound of coffee and chicory. 224,673; renewed Mar. 1, 1947. O. G. June 3. Class 46.

Sossi, John, doing business as Sossi Mfg. Co., Bayside, Long Island, N. Y. Window locks. 430,009; June 3; Serial No. 503,175; published Mar. 4, 1947. Class 25.

Sossi Mfg. Co.: *See—*
Sossi, John.

Southwest Tablet Mfg. Co., Dallas, Tex. School tablets, writing tablets, pocket notebooks, etc. 430,046; June 3. Class 37.

Stanco Incorporated: *See—*
Standard Oil Company (New Jersey).

Standard Oil Company, The: *See—*
Refiners Oil Co., The.

Standard Oil Company (New Jersey), Bayonne, N. J., to Stanco Incorporated, New York, N. Y. Insecticides, deodorants and disinfectants. 223,367; renewed Feb. 1, 1947. O. G. June 3. Class 6.

Star Oil Company, The, Chicago, Ill. Lubricating oils. 220,525; renewed Nov. 9, 1946. O. G. June 3. Class 15.

Steele, H., y Cia., S. A., Mexico City, Mexico. Jewelry for personal wear, not including watches; and sterling silver and silverplated flatware and hollow ware. 430,012; June 3; Serial No. 503,613; published Mar. 4, 1947. Class 28.

Stein, A., & Company: *See—*
Stein, A., & Co.

Stein, A., & Co., to A. Stein & Company, Chicago, Ill. Hose suporters. 61,188; re-renewed Mar. 5, 1947. O. G. June 3. Class 39.

Stevens Paper Mills, Inc., The, to The Stevens Paper Mills, Inc., Windsor, Conn. Composition board and/or paper composed of various materials. 225,581; renewed Mar. 22, 1947. O. G. June 3. Class 21.

Strathmore Paper Company: *See—*
Mittineague Paper Company.
Woronoco Paper Company.

Strathmore Products Company: *See—*
Ripans Chemical Co., The.

Sun Chemical Corporation: *See—*
Morrill, George H.
Sigmund Ullman Company.

Talbot, Martha M., doing business as Talbot Products, Detroit, Mich. Hair curlers. 430,003; June 3; Serial No. 502,239; published Mar 11, 1947. Class 40.

Talbot Products: *See—*
Talbot, Martha M.

Terra Bella Citrus Association: *See—*
Mid-California Citrus Association.

Tex-O-Kan Flour Mills Company: *See—*
Collin County Mill & Elevator Company.

Thomas Steel Company, The, Warren, Ohio. Plain cold-rolled strip steel; also zinc-coated steel, nickel-coated strip steel, etc. 430,062; June 3. Class 14.

Tigion Company, The, New York, N. Y. Stencil paper, stapling machines and staples, etc. 430,040; June 3; Serial No. 509,890; published Mar. 11, 1947. Class 37.

Treitel-Gratz Co., Inc., New York, N. Y. Beverage carts. 430,016; June 3; Serial No. 504,718; published Nov. 19, 1946. Class 32.

Tulare County Lemon & Grapefruit Association, Porterville, Calif. Fresh citrous fruits. 224,610; renewed Mar. 1, 1947. O. G. June 3. Class 46.

Tulare County Lemon & Grapefruit Association, Porterville, Calif. Fresh citrous fruits. 226,214–15; renewed Apr. 5, 1947. O. G. June 3. Class 46.

Tule River Citrus Association, Success, to Tule River Citrus Association, Porterville, Calif. Fresh citrous fruits. 226,111; renewed Mar. 29, 1947. O. G. June 3. Class 46.

Ullman, Sigmund, Company, to Sun Chemical Corporation, New York, N. Y. Printers' inks and lithographic inks. 219,033; renewed Oct. 12, 1946. O. G. June 3. Class 11.

Ultra-Life Laboratories, Inc.: *See—*
Black & White Milling Company.

United States Envelope Company, doing business as P. P. Kellogg & Co., Springfield, Mass. Correspondence paper and envelopes. 429,983; June 3; Serial No. 493,297; published Mar. 11, 1947. Class 37.

Victor X-Ray Corporation, to General Electric X-Ray Corporation, Chicago, Ill. Quartz applicators and holders, X-ray protective aprons, etc. 225,343; renewed Mar. 15, 1947. O. G. June 3. Class 44.

Vulcan Manufacturing Company, Kansas City, Mo., to The Apex Electrical Manufacturing Co., Cleveland, Ohio. Ironing machines and attachments. 219,799; renewed Oct. 26, 1946. O. G. June 3. Class 24.

Waldron & Company, Inc., Philadelphia, Pa. Finger-rings, precious stones, etc. 429,998; June 3; Serial No. 501,034; published Mar. 11, 1947. Class 28.

Wallau, Alex Lee, Inc.: *See—*
Wallau, Alexander Lee, Inc.

Wallau, Alexander Lee, Inc., to Alex Lee Wallau Inc., New York, N. Y. Hosiery. 218,166; renewed Sept. 21, 1946. O. G. June 3. Class 39.

Walzer, A. M., Company, Minneapolis, Minn. Cut out inlay puzzles. 430,069; June 3. Class 22.

Watchemoket Optical Co. Inc., Providence, R. I. Sun goggles and industrial gogles. 430,004; June 3; Serial No. 502,241; published Mar. 11, 1947. Class 26.

Wawak Co., Inc., Chicago, Ill. Woolen piece goods. 430,013; June 3; Serial No. 503,778; published Mar. 11, 1947. Class 42.

Wawak Company Inc., Chicago, Ill. Piece goods. 429,969; June 3; Serial No. 457,232; published Mar. 11, 1947. Class 42.

Wear-Ever Baby Carriage Co., Brooklyn, N. Y. Children's high chairs. 429,985; June 3; Serial No. 494,174; published Mar. 11, 1947. Class 32.

Weeks, D., & Company, to Weeks & Leo Company, Incorporated, Des Moines, Iowa. Laxative cold tablets. 218,265; renewed Sept. 21, 1946. O. G. June 3. Class 6.

Weeks & Leo Company, Incorporated: *See—*
Weeks, D., & Company.

Weiss & Bihellier, Inc., New York, N. Y. Wire connectors. 226,217; renewed Apr. 5, 1947. O. G. June 3. Class 21.

Western Cartridge Company, to Olin Industries, Inc., East Alton, Ill. Shot shells, gum wads, rifle cartridges, etc. 224,874; renewed Mar. 8, 1947. O. G. June 3. Class 9.

Westinghouse Electric Corporation: *See—*
Geller, Irving.

Whitewater Raincoat Company, Whitewater, Wis. Raincoats, rainhats, rainjackets, etc. 430,043; June 3. Class 39.

Whiting-Adams Company, Inc.: *See—*
Whiting, John L., & Son Co.

Whiting, John L., & Son Co., to Whiting-Adams Company, Inc., Boston, Mass. Brushes of all kinds. 52,838; re-renewed May 22, 1946. O. G. June 3. Class 29.

Williamson Candy Company, Chicago, Ill. Candy confection. 224,744; renewed Mar. 1, 1947. O. G. June 3. Class 46.

Wilson Sporting Goods Co.: *See—*
Wilson-Western Sporting Goods Company.

Wilson-Western Sporting Goods Company, to Wilson Sporting Goods Co., Chicago, Ill. Baseball bats. 219,081; renewed Oct. 12, 1946. O. G. June 3. Class 22.

Wilson-Western Sporting Goods Company, to Wilson Sporting Goods Co., Chicago, Ill. Tennis rackets. 219,150; renewed Oct. 12, 1946. O. G. June 3. Class 22.

Winthrop Chemical Company, Inc.: *See—*
Farbenfabriken vorm. Friedr. Bayer & Co.

Winthrop Chemical Company, Inc., to Winthrop Chemical Company, Inc., New York, N. Y. Medicinal preparation. 226,372–3; renewed Apr. 5, 1947. O. G. June 3. Class 6.

Woronoco Paper Company, Woronoco, to Strathmore Paper Company, West Springfield, Mass. All kinds of fine writing-paper. 59,010; re-renewed Dec. 25, 1946. O. G. June 3. Class 37.

Wrenn Paper Company, The, Middletown, Ohio. Blotting paper. 223,321; renewed Feb. 1, 1947. O. G. June 3. Class 37.

Youngfurs Inc., New York, N. Y. Girls', juniors', and misses' and women's fur coats, fur jackets, fur scarfs, etc. 430,067; June 3. Class 39.

Yu-Chu Company, Newark, N. J. Chewing gum, salted and candy-coated peanuts. 218,530; renewed Sept. 28, 1946. O. G. June 3. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Berwind White Coal Mining Company. 60,916; re-renewed Feb. 26, 1947. O. G. June 3.

Coal. C. N. Blanchard. 224,931; renewed Mar. 8, 1947. O. G. June 3.

Dogs trained to lead the blind, Guide. D. M. Satterfield. 430,045; June 3.

Granite, Uncut. Cold Spring Granite Company. 225,720; renewed Mar. 22, 1947. O. G. June 3.

Pelts, Mink. Mutation Mink Breeders Association. 429,974; June 3; Serial No. 483,435; published Mar. 11, 1947.

Plastic materials and synthetic resins. Celluplastic Corporation. 430,002; June 3; Serial No. 502,061; published Mar. 11, 1947.

Sawdust and shavings. National Sawdust Co., Inc. 226,305; renewed Apr. 5, 1947. O. G. June 3.

CLASS 2

Cups, Paper. Continental Can Company, Inc. 430,044; June 3.

CLASS 3

Mats, Dog. C. F. Hooton. 430,061; June 3.

CLASS 4

Detergents. Hanson & Van Winkle Co. 58,061; re-renewed Dec. 4, 1946. O. G. June 3.

Soaps. Joseph Gutradt Company. 225,947; renewed Mar. 29, 1947. O. G. June 3.

CLASS 6

Chemicals. B. F. Goodrich Company. 221,908; renewed Dec. 14, 1946. O. G. June 3.

Cold tablets, Laxative. D. Weeks & Company. 218,265; renewed Sept. 21, 1946. O. G. June 3.

Cream, talcum powder, tooth paste, etc., Skin. Noxzema Chemical Co. 225,012; renewed Mar. 8, 1947. O. G. June 3.

Insecticides, deodorants, and disinfectants. Standard Oil Company (New Jersey). 223,367; renewed Feb. 1, 1947. O. G. June 3.

Iodids, Substitutes for. Farbenfabriken vorm. Friedr. Bayer & Co. 61,730; re-renewed Apr. 2, 1947. O. G. June 3.

Medicinal preparation. Eli Lilly and Company. 225,344; renewed Mar. 15, 1947. O. G. June 3.

Medicinal preparation. Winthrop Chemical Company, Inc. 226,372–3; renewed Apr. 5, 1947. O. G. June 3.

Medicinal preparation. S. Pfeiffer Mfg. Co. 225,919; renewed Mar. 29, 1947. O. G. June 3.

Perfume, toilet water, lotion eau vegetale, etc. Houbigant, Inc. 226,004; renewed Mar. 29, 1947. O. G. June 3.

Pharmaceutical preparations. McKesson & Robbins. 50,752; re-renewed Mar. 27, 1946. O. G. June 3.

Pigment coloring material. Excelso Products Company. 225,941; renewed Mar. 29, 1947. O. G. June 3.

Pills. Radway & Company. 61,759; re-renewed Apr. 2, 1947. O. G. June 3.

Powdered substance for removing the dross from old molten type or linotype metal. Mergenthaler Linotype Co. 59,264; re-renewed Jan. 1, 1947. O. G. June 3.

Remedy for corns, calli, and bunions. Corn Fix Co., Inc. 226,256; renewed Apr. 5, 1947. O. G. June 3.

Remedy for dyspepsia, biliousness, heartburn, etc. Ripans Chemical Co. 56,465; re-renewed Sept. 25, 1946. O. G. June 3.

Remedy for dyspepsia, biliousness, heartburn, etc. Ripans Chemical Co. 56,483; re-renewed Sept. 25, 1946. O. G. June 3.

Resins, Synthetic or chemically-prepared. Rohm & Haas Co., Inc. 225,956; renewed Mar. 29, 1947. O. G. June 3.

Salves. Bickmore Company. 221,856; renewed Dec. 14, 1946. O. G. June 3.

Salves, Healing veterinary. Bickmore Company. 221,703; renewed Dec. 7, 1946. O. G. June 3.

CLASS 8

Cigarette cases not made of precious or semi-precious metal. Esquire Manufacturing Co., Inc. 430,047; June 3.

Cigarette cases of plastic material. B. A. Foster. 430,049; June 3.

CLASS 9

Shot shells, gum wads, rifle cartridges. Western Cartridge Company. 224,874; renewed Mar. 8, 1947. O. G. June 3.

CLASS 11

Ink, Half-tone. George H. Morrill Company. 222,420; renewed Jan. 4, 1947. O. G. June 3.

Inks and lithographic inks, Printers'. Sigmund Ullman Company. 219,033; renewed Oct. 12, 1946. O. G. June 3.

CLASS 12

Blocks, Concrete building. Heisen, Cole and Company. 430,072; June 3.

Brick. Acme Brick Company. 223,077 ; renewed Jan. 18, 1947. O. G. June 3.

Cement-stucco finish coat, etc., Exterior and interior colored. California Stucco Products Co. 220,137 ; renewed Nov. 2, 1946. O. G. June 3.

Cements. Certain-teed Products Corporation. 429,972 ; June 3 ; Serial No. 470,409 ; published Mar. 11, 1947.

Granite, Cut. Cold Spring Granite Company. 224,926 ; renewed Mar. 8, 1947. O. G. June 3.

Insulating material, Thermal. Insul-Wool Insulation Corporation. 430,024 ; June 3 ; Serial No. 506,033 ; published Mar. 11, 1947.

Roofing, siding, and sheathing, etc., Roll. Certain-teed Products Corporation. 429,970–1 ; June 3 ; Serial Nos. 470,407–8 ; published Mar. 11, 1947.

Wall board, gypsum board, gypsum plaster, etc., Fiber. Beaver Products Company, Inc. 221, 037 ; renewed Nov. 23, 1946. O. G. June 3.

CLASS 13

Steam-regulating devices, steam-pumps, and steam-engines. Mason Regulator Co. 58,494 ; re-renewed Dec. 18, 1946. O. G. June 3.

Valves, Back pressure relief. Grove Regulator Company. 430,056 ; June 3.

CLASS 14

Steel, also zinc-coated strip steel, nickel-coated strip steel, etc., Plain cold-rolled strip. Thomas Steel Company. 430,062 ; June 3.

Welding rods, Metal alloy. Resisto-Loy Company. 429,994 ; June 3 ; Serial No. 498,457 ; published Jan. 7, 1947.

CLASS 15

Oils and greases and gasoline, Lubricating. Refiners Oil Co. 224,832 ; renewed Mar. 8, 1947. O. G. June 3.

Oils, Lubricating. Star Oil Company. 220,525 ; renewed Nov. 9, 1946. O. G. June 3.

Oils, Specially treated motor lubricating. Atlantic Refining Company. 220,489 ; renewed Nov. 9, 1946. O. G. June 3.

CLASS 16

Wax, liquid wax, polishing cream, etc., Floor. Sapolin Co. Inc. 225,950 ; renewed Mar. 29, 1947. O. G. June 3.

CLASS 17

Cigarettes, smoking tobacco, chewing tobacco, and snuff. Brown & Williamson Tobacco Corporation. 429,990 ; June 3 ; Serial No. 496,422 ; published Dec. 24, 1946.

Cigars. A. Santaella & Co. Inc. 219,807 ; renewed Oct. 26, 1946. O. G. June 3.

CLASS 21

Board and/or paper composed of various materials, Composition. Stevens Paper Mills, Inc. 225,581 ; renewed Mar. 22, 1947. O. G. June 3.

Connecters, Wire. Weiss & Biheller, Inc. 226,217 ; renewed Apr. 5, 1947. O. G. June 3.

Electrical connecting devices. Electric Company. 225,544 ; renewed Mar. 22, 1947. O. G. June 3.

Radio receiving and/or transmitting sets, television receiving and sending apparatus, etc. I. Geller. 429,977 ; June 3 ; Serial No. 487,613 ; published May 14, 1946.

Radio receiving sets. Midwest Laboratories, Inc. 430,025 ; June 3 ; Serial No. 506,548 ; published Feb. 25, 1947.

Radio transmitting and/or receiving sets and parts thereof, Aircraft. D. A. Marcus. 430,053 ; June 3.

CLASS 22

Baseball bats. Wilson-Western Sporting Goods Company. 219,081 ; renewed Oct. 12, 1946. O. G. June 3.

Carrousels, coaster cars, coaster structures, etc. Philadelphia Toboggan Company. 218,405 ; renewed Sept. 28, 1946. O. G. June 3.

Golf clubs and putter heads. Lilac Bros. Gold Club Repair Shop. 430,060 ; June 3.

Nose clips. Health-O-Swim Nose Clip Co. 430,071 ; June 3.

Puzzles, Cut out inlay. A. M. Walzer Company. 430,069 ; June 3.

Tennis balls, hand balls, toy play balls, etc. Pennsylvania Rubber Company. 430,048 ; June 3.

Tennis rackets. Wilson-Western Sporting Goods Company. 219,150 ; renewed Oct. 12, 1946. O. G. June 3.

CLASS 23

Ball bearings. Ahlberg Bearing Company. 220,027 ; renewed Oct. 26, 1946. O. G. June 3.

Bearings and parts of bearings and accessories of bearings. A. Kingsbury. 222,918 ; renewed Jan. 11, 1947. O. G. June 3.

Bearings and parts of bearings and accessories of bearings. Kingsbury Machine Works, Inc. 223,397 ; renewed Feb. 1, 1947. O. G. June 3.

Knives, pocket-knives, razors, etc. Smith Bros. Hardware Company. 61,000 ; re-renewed Feb. 26, 1947. O. G. June 3.

Metal-drilling machines. Cincinnati Bickford Tool Company. 216,412 ; renewed Aug. 10, 1946. O. G. June 3.

Steam-regulating devices, steam-pumps, and steam-engines. Mason Regulator Co. 58,494 ; re-renewed Dec. 18, 1946. O. G. June 3.

CLASS 24

Apparatus, electrically operated, for drying and heating towels and clothes. John A. Grey & Partners Limited. 430,011 ; June 3 ; Serial No. 503,442 ; published Mar. 11, 1947.

Ironing machines and attachments. Vulcan Manufacturing Company. 219,799 ; renewed Oct. 26, 1946. O. G. June 3.

CLASS 25

Locks, Window. J. Sossi. 430,009 ; June 3 ; Serial No. 503,175 ; published Mar. 4, 1947.

CLASS 26

Frames and sunglasses, Optical. Marine Optical Mfg. Co. 430,022 ; June 3 ; Serial No. 505,905 ; published Mar. 11, 1947.

Goggles and industrial goggles, Sun. Watchemoket Optical Co. Inc. 430,004 ; June 3 ; Serial No. 502,241 ; published Mar. 11, 1947.

Photographic exposure meters. Dejur-Amsco Corporation. 430,021 ; June 3 ; Serial No. 505,738 ; published Mar. 11, 1947.

Photographic objectives. B. Chadkin. 430,026 ; June 3 ; Serial No. 506,368 ; published Mar. 11, 1947.

Spirit levels. Mayes Brothers Tool Manufacturing Company, Inc. 226,175 ; renewed Apr. 5, 1947. O. G. June 3.

Steam-regulating devices, steam-pumps, and steam-engines. Mason Regulator Co. 58,494 ; re-renewed Dec. 18, 1946. O. G. June 3.

CLASS 27

Clocks, watches, and parts thereof. New Haven Clock Company. 430,000 ; June 3 ; Serial No. 501,265 ; published Mar. 11, 1947.

Clocks, watches, and parts thereof. New Haven Clock Company. 430,005 ; June 3 ; Serial No. 502,316 ; published Mar. 11, 1947.

Clocks, watches, and parts thereof. New Haven Clock Company. 430,006 ; June 3 ; Serial No. 502,396 ; published Mar. 11, 1947.

Watches and watch movements. Compagnie des montres Ardath, Dreyfuss & Cie (Ardath Watch Co. Dreyfuss & Co.). 429,973 ; June 3 ; Serial No. 481,101 ; published Mar. 4, 1947.

CLASS 28

Badges, lapel buttons, scarf, lapel and breast pins, etc., Fraternity. Delta Delta Delta. 223,230 ; renewed Jan. 25, 1947. O. G. June 3.

Bracelets, ornamental pins, ear-rings, etc. Fortress Watch & Jewelry Co. Inc. 429,995 ; June 3 ; Serial No. 498,614 ; published Mar. 11, 1947.

Buckles, tie bars, collar bars, etc., Belt. S. Buchsbaum & Co. 429,979 ; June 3 ; Serial No. 489,559 ; published May 28, 1946.

Flatware, hollowware and cutlery, Sterling silver. Alvin Corporation. 430,018 ; June 3 ; Serial No. 504,957 ; published Mar. 11, 1947.

Flatware, hollowware and cutlery, Sterling silver. Gorham Manufacturing Company. 430,019 ; June 3 ; Serial No. 504,973 ; published Mar. 11, 1947.

Jewelry and jewelry novelties. Kerco Jewellry Limited. 429,978 ; June 3 ; Serial No. 488,535 ; published Mar. 4, 1947.

Jewelry, Costume. David Grad Company. 429,988 ; June 3 ; Serial No. 495,733 ; published Mar. 4, 1947.

Jewelry for personal wear, not including watches ; and sterling silver and silverplated flatware and hollow ware. H. Steele y Cia., S. A. 430,012 ; June 3 ; Serial No. 503,613 ; published Mar. 4, 1947.

Finger-rings, precious stones, etc. Waldron & Company, Inc. 429,998 ; June 3 ; Serial No. 501,034 ; published Mar. 11, 1947.

Rings, Finger. David Karp Company. 430,015 ; June 3 ; Serial No. 504,367 ; published Mar. 11, 1947.

Tableware, Silverplated flat. Oneida Ltd. 430,017 ; June 3 ; Serial No. 504,784 ; published Mar. 4, 1947.

Tableware, Silverplated flat. Oneida Ltd. 430,023 ; June 3 ; Serial No. 505,938 ; published Mar. 4, 1947.

CLASS 29

Brooms. Hartman Broom Company. 430,020 ; June 3 ; Serial No. 504,978 ; published Mar. 11, 1947.

Brushes of all kinds. John L. Whiting & Son Co. 52,838 ; re-renewed May 22, 1946. O. G. June 3.

Brushes, Paint. Art & Sign Brush Manufacturing Corporation. 430,010 ; June 3 ; Serial No. 503,339 ; published Mar. 11, 1947.

Wipers of squeegee type, Windshield. American Bosch Magneto Corporation. 226,400 ; renewed Apr. 5, 1947. O. G. June 3.

CLASS 32

Bedding, Articles of. S. Kaplan. 429,976 ; June 3 ; Serial No. 487,328 ; published Mar. 11, 1947.

Blinds and parts thereof, Venetian. Columbia Mills, Inc. 429,996 ; June 3 ; Serial No. 499,047 ; published Feb. 25, 1947.

Cabinets, Kitchen. Royalmaid Corporation. 430,031 ; June 3 ; Serial No. 507,343 ; published Mar. 11, 1947.

Carts, Beverage. Treitel-Gratz, Inc. 430,016 ; June 3 ; Serial No. 504,718 ; published Nov. 19, 1946.

Chair and stroller, Combined high. Riley Brothers. 430,007 ; June 3 ; Serial No. 502,844 ; published Mar. 4, 1947.

Chairs, breakfast sets, etc., Household. W. C. Dinges. 430,029 ; June 3 ; Serial No. 507,112 ; published Mar. 4, 1947.

Chairs, Children's high. Wear-Ever Baby Carriage Co. 429,985 ; June 3 ; Serial No. 494,174 ; published Mar. 11, 1947.

Chests, Cedar. Ed Roos Company of Forest Park. 430,041 ; June 3 ; Serial No. 509,927 ; published Mar. 11, 1947.

Clothes stands, Folding. H. J. Dery. 429,997 ; June 3 ; Serial No. 499,212 ; published Feb. 25, 1947.

Costumers and hat racks. B. Asquith. 430,042 ; June 3 ; Serial No. 510,561 ; published Mar. 11, 1947.

Dinette sets, Collapsible. R. H. Howell. 429,987 ; June 3 ; Serial No. 494,846 ; published Feb. 18, 1947.

Drawing-tables and filing-cases. R. G. Manning. 59,036 ; re-renewed Jan. 1, 1947. O. G. June 3.

Furniture, All types of bedroom, dining room and living room. Affiliated Retailers, Inc. 430,054–5 ; June 3.

Furniture, Metal. H. Hallet. 429,986 ; June 3 ; Serial No. 494,446 ; published Mar. 11, 1947.

Furniture, Nursery. Baby Vanity Company. 430,050 ; June 3.

Furniture, Upholstered. Company of Master Craftsmen, Inc. 429,992–3 ; June 3 ; Serial Nos. 498,206–7 ; published Mar. 11, 1947.

Mattresses and box springs. Sealy, Incorporated. 430,038 ; June 3 ; Serial No. 509,606 ; published Mar. 11, 1947.

Mattresses and box springs. Sealy, Incorporated. 430,039 ; June 3 ; Serial No. 509,608 ; published Mar. 11, 1947.

Mattresses, beds, studio couches, etc. Gold Cross Mattress Corp. 430,036 ; June 3 ; Serial No. 508,688 ; published Mar. 11, 1947.

Mattresses, box springs, and studio couches. Champion Bedding Company. 429,991 ; June 3 ; Serial No. 497,647 ; published Feb. 11, 1947.

Mattresses for beds, box springs for beds, coil and fabric springs, etc. Slumber Products Corporation. 430,037 ; June 3 ; Serial No. 508,748 ; published Mar. 11, 1947.

Racks, card tables and occasional tables, Magazine. Bergen Machine & Tool Company, Inc. 429,989 ; June 3 ; Serial No. 496,128 ; published Mar. 11, 1947.

Seats and back rests of the sporting furniture type. Curran Cushion & Textile Co. 429,980 ; June 3 ; Serial No. 490,294 ; published Mar. 4, 1947.

Shades and (porch) shades, Window. Columbia Mills, Inc. 430,064 ; June 3.

Shades and porch shades, Window. Columbia Mills, Inc. 430,066 ; June 3.

Table and chairs, Unit-combination dining. Little Rock Restaurant Supply Company. 430,008 ; June 3 ; Serial No. 502,989 ; published Mar. 11, 1947.

Telephone stands. E. R. Bachmann. 429,984 ; June 3 ; Serial No. 493,723 ; published Feb. 25, 1947.

CLASS 34

Burners, Oil. May Oil Burner Corporation. 223,793 ; renewed Feb. 8, 1947. O. G. June 3.

Furnaces. Farquhar Furnace Company. 225,522 ; renewed Mar. 22, 1947. O. G. June 3.

Heaters, Gas-fired water. M. G. Burwell. 430,073 ; June 3.

CLASS 37

Bookkeeping system comprising blank business forms. Jas. (Jim) Milton Sherrill. 430,058 ; June 3.

Crayons. American Crayon Company. 226,290 ; renewed Apr. 5, 1947. O. G. June 3.

Paper and envelopes, Correspondence. United States Envelope Company. 429,983 ; June 3 ; Serial No. 493,297 ; published Mar. 11, 1947.

Paper, Blotting. Wrenn Paper Company. 223,321 ; renewed Feb. 1, 1947. O. G. June 3.

Paper in sheets and rolls. Falcon Products, Inc. 429,999 ; June 3 ; Serial No. 501,249 ; published Mar. 11, 1947.

Paper, paper for covers of pamphlets, and catalogues, etc., Writing, drawing, and book. Mittineague Paper Company. 57,915–16 ; re-renewed Dec. 4, 1946. O. G. June 3.

Paper, stapling machines and staples, etc., Stencil. Tiglon Company. 430,040 ; June 3 ; Serial No. 509,890 ; published Mar. 11, 1947.

Pen points. Moore Pen Company. 224,526 ; renewed Mar. 1, 1947. O. G. June 3.

Pens and penholders and lead-pencils. Eberhard Faber. 60,457 ; re-renewed Feb. 12, 1947. O. G. June 3.

Pens, Fountain. Eversharp, Inc. 430,059 ; June 3.

Stationery. Reynolds & Reynolds Company. 430,065 ; June 3.

Stencils, styli, correction fluid, etc. Red Feather Products Ltd. 429,975 ; June 3 ; Serial No. 485,545 ; published Mar. 11, 1947.

Tablets, writing tablets, pocket notebooks, etc., School. Southwest Tablet Mfg. Co. 430,046 ; June 3.

Writing-paper, All kinds of fine. Woronoco Paper Company. 59,010 ; re-renewed Dec. 25, 1946. O. G. June 3.

CLASS 38

Publication distributed as a house organ. American Thermos Bottle Company. 224,048 ; renewed Feb. 15, 1947. O. G. June 3.

CLASS 39

Clothing. Pendleton Woolen Mills. 223,598 ; renewed Feb. 8, 1947. O. G. June 3.

Clothing. Pendleton Woolen Mills. 224,189 ; renewed Feb. 22, 1947. O. G. June 3.

Clothing ; children's play suits, Men's. Cohn-Goldwater Mfg. Co. 225,768 ; renewed Mar. 22, 1947. O. G. June 3.

Coats, fur jackets, fur scarfs, etc., Girl's, juniors', and misses' and women's fur. Youngfurs Inc. 430,067 ; June 3.

Coats, Ladies' and misses'. S. Balbinder. 430,057 ; June 3.

Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 219,983 ; renewed Oct. 26, 1946. O. G. June 3.

Corsets, brassières, girdles, etc. Powell Corset Company. 224,499 ; renewed Mar. 1, 1947. O. G. June 3.

Dresses. Max Levine & Co. 225,202 ; renewed Mar. 15, 1947. O. G. June 3.

Fur neck pieces and fur coats, Women's and children's. B. Kalish. 225,788 ; renewed Mar. 22, 1947. O. G. June 3.

Gloves and mittens, Fabric. Boss Manufacturing Company. 225,714 ; renewed Mar. 22, 1947. O. G. June 3.

Hats and caps. New York Hat Stores, Inc. 221,902 ; renewed Dec. 14, 1946. O. G. June 3.

Hats and caps. New York Hat Stores, Inc. 223,647 ; renewed Feb. 8, 1947. O. G. June 3.

Hose supporters. A. Stein & Co. 61,188 ; re-renewed Mar. 5, 1947. O. G. June 3.

Hosiery. Alexander Lee Wallau, Inc. 218,166 ; renewed Sept. 21, 1946. O. G. June 3.

Outerwear, Knitted. New York Knitting Mills. 429,981 ; June 3 ; Serial No. 491,113 ; published Aug. 20, 1946.

Pajamas, negligee shirts, undershirts, etc. American Cellulose & Chemical Manufacturing Company, Ltd. 226,304 ; renewed Apr. 5, 1947. O. G. June 3.

Raincoats, rainhats, rainjackets, etc. Whitewater Raincoat Company. 430,043 ; June 3.

Shirts, Work. Reed Brothers, Inc. 226,191 ; renewed Apr. 5, 1947. O. G. June 3.

Shoes constructed of leather, rubber, or fabric, Children's. Gilbert Shoe Co. 223,941 ; renewed Feb. 15, 1947. O. G. June 3.

Suits, trousers, vests, etc. Knickerbocker Clothing Company. 225,699 ; renewed Mar. 22, 1947. O. G. June 3.

Underwear of knitted and woven fabric. Russell Manufacturing Co. 225,750 ; renewed Mar. 22, 1947. O. G. June 3.

CLASS 40

Hair curlers. M. M. Talbot. 430,003 ; June 3 ; Serial No. 502,239 ; published Mar. 11, 1947.

Hooks and knitting needles, Crochet. C. J. Bates & Son. 430,028 ; June 3 ; Serial No. 506,917 ; published Mar. 11, 1947.

Hooks and knitting needles, Crochet. C. J. Bates & Son. 430,063 ; June 3.

Hooks and knitting needles, Crochet. C. J. Bates & Son. 430,068 ; June 3.

Straps, leather chains, leather watch fobs, Leather watch. Aristocrat Leather Products, Inc. 429,982 ; June 3 ; Serial No. 492,123 ; published Aug. 20, 1946.

Straps, Watch. Gruen Watch Company. 430,030 ; June 3 ; Serial No. 507,253 ; published Mar. 11, 1947.

CLASS 42

Blankets, Wool. Henry Lewis & Co., Inc. 430,070 ; June 3.

Knitted, netted, and textile fabrics. American Cellulose & Chemical Manufacturing Company, Ltd. 225,285–6 ; renewed Mar. 15, 1947. O. G. June 3.

Piece goods. Wawak Company Inc. 429,969 ; June 3 ; Serial No. 457,232 ; published Mar. 11, 1947.

Piece goods of cotton, silk, rayon, etc. Rice-Stix Dry Goods Company. 226,014 ; renewed Mar. 29, 1947. O. G. June 3.

Rugs, curtain table covers and bedspreads, Textile. S. S. Sarna. 224,801 ; renewed Mar. 8, 1947. O. G. June 3.

Sheetings and shirtings. Monohansett Mfg. Co. 58,866 ; re-renewed Dec. 25, 1946. O. G. June 3.

Textile blankets. Pendleton Woolen Mills. 223,756 ; renewed Feb. 8, 1947. O. G. June 3.

Textile fabrics in the piece. Concordia-Gallia Corp. 430,014 ; June 3 ; Serial No. 503,870 ; published Mar. 11, 1947.

Towels and face cloths, Face and bath. Pacific Mills. 430,001; June 3; Serial No. 501,403; published Mar. 4, 1947.
Woolen and worsted piece goods. Anglo Fabrics Company. 430,051–2; June 3.
Woolen piece goods. Wawak Co., Inc. 430,013; June 3; Serial No. 503,778; published Mar. 11, 1947.

CLASS 43

Spool-cotton and thread. American Thread Company. 59,654–5; re-renewed Jan. 15, 1947. O. G. June 3.
Spool-cotton and thread. American Thread Company. 59,686; re-renewed Jan. 15, 1947. O. G. June 3.
Spool-cotton and thread. American Thread Company. 59,867; re-renewed Jan. 22, 1947. O. G. June 3.
Spool-cotton, sewing-cotton, and thread. American Thread Company. 59,371–2; re-renewed Jan. 8, 1947. O. G. June 3.
Spool-cotton, sewing-cotton, and thread. American Thread Company. 59,687–8; re-renewed Jan. 15, 1947. O. G. June 3.
Spool-cotton, sewing-cotton, and thread. American Thread Company. 59,690–1; re-renewed Jan. 15, 1947. O. G. June 3.
Spool-cotton, sewing-cotton, and thread. American Thread Company. 59,846; re-renewed Jan. 22, 1947. O. G. June 3.
Yarn, Knitting. Patons & Baldwins, Inc. 430,033–5; June 3; Serial No. 507,926–8; published Mar. 11, 1947.
Yarns. Celanese Corporation of America. 430,032; June 3; Serial No. 507,457; published Mar. 11,
Yarns. Shepherd Worsted Mills. 430,027; June 3; Serial No. 506,555; published Mar. 11, 1947.

CLASS 44

Apparatus for examination of the blood, the stomach, and the urine, etc. Kny-Scheerer Company. 61,298; re-renewed Mar. 12, 1947. O. G. June 3.
Applicators and holders, X-ray protective aprons, etc., Quartz. Victor X-Ray Corporation. 225,343; renewed Mar. 15, 1947. O. G. June 3.
Surgical knives and parts thereof. Gillette Safety Razor Company. 226,344; renewed Apr. 5, 1947. O. G. June 3.
X-ray apparatus, Stationary and portable. Picker X-Ray Corporation, Waite Manufacturing Division, Inc. 430,074; June 3.

CLASS 45

Mineral-spring water. J. W. Johnson. 220,936; renewed Nov. 16, 1946. O. G. June 3.

CLASS 46

Candles. J. N. Collins Company. 226,121; renewed Mar. 29, 1947. O. G. June 3.
Candy bars, Chocolate-covered. Federal Sweets & Wafer Co., Inc. 225,238; renewed Mar. 15, 1947. O. G. June 3.
Candy confection. Williamson Candy Company. 224,744; renewed Mar. 1, 1947. O. G. June 3.
Canned fruit and vegetables. J. F. Humphreys & Co. 56,961; re-renewed Oct. 30, 1946. O. G. June 3.
Canned fruits and vegetables, dried fruits, spices, etc. E. T. Smith Company. 60,706; re-renewed Feb. 19, 1947. O. G. June 3.
Canned pineapple. Kauai Fruit & Land Co. Ltd 225,156–7; renewed Mar. 15, 1947. O. G. June 3.
Cereals and cereal products. Black & White Milling Company. 224,731; renewed Mar. 1, 1947. O. G. June 3.
Cheese. Phenix Cheese Corporation. 222,918; renewed Jan. 11, 1947. O. G. June 3.
Chewing gum, salted and candy-coated peanuts. Yu-Chu Company. 218,530; renewed Sept. 28, 1946. O. G. June 3.
Coffee and chicory, Compound of. A. M. & J. Solari, Ltd. 224,673; renewed Mar. 1, 1947. O. G. June 3.
Feed, stock feed, and dairy feed, Poultry. Northrup, King & Company. 226,053; renewed Mar. 29, 1947. O. G. June 3.
Flour, Hard-wheat. Schultz, Baujan & Company. 225,867; renewed Mar. 29, 1947. O. G. June 3.
Flour, Pancake. Hecker-Jones-Jewell Milling Company. 207,047; renewed Dec. 15, 1945. O. G. June 3.
Fruits, Fresh citrous. Chula Vista Citrus Association. 226,006; renewed Mar. 29, 1947. O. G. June 3.
Fruits, Fresh citrous. Chula Vista Citrus Association. 226,380; renewed Apr. 5, 1947. O. G. June 3.
Fruits, Fresh citrous. El Cajon Valley Citrus Association. 226,008; renewed Mar. 29, 1947. O. G. June 3.
Fruits, Fresh citrous. El Cajon Valley Citrus Association. 226,017; renewed Mar. 29, 1947. O. G. June 3.
Fruits, Fresh citrous. Lindsay District Orange Company. 226,347; renewed Apr. 5, 1947. O. G. June 3.
Fruits, Fresh citrous. Mid-California Citrus Association. 226,019; renewed Mar. 29, 1947. O. G. June 3.
Fruits, Fresh citrous. Rio Grande Valley Citrus Growers Association. 226,109–10; renewed Mar. 29, 1947. O. G. June 3.
Fruits, Fresh citrous. Tulare County Lemon & Grapefruit Association. 224,610; renewed Mar. 1, 1947. O. G. June 3.
Fruits, Fresh citrous. Tulare County Lemon & Grapefruit Association. 226,214–15; renewed Apr. 5, 1947. O. G. June 3.
Fruits, Fresh citrous. Tule River Citrus Association. 226,111; renewed Mar. 29, 1947. O. G. June 3.
Fruits, Fresh deciduous. W. Ray Chandler. 226,119; renewed Mar. 29, 1947. O. G. June 3.
Fruits, Fresh deciduous. Arrow Packing Co. 226,104–5; renewed Mar. 29, 1947. O. G. June 3.
Salmon, shrimp, lobsters, etc. E. T. Smith Company. 61,596; re-renewed Mar. 26, 1947. O. G. June 3.
Vegetables, Fresh. Alamo Packing Co. 207,326; renewed Dec. 29, 1945. O. G. June 3.
Wheat-flour. Collin County Mill & Elevator Company. 52,194; re-renewed May 1, 1946. O. G. June 3.
Yeast-powder and baking-powder. Rumford Chemical Works. 60,394; re-renewed Feb. 5, 1947. O. G. June 3.

CLASS 48

Ale, beer, porter, etc. Narragansett Brewing Company. 59,413; re-renewed Jan. 8, 1947. O. G. June 3.
Malt sirups, extracts. V. Neustadtl. 219,767; renewed Oct. 26, 1946. O. G. June 3.

CLASS 49

Whisky. F. C. Renziehausen. 61,688; re-renewed Apr. 2, 1947. O. G. June 3.

CLASS 50

Shoe trees and fillers. Cordo-Hyde Company. 226,360; renewed Apr. 5, 1947. O. G. June 3.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ayers, Joseph W., Easton, Pa., assignor to Phillips Petroleum Company, Bartlesville, Okla. Manufacture of amorphous carbon. Re. 22,886; June 3.
Hooker Electrochemical Company, assignee: *See*—
  Spence, Harry R., and Hooker.
Hooker, Horace W.: *See*—
  Spence, Harry R., and Hooker.
Phillips Petroleum Company, assignee: *See*—
  Ayers, Joseph W.
Spence, Harry R., and H. W. Hooker, Lewiston, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Removing oxide from the surface of metals. Re. 22,887; June 3.

LIST OF DESIGN PATENTEES

Albrecht, G. F., assignee et al.: *See*—
  Brickson, Obert H.
Albrecht, P. K., assignee, et al.: *See*—
  Brickson, Obert H.
Anderson, Olof V., Cowesett, R. I. Tie holder. 146,842; June 3.
Anderson, Olof V., Cowesett, R. I. Tie holder. 146,843; June 3.
Arpels, Claude, New York, N. Y. Jewelry finding. 146,844; June 3.
Bach, Alfons, Stamford, Conn., assignor to National Manufacturing Corporation, New York, N. Y. Kitchen table. 146,845; June 3.
Bach, Alfons, Stamford, Conn., assignor to National Manufacturing Corporation, New York, N. Y. Kitchen table. 146,846; June 3.
Bendix Aviation Corporation, assignee: *See*—
  Burton, Frank C.
Bonkiewicz, Joseph S., Jr.: *See*—
  Tullgren, Lester C., and Bonkiewicz.
Braeman, Aaron, Minneapolis, Minn. Combination automobile and airplane. 146,847; June 3.
Brickson, Obert H., assignor of one-third to G. F. Albrecht, one-third to P. K. Albrecht, and one-third to A. A. Kreutzer, Madison, Wis. Milk truck or similar article. 146,848; June 3.
Burton, Frank C., Grand Rapids, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio cabinet or the like. 146,849; June 3.
Chazin, Louis, Brooklyn, N. Y. Table caster. 146,850; June 3.
Chernow, Michael, New York, N. Y. Earring or similar article. 146,851; June 3.
Chernow, Michael, New York, N. Y. Jewelry finding. 146,852; June 3.
Chicago Printed String Co., assignee: *See*—
  Olsen, Clarence S.
Coro, Inc.: *See*—
  Katz, Adolph.
Farbstein, Sydney, Union, N. J. Bottle stopper. 146,853; June 3.
Fournier, George E., Pawtucket, R. I. Link chain for a bracelet or similar article. 146,854; June 3.
Frascino, Mario, New York, N. Y. Coat. 146,855; June 3.
Freedman, Jules, New York, N. Y. Coat. 146,856; June 3.
Goldstein, Irving, New York, N. Y. Coat. 146,857; June 3.
Grant, Delbert D., assignee, et al.: *See*—
  Miller, Arthur G.
Hankins, Robert L., assignee: *See*—
  Maxwell, William.
Karstadt, Clarence, Glen Ellyn, Ill., assignor to Noblitt-Sparks Industries, Incorporated, Columbus, Ind. Electric iron. 146,858; June 3.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet. 146,859; June 3.
Kluge, Myron E., Los Angeles, Calif. Radio transmitter cabinet. 146,860; June 3.
Kneeland, Lena B., Kenmore, N. Y. Combined infant wardrobe and bath unit. 146,861; June 3.
Kreutzer, A. A., assignee, et al.: *See*—
  Brickson, Obert H.
Lewis, Benjamin, New York, N. Y., assignor to L. Rothchild, Dallas, Tex. Bottle. 146,862; June 3.
Lowell, Benjamin W., Jr., Richmond Heights, Mo. Speaker housing. 146,863; June 3.
Madsen, Paul S.: *See*—
  Manville, Charles T., and Madsen.
Manville, Charles T., Woodbury, and P. S. Madsen, Bethany, assignors to The Seamless Rubber Company, New Haven, Conn. Bath spray head. 146,864; June 3.
Maxwell, William, Hawthorne, Calif., assignor of one-half to R. L. Hankins. Bassinet. 146,865; June 3.
Mellor, Adrien R., Loma Linda, Calif. Smoking pipe. 146,866; June 3.
Miller, Arthur G., assignor of one-third to D. D. Grant and one-third to J. W. Miller, Long Beach, Calif. Lamp or similar article. 146,867; June 3.
Miller, Johnnie W., assignee, et al.: *See*—
  Miller, Arthur G.
Murphy, Francis J., Syracuse, N. Y. Holder for wood matches. 146,868; June 3.
Natalie Lampshades Co., assignee: *See*—
  Rigolo, Arthur.
National Manufacturing Corporation, assignee: *See*—
  Bach, Alfons.
Noblitt-Sparks Industries, Incorporated: *See*—
  Karstadt, Clarence.
Olsen, Clarence S., assignor to Chicago Printed String Co., Chicago, Ill. Spool display rack or similar article. 146,869; June 3.
Paschman, Morris, New York, N. Y. Pin or similar article. 146,870; June 3.
Paschman, Morris, New York, N. Y. Pin or similar article. 146,871; June 3.
Rector, Edward W., Melrose Park, Ill. Cigar and cigarette lighter. 146,872; June 3.
Rigolo, Arthur, Clifton, assignor to Natalie Lampshades Co., Paterson, N. J. Lamp shade or similar article. 146,873; June 3.
Rockola, David C., assignor, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph cabinet. 146,874; June 3.
Rock-Ola Manufacturing Corporation, assignee: *See*—
  Rockola, David C.
Rossi, Paul, Warren, Ohio. Combination pen rack and desk unit. 146,875; June 3.
Rossi, Paul, Warren, Ohio. Combination pen rack and desk unit. 146,876; June 3.
Rost, Katheryn, New York, N. Y. Dress. 146,877; June 3.
Rothchild, Lionel, assignee: *See*—
  Lewis, Benjamin.
Schraig, James V., Central Valley, N. Y. Lamp globe. 146,878; June 3.
Seamless Rubber Company, The, assignee: *See*—
  Manville, Charles T., and Madsen.
Sebern, Theodore W., Burbank, Calif. Road vehicle. 146,879; June 3.
Shyvers, Kenneth C., Seattle, Wash. Music box. 146,880; June 3.
Shyvers, Kenneth C., Seattle, Wash. Music box. 146,881; June 3.
Smolensky, Albert G., Cleveland, Ohio. Combined faucet and soap dish. 146,882; June 3.
Steinberg, Jerome H., Brooklyn, N. Y. Combined desk set and lamp standard. 146,883; June 3.
Sweger, Russell P., Rockford, Ill. Automotive vehicle. 146,884; June 3.
Tullgren, Lester C., Minneapolis, Minn., and J. S. Bonkiewicz, Jr., Lodgepole, Nebr. Shoe clog. 146,885; June 3.
Vigars, Charles R., Bellflower, Calif. Combined serving utensil and ash tray. 146,886; June 3.
Wheeler, James W., Cincinnati, Ohio. Stand for holding cosmetics and similar articles. 146,887; June 3.
Wurlitzer, Rudolph, Company, The, assignee: *See*—
  Zaiser, William.
Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,888; June 3.
Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,889; June 3.
Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,890; June 3.
Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,891; June 3.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

- Acorn Designing Co., assignee: *See—*
  - Barrie, Arthur J., and Dwyer.
- Adler, Erich, Lidingo, near Stockholm, Sweden, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Diaryldialkyl-ethane derivatives and the manufacture of same. 2,421,402; June 3.
- Adler, Erich, G. J. Gle, and H. von Euler, Stockholm, Sweden, assignors to Hoffman-La Roche Inc., Nutley, N. J. Manufacture of compounds of α,β-(p,p′-dihydroxydiaryl)-α,β-dialkyl-alkyl and alkylene. 2,421,401; June 3.
- Agriculture, United States of America, as represented by the Secretary of, assignee: *See—*
  - La Forge, Frederick B.
  - La Forge, Frederick B., and Barthel.
- Air Reduction Company, Incorporated, assignee: *See—*
  - Balcar, Frederick R.
  - Smith, Donald L.
- Akerman, John D., and M. Schonberg, Minneapolis, Minn. Clamp-sealed joint construction for aviator's suits. 2,421,533; June 3.
- Aktiebolaget Ljungstroms Angturbin, assignee: *See—*
  - Lysholm, Alf.
- Albert, Orrin W., and D. A. Webster, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Tool for dimpling. 2,421,732; June 3.
- Allen, Howard D., Los Angeles, Calif. Toy pistol. 2,421,403; June 3.
- Allied Chemical & Dye Corporation, assignee: *See—*
  - Engel, Karl H.
- Allied Control Company, Inc., assignee: *See—*
  - Tyne, Gertrude H.
- Alter, Horace J., North Hollywood, Calif. Pneumatic nailing hammer. 2,421,474; June 3.
- American Cyanamid Company, assignee: *See—*
  - Cook, Elmer W., and Hook.
  - Kienle, Roy H., and Amick.
  - Pickens, Roy A.
  - West, Byron L., and Lewis.
- American Locomotive Company, assignee: *See—*
  - Bruce, Alfred W., and Partington.
- American Machine and Metals, Inc., assignee: *See—*
  - Miller, Edward L.
- American Optical Company, assignee: *See—*
  - Rooney, John T.
- American Smelting and Refining Company, assignee: *See—*
  - Shepard, Hugh M., and Byran.
- American Viscose Corporation, assignee: *See—*
  - Cozza, John.
  - Nelson, Seddon C.
  - Reichel, Frank H., and Cornwell.
- Amick, Chester A.: *See—*
  - Kienle, Roy H., and Amick.
- Anchor Hocking Glass Corporation, assignee: *See—*
  - McNamara, William L., and Fouse.
- Anderskow, Alex A., Chicago, Ill. Loose-leaf binder. 2,421,404; June 3.
- Anderson, Eric W.: *See—*
  - Doering, Charles and H. H., Anderson, and Skoglund.
- Andrus, Lester, Glenwood Springs, Colo. Beet harvester. 2,421,534; June 3.
- Anglo-Iranian Oil Company Limited, assignee: *See—*
  - Howes, Donald A.
- Aro Equipment Corporation, The, assignee: *See—*
  - Johnson, James P.
- Åström, Johan, Nyhamn, Essvik, assignor to Svenska Cellulosa Aktiebolaget, Stockholm, Sweden. Treatment of sulphite pulp and liquor. 2,421,590; June 3.
- Attorney General of the United States: *See—*
  - Aubert, Emile H.
  - Bonrath, Wilhelm, and Urbschat.
  - Savoye, François.
  - Waseige, Charles R.
- Aubert, Emile H., Romette, France; vested in the Attorney General of the United States. Wheel of variable diameter. 2,421,368; June 3.
- Autogiro Company of America, assignee: *See—*
  - Huber, John R.
- Ayers, George W., Chicago, E. E. Harton, Evanston, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Preparation of isoparaffins and reactivation of the catalyst used therein. 2,421,674; June 3.
- Bacon, Chester R., Los Angeles, Calif. Combination fluid drive and automatic torque multiplier. 2,421,675; June 3.
- Bailey, Elga A., Butler, Pa. Form for molding grave markers and the like in situ. 2,421,535; June 3.
- Bailey, Francis M., Scotia, N. Y., assignor to General Electric Company. Ultra high frequency device of the cavity resonator type. 2,421,591; June 3.
- Balcar, Frederick R., Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Production of 1,3-butylene glycol. 2,421,451; June 3.
- Balkeman, Donald W.: *See—*
  - Gibson, Elgen B., Jr., and Blakeman.
- Ballard, Seaver A.: *See—*
  - Finch, Harry D., and Ballard.
- Barrie, Arthur J., and R. J. Dwyer, assignors to Acorn Designing Co., Toledo, Ohio. Metalworking machine for rolling grooves in cylinders without damaging longitudinal seams. 2,421,450; June 3.
- Barron-Gray Packing Company, assignee: *See—*
  - Erickson, Arvid M., and Ryan.
- Barthel, William F.: *See—*
  - La Forge, Frederick B., and Barthel.
- Battenfeld Grease & Oil Corp., assignee: *See—*
  - Moots, Clark, and Hooker.
- Beard, Joseph G., Haddonfield, N. J., assignor to Radio Corporation of America. Oscillator. 2,421,676; June 3.
- Becker, Lloyd K.: *See—*
  - Smith, Fred W., Greider, and Becker.
- Beckwith, Dudley R.: *See—*
  - New, Archibald A., Foord, and Beckwith.
- Beeh, Louis, Springfield, Mass. Fuel feeding system. 2,421,475; June 3.
- Belar, Herbert, Palmyra, and E. C. Guedon, Audubon, N. J., assignors to Radio Corporation of America. Photoelectric control apparatus for diaphragms. 2,421,476; June 3.
- Belchetz, Arnold, Kew Gardens, N. Y., assignor to The M. M. Kellogg Company, Jersey City, N. J. Catalytic conversion of hydrocarbons. 2,421,677; June 3.
- Bell & Howell Company, The, assignee: *See—*
  - McNabb, Louis A.
- Bell Telephone Laboratories, Incorporated, assignee: *See—*
  - Schelleng, John C.
- Bendix Aviation Corporation, assignee: *See—*
  - Stuart, Alfred A., Jr.
- Benning, Walter F., Toledo, Ohio, assignor to Mack Manufacturing Corporation, New York, N. Y. Emergency brake lever. 2,421,405; June 3.
- Bentz, John A., Harrisburg, Pa. Safety container for merchandise. 2,421,678; June 3.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamoelectric machine. 2,421,592; June 3.
- Berninger, Kenneth L.: *See—*
  - Martin, Thomas B., and Berninger.
- Bicknell, George M., assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel conditioning device. 2,421,406; June 3.
- Bingham, George H., Jr., Lincoln, assignor to Cambridge Rubber Company, Cambridge, Mass. Life-saving boat. 2,421,679; June 3.
- Bishop, Nathaniel, Fairfield, Conn., assignor to General Electric Company. Coaxial half-wave microwave antenna. 2,421,593; June 3.
- Blewett, John, assignor to The Murray Company, Dallas, Tex. Method and system of conditioning fiber. 2,421,477; June 3.
- Blewett, John, assignor to The Murray Company, Dallas, Tex. Fiber conditioner. 2,421,478; June 3.
- Boeing Airplane Company, Wichita Division, assignee: *See—*
  - Glass, Mansfield D., Dalrymple, and Halsted.
- Bondley, Ralph J.: *See—*
  - McArthur, Elmer D., and Bondley.
- Bonrath, Wilhelm, Leverkusen I. G.-Werk, and E. Urbschat, Cologne-Mulheim, Germany; vested in the Attorney General of the United States. Seed dressing agents employing a hydroxy phenyl diasonium compound. 2,421,369; June 3.
- Boot, Robert H. F., assignor to Under Water Welders & Repairers Limited, London, England. Arc welding electrodes. 2,421,594; June 3.
- Botts, Henry W., Carthage, Mo., assignor to Hercules Powder Company, Wilmington, Del. Preparing blasting gelatin. 2,421,536; June 3.
- Bowman, William C.: *See—*
  - Greider, Harold W., Fasold, and Bowman.
- Bowman, William C., Llanerch, Pa., assignor to The Philip Carey Manufacturing Company. Button locked down siding. 2,421,407; June 3.

- Boyers, John S., Arlington Heights, Mass., assignor to United States of America, as represented by the Secretary of the Navy. Electrical resistance annealing device for wire. 2,421,537; June 3.
- Boyle-Midway Inc., assignee: *See—*
  - Kamlet, Jonas.
- Briggs Filtration Company, The, assignee: *See—*
  - Porter, Roscoe C.
- British Insulated Cables Limited, assignee: *See—*
  - Thorpe, Christopher H. M.
- British Insulated Callender's Cables Limited, assignee: *See—*
  - Kretschmer, Herbert E.
- Brookman, Ernest F., and S. F. Pearce, Welwyn Garden City, England, assignors to Imperial Chemical Industries Limited. Thermoplastic polyvinyl halide composition containing chlorinated paraffin wax. 2,421,408; June 3.
- Brookman, Ernest F., and S. F. Pearce, Welwyn Garden City, England, assignors to Imperial Chemical Industries Limited. Thermoplastic polyvinyl chloride, chlorinated paraffin wax, plasticizer compositions. 2,421,409; June 3.
- Brown, Harold, Denver, Colo. Combined door check and closer. 2,421,595; June 3.
- Bruce, Alfred W., New York, N. Y., and J. Partington, East Orange, N. J., assignors to American Locomotive Company, New York, N. Y. Pressure vessel. 2,421,596; June 3.
- Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Unsaturated cyclic ethers. 2,421,597; June 3.
- Bryan, James H.: *See—*
  - Shepard, Hugh M., and Bryan.
- Bucklin, Herbert, assignor to Goodall-Sanford, Inc., Sanford, Maine. Screen printing. 2,421,410; June 3.
- Budd Company, The, assignee: *See—*
  - Somes, Howard E.
- Budlane, Stanley J., assignor to The Herman Nelson Corporation, Moline, Ill. Combustion chamber structure for heat exchangers. 2,421,370; June 3.
- Budlane, Stanley J., assignor to The Herman Nelson Corporation, Moline, Ill. Heat exchanger. 2,421,371; June 3.
- Bunten, Claude L., Rawlins, Wyo. Bilge drain for boats. 2,421,479; June 3.
- Burge, John E. P., Coventry, assignor to Humber Limited, Stoke, Coventry, England. Joint for sectionalized electric distribution systems. 2,421,480; June 3.
- Burke, Harold J., U. S. Navy. Duplex pressure proportioner. 2,421,372; June 3.
- Burroughs Adding Machine Company, assignee: *See—*
  - Muller, Robert L.
- Burroughs Wellcome & Company (U. S. A.) Incorporated, assignee: *See—*
  - Walton, Eric, and Green.
- Buxton, Loran O., East Orange, and S. T. Lipsius, Orange, assignors to Nopco Chemical Company, Harrison, N. J. Multivitamin compositions. 2,421,598; June 3.
- Byrkit, Gordon D.: *See—*
  - Lincoln, Bert H., and Byrkit.
- Cambridge Rubber Company, assignee: *See—*
  - Bingham, George H., Jr.
- Candlin, James E., Jr., Chicago, and H. L. Howe, Riverdale, assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Vehicle lighting system. 2,421,680; June 3.
- Cannon, George E.: *See—*
  - Reistle, Carl E., Jr., and Cannon.
- Carbide and Carbon Chemicals Corporation, assingee: *See—*
  - Guest, Howard R., MacDowell, and McNamee.
- Carey, Philip, Manufacturing Company, The, assignee: *See—*
  - Bowman, William C.
  - Fasold, George A., and Greider.
  - Greider, Harold W., Fasold, and Bowman.
  - Smith, Fred W., Greider, and Becker.
- Carlson, George J.: *See—*
  - Ross, William E., and Carlson.
- Carpenter, Charles O.: *See—*
  - Welk, Nelson S., and Carpenter.
- Carter Carburetor Corporation, assignee: *See—*
  - Bicknell, George M.
  - Henning, Otto.
- Cash, Joseph D., Jr., Cramerton, N. C. Loom dobby. 2,421,599; June 3.
- Castedello, William: *See—*
  - Schwartz, Morris, and Castedello.
- Celanese Corporation of America, assignee: *See—*
  - Ott, Ralph V.
- Chain Belt Company, assignee: *See—*
  - Smith, Horace L., Jr.
- Chaskin, Harold, New York, N. Y. Typewriter word counter. 2,421,681; June 3.
- Chaskin, Harold, New York, N. Y. Typewriter word counter. 2,421,682; June 3.
- Chaskin, Harold, New York, N. Y. Typewriter word counter. 2,421,683; June 3.
- Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostatic switch. 2,421,538; June 3.
- Clarke, Farrell V., assignor to Uxbridge Worsted Co., Inc., Uxbridge, Mass. Loom reversing mechanism. 2,421,539; June 3.
- Clarke, Oliver H., Washington, D. C. Safety razor. 2,421,540; June 3.
- Claus, Philip S., Plymouth, and E. J. Readman, Huntington Woods, Mich.; said Readman assignor to said Claus. Automatic drill head. 2,421,541; June 3.
- Clayton, Don D., Essington, Pa. Circuit time control device. 2,421,411; June 3.
- Cleveland Patents, Incorporated, assignee: *See—*
  - Hickok, Robert D.
- Close, George A., Bay City, Mich. Boiler. 2,421,684; June 3.
- Cody, Mervin H., London Township, Middlesex Co., Ontario, assignor to General Steel Wares Limited, Montreal, Quebec, Canada. Oven control. 2,421,452; June 3.
- Collins, John E., assignor to The Sinclair-Collins Valve Company, Akron, Ohio. Sequence controller. 2,421,481; June 3.
- Commercial Controls Corporation, assignee: *See—*
  - Ryan, Commodore D., and Drake.
- Cone Automatic Machine Company Inc., assignee: *See—*
  - Ingalls, John M.
- Connolly, George E., San Francisco, Calif., assignor to Nichols Engineering & Research Corporation. Method and furnace apparatus for calcining carbonate material and for other purposes. 2,421,542; June 3.
- Cook, Elmer W., New York, N. Y., and E. O. Hook, Norwalk, Conn., assignors to American Cyanamid Company, New York, N. Y. Vulcanization accelerators for natural and synthetic rubber. 2,421,544; June 3.
- Cook, James F., Albany, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricant. 2,421,543; June 3.
- Continental Gin Company, assignee: *See—*
  - Deems, Frank E., and Smith.
  - Smith, Algernon L.
- Cornwell, Ralph T. K.: *See—*
  - Reichel, Frank H., and Cornwell.
- Cozza, John, Brooklyn, N. Y., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Heat-sealing element. 2,421,373; June 3.
- Craftsman Line-Up Table Corporation, assignee: *See—*
  - Dodge, Floyd L.
- Crawshaw, John, assignor of one-half to B. Johnsen, New York, N. Y. Collapsible fiberboard container. 2,421,453; June 3.
- Crocker, Percival B., assignor to The Sentry Company, Foxboro, Mass. Furnace. 2,421,482; June 3.
- Crompton & Knowles Loom Works, assignee: *See—*
  - Turner, Richard G.
- Crot, André, North Hollywood, and R. R. Richolt, Tujunga, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Alignable pulley. 2,421,685; June 3.
- Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Mercaptan oxidation process. 2,421,545; June 3.
- Cumpston, James H., Corsicana, Tex. Hoe. 2,421,600; June 3.
- Cutler-Hammer, Inc., assignee: *See—*
  - Pell, Eric.
- Dalton, George A., assignor to John Waldron Corporation, New Brunswick, N. J. Flexible coupling. 2,421,546; June 3.
- Dalrymple, Wayne W.: *See—*
  - Glass, Mansfield D., Dalrymple, and Halsted.
- Daly, George F.: *See—*
  - Lake, Clair D., and Daly.
- Daniels, C. R., Inc., assignee: *See—*
  - Donnelly, Henry G.
- Davidson, Estel D., St. Louis County, Mo. Butchering apparatus. 2,421,547; June 3.
- Davidson, Vernon D.: *See—*
  - Wilson, Milo C., and Davidson.
- Davies, Rowland, Gerrards Cross, assignor to The Metal Box Company Limited, Perrywood, Worcester, England. Apparatus for grinding articles of irregular form. 2,421,548; June 3.
- Deems, Frank E., and A. L. Smith, Birmingham, Ala., assignors to Continental Gin Company. Cotton cleaner. 2,421,483; June 3.
- De Laval Steam Turbine Company, assignee: *See—*
  - Waller, Carl R.
- De Weese, Joseph C.: *See—*
  - Gray, Reid B., and De Weese.
- Diamond, Blaise L., Detroit, Mich., assignor to Tyson Bearing Corporation, Massillon, Ohio. Pneumatic gaging machine for selecting rolls according to size. 2,421,484; June 3.
- Diehl, Walter S., U. S. Navy, Washington, D. C. Articulated balance for aircraft controls. 2,421,374; June 3.
- Dilley, Donald C., Cleveland, and R. R. McGregor, South Euclid, assignors to The Lindsay Wire Weaving Company, Cleveland, Ohio. Seam for woven wire fabric. 2,421,601; June 3.

Dillon Patents Limited, assignee: *See—*
Dillon, Thomas A.
Dillon, Robert W., Morgantown, W. Va. Vibration damping device. 2,421,549; June 3.
Dillon, Thomas A., assignor to Dillon Patents Limited, Toronto, , Ontario, Canada. Vibrating apparatus. 2,421,485; June 3.
Dittmar, Frank H., St. Louis, Mo., assignor to United States of America, as represented by the Secretary of War. Package of cartridge boxes. 2,421,486; June 3.
Dodge, Floyd L., assignor to Craftsman Line-Up Table Corporation, Waltham, Mass. Spacing mechanism for line-up and register tables. 2,421,686; June 3.
Dodge, Katharine E., New York, N. Y. Glove with change pocket. 2,421,412; June 3.
Dodge, Mary L.: *See—*
Wilson, Chester E., and Dodge.
Doering, Charles and H. H., E. W. Anderson, and B. J. Skoglund, Chicago, Ill.; said Anderson and said Skoglund assignors to said C. and H. H. Doering. Apparatus for producing molding dies and the like. 2,421,454; June 3.
Doering, Henry H.: *See—*
Doering, Charles and H. H., Anderson, and Skoglund.
Donnelly, Henry G., Baltimore, Md., assignor to C. R. Daniels, Inc., Newark, N. J. Portable container handle structure. 2,421,687; June 3.
Donovan, Alfred J., Danvers, Mass., assignor to Sylvania Electric Products Inc. Coating tubular glass articles with luminous material. 2,421,550; June 3.
Dooling, John H., Fitchburg, assignor of one-half to L. J. O'Malley, Newton, Mass. Expansion repair plate for worn railway ties. 2,421,602; June 3.
Doppelhammer, John, Twin Lakes, Minn. Mail box signaling device. 2,421,603; June 3.
Dornfeld, Edmund G.: *See—*
Smith, Perry C., Runge, and Dornfeld.
Dorst, Stanley O.: *See—*
Robinson, Preston, and Dorst.
Dorst, Stanley O., assignor to Sprague Electric Company, North Adams, Mass. Noninductive resistance element. 2,421,688; June 3.
Drake, Edward P.: *See—*
Ryan, Commodore D., and Drake.
Dunham, Delbert F., Tujunga, Calif. Sprinkler head. 2,421,551; June 3.
Dunlap, Merlin B.: *See—*
Moore, John P., and Dunlap.
Dunlop Rubber Company Limited, assignee: *See—*
Trevaskis, Henry.
Du Pont, E. I., de Nemours & Company, assignee: *See—*
Thronson, Edgar A., and Mendolia.
Dwyer, Raymond J.: *See—*
Barrie, Arthur J., and Dwyer.
Dyck, Herbert F., Wichita, Kans. Notebook. 2,421,487; June 3.
Eaton, Charles A., Company, assignee: *See—*
Eaton, Charles C.
Eaton, Charles C. and C. C., Jr.
Eaton, Charles C., Jr.: *See—*
Eaton, Charles C. and C. C., Jr.
Eaton, Charles C., assignor to Charles A. Eaton Company, Brockton, Mass. Applying backstays to shoe uppers. 2,421,604; June 3.
Eaton, Charles C., Brockton, and C. C. Eaton, Jr., Hingham, assignors to Charles A. Eaton Company, Brockton, Mass. Cushion shoe and making same. 2,421,605; June 3.
Eaton Manufacturing Company, assignee: *See—*
Noreyko, Nicholas.
Einbinder, Morris A., Denver, Colo. Garment pocket. 2,421,488; June 3.
Eksergian, Carolus L., Detroit, Mich., assignor, by mesne assignments, to United States of America. Casing and nozzle construction for rocket motors. 2,421,552; June 3.
Elkin, Hugh W., Pasadena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Cowling arrangement. 2,421,689; June 3.
Elliott, Peter M., assignor to Oil Distribution Appliances Limited, Toronto, Ontario, Canada. Crude oil separator. 2,421,375; June 3.
Elliott, William F., Merced, Calif. Processing figs. 2,421,489; June 3.
Engel, Karl H., Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Resolution of mixtures of heterocyclic nitrogen compounds. 2,421,413; June 3.
Ensor, Vernon C., Woodlawn, and F. D. Johnston, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Reciprocable means for automatically moving a series of articles in tandem through a drying chamber. 2,421,690; June 3.
Erickson, Arvid M., San Jose, and J. D. Ryan, Campbell, assignors to Barron-Gray Packing Company, San Jose, Calif. Preparation of sweetening medium from fruit. 2,421,376; June 3.
Ernst, George M., near Denver, Colo. Vise shears. 2,421,414; June 3.
Evans, William H., Chicago, Ill. Metal removing tool. 2,421,490; June 3.
Everel Propeller Corporation, assignee: *See—*
Hackethal, Paul F.
Ex-Cell-O Corporation, assignee: *See—*
Seyferth, Harold N., and Stewart.
Fasold, George A.: *See—*
Greider, Harold W., Fasold, and Bowman.
Fasold, George A., Mount Healthy, and H. W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Shingle. 2,421,415; June 3.
Felix, Friedrich, Basel, and R. von Capeller, Riehen, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyes from 2,6 dihalo 4 nitraniline. 2,421,553; June 3.
Finch, Harry D., Berkeley, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Catalytic cleavage of glycols. 2,421,554; June 3.
Fitch, Clyde J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Apparatus for producing sharply defined signaling impulses. 2,421,606; June 3.
Flexser, Leo A., Elizabeth, assignor to Hoffmann-La Roche, Inc., Roche Park, Nutley, N. J. Catalytic hydrogenation of sugars. 2,421,416; June 3.
Foord, Stanley G.: *See—*
New, Archibald A., Foord, and Beckwith.
Fouse, Frederick Z.: *See—*
McNamara, William L., and Fouse.
Fowler, Harwood B., Wayne, Pa. Making metallic printing screens. 2,421,607; June 3.
Fraser, Douglas, & Sons Limited, assignee: *See—*
Fraser, Gordon S.
Fraser, Gordon S., Arbroath, assignor to Douglas Fraser & Sons Limited, Angus, Scotland. Stop motion for spinning and like textile frames. 2,421,555; June 3.
Fulmer, Charles A., Fort Thomas, Ky. Connecting rod boring machine. 2,421,556; June 3.
Galvin Manufacturing Corporation, assignee: *See—*
Mitchell, Donald H.
Gearon, Edward: *See—*
Gearon, John A. and E.
Gearon, John A and E., Chicago, Ill. Signal flare magazine and caster. 2,421,491; June 3.
Geller, Isaac, Portland, Oreg. Key holder plate. 2,421,492; June 3.
General Aniline & Film Corporation, assignee: *See—*
Haff, Richard M.
Harriman, Benjamin R.
Reppe, Walter, Schuster, and Weiss.
General Electric Company, assignee: *See—*
Bailey, Francis M.
Bergman, Sven R.
Bishop, Nathaniel.
Kuehni, Hans P.
Light, Philip H.
Livingston, Orrin W.
McArthur, Elmer D.
McArthur, Elmer D., and Bondley.
Paluev, Konstantin K.
Sauer, Robert O.
Strang, Harold E., and Powell.
Ware, David H.
General Motors Corporation, assignee: *See—*
Martin, Thomas B., and Berninger.
Rady, William J.
Smith, Jasper A.
General Steel Wares Limited, assignee: *See—*
Cody, Mervin H.
General Tire & Rubber Company, The, assignee: *See—*
Thiry, Leon F.
Geophysical Development Corporation, assignee: *See—*
Krasnow, Shelley.
Gerst, Chris, Detroit, Mich. Clutch structure. 2,421,493; June 3.
Gibson, Elgen B., Jr., North Hollywood, and D. W. Blakeman, Altadena, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Universal joint. 2,421,691; June 3.
Gie, Gert J.: *See—*
Adler, Erich, Gie, and von Euler.
Gilbert & Barker Manufacturing Company, assignee: *See—*
Leitch, Walter C., and Logan.
Gilbert, L. M., assignee: *See—*
Johnson, Samuel W.
Glass, Mansfield D., and W. W. Dalrymple, Wichita, Kans., and H. F. Halsted, Ferndale, Mich., assignors to Boeing Airplane Company, Wichita Division, Wichita, Kans. Lever control unit. 2,421,494; June 3.
Glines, Frederick S.: *See—*
Muther, Lorenz F., and Glines.
Gohr, Edwin J.: *See—*
Hemminger, Charles E., and Gohr.
Gohr, Edwin J., Summit, N. J., assignor to Standard Oil Development Company. Preparing amines. 2,421,608; June 3.
Goldsmith, William D., Portland, Oreg. Lawn mower. 2,421,558; June 3.
Good, Louis P., Texarkana, Ark. Third-dimensional pictures and third-dimensional portrayal of anatomy and surgery. 2,421,609; June 3.
Goodall-Sanford, Inc., assignee: *See—*
Bucklin, Herbert.
Goodrich, B. F., Company, The, assignee: *See—*
Hunter, Willson H., and Green.

Gordon, Robert H., assignor to Parker Rust-Proof Company, Detroit, Mich. Apparatus for rustproofing or the like. 2,421,610; June 3.
Government of the United States, assignee: *See—*
Isbell, Horace S.
Graff, George W.: *See—*
White, William D., and Graff.
Graham, John L.: *See—*
Merker, Herman, and Graham.
Gray, Byron E., Alton, Ill. Preparation of 2-keto gulonic acid and its salts. 2,421,611; June 3.
Gray, Byron E., Alton, Ill. Preparation of 2-keto gulonic acid and its salts. 2,421,612; June 3.
Gray, Reid B., Dundalk, and J. C. De Weese, Essex, assignors to The Glenn L. Martin Company, Baltimore, Md. Plastic liner for containers. 2,421,613; June 3.
Green, Lloyd G., Denver, Colo. Insulin kit. 2,421,495; June 3.
Green, Maurice B.: *See—*
Walton, Eric, and Green.
Green, William C.: *See—*
Hunter, Willson H., and Green.
Greider, Harold W.: *See—*
Fasold, George A., and Greider.
Smith, Fred W., Greider, and Becker.
Greider, Harold W., Wyoming, and G. A. Fasold, Mount Healthy, Ohio, and W. C. Bowman, Llanerch, Pa., assignors to The Philip Carey Manufacturing Company. Locked down weather surfacing elements. 2,421,417; June 3.
Grieshaber, Emil, and W. J. Johnson, Jr., assignors to Nordberg Manufacturing Company, Milwaukee, Wis. Engine and torque transmitter control. 2,421,496; June 3.
Grieshaber, Emil, and W. J. Johnson, Jr., assignors to Nordberg Manufacturing Company, Milwaukee, Wis. Governor. 2,421,497; June 3.
Gross, Henry E., Chicago, Ill. Apparatus for salvage. 2,421,377; June 3.
Grosse, Aristid V.: *See—*
Priest, Homer F., and Grosse.
Grossman, Darwin A., Elkhart, Ind. Transport blower. 2,421,418; June 3.
Guardian Electric Manufacturing Co., assignee: *See—*
Obszarny, Thedore.
Guedel, Robert L., Indianapolis, Ind. Agitating ejector type dental lathe pan. 2,421,498; June 3.
Guedon, Emile C.: *See—*
Belar, Herbert, and Guedon.
Guedon, Emile C., Audubon, N. J., assignor to Radio Corporation of America. Shutter for controlling light along two independent optical paths. 2,421,499; June 3.
Guest, Howard R., Charleston, W. Va., L. G. MacDowell, Lakeland, Fla., and R. W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Ethers of esters of lactic acid. 2,421,378; June 3.
Guest, Howard R., Charleston, W. Va., L. G. MacDowell, Lakeland, Fla., and R. W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Acetals of pyruvic aldehyde. 2,421,559; June 3.
Hackethal, Paul F., Cockeysville, assignor to Everel Propeller Corporation, Baltimore, Md. Propulsion device. 2,421,692; June 3.
Haff, Richard M., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Registering punch. 2,421,500; June 3.
Hafner Associates, Inc., assignee: *See—*
Welti, Edward.
Hall, Homer J., Cranford, N. J., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,421,614; June 3.
Halsted, Hal F.: *See—*
Glass, Mansfield D., Dalrymple, and Halsted.
Haniquet, George, Glendale, Calif. Hydro-vapor air conditioner. 2,421,557; June 3.
Hardie, John C., Brockton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sole treating apparatus. 2,421,419; June 3.
Harding, John W., Sherridon, Manitoba, Canada. Shaft mucking machine. 2,421,379; June 3.
Harriman, Benjamin R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Imidazolone color formers. 2,421,693; June 3.
Harton, Erskine E.: *See—*
Ayers, George W., Harton, and Henderson.
Hasbrouck, John S., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Fluid coupling outlet valve thermostatic control. 2,421,501; June 3.
Hathaway, Claude M., Denver, Colo., assignor to Hathaway Instrument Company. Electrical gaging apparatus. 2,421,420; June 3.
Hathaway Instrument Company, assignee: *See—*
Hathaway, Claude M.
Hawkins, Willis M., North Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Airplane control surface. 2,421,694; June 3.
Hayes, Clifford F., assignee, et al.: *See—*
Hayes, Jonithan B.
Hayes, Granville R., assignee, et al.: *See—*
Hayes, Jonithan B.
Hayes, Jonithan B., Kansas City, Kans., assignor of one-fourth to V. P. Hayes, Los Angeles, Calif., one-fourth to G. R. Hayes, Kansas City, Kans., and one-fourth to C. F. Hayes, Sedalia, Mo. Concrete spring tie. 2,421,502; June 3.
Hayes, Vincel P., assignee, et al.: *See—*
Hayes, Jonithan B.
Haynes, Harold E., Indianapolis, Ind., assignor to Radio Corporation of America. Differential voltage control system. 2,421,560; June 3.
Hays Corporation, The, assignee: *See—*
Kurland, Leonard.
Hemminger, Charles E., Westfield, and E. J. Gohr, Summit, N. J., assignors to Standard Oil Development Company. Catalytic treatment of hydrocarbon oils. 2,421,616; June 3.
Henderson, Lawrence M.: *See—*
Ayers, George W., Harton, and Henderson.
Henning, Otto, assignor, by mesne assignments, to Carter Carburetor Corporation, St. Louis, Mo. Internal-combustion engine. 2,421,733; June 3.
Henson, Charles W., Lawrenceville, Ga. Safety pocket. 2,421,695; June 3.
Hercules Powder Company, assignee: *See—*
Botts, Henry W.
Hermon, Lowell V., Berkeley, Calif. Visible card, photograph, and other filing sheets. 2,421,503; June 3.
Herold, Pete J., San Francisco, Calif. Hand motor. 2,421,455; June 3.
Hickok, Robert D., Bratenahl, Ohio, assignor to Cleveland Patents, Incorporated. Indicating dial for photoelectric light meters. 2,421,504; June 3.
Hillier, James, Cranbury, N. J., assignor to Radio Corporation of America. Specimen holder assembly. 2,421,696; June 3.
Hobby, Harold E., assignor to Simplex Time Recorder Co., Gardner, Mass. Card time printing and punching recorder. 2,421,697; June 3.
Hoffman-La Roche Inc., assignee: *See—*
Adler, Erich.
Adler, Erich, Gie, and von Euler.
Flexser, Leo A.
Holberg, Arnold J., El Dorado, Ark., assignor to Lion Oil Company. Treating high-molecular-weight hydrocarbons. 2,421,421; June 3.
Holmes, Phyllis, Stretford, England, assignor to Metropolitan-Vickers Electrical Company Limited. Removing coatings from metallic conductors. 2,421,617; June 3.
Hook, Edwin O.: *See—*
Cook, Elmer W., and Hook.
Hooker, Robert C.: *See—*
Moots, Clark, and Hooker.
Hordes, Irving, Yonkers, N. Y. Apparatus for casting dental restorations. 2,421,698; June 3.
Hornbeck, Charlie A., Chandler, Okla. Toy parachute. 2,421,618; June 3.
Howe, Harry L.: *See—*
Candlin, James E., Jr., and Howe.
Howes, Donald A., Sunbury-on-Thames, assignor to Anglo-Iranian Oil Company Limited, London, England. Production of motor or aviation fuels. 2,421,619; June 3.
Huber, John R., Warrington, assignor to Autogiro Company of America, Philadelphia, Pa. Fuselage skeleton for rotative wing aircraft. 2,421,620; June 3.
Humber Limited, assignee: *See—*
Burge, John E. P.
Hunau, Lillian, Brooklyn, N. Y. Brassière. 2,421,561; June 3.
Hunter Engineering Co., assignee: *See—*
Hunter, Joseph L.
Hunter, Joseph L., assignor to Hunter Engineering Co., Riverside, Calif. Bottom rail assembly for Venetian blinds. 2,421,505; June 3.
Hunter, Willson H., and W. C. Green, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Ice removing covering for aircraft. 2,421,621; June 3.
Hynes, Lee P., Haddonfield, N. J. Apparatus for heating oil and other fluid media. 2,421,562; June 3.
Imperial Chemical Industries Limited, assignee: *See—*
Brookman, Ernest F., and Pearce.
Industrial Rayon Corporation, assignee: *See—*
Kline, Hayden B., and McLellan.
Ingalls, John M., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Stock gripper with removable pads. 2,421,563; June 3.
International Business Machines Corporation, assignee: *See—*
Fitch, Clyde J.
Lake, Clair D., and Daly.
Smith, Clarence C.
International Standard Electric Corporation, assignee: *See—*
New, Archibald A., Foord, and Beckwith.
Isbell, Horace S., Washington, D. C., assignor to the Government of the United States. Treating sugar. 2,421,380; June 3.
Jenness, Leslie G., Buffalo, N. Y., assignor to The Linde Air Products Company. Chemical production of oxygen. 2,421,381; June 3.
Johnsen, Bjornulf, assignee: *See—*
Crawshaw, John.

Johnson, Clarence L., Encino, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Auxiliary fuel tank. 2,421,699; June 3.

Johnson, George C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Interpolymerization of isobutene and isopentenes in the presence of sulfuric acid. 2,421,422; June 3.

Johnson, James P., Cleveland, assignor to The Aro Equipment Corporation, Bryan, Ohio. Diaphragm cover for oxygen regulators. 2,421,700; June 3.

Johnson, Samuel W., assignor of one-half to L. M. Gilbert, Panama City, Fla. Dump receptacle. 2,421,701; June 3.

Johnson, William J., Jr.: *See*—
Grieshaber, Emil, and Johnson.

Johnston, Fred D.: *See*—
Ensor, Vernon C., and Johnston.

Jones, Arthur E., assignor to Posture Research Corporation, Elkhart, Ind. Adjustable chair back. 2,421,702; June 3.

Jones, Jean P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of diolefins. 2,421,506; June 3.

Jones, Paul R., Piedmont, assignor to Shell Development Company, San Francisco, Calif. Horticultural spray oil. 2,421,507; June 3.

Joy Manufacturing Company, assignee: *See*—
Vanderzee, Harry H.

Judisch, Carl H., assignor to The Whitney Blake Company, Hamden, Conn. Anchor for plural electric conductors. 2,421,456; June 3.

Kalart Company, Inc., The, assignee: *See*—
Schwartz, Morris, and Castedello.

Kamborian, Jacob S., West Newton, Mass. Force lasting machine. 2,421,508; June 3.

Kamlet, Jonas, assignor to Boyle-Midway Inc., New York, N. Y. Detergent paste. 2,421,703; June 3.

Kasten, Walter, Franklin, assignor to R. L. Skinner, Detroit, Mich. Filter pack and its manufacture. 2,421,704; June 3.

Kasten, Walter, Franklin, assignor to R. L. Skinner, Detroit, Mich. Filter. 2,421,705; June 3.

Kebrich, Leonard M., Brooklyn, assignor to National Lead Company, New York, N. Y. Basic lead salicylates and preparing same. 2,421,706; June 3.

Kellogg, M. W., Company, The, assignee: *See*—
Belchetz, Arnold.

Kellogg Switchboard and Supply Company, assignee: *See*—
Saunders, Norman H.

Kennedy, John A., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Textile spindle. 2,421,734; June 3.

Kienle, Roy H., and C. A. Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Alkyl carbamates in color compositions. 2,421,622; June 3.

Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Impregnated abrasive wheel. 2,421,623; June 3.

Kleiderlein, George, Bradford, Pa. Sucker rod scraper. 2,421,564; June 3.

Klemes, I. Saul, assignee: *See*—
Wein, Frank.

Kline, Hayden B., and K. M. McLellan, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Conditioning artificial silk thread. 2,421,624; June 3.

Klug, Charles W., assignor to Stewart-Warner Corporation, Chicago, Ill. Heater control. 2,421,565; June 3.

Knapp, William C., Columbia, Pa. Lifter for hot or cold containers. 2,421,509; June 3.

Kober, Solomon W., Billings, Mont. Hydraulic loader and stacker. 2,421,566; June 3.

Krasnow, Shelley, Arlington County, Va., assignor to Geophysical Development Corporation, Washington, D. C. Method and apparatus for taking physical measurements in boreholes. 2,421,423; June 3.

Krause, William K., Los Angeles, Calif. Variable tension violin bow. 2,421,567; June 3.

Kretschmer, Herbert E., assignor, by mesne assignments, to British Insulated Callender's Cables Limited, London, England. Manufacture of vulcanised rubber articles. 2,421,625; June 3.

Kreuzer, Barton, Philadelphia, Pa., assignor to Radio Corporation of America. Reverberation method and system. 2,421,424; June 3.

Kuehni, Hans P., Schenectady, N. Y., assignor to General Electric Company. Torque measurements. 2,421,626; June 3.

Kurland, Leonard, East Chicago, assignor to The Hays Corporation, Michigan City, Ind. Absorbing oxygen. 2,421,568; June 3.

La Crosse, Clifford G., Baltimore, Md. Rubberlike substances and compounding material. 2,421,627; June 3.

La Forge, Frederick B., Arlington, Va., assignor to United States of America as represented by the Secretary of Agriculture. Insecticide. 2,421,570; June 3.

La Forge, Frederick B., Arlington, Va., and W. F. Barthel, College Park, Md., assignors to United States of America as represented by the Secretary of Agriculture. Insecticide. 2,421,569; June 3.

Lake, Clair D., Binghamton, and G. F. Daly, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Odograph. 2,421,628; June 3.

Langos, Otto A., Chicago, Ill. Closing the ends of metal tubes. 2,421,629; June 3.

Leek, George H., Leamington Spa, and R. H. Rose, Wolverhampton, England. Valve mechanism of fluid-pressure engines. 2,421,510; June 3.

Leffingwell, Loy: *See*—
Sanders, Elmore J., and Leffingwell.

Legat, Robert C., New Britain, assignor to The G. E. Prentice Mfg. Co., Kensington, Conn. Slider for separable fasteners. 2,421,511; June 3.

Leitch, Walter C., Springfield, and J. A. Logan, Hadley, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Method and apparatus for handling airplanes for refueling. 2,421,512; June 3.

Leszkowicz, Joseph, Brookhaven, N. Y. Retainer shield for potato diggers. 2,421,425; June 3.

Levinson, Sidney O., and F. Oppenheimer, assignors to Michael Reese Research Foundations, Chicago, Ill. Vaccine and antigen and producing the same. 2,421,382; June 3.

Lewis, Charles E.: *See*—
West, Byron L., and Lewis.

Leyshon, William E., assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent glow lamp. 2,421,571; June 3.

Light, Philip H., Schenectady, N. Y., assignor to General Electric Company. Protection of alternating current electric power systems. 2,421,630; June 3.

Lincoln, Bert H., Ponca City, Okla., and G. D. Byrkit, Niagara Falls, N. Y. Lubricating oil. 2,421,631; June 3.

Linde Air Products Company, The, assignee: *See*—
Jenness, Leslie G.

Lindsay Corporation, The, assignee: *See*—
Lindsay, Harvey B.

Lindsay, Harvey B., Evanston, assignor, by mesne assignments, to The Lindsay Corporation, Chicago, Ill. Die plate for flanging metallic sheets of variable size. 2,421,457; June 3.

Lindsay Wire Weaving Company, The, assignee: *See*—
Dilley, Donald C., and McGregor.

Line Material Company, assignee: *See*—
Schultz, William O.

Lion Oil Company, assignee: *See*—
Holberg, Arnold J.

Lipsius, Sol T.: *See*—
Buxton, Loran O., and Lipsius.

Livingston, Orrin W., Scotia, N. Y., assignor to General Electric Company. Apparatus for controlling electric motors. 2,421,632; June 3.

Lockheed Aircraft Corporation, assignee: *See*—
Albert, Orrin W., and Webster.
Cort, André, and Richolt.
Elkin, Hugh W.
Gibson, Elgen B., Jr., and Blakeman.
Hawkins, Willis M.
Johnson, Clarence L.
Rose, George W.

Lofstrom, Algot T., Iron Mountain, Mich. Recording device including rotatable number carrying rings. 2,421,513; June 3.

Logan, Joseph A.: *See*—
Leitch, Walter C., and Logan.

Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,383; June 3.

Lyon, George A., Allenhurst, N. J. Ornamental cover for vehicle wheels. 2,421,384; June 3.

Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,385; June 3.

Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,386; June 3.

Lyon, George A., Allenhurst, N. J. Helmet construction. 2,421,633; June 3.

Lyon, George A., Allenhurst, N. J. Fender construction. 2,421,634; June 3.

Lysholm, Alf, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Hot air turbine power plant with automatic air supply control. 2,421,387; June 3.

MacDowell, Louis G.: *See*—
Guest, Howard R., MacDowell, and McNamee.

Mack Manufacturing Corporation, assignee: *See*—
Benning, Walter F.

Maino, Alfred J., New Bedford, Mass. Heat dissipating cot for textile rolls. 2,421,426; June 3.

Malkemus, John D., Allendale, N. J. Mono-substituted dialkanol piperazines. 2,421,707; June 3.

Mamlin, Morris W., Pine Bluff, and R. E. Welker, Laurinburg, N. C. Face protector for fire fighters. 2,421,427; June 3.

Marino, Anthony, New York, N. Y. Clip lock inclined baby bottle holder. 2,421,458; June 3.

Marsilius, Newman M., Bridgeport, Conn. Hand miller. 2,421,459; June 3.

Martin, Glenn L., Company, The, assignee: *See*—
Gray, Reid B., and De Weese.
Veit, Hermann E., and Miles.

Martin, Thomas B., and K. L. Berninger, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Dual rotation propeller. 2,421,514; June 3.

McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency space resonant system. 2,421,635; June 3.

McArthur, Elmer D., Schenectady, and R. J. Bondley, Scotia, N. Y., assignors to General Electric Company. Tunable magnetron. 2,421,636; June 3.

McBee Company, The, assignee: *See*—
Welk, Nelson S., and Carpenter.

McGregor, Robert R.: *See*—
Dilley, Donald C., and McGregor.

McKinnis, Ronald B., Winter Haven, Fla. Apparatus for filling containers. 2,421,708; June 3.

McLellan, Kenneth M.: *See*—
Kline, Hayden B., and McLellan.

McNabb, Louis A., Glenview, assignor to The Bell & Howell Company, Chicago, Ill. Prefocused, quickly adjustable light slit for photoelectric sound heads. 2,421,637; June 3.

McNamara, William L., and F. Z. Fouse, assignors to Anchor Hocking Glass Corporation, Lancaster, Ohio. Article take-off or transfer apparatus. 2,421,515; June 3.

McNamee, Raymond W.: *See*—
Guest, Howard R., MacDowell, and McNamee.

Mendolia, Arthur I.: *See*—
Thronson, Edgar A., and Mendolia.

Merker, Herman, and J. L. Graham, assignors to Pressed Steel Tank Company, Milwaukee, Wis. Compressed gas container. 2,421,460; June 3.

Metal Box Company Limited, The, assignee: *See*—
Davies, Rowland.

Metropolitan-Vickers Electrical Company Limited, assignee: *See*—
Holmes, Phyllis.
Partington, Walter.

Miles, Weldon C.: *See*—
Veit, Hermann E., and Miles.

Miller, Edward L., Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y. Centrifugal machine. 2,421,709; June 3.

Miller Pottery Engineering Company, assignee: *See*—
Miller, William J.

Miller, William J., assignor to Miller Pottery Engineering Company, Swissvale, Pa. Apparatus for feeding clay to molds in the manufacture of pottery ware. 2,421,572; June 3.

Mills, Le Roy G., Bronxville, N. Y. Suggestion cabinet. 2,421,710; June 3.

Mitchell, Donald H., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Apparatus for supporting portable radio sets. 2,421,516; June 3.

Moak, Eugene H., assignor to Moak Machine and Tool Co., Port Huron, Mich. Multiple spindle mechanism. 2,421,461; June 3.

Moak Machine and Tool Co., assignee: *See*—
Moak, Eugene H.

Mochan, George, New York, N. Y. Foldable baby carriage. 2,421,388; June 3.

Moerman, Carlos, Richmond, Calif. Pivoted dial calipers. 2,421,517; June 3.

Molloy, Richard C., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Jet propulsion. 2,421,518; June 3.

Moody, Robert J., and J. E. Taylor, Franklin, assignors to Scott & Williams, Incorporated, Laconia, N. H. Machine for marking circular knit hosiery for boarding. 2,421,638; June 3.

Moore, John P., and M. B. Dunlap, Clearwater, Fla. Machine for producing shingle anchor nails and the like. 2,421,573; June 3.

Moots, Clark, and R. C. Hooker, assignors to Battenfeld Grease & Oil Corp., Kansas City, Mo. Extruding applicator for calking compound cartridges. 2,421,711; June 3.

Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Carbon sheet holding and positioning business machines. 2,421,462; June 3.

Murray Company, The, assignee: *See*—
Blewett, John.

Muther, Lorenz F., Newton Center, and F. S. Glines, East Lynn, Mass.; said Glines assignor to said Muther. Machine for forming and reinforcing cutouts. 2,421,639; June 3.

National Lead Company, assignee: *See*—
Kebrich, Leonard M.

National Steel Corporation, assignee: *See*—
Wallis, Charles E., and Shanley.

Navy, United States of America, as represented by the Secretary of the, assignee: *See*—
Boyers, Johns S.

Nelson, Herman, Corporation, The, assignee: *See*—
Budlane, Stanley J.

Nelson, Seddon C., Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del. Spindle mounting. 2,421,389; June 3.

New, Archibald A., S. G. Foord, and D. R. Beckwith, London W. C. 2, England, assignors to International Standard Electric Corporation. Electric insulating tape. 2,421,640; June 3.

Newmark, Marshall F., Tucson, Ariz. Teething aid. 2,421,574; June 3.

Nichols Engineering & Research Corporation, assignee: *See*—
Connolly, George E.

Nichols, Walter E., Milton, Mass., assignor to The Reece Corporation. Buttonhole sewing machine. 2,421,712; June 3.

Nield, Leslie C., Glossop, assignor to Tootal Broadhurst Lee Company Limited, Manchester, England. Method and apparatus for the straightening of the wefts of woven textile fabrics. 2,421,575; June 3.

Nielsen, Erik R., assignor to The Quaker Oats Company, Chicago, Ill. Catalytic oxidation of furfural. 2,421,428; June 3.

Nopco Chemical Company, assignee: *See*—
Buxton, Loran O., and Lipsius.

Nordberg Manufacturing Company, assignee: *See*—
Grieshaber, Emil, and Johnson.

Noreyko, Nicholas, assignor to Eaton Manufacturing Company, Detroit, Mich. Gear element. 2,421,463; June 3.

Norton Company, assignee: *See*—
Kistler, Samuel S.

Norton, Ronald M., Tividale, Tipton, England. Retarded float control mechanism for coal washing jigs. 2,421,576; June 3.

Obstfeld, Abraham I., assignee: *See*—
Obstfeld, Lou.

Obstfeld, Lou, assignor of one-half to A. I. Obstfeld, Brooklyn, N. Y. Stapling machine. 2,421,429; June 3.

Obszarny, Thedore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Relay. 2,421,641; June 3.

Obszarny, Thedore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Electromagnet relay construction. 2,421,642; June 3.

Oil Distribution Appliances Limited, assignee: *See*—
Elliott, Peter M.

O'Malley, Louis J., assignee: *See*—
Dooling, John H.

Oppenheimer, Franz: *See*—
Levinson, Sidney O., and Oppenheimer.

Osborn Manufacturing Company, The, assignee: *See*—
Peterson, Ruben O.

Ostli, Arnold J., Chicago, Ill. Safety helmet. 2,421,643; June 3.

Ott, Ralph V., Narrows, Va., assignor to Celanese Corporation of America. Device for testing static accumulating properties of textile fibers. 2,421,430; June 3.

Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Tank mounted lightning arrester. 2,421,644; June 3.

Parke, Davis & Company, assignee: *See*—
Rieveschl, George, Jr.

Parker Rust-Proof Company, assignee: *See*—
Gordon, Robert H.

Partington, James: *See*—
Bruce, Alfred W., and Partington.

Partington, Walter, Sheffield, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Regulating system. 2,421,645; June 3.

Patton, Benjamin B., Philadelphia, Pa., assignor to the United States of America, as represented by the Secretary of War. Mechanical time fuse structure. 2,421,390; June 3.

Pearce, Stephen F.: *See*—
Brookman, Ernest F., and Pearce.

Pell, Eric, Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for induction motors. 2,421,431; June 3.

Penk, Charles, Newark, assignor to Sal-Mar Laboratories, Inc., Irvington, N. J. Starter switch. 2,421,519; June 3.

Pepin, Joseph, Chicago, Ill. Decorated container. 2,421,646; June 3.

Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. End brush. 2,421,647; June 3.

Philco Corporation, assignee: *See*—
Stewart, William A.

Phillips, Festus B., Los Angeles, Calif. Artificial eyelash. 2,421,432; June 3.

Phillips Petroleum Company, assignee: *See*—
Crouch, Willie W.
Jones, Jean P.

Pickens, Roy A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Bauxite benficiation by hydration of gangue. 2,421,648; June 3.

Pirrung, Ernest D., Struthers, Ohio. Coin bank. 2,421,577; June 3.

Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. System for energizing the electrodes of cathode-ray devices from the deflecting circuit. 2,421,520; June 3.

Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Interlacing system. 2,421,521; June 3.

Poole, Herbert M., Sardinia, Ohio. Adjustable clothes hanger. 2,421,433; June 3.

Pope, Winslow B., Detroit, Mich., assignor, by mesne assignments, to United States of America. Rocket projector and projectile. 2,421,522; June 3.

Porter, Roscoe C., Arlington, Va., assignor, by mesne assignments, to The Briggs Filtration Company, Bethesda, Md. Thermostatic orifice control. 2,421,713; June 3.

Posture Research Corporation, assignee: *See*—
Jones, Arthur E.

- Powell, Alric H.: *See*—
  - Strang, Harold E., and Powell.
- Prentice, G. E., Mfg. Co., assignee: *See*—
  - Legat, Robert C.
- Pressed Steel Tank Company, assignee: *See*—
  - Merker, Herman, and Graham.
- Prest, Clarence O., Burbank, Calif. Electrolytically reproducing prints or designs. 2,421,735; June 3.
- Priest, Homer F., New York, and A. V. Grosse, Bronxville, N. Y., assignors to the Government of the United States, as represented by the Director of the Office of Scientific Research and Development, Office for Emergency Management. Welding or cutting metal by hydrogenfluorine flame. 2,421,649; June 3.
- Pullman-Standard Car Manufacturing Company, assignee: *See*—
  - Candlin, James E., Jr., and Howe.
- Pure Oil Company, The, assignee: *See*—
  - Ayers, George W., Harton, and Henderson.
- Quaker Oats Company, The, assignee: *See*—
  - Nielsen, Erik R.
- Radio Corporation of America, assignee: *See*—
  - Beard, Joseph G.
  - Belar, Herbert, and Guedon.
  - Guedon, Emile C.
  - Haynes, Harold E.
  - Hillier, James.
  - Kreuzer, Barton.
  - Poch, Waldemar J.
  - Ryan, Byron F., and Smith.
  - Singer, Kurt.
  - Smith, Perry C., Runge, and Dornfeld.
  - Thompson, Leland E.
  - Tolson, William A.
  - Wickizer, Gilbert S.
  - Young, Charles J.
- Rady, William J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Battery-charging system. 2,421,523; June 3.
- Raley, John H.: *See*—
  - Rust, Frederick F., Raley, and Vaughan.
- Raymond Concrete Pile Company, assignee: *See*—
  - Upson, Maxwell M., and Smith.
- Readman, Eber J.: *See*—
  - Claus, Philip S., and Readman.
- Reason, Richard E., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Apparatus for measuring the degree of roughness of surfaces. 2,421,578; June 3.
- Reece Corporation, The, assignee: *See*—
  - Nichols, Walter E.
- Reece, Michael, Research Foundation, assignee: *See*—
  - Levinson, Sidney O., and Oppenheimer.
- Reeves, Edward D., Cranford, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,421,651; June 3.
- Reichel, Frank H., and R. T. K. Cornwell, Fredericksburg, Va., assignors, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Denitrating nitrocellulose articles. 2,421,391; June 3.
- Reiner, Leo A., Detroit, Mich. Scaffold caster. 2,421,464; June 3.
- Reistle, Carl E., and G. E. Cannon, Houston, Tex., assignors to Stndard Oil Development Company. Cementing wells. 2,421,434; June 3.
- Reppe, Walter, C. Schuster, and E. Weiss, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Producing pyrroles and hydrogenated pyrroles. 2,421,650; June 3.
- Resinous Products Chemical Company, The, assignee: *See*—
  - Bruson, Herman A.
- Richolt, Robert R.: *See*—
  - Crot, André, and Richolt.
- Rieveschl, George, Jr., Grosse Pointe Woods, assignor to Park, Davis & Company, Detroit, Mich. Dialkylaminoalkyl benzhydryl ethers and salts thereof. 2,421,714; June 3.
- Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,421,435; June 3.
- Robinson, Preston, Williamstown, and S. O. Dorst, North Adams, Mass., assignors to Sprague Electric Company. Electrical conductor. 2,421,652; June 3.
- Rohner, Traugott, Evanston, Ill. Peg for stringed instruments. 2,421,715; June 3.
- Rooney, John T., Buffalo, N. Y., assignor, by mesne assignments, to Amercan Optical Company, Southbridge, Mass. Adhesive for joining optical elements. 2,421,436; June 3.
- Rose, George W., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Machine worktable having magnetic clamp means. 2,421,716; June 3.
- Rose, Raymond H.: *See*—
  - Leek, George H., and Rose.
- Ross, William E., Berkeley, and G. J. Carlson, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Purification of metal halide catalyst in catalytic hydrocarbon conversions. 2,421,524; June 3.
- Runge, Frank E.: *See*—
  - Smith, Perry C., Runge, and Dornfeld.
- Rust, Frederick F., J. H. Raley, and W. E. Vaughan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Sensitization of hydrogen bromide catalyzed oxidation reactions. 2,421,392; June 3.
- Ryan, Byron F., and E. H. Smith, Van Nuys, Calif., assignors to Radio Corporation of America. Microphone boom. 2,421,437; June 3.
- Ryan, Commodore D., and E. P. Drake, Los Angeles, Calif., assignor to Commercial Controls Corporation, Rochester, N. Y. Tape moistening device for mail treating machines. 2,421,579; June 3.
- Ryan, John D.: *See*—
  - Erickson, Arvid M., and Ryan.
- Saco-Lowell Shops, assignee: *See*—
  - Kennedy, John A.
- Sal-Mar Laboratories, Inc., assignee: *See*—
  - Penk, Charles.
- Sanders, Elmore J., San Gabriel, Calif., and L. Leffingwell, Toledo, Ohio. Fuel atomizer for internal-combustion engines. 2,421,580; June 3.
- Sauer, Robert O., Schenectady, N. Y., assignor to General Electric Company. Preparation of polyorganohalogenopoly-siloxanes. 2,421,653; June 3.
- Saunders, Norman H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. 2,421,717; June 3.
- Savoye, François, Paris, France, vested in the Attorney General of the United States. Equipment for the projection of stereoscopic views and films. 2,421,393; June 3.
- Schelleng, John C., Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Distance measuring system. 2,421,394; June 3.
- Schenavar, Harold E., Detroit, Mich. Fishing float. 2,421,466; June 3.
- Schley, George C., Milwaukee, Wis. Baling press. 2,421,465; June 3.
- Schneider, William H., Milwaukee, Wis. Bevel protractor. 2,421,395; June 3.
- Schonberg, Mihkel: *See*—
  - Akerman, John D., and Schonberg.
- Schultz, William O., South Milwaukee, assignor to Line Material Company, Milwaukee, Wis. Protective equipment for circuit makers and breakers. 2,421,718; June 3.
- Schuster, Curt: *See*—
  - Reppe, Walter, Schuster, and Weiss.
- Schwartz, Morris, and W. Castedello, assignors to The Kalart Company, Inc., Stamford, Conn. Electrically controlled camera. 2,421,396; June 3.
- Scientific Research and Development, Office for Emergency Management, as represented by the Director of the Office of, assignee: *See*—
  - Priest, Homer F., and Grosse.
- Scott, John H., Houston, Tex. Drafting machine rolling contact distance calculator. 2,421,581; June 3.
- Scott & Williams, Incorporated, assignee: *See*—
  - Moody, Robert J., and Taylor.
- Scribner, Benjamin F., Berkeley, Calif. Determination of graphitic carbon. 2,421,467; June 3.
- Sentry Company, The, assignee: *See*—
  - Crocker, Percival B.
- Severin, Rosa, Forest Hills, N. Y. Hat. 2,421,654; June 3.
- Seyferth, Harold N., East Detroit, and G. Stewart, assignors to Ex-cell-O Corporation, Detroit, Mich. Boring machine. 2,421,655; June 3.
- Shanley, James J.: *See*—
  - Wallis, Charles E., and Shanley.
- Shell Development Company, assignee: *See*—
  - Finch, Harry D., and Ballard.
  - Jones, Paul R.
  - Ross, William E., and Carlson.
  - Rust, Frederick F., Raley, and Vaughan.
- Shepard, Hugh M., Baltimore, Md., and J. H. Bryan, Roselle, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Refining copper. 2,421,582; June 3.
- Shepardson, Robert M., Madison, N. J., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,421,615; June 3.
- Shonnard, John R., New York, N. Y., assignor to Times Facsimile Corporation. Phasing and drive-coupling arrangement for facsimile machines. 2,421,438; June 3.
- Simmons, Glen R., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Vitreous enamelled article. 2,421,719; June 3.
- Simplex Time Recorder Co., assignee: *See*—
  - Hobby, Harold E.
- Simpson, Benjamin C.: *See*—
  - Sutton, William J., and Simpson.
- Sinclair-Collins Valve Company, The, assignee: *See*—
  - Collins, John E.
- Singer, Kurt, North Hollywood, Calif., assignor to Radio Corporation of America. Selective transmitting, receiving, and oscillator circuit. 2,421,468; June 3.
- Singer, Phillip S., Great Neck, N. Y. Link bracelet or the like. 2,421,720; June 3.
- Skinner, Ralph L., assignee: *See*—
  - Kasten, Walter.
- Skoglund, Bertil J.: *See*—
  - Doering, Charles and H. H., Anderson, and Skoglund.

- Smith, Algernon L.: *See*—
  - Deems, Frank E., and Smith.
- Smith, Algernon L., Birmingham, Ala., assignor to Continental Gin Company. Cotton cleaner. 2,421,526; June 3.
- Smith, Clarence C., Flushing, assignor to International Business Machines Corporation, New York, N. Y. Photographic justifying apparatus. 2,421,656; June 3.
- Smith, Donald L., Dunellen, N. J., assignor to Air Reduction Company, Incorporated. Exhaust hood for welding machines. 2,421,469; June 3.
- Smith, Edward A.: *See*—
  - Upson, Maxwell M., and Smith.
- Smith, Elmer H.: *See*—
  - Ryan, Byron F., and Smith.
- Smith, Fred W., Cincinnati, H. W. Greider, Wyoming, and L. K. Becker, Cincinnati, Ohio, assignors to The Philip Carey Manufacturing Company. Molded fiber-cement composition product. 2,421,721; June 3.
- Smith, Horace L., Jr., Richmond, Va., assignor to Chain Belt Company, Milwaukee, Wis. Can feeding mechanism. 2,421,527; June 3.
- Smith, Jasper A., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerated cabinet with selective access. 2,421,439; June 3.
- Smith, Perry C., Moorestown, F. E. Runge, Haddon Heights, and E. G. Dornfeld, Audubon, N. J., assignors to Radio Corporation of America. Specimen holder assembly. 2,421,722; June 3.
- Smout, Donald D.: *See*—
  - Smout, Donald T. and D. D.
- Smout, Donald T. and D. D., Darlington, England. Welding electrode holder. 2,421,723; June 3.
- Society of Chemical Industry in Basle, assignee: *See*—
  - Felix, Friedrich, and von Capeller.
- Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
  - Johnson, George C.
- Somes, Howard E., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Heat-treating apparatus. 2,421,525; June 3.
- Speed Corporation, assignee: *See*—
  - Speed, James H.
- Speed, James H., Portland, Oreg., assignor to Speed Corporation. Handsaw filing guide. 2,421,657; June 3.
- Sprague Electric Company, assignee: *See*—
  - Dorst, Stanley O.
  - Robinson, Preston, and Dorst.
- Standard Oil Development Company, assignee: *See*—
  - Gohr, Edwin J.
  - Hall, Homer J.
  - Hemminger, Charles E., and Gohr.
  - Reeves, Edward D.
  - Reistle, Carl E., Jr., and Cannon.
  - Shepardson, Robert M.
  - Tyson, Charles W.
- Standard Railway Equipment Manufacturing Company, assignee: *See*—
  - Swann, James S.
- Steffen, Ralph M., North Hollywood, Calif. Underground oil recovery. 2,421,528; June 3.
- Stewart, Frank P., Salt Lake City, Utah. Pan motion belt apparatus for ore separation. 2,421,397; June 3.
- Stewart, Gilbert: *See*—
  - Seyferth, Harold N., and Stewart.
- Stewart-Warner Corporation, assignee: *See*—
  - Klug, Charles W.
- Stewart, William A., Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation. Measuring power output of high frequency signal generators. 2,421,724; June 3.
- Stewart, William A., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Variable frequency cavity resonator oscillator. 2,421,725; June 3.
- Strang, Harold E., Ardmore, and A. H. Powell, Yeadon, Pa., assignors to General Electric Company. Circuit interrupting device. 2,421,658; June 3.
- Stuart, Alfred A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Degaussing system. 2,421,583; June 3.
- Sunnen, Joseph, Clayton, Mo. Honing device. 2,421,470; June 3.
- Sutton, William J., and B. C. Simpson, assignors to Wilson Supply Company, Houston, Tex. Seal for pipe joints. 2,421,659; June 3.
- Svenska Cellulosa Aktibolaget, assignee: *See*—
  - Aström, Johan.
- Swann, James S., Homewood, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Hatch construction for railway car roofs. 2,421,660; June 3.
- Swingspout Measure Co., assignee: *See*—
  - Wiswell, Ozro N.
- Sylvania Electric Products Inc., assignee: *See*—
  - Donovan, Alfred J.
  - Leyshon, William E.
- Taborski, Alfred F., Buffalo, N. Y. Necktie. 2,421,471; June 3.
- Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Suction cleaning nozzle. 2,421,661; June 3.
- Taylor, John E.: *See*—
  - Moody, Robert H., and Taylor.
- Taylor, Taylor & Hobson Limited, assignee: *See*—
  - Reason, Richard E.
- Terry, Charles H., West Palm Beach, Fla. Mold for casting large flat panels. 2,421,584; June 3.
- Terry, John C., Hollywood, Calif. Bottle cap. 2,421,662; June 3.
- Textile Machine Works, assignee: *See*—
  - White, Le Roy.
- Thiry, Leon F., Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio. Fluid-modified mounting. 2,421,585; June 3.
- Thomas, Thomas H., South Bend, Ind. Pressure fluid servomotor. 2,421,726; June 3.
- Thompson, Leland E., Merchantville, N. J., assignor to Radio Corporation of America. Multiplex system having channels added at a relay station. 2,421,727; June 3.
- Thompson Products, Inc., assignee: *See*—
  - Venditty, Anthony.
- Thorpe, Christopher H. M., Huyton, assignor to British Insulated Cables Limited, Prescot, Lancashire, England. Linear measuring device. 2,421,440; June 3.
- Thronson, Edgar A., Lewiston, and A. I. Mendolia, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of methyl chloride. 2,421,441; June 3.
- Tibbetts Laboratories, Inc., assignee: *See*—
  - Tibbetts, Raymond W.
- Tibbetts, Raymond W., assignor to Tibbetts Laboratories, Inc., Camden, Maine. Piezoelectric device. 2,421,586; June 3.
- Times Facsimile Corporation, assignee: *See*—
  - Shonnard, John R.
- Tobacco, Frank J., Staten Island, N. Y. Shoe with channeled welt. 2,421,442; June 3.
- Tolson, William A., Princeton, N. J., assignor to Radio Corporation of America. Control of servo mechanism. 2,421,663; June 3.
- Tootal Broadhurst Lee Company Limited, assignee: *See*—
  - Nield, Leslie C.
- Torresen, Carel T., Santa Monica, Calif. Clamp. 2,421,443; June 3.
- Trevaskis, Henry, Birmingham, assignor to Dunlop Rubber Company Limited, London, England. Hydraulic brake and like apparatus. 2,421,728; June 3.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector with removable finger. 2,421,587; June 3.
- Tyler, John M., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Engine accessory mount. 2,421,529; June 3.
- Tyne, Gertrude H., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Bobbin-wound coil. 2,421,444; June 3.
- Tyson Bearing Corporation, assignee: *See*—
  - Diamond, Blaise L.
- Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Contacting fluids with solid particles. 2,421,664; June 3.
- Umbdenstock, George B., Prairie View, Ill. Steel barrel plug wrench. 2,421,665; June 3.
- Under Water Welders & Repairers Limited, assignee: *See*—
  - Boot, Robert H. F.
- Union Oil Company of California, assignee: *See*—
  - Cook, James F.
  - Wilson, Chester E., and Dodge.
- United Aircraft Corporation, assignee: *See*—
  - Hasbrouck, John S.
  - Molloy, Richard C.
  - Tyler, John M.
- United Shoe Machinery Corporation, assignee: *See*—
  - Hardie, John C.
  - Robinson, Charles A.
- United States of America, assignee: *See*—
  - Eksergian, Carolus L.
  - Pope, Winslow B.
- Upson, Maxwell M., Englewood, and E. A. Smith, Chatham, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y. Method of and apparatus for making concrete piles. 2,421,666; June 3.
- Urbschat, Ewald: *See*—
  - Bonrath, Wilhelm, and Urbschat.
- Uxbridge Worsted Co., Inc., assignee: *See*—
  - Clarke, Farrell V.
- Vanderzee, Harry H., Racine, Wis., assignor to Joy Manufacturing Company. Lubricator for idler bearings. 2,421,530; June 3.
- Vaughan, William E.: *See*—
  - Rust, Frederick F., Raley, and Vaughan.
- Veit, Hermann E., Towson, and W. C. Miles, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Apparatus for beading or flaring metal tubing. 2,421,667; June 3.
- Venditty, Anthony, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Joint. 2,421,588; June 3.
- Von Capeller, Rudolf: *See*—
  - Felix, Friedrich, and von Capeller.
- Von Euler, Hans: *See*—
  - Adler, Erich, Gie, and von Euler.

Waldron, John, Corporation, assignee: *See—*
  Dalton, George A.
Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Reversible gas turbine. 2,421,445; June 3.
Wallis, Charles E., Wauwatosa, Wis., and J. J. Shanley, Grosse Pointe, Mich., assignors to National Steel Corporation. Structural nailing member. 2,421,446; June 3.
Walton, Eric, Otford, and M. B. Green, Crouch Hill, England, assignors to Burroughs Wellcome & Co. (U. S. A.) Incorporated, New York, N. Y. Production of 3-aryl-1,5-dibrompentane-3-carboxylic acid. 2,421,729; June 3.
War, United States of America, as represented by the Secretary of, assignee: *See—*
  Dittmar, Frank H.
  Patton, Benjamin B.
Ware, David H., Schenectady, N. Y., assignor to General Electric Company. Bearing construction. 2,421,668; June 3.
Warner, Maurice, Los Angeles, Calif. Cigarette maker. 2,421,669; June 3.
Waseige, Charles R., Rueil, France; vested in the Attorney General of the United States. Production of compressed air on board aircraft. 2,421,398; June 3.
Watkins, Frank W., Cleveland, Ohio. Hanger for lighting fixtures. 2,421,447; June 3.
Way, Glenn W., Delaware, Ohio. Endless tread industrial truck. 2,421,472; June 3.
Wayne Knitting Mills, assignee: *See—*
  White, William D., and Graff.
Webb, Jervis B., Bloomfield Township, Oakland County, assignor to Jervis B. Webb Company, Detroit, Mich. Rollerway skid. 2,421,670; June 3.
Webb, Jervis B., Company, assignee: *See—*
  Webb, Jervis B.
Webster, David A.: *See—*
  Albert, Orrin W., and Webster.
Wein, Frank, New York, assignor of one-half to I. S. Klemes, Forest Hills, N. Y. Dress construction and shoulder pad therefor. 2,421,736; June 3.
Weiss, Emil: *See—*
  Reppe, Walter, Schuster, and Weiss.
Welk, Nelson S., and C. O. Carpenter, assignors to The McBee Company, Athens, Ohio. Direct action keypunch. 2,421,531; June 3.
Welker, Ralph E.: *See—*
  Mamlin, Morris W., and Welker.
Welti, Edward, Flushing, assignor to Hafner Associates, Inc., Long Island City, N. Y. Apparatus for weaving fabrics of plastic materials. 2,421,532; June 3.
West, Byron L., Plainfield, and C. E. Lewis, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Chrome monazo complex. 2,421,737; June 3.
West, William A., Pine Bluff, Ark. Wheel attachment for boats. 2,421,671; June 3.
Western Electric Company, Incorporated, assignee: *See—*
  Ensor, Vernon C., and Johnston.
  Simmons, Glen R.
Westinghouse Electric Corporation, assignee: *See—*
  Clark, Earl K.
  Taylor, Charles H.
White, Le Roy, Shillington, assignor to Textile Machine Works, Wyomissing, Pa. Lubricating device. 2,421,738; June 3.
White, William D., and G. W. Graff, assignors to Wayne Knitting Mills, Fort Wayne, Ind. Mechanism for the formation of breather openings in knitted stocking fabrics. 2,421,473; June 3.
Whitney Blake Company, The, assignee: *See—*
  Judisch, Carl H.
Wickizer, Gilbert S., Riverhead, N. Y., assignor to Radio Corporation of America. Weather prediction with ultra high frequency radio waves. 2,421,730; June 3.
Williams Cut Sole Co., assignee: *See—*
  Williams, Parker.
Williams, Parker, Weston, assignor to Williams Cut Sole Co., Boston, Mass. Machine for cutting shoe sole taps. 2,421,731; June 3.
Wilson, Chester E., San Pedro, and M. L. Dodge, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Rust preventive composition. 2,421,672; June 3.
Wilson, Milo C., and V. D. Davidson, Corpus Christi, Tex.; said Wilson assignor to said Davidson. Cement retainer. 2,421,399; June 3.
Wilson Supply Company, assignee: *See—*
  Sutton, William J., and Simpson.
Wiswell, Ozro N., assignor to Swingspout Measure Co., Los Angeles, Calif. Can puncturing spout. 2,421,589; June 3.
Witkower, Max, Los Angeles, Calif. Brassière. 2,421,448; June 3.
Young, Charles J., Ardmore, Pa., assignor to Radio Corporation of America. Facsimile receiver. 2,421,673; June 3.
Young, William, Washington, D. C. Door sealing arrangement. 2,421,400; June 3.
Zuber, John G., Chicago, Ill. Hardness measuring instrument. 2,421,449; June 3.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Amorphous carbon, Manufacture of. J. W. Ayers. Re. 22,886; June 3.
Oxide from the surface of metals, Removing. H. R. Spence and H. W. Hooker. Re. 22,887; June 3.

LIST OF DESIGN INVENTIONS

Automobile and airplane, Combination. A. Braeman. 146,847; June 3.
Bassinet. W. Maxwell. 146,865; June 3.
Bottle. B. Lewis. 146,862; June 3.
Bottle stopper. S. Farbstein. 146,853; June 3.
Box, Music. K. C. Shyvers. 146,880–1; June 3.
Bracelet. A. Katz. 146,859; June 3.
Cabinet or the like, Radio. F. C. Burton. 146,849; June 3.
Cabinet, Phonograph. D. C. Rockola. 146,874; June 3.
Cabinet, Radio transmitter. M. E. Kluge. 146,860; June 3.
Chain for a bracelet or similar article, Link. G. E. Fournier. 146,854; June 3.
Coat. M. Frascino. 146,855; June 3.
Coat. J. Freedman. 146,856; June 3.
Coat. I. Goldstein. 146,857; June 3.
Desk set and lamp standard, Combined. J. H. Steinberg. 146,883; June 3.
Dress. K. Rost. 146,877; June 3.
Earring or similar article. M. Chernow. 146,851; June 3.
Faucet and soap dish, Combined. A. G. Smolensky. 146,882; June 3.
Globe, Lamp. J. V. Schraig. 146,878; June 3.
Holder for wood matches. F. J. Murphy. 146,868; June 3.
Holder, Tie. O. V. Anderson. 146,842–3; June 3.
Iron, Electric. C. Karstadt. 146,858; June 3.
Jewelry finding. C. Arpels. 146,844; June 3.
Jewelry finding. M. Chernow. 146,852; June 3.
Lamp or similar article. A. G. Miller. 146,867; June 3.
Lighter, Cigar and cigarette. E. W. Rector. 146,872; June 3.
Piano. W. Zaiser. 146,888–91; June 3.
Pin or similar article. M. Paschman. 146,870–1; June 3.
Pipe, Smoking. A. R. Mellor. 146,866; June 3.
Rack and desk unit, Combination pen. P. Rossi. 146,875–6; June 3.
Rack or similar article, Spool display. C. S. Olsen. 146,869; June 3.
Serving utensil and ash tray, Combined. C. R. Vigars. 146,886; June 3.
Shade or similar article, Lamp. A. Rigolo. 146,873; June 3.
Shoe clog. L. C. Tullgren and J. S. Bonkiewicz. 146,885; June 3.
Speaker housing. B. W. Lowell, Jr. 146,863; June 3.
Spray head, Bath. C. T. Manville and P. S. Madsen. 146,864; June 3.
Stand for holding cosmetics and similar articles. J. W. Wheeler. 146,887; June 3.
Table caster. L. Chazin. 146,850; June 3.
Table, Kitchen. A. Bach. 146,845–6; June 3.
Truck or similar article, Milk. O. H. Brickson. 146,848; June 3.
Vehicle, Automotive. R. P. Sweger. 146,884; June 3.
Vehicle, Road. T. W. Sebern. 146,879; June 3.
Wardrobe and bath unit, Combined infant. L. B. Kneeland. 146,861; June 3.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF JUNE, 1947

Note.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerators for natural synthetic rubber, Vulcanization. E. W. Cook and E. O. Hook. 2,421,544; June 3.
Acetals of pyruvic aldehyde. H. R. Guest, L. G. MacDowell, and R. W. McNamee. 2,421,559; June 3.
Adhesive for joining optical elements. J. T. Rooney. 2,431,436; June 3.
Adjustable clothes hanger. H. M. Poole. 2,421,433; June 3.
Air conditioner, Hydro-vapor. G. Haniquet. 2,421,557; June 3.
Air on board aircraft, Production of compressed. C. R. Waseige. 2,421,398; June 3.
Airplane control surface. W. M. Hawkins. 2,421,694; June 3.
Airplanes for refueling, Method and apparatus for handling. W. C. Leitch and J. A. Logan. 2,421,512; June 3.
Alkyl carbamates in color compositions. R. H. Kienle and C. A. Amick. 2,421,622; June 3.
α,β-(p,p′-dihydroxy-diaryl)-*α,β*-dialkyl-alkyl and -alkylene, Manufacture of compounds. E. Adler, G. J. Gie, and H. V. Euler. 2,421,401; June 3.
Amines, Preparing. E. J. Gohr. 2,421,608; June 3.
Anchor for plural electric conductors. C. H. Judisch. 2,421,456; June 3.
Annealing device for wire, Electrical resistance. J. S. Boyers. 2,421,537; June 3.
Antenna. Coaxial half-wave microwave. N. Bishop. 2,421,593; June 3.
Apparatus for bending or flaring metal tubing. H. E. Veit and W. C. Miles. 2,421,667; June 3.
Apparatus for casting dental restorations. I. Hordes. 2,421,698; June 3.
Apparatus for controlling electric motors. O. W. Livingston. 2,421,632; June 3.
Apparatus for feeding clay to molds in the manufacture of pottery ware. W. J. Miller. 2,421,572; June 3.
Apparatus for filling containers. R. B. McKinnis. 2,421,708; June 3.
Apparatus for grinding articles of irregular form. R. Davies. 2,421,548; June 3.
Apparatus for heating oil and other fluid media. L. P. Hynes. 2,421,562; June 3.
Apparatus for measuring the degree of roughness of surfaces. R. E. Reason. 2,421,578; June 3.
Apparatus for producing molding dies and the like. C. and H. H. Doering, E. W. Anderson, and B. J. Skoglund. 2,421,454; June 3.
Apparatus for producing sharply defined signaling impulses. C. J. Fitch. 2,421,606; June 3.
Apparatus for rustproofing or the like. R. H. Gordon. 2,421,610; June 3.
Apparatus for salvage. H. E. Gross. 2,421,377; June 3.
Apparatus for supporting portable radio sets. D. H. Mitchell. 2,421,516; June 3.
Apparatus for weaving fabrics of plastic materials. E. Weltl. 2,421,532; June 3.
Applicator for calking compound cartridges, Extruding. C. Moots and R. C. Hooker. 2,421,711; June 3.
Arc welding electrodes. R. H. F. Boot. 2,421,594; June 3.
Articles in tandem through a drying chamber, Reciprocable means for automatically moving a series of. V. C. Ensor and F. D. Johnston. 2,421,690; June 3.
Atomizer for internal-combustion engines, Fuel. E. J. Sanders and L. Leffingwell. 2,421,580; June 3.
Auxiliary fuel tank. C. L. Johnson. 2,421,699; June 3.
Azo dyes from 2,6 dihalo 4 nitraniline. F. Felix and R. von Capeller. 2,421,553; June 3.
Backstays to shoe uppers, Applying. C. C. Eaton. 2,421,604; June 3.
Balance for aircraft controls, Articulated. W. S. Diehl. 2,421,374; June 3.
Baling press. G. C. Schley. 2,421,465; June 3.
Bank, Coin. E. D. Pirrung. 2,421,577; June 3.
Battery charging system. W. J. Rady. 2,421,523; June 3.
Bearing construction. D. H. Ware. 2,421,668; June 3.
Belt apparatus for ore separators, Pan motion. F. P. Stewart. 2,421,397; June 3.
Binder, Loose-leaf. A. A. Anderskow. 2,421,404; June 3.
Blower, Transport. D. A. Grossman. 2,421,418; June 3.
Boat, Life saving. G. H. Bingham, Jr. 2,421,679; June 3.
Boiler. G. A. Close. 2,421,684; June 3.
Boring machine. H. N. Seyferth and G. Stewart. 2,421,655; June 3.
Bottle cap. J. C. Terry. 2,421,662; June 3.
Bracelet or the like, Link. P. S. Singer. 2,421,720; June 3.
Brake and like apparatus, Hydraulic. H. Trevaskis. 2,421,728; June 3.
Brake lever, Emergency. W. F. Benning. 2,421,405; June 3.
Brassière. L. Hunau. 2,421,561; June 3.
Brassière. M. Witkower. 2,421,448; June 3.
Brush, End. R. O. Peterson. 2,421,647; June 3.
Butchering apparatus. E. D. Davidson. 2,421,547; June 3.
Button locked down siding. W. C. Bowman. 2,421,407; June 3.
Cabinet: *See*—
  Suggestion cabinet.
Cabinet with selective cases, Refrigerated. J. A. Smith. 2,421,439; June 3.
Camera, Electrically controlled. M. Schwartz and W. Castedello. 2,421,396; June 3.
Can feeding mechanism. H. L. Smith, Jr. 2,421,527; June 3.
Can puncturing spout. O. N. Wiswell. -2,421,589; June 3.
Cap: *See*—
  Bottle cap.
Carbonate material and for other purposes, Method and furnace apparatus for calcining. G. E. Connolly. 2,421,542; June 3.
Card, photograph, and other filing sheets, Visible. L. V. Hermon. 2,421,503; June 3.
Carriage, Foldable baby. G. Mochan. 2,421,388; June 3.
Cartridge boxes, Package of. F. H. Dittmar. 2,421,486; June 3.
Casing and nozzle construction for rocket motors. C. L. Eksergian. 2,421,552; June 3.
Cement retainer. M. C. Wilson and V. D. Davidson. 2,421,399; June 3.
Centrifugal machine. E. L. Miller. 2,421,709; June 3.
Chair back, Adjustable. A. E. Jones. 2,421,702; June 3.
Chamber structure for heat exchanger, Combustion. S. J. Budlane. 2,421,370; June 3.
Chemical production of oxygen. L. G. Jenness. 2,421,381; June 3.
Chrome monazo complex. B. L. West and C. E. Lewis. 2,421,737; June 3.
Cigarette maker. M. Warner. 2,421,669; June 3.
Circuit: *See*—
  Selective transmitting, receiving, and oscillator circuit.
Circuit interrupting device. H. E. Strang and A. H. Powell. 2,421,658; June 3.
Circuit time control device. D. D. Clayton. 2,421,411; June 3.
Clamp. C. T. Torresen. 2,421,443; June 3.
Cleaner: *See*—
  Cotton cleaner.
Cleavage of glycols, Catalytic. H. D. Finch and S. A. Ballard. 2,421,554; June 3.
Clip lock inclined baby bottle holder. A. Marino. 2,421,458; June 3.
Closing the ends of metal tube. O. A. Langos. 2,421,629; June 3.
Clutch structure. C. Gerst. 2,421,493; June 3.
Coatings from metallic conductors, Removing. P. Holmes. 2,421,617; June 3.
Coil, Bobbin-wound. G. H. Tyne. 2,421,444; June 3.
Collapsible fiberboard container. J. Crawshaw. 2,421,453; June 3.
Compressed gas container. H. Merker and J. L. Graham. 2,421,460; June 3.
Concrete piles, Method of and apparatus for making. M. M. Upson and E. A. Smith. 2,421,666; June 3.
Concrete spring tie. J. B. Hayes. 2,421,502; June 3.
Conditioner, Fiber. J. Blewett. 2,421,478; June 3.
Conditioning artificial silk thread. H. B. Kline and K. M. McLellan. 2,421,624; June 3.
Conductor, Electrical. P. Robinson and S. O. Dorst. 2,421,652; June 3.
Container: *See*—
  Collapsible fiberboard container.
  Compressed gas container.
  Decorated container.
Container for merchandise, Safety. J. A. Bentz. 2,421,678; June 3.
Container handle structure, Portable. H. G. Donnelly. 2,421,687; June 3.
Control for servo mechanism. W. A. Tolson. 2,421,663; June 3.
Control mechanism for coal washing jigs, Retarded float. R. M. Norton. 2,421,576; June 3.

Controller for induction motors. E. Pell. 2,421,431; June 3.
Controller, Sequence. J. E. Collins. 2,421,481; June 3.
Copper, Refining. H. M. Shepard and J. H. Bryan. 2,421,582; June 3.
Cot for textile rolls, Heat dissipating. A. J. Maino. 2,421,426; June 3.
Cotton cleaner. F. E. Deems and A. L. Smith. 2,421,483; June 3.
Cotton cleaner. A. L. Smith. 2,421,526; June 3.
Coupling: *See*—
  Flexible coupling.
Cover: *See*—
  Wheel cover.
Cover for oxygen regulators, Diaphragm. J. P. Johnson. 2,421,700; June 3.
Cover for vehicle wheels, Ornamental. G. A. Lyon. 2,421,384; June 3.
Cowling arrangement. H. W. Elkin. 2,421,689; June 3.
Crude oil separator. P. M. Elliott. 2,421,375; June 3.
Current electric power systems, Protection of alternating. P. H. Light. 2,421,630; June 3.
Cushion shoe and making same. C. C. Eaton and C. C. Eaton, Jr. 2,421,605; June 3.
Damping device, Vibration. R. W. Dillon. 2,421,549; June 3.
Decorated container. J. Pépin. 2,421,646; June 3.
Degaussing system. A. A. Stuart, Jr. 2,421,583; June 3.
Denitrating nitrocellulose articles. F. H. Reichel and R. T. K. Cornwell. 2,421,391; June 3.
Dental lathe pan, Agitating ejector type. R. L. Guedel. 2,421,498; June 3.
Detector with movable finger, Weft. R. G. Turner. 2,421,587; June 3.
Device for testing static accumulating properties of textile fibers. R. V. Ott. 2,421,430; June 3.
Dial calipers, Pivoted. C. Moerman. 2,421,517; June 3.
Dial for photoelectric light meters, Indicating. R. D. Hickok. 2,421,504; June 3.
Dialkanol piperazines, Mono-substituted. J. D. Malkemus. 2,421,707; June 3.
Dialkylaminoalkyl benzhydryl ethers and salts thereof. G. Rieveschl, Jr. 2,421,714; June 3.
Diaryl-dialkyl-ethane derivatives and manufacture of same. E. Adler. 2,421,402; June 3.
Die plate for flanging metallic sheets of variable size. H. B. Lindsay. 2,421,457; June 3.
Diolefins, Manufacture of. J. P. Jones. 2,421,506; June 3.
Distance calculator, Drafting machine rolling contact. J. H. Scott. 2,421,581; June 3.
Distance measuring system J. C. Schelleng. 2,421,394; June 3.
Door check and closer, Combined. H. Brown. 2,421,595; June 3.
Drain for boats, Bilge. C. L. Bunten. 2,421,479; June 3.
Dress constructions and shoulder pad therefor. F. Wein. 2,421,736; June 3.
Dressing agents employing a hydroxy phenyl diazonium compound, Seed. W. Bonrath and E. Urbschat. 2,421,369; June 3.
Drill head, Automatic. P. S. Claus and E. J. Readman. 2,421,541; June 3.
Dump receptacle. S. W. Johnson. 2,421,701; June 3.
Dynamoelectric machine. S. R. Bergman. 2,421,592; June 3.
Electromagnet relay construction. T. Obszarny. 2,421,642; June 3.
Enamelled article, Vitreous. G. R. Simmons. 2,421,719; June 3.
Engine: *See*—
  Internal-combustion engine.
Engine and torque transmitter control. E. Grieshaber and W. J. Johnson. 2,421,496; June 3.
Equipment for circuit makers and breakers, Protective. W. O. Schultz. 2,421,718; June 3.
Equipment for the projection of stereoscopic views and films. F. Savoye. 2,421,393; June 3.
Ethers of esters of lactic acid. H. R. Guest, L. G. MacDowell, and R. W. McNamee. 2,421,378; June 3.
Ethers, Unsaturated cyclic. H. A. Bruson. 2,421,597; June 3.
Eyelash, Artificial. F. B. Phillips. 2,421,432; June 3.
Facsimile receiver. C. J. Young. 2,421,673; June 3.
Fender construction. G. A. Lyon. 2,421,634; June 3.
Fiber-cement composition product, Molded. F. W. Smith, H. W. Greider, and L. K. Becker. 2,421,721; June 3.
Fiber, Method and system of conditioning. J. Blewett. 2,421,477; June 3.
Figs, Processing. W. F. Elliott. 2,421,489; June 3.
Filing guide, Handsaw. J. H. Speed. 2,421,657; June 3.
Filter. W. Kasten. 2,421,705; June 3.
Filter pack and its manufacture. W. Kasten. 2,421,704; June 3.
Flexible coupling. G. A. Dalton. 2,421,546; June 3.
Float, Fishing. H. E. Schenavar. 2,421,466; June 3.
Fluid drive and automatic torque multiplier, Combination. C. R. Bacon. 2,421,675; June 3.
Fluid-modified mounting. L. F. Thiry. 2,421,585; June 3.
Fluids with solid particles, Contacting. C. W. Tyson. 2,421,664; June 3.
Fluorescent glow lamp. W. E. Leyshon. 2,421,571; June 3.
Force lasting machine. J. S. Kamborian. 2,421,508; June 3.
Form for molding grave markers and the like in situ. E. A. Bailey. 2,421,535; June 3.
Fuel conditioning device. G. M. Bicknell. 2,421,406; June 3.
Fuel feeding system. L. Beeh. 2,421,475; June 3.
Fuels, Production of motor or aviation. D. A. Howes. 2,421,619; June 3.
Furfural, Catalytic oxidation of. E. R. Nielsen. 2,421,428; June 3.
Furnace. P. B. Crocker. 2,421,482; June 3.
Fuselage skeleton for rotative wing aircraft. J. R. Huber. 2,421,620; June 3.
Gaging apparatus, Electrical. C. M. Hathaway. 2,421,420; June 3.
Gaging machine for selecting rolls according to size, Pneumatic. B. L. Diamond. 2,421,484; June 3.
Gas turbine, Reversible. C. R. Waller. 2,421,445; June 3.
Gear element. N. Noreyko. 2,421,463; June 3.
Gelatine, Preparing blasting. H. W. Botts. 2,421,536; June 3.
Glass articles with luminous material, Coating tubular. A. J. Donovan. 2,421,550; June 3.
Glove with change pocket. K. E. Dodge. 2,421,412; June 3.
Governor. E. Grieshaber and W. J. Johnson, Jr. 2,421,497; June 3.
Graphitic carbon, Determination of. B. F. Scribner. 2,241,467; June 3.
Gripper with removable pad, Stock. 2,421,563; June 3.
Hammer, Pneumatic nailing. H. J. Alter. 2,421,474; June 3.
Hand motor. P. J. Herold. 2,421,455; June 3.
Hanger: *See*—
  Adjustable clothes hanger.
Hanger for lighting fixture. F. W. Watkins. 2,421,447; June 3.
Harvester, Beet. L. Andrus. 2,421,534; June 3.
Hat. R. Severin. 2,421,654; June 3.
Hatch construction for railway car roofs. J. S. Swann. 2,421,660; June 3.
Heat exchanger. S. J. Budlane. 2,421,371; June 3.
Heat-sealing element. J. Cozza. 2,241,373; June 3.
Heat treating apparatus. H. E. Somes. 2,421,525; June 3.
Heater control. C. W. Klug. 2,241,565; June 3.
Helmet construction. G. A. Lyon. 2,421,633; June 3.
Helmet, Safety. A. J. Ostli. 2,421,643; June 3.
Heterocyclic nitrogen compounds, Resolution of mixtures of. K. H. Engel. 2,421,413; June 3.
Hoe. J. H. Cumpston. 2,421,600; June 3.
Holder: *See*—
  Clip lock inclined baby bottle holder.
  Welding electrode holder.
Holder assembly, Specimen. J. Hillier. 2,421,696; June 3.
Holder assembly, Specimen. P. C. Smith, F. E. Runge, and E. G. Dornfeld. 2,421,722; June 3.
Honing device. J. Sunnen. 2,421,470; June 3.
Hood for welding machines, Exhaust. D. L. Smith. 2,241,469; June 3.
Hydration of gangue, Bauxite beneficiation by. R. A. Pickens. 2,421,648; June 3.
Hydrocarbon conversions, Purification of metal halide catalyst in catalytic. W. E. Ross and G. J. Carlson. 2,421,524; June 3.
Hydrocarbon fluids, Treating. H. J. Hall. 2,421,614; June 3.
Hydrocarbon fluids, Treating. R. M. Shepardson. 2,421,615; June 3.
Hydrocarbon oils, Catalytic treatment of. C. E. Hemminger and E. J. Gohr. 2,421,616; June 3.
Hydrocarbon oils, Conversion of. E. D. Reeves. 2,421,651; June 3.
Hydrocarbons, Catalytic conversion of. A. Belchetz. 2,421,677; June 3.
Hydrocarbons, Treating high-molecular-weight. A. J. Holberg. 2,421,421; June 3.
Hydrogen bromide catalyzed oxidation reactions, Sensitization of. F. F. Rust, J. H. Raley, and W. E. Vaughan. 2,421,392; June 3.
Ice removing covering for aircraft. W. H. Hunter and W. C. Green. 2,421,621; June 3.
Imidazolone color formers. B. R. Harriman. 2,421,693; June 3.
Impregnated abrasive wheel. S. S. Kistler. 2,421,623; June 3.
Insecticide. F. B. La Forge. 2,421,570; June 3.
Insecticide. F. B. La Forge and W. F. Barthel. 2,421,569; June 3.
Insulating tape, Electric. A. A. New, S. G. Foord, and D. R. Beckwith. 2,421,640; June 3.
Insulin kit. L. G. Green. 2,421,495; June 3.
Interlacing system. W. J. Poch. 2,421,521; June 3.
Internal-combustion engine. O. Henning. 2,421,733; June 3.
Isobutene and isopentenes in the presence of sulfuric acids, Interpolymerization of. G. C. Johnson. 2,421,422; June 3.
Isoparaffins and reactivation of the catalysts used therein, Preparation of. G. W. Ayers, E. E. Harton, and L. M. Henderson. 2,421,674; June 3.
Jet propulsion. R. C. Molloy. 2,421,518; June 3.

Joint: *See—*
  Universal joint.
Joint. A. Venditty. 2,421,588; June 3.
Joint construction for aviator's suits, Clamp-sealed. J. D. Akerman and M. Schonberg. 2,421,533; June 3.
Joint for sectionalized electric distribution systems. J. E. P. Burge. 2,421,480; June 3.
Keypunch, Direct action. N. S. Welk and C. O. Carpenter. 2,421,531; June 3.
Lamp: *See—*
  Fluorescent flow lamp.
Lasting machine. C. A. Robinson. 2,421,435; June 3.
Lawn mower. W. D. Goldsmith. 2,421,558; June 3.
Lever control unit. M. D. Glass, W. W. Dalrymple, and H. F. Halsted. 2,421,494; June 3.
Lifter for hot or cold containers. W. C. Knapp. 2,421,509; June 3.
Light slit for photoelectric sound heads, Prefocused, quickly adjustable. L. A. McNabb. 2,421,637; June 3.
Lightning arrester, Tank mounted. K. K. Paluev. 2,421,644; June 3.
Liner for containers, Plastic. R. B. Gray and J. C. De Weese. 2,421,613; June 3.
Loader and stacker, Hydraulic. S. W. Kober. 2,421,566; June 3.
Loom dobby. J. D. Cash, Jr. 2,421,599; June 3.
Lubricant. J. F. Cook. 2,421,543; June 3.
Lubricating device. L. White. 2,421,738; June 3.
Lubricator for idler bearings. H. H. Vanderzee. 2,421,530; June 3.
Machine for cutting shoe sole taps. P. Williams. 2,421,731; June 3.
Machine for forming and reinforcing cutouts. L. F. Muther and F. S. Glines. 2,421,639; June 3.
Machine for marking circular knit hosiery for boarding. R. J. Moody and J. E. Taylor. 2,421,638; June 3.
Machine for producing shingle anchor nails and the like. J. P. Moore and M. B. Dunlap. 2,421,573; June 3.
Machine for rolling grooves in cylinders without damaging longitudinal seams, Metalworking. A. J. Barrie and R. J. Dwyer. 2,421,450; June 3.
Measuring device, Linear. C. H. M. Thorpe. 2,421,440; June 3.
Measuring instrument, Hardness. J. G. Zuber. 2,421,449; June 3.
Mechanism for the formation of breather openings in knitted stocking fabrics. W. D. White and G. W. Graff. 2,421,473; June 3.
Metal removing tool. W. H. Evans. 2,421,490; June 3.
Metallic printing screens, Making. H. B. Fowler. 2,421,607; June 3.
Methyl chloride, Purification of. E. A. Thronson and A. I. Mendolia. 2,421,441; June 3.
Microphone boom. B. F. Ryan and E. H. Smith. 2,421,437; June 3.
Miller, Hand. N. M. Marsilius. 2,421,459; June 3.
Moistening device for mail treating machines, Tape. C. D. Ryan and E. P. Drake. 2,421,579; June 3.
Mold for casting large flat panels. C. H. Terry. 2,421,584; June 3.
Motor: *See—*
  Hand motor.
Mount, Engine accessory. J. M. Tyler. 2,421,529; June 3.
Mounting: *See—*
  Fluid-modified mounting. Spindle mounting.
Mucking machine, Shaft. J. W. Harding. 2,421,379; June 3.
Multiple spindle mechanism. E. H. Moak. 2,421,461; June 3.
Multiplex system having channels added at a relay station. L. E. Thompson. 2,421,727; June 3.
Multivitamin compositions. L. O. Buxton and S. T. Lipsius. 2,421,598; June 3.
Nailing member, Structural. C. E. Wallis and J. J. Shanley. 2,421,446; June 3.
Necktie. A. F. Taborski. 2,421,471; June 3.
Notebook. H. F. Dyck. 2,421,487; June 3.
Nozzle, Suction cleaning. C. H. Taylor. 2,421,661; June 3.
Odograph. C. D. Lake and G. F. Daly. 2,421,628; June 3.
Oil, Lubricating. B. H. Lincoln and G. D. Byrkit. 2,421,631; June 3.
Oil recovery, Underground. R. M. Steffen. 2,421,528; June 3.
1,3-butylene glycol, Production of. F. R. Balcar. 2,421,451; June 3.
Orifice control, Thermostatic. R. C. Porter. 2,421,713; June 3.
Oscillator. J. G. Beard. 2,421,676; June 3.
Oscillator, Variable frequency cavity resonator. W. A. Stewart. 2,421,725; June 3.
Oven control. M. H. Cody. 2,421,452; June 3.
Oxidation process, Mercaptan. W. W. Crouch. 2,421,545; June 3.
Oxygen, Absorbing. L. Kurland. 2,421,568; June 3.
Paste, Detergent. J. Kamlet. 2,421,703; June 3.
Peg for stringed instruments. T. Rohner. 2,421,715; June 3.
Phase and drive-coupling arrangement for facsimile machines. J. R. Shonnard. 2,421,438; June 3.
Photoelectric control apparatus for diaphragms. H. Belar and E. C. Guedon. 2,421,476; June 3.
Photographic justifying machine. C. C. Smith. 2,421,656; June 3.
Physical measurements in boreholes, Method and apparatus for taking. S. Krasnow. 2,421,423; June 3.
Piezoelectric device. R. W. Tibbetts. 2,421,586; June 3.
Plate for worn railway ties, Expansion repair. J. H. Dooling. 2,421,602; June 3.
Plate, Key holder. I. Geller. 2,421,492; June 3.
Pocket, Garment. M. A. Einbinder. 2,421,488; June 3.
Pocket, Safety. C. W. Henson. 2,421,695; June 3.
Polyorganohalogenopolysiloxanes, Preparation of. R. O. Sauer. 2,421,653; June 3.
Polyvinyl chloride, chlorinated paraffin wax, plasticizer compositions, Thermoplastic. E. F. Brookman and S. F. Pearce. 2,421,409; June 3.
Polyvinyl halide composition containing chlorinated paraffin wax, Thermoplastic. E. F. Brookman and S. F. Pearce. 2,421,408; June 3.
Power output of high-frequency signal generators, Measuring. W. A. Stewart. 2,421,724; June 3.
Preparation of sweetening medium from fruit. A. M. Erickson and J. D. Ryan. 2,421,376; June 3.
Press: *See—*
  Baling press.
Pressure proportioner, Duplex. H. J. Burke. 2,421,372; June 3.
Prints or designs, Electrolytically reproducing. C. O. Prest. 2,421,735; June 3.
Projector and projectile, Rocket. W. B. Pope. 2,421,522; June 3.
Propeller, Dual rotation. T. B. Martin and K. L. Baringer. 2,421,514; June 3.
Propulsion device. P. F. Hackethal. 2,421,692; June 3.
Protector for fire fighters, Face. M. W. Mamlin and R. E. Welker. 2,421,427; June 3.
Protractor, Bevel. W. H. Schneider. 2,421,395; June 3.
Pulley, Alignable. A. Crot and R. R. Richolt. 2,421,685; June 3.
Pulp and liquor, Treatment of sulphite. J. Åström. 2,421,590; June 3.
Punch, Registering. R. M. Haff. 2,421,500; June 3.
Pyrroles and hydrogenated pyrroles, Producing. W. Reppe, G. Schuster, and E. Weiss. 2,421,650; June 3.
Rail assembly for Venetian blinds, Bottom. J. L. Hunter. 2,421,505; June 3.
Receptacle: *See—*
  Dump receptacle.
Recorder, Card time printing and punching. H. E. Hobby. 2,421,697; June 3.
Recording device including rotatable number carrying rings. A. T. Lofstrom. 2,421,513; June 3.
Regulating system. W. Partington. 2,421,645; June 3.
Relay. T. Obszarny. 2,421,641; June 3.
Resistance element, Noninductive. S. O. Dorst. 2,421,688; June 3.
Reverberation method and system. B. Kreuzer. 2,421,424; June 3.
Reversing mechanism, Loom. F. V. Clarke. 2,421,539; June 3.
Rod boring machine, Connecting. C. A. Fulmer. 2,421,556; June 3.
Rubber articles, Manufacture of vulcanised. H. E. Kretschmer. 2,421,625; June 3.
Rubberlike substances and compounding material. C. G. La Crosse. 2,421,627; June 3.
Rust preventive composition. C. E. Wilson and M. L. Dodge. 2,421,672; June 3.
Safety razor. O. H. Clarke. 2,421,540; June 3.
Salicylates and preparing same, Basic lead. L. M. Kebrich. 2,421,706; June 3.
Scaffold caster. L. A. Reiner. 2,421,464; June 3.
Scraper, Sucker rod. G. Kleiderlein. 2,421,564; June 3.
Screen printing. H. Bucklin. 2,421,410; June 3.
Seal for pipe joints. W. J. Sutton and B. C. Simpson. 2,421,659; June 3.
Sealing arrangement, Door. W. Young. 2,421,400; June 3.
Seam for woven wire fabric. D. C. Dilley and R. R. McGregor. 2,421,601; June 3.
Selective transmitting, receiving, and oscillator circuit. K. Singer. 2,421,468; June 3.
Separator: *See—*
  Crude oil separator.
Servomotor, Fluid pressure. T. H. Thomas. 2,421,726; June 3.
Sewing machine, Buttonhole. W. E. Nichols. 2,421,712; June 3.
Shears, Vise. G. M. Ernst. 2,421,414; June 3.
Sheet holding and positioning means for business machines, Carbon. R. L. Muller. 2,421,462; June 3.
Shield for potato diggers, Retainer. J. Leszkowicz. 2,421,425; June 3.
Shingle. G. A. Fasold and H. W. Greider. 2,421,415; June 3.
Shoe with channeled welt. F. J. Tobacco. 2,421,442; June 3.
Shutter for controlling light along two independent optical paths. E. C. Guedon. 2,421,499; June 3.
Signal flare magazine and caster. J. A. and E. Gearon. 2,421,491; June 3.
Signaling device, Mail box. J. Doppelhammer. 2,421,603; June 3.
Skid, Rollerway. J. B. Webb. 2,421,670; June 3.
Slider for separable fasteners. R. C. Legat. 2,421,511; June 3.

Sole treating apparatus. J. C. Hardie. 2,421,419; June 3.
Spacing mechanism for line-up and register tables. F. L. Dodge. 2,421,686; June 3.
Spindle mounting. S. C. Nelson. 2,421,389; June 3.
Spindle, Textile. J. A. Kennedy. 2,421,734; June 3.
Spray oil, Horticultural. P. R. Jones. 2,421,507; June 3.
Sprinkler head. D. F. Dunham. 2,421,551; June 3.
Stapling machine. L. Obstfeld. 2,421,429; June 3.
Starter switch. C. Penk. 2,421,519; June 3.
Steel barrel plug wrench. G. B. Umbdenstock. 2,421,665; June 3.
Stop motion for spinning and like textile frames. G. S. Fraser. 2,421,555; June 3.
Sugar treating. H. S. Isbell. 2,421,380; June 3.
Sugars, Catalytic hydrogenation of. L. A. Flexser. 2,421,416; June 3.
Suggestion cabinet. L. G. Mills. 2,421,710; June 3.
Switch: *See—*
  Starter switch. Thermostatic switch.
System for energizing the electrodes of cathode-ray devices from the deflecting circuit. W. J. Poch. 2,421,520; June 3.
Take-off or transfer apparatus, Article. W. L. McNamara and F. Z. Fousee. 2,421,515; June 3.
Tank: *See—*
  Auxiliary fuel tank.
Teething aid. M. F. Newmark. 2,421,574; June 3.
Telephone system, Automatic. N. H. Saunders. 2,421,717; June 3.
Thermostatic switch. E. K. Clark. 2,421,538; June 3.
Third-dimensional pictures and third-dimensional portrayal of anatomy and surgery. L. P. Good. 2,421,609; June 3.
3-aryl-1,5-dibrompentane-3-carboxylic acid, Production of. E. Walton and M. B. Green. 2,421,729; June 3.
Time fuse structure, Mechanical. B. B. Patton. 2,421,390; June 3.
Tool: *See—*
  Metal removing tool.
Tool for dimpling. O. W. Albert and D. A. Webster. 2,421,732; June 3.
Torque measurements. H. P. Kuehni. 2,421,626; June 3.
Toy parachute. C. A. Hornbeck. 2,421,618; June 3.
Toy pistol. H. D. Allen. 2,421,403; June 3.
Truck, Endless tread industrial. G. W. Way. 2,421,472; June 3.
Tunable magnetron. E. D. McArthur and R. J. Bondley. 2,421,636; June 3.
Turbine power plant with automatic air supply control, Hot air. A. Lysholm. 2,421,387; June 3.
2-keto gulonic acid and its salts, Preparation of. B. E. Gray. 2,421,611–12; June 3.
Typewriter word counter. H. Chaskin. 2,421,681–3; June 3.
Ultra high frequency device of the cavity resonator type. F. M. Bailey. 2,421,591; June 3.
Ultra high frequency space resonant system. E. D. McArthur. 2,421,635; June 3.
Universal joint. E. B. Gibson, Jr., and D. W. Blakeman. 2,421,691; June 3.
Vaccine and antigen and producing the same. S. O. Levinson and F. Oppenheimer. 2,421,382; June 3.
Valve mechanism for fluid-pressure engines. G. H. Leek and R. H. Rose. 2,421,510; June 3.
Valve thermostat control, Fluid coupling outlet. J. S. Hasbrouck. 2,421,501; June 3.
Vehicle lighting system. J. E. Candlin, Jr., and H. L. Howe. 2,421,680; June 3.
Vessel, Pressure. A. W. Bruce and J. Partington. 2,421,596; June 3.
Vibrating apparatus. T. A. Dillon. 2,421,485; June 3.
Violin bow, Variable tension. W. K. Krause. 2,421,567; June 3.
Voltage control system, Differential. H. E. Haynes. 2,421,560; June 3.
Water surfacing elements, Locked down. H. W. Greider, G. A. Fasold, and W. C. Bowman. 2,421,417; June 3.
Weather prediction with ultra high frequency radio waves. G. S. Wickizer. 2,421,730; June 3.
Wefts of woven textile fabrics, Method and apparatus for the straightening of the. L. C. Nield. 2,421,575; June 3.
Welding electrode holder. D. T. and D. D. Smout. 2,421,723; June 3.
Welding or cutting metals by hydrogen-fluorine flames. H. F. Priest and A. V. Grosse. 2,421,649; June 3.
Wells, Cementing. C. E. Reistle and G. E. Cannon. 2,421,434; June 3.
Wheel: *See—*
  Impregnated abrasive wheel.
Wheel attachments for boats. W. A. West. 2,421,671; June 3.
Wheel cover. G. A. Lyon. 2,421,383; June 3.
Wheel cover. G. A. Lyon. 2,421,385–6; June 3.
Wheel of variable diameter. E. H. Aubert. 2,421,368; June 3.
Worktable having magnetic clamp means, Machine. G. W. Rose. 2,421,716; June 3.
Wrench: *See—*
  Steel barrel plug wrench.

CLASSIFICATION OF PATENTS

ISSUED JUNE 3, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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		2,421,664
	74:	2,421,421
197—	126:	2,421,462
198—	20:	2,421,515
	34:	2,421,527
	45:	2,421,425
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	121:	2,421,658
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201—	67:	2,421,688
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206—	46:	2,421,486
	63.2:	2,421,495
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	433:	2,421,397
	496:	2,421,576
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	63:	2,421,709
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	20:	2,421,452
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222—	82:	2,421,711
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241—	21:	2,421,648
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	90:	2,421,374
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	130:	2,421,689
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	135:	2,421,699
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	26:	2,421,529
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	36:	2,421,521
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	580:	2,421,608
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	607:	2,421,653
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	635:	2,421,416
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	673.5:	2,421,677
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	228:	2,421,734
	240:	2,421,668
315—	22:	2,421,520
318—	209:	2,421,431
	258:	2,421,632
320—	32:	2,421,645
	35:	2,421,523

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Classification of Designs

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Des. 146,856
Des. 146,857
26: Des. 146,877
D 4— 4: Des. 146,861
D 5— 5: Des. 146,865
D 7— 5: Des. 146,885
D14— 3: Des. 146,847
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D14— 3: Des. 146,879
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D17—10: Des. 146,842
Des. 146,843
D26—14: Des. 146,863
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D44—24: Des. 146,850
D45— 1: Des. 146,844
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D85— 2: Des. 146,886
8: Des. 146,866
D91— 1: Des. 146,864
3: Des. 146,882

U. S. GOVERNMENT PRINTING OFFICE: 1947

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

Long *v.* Young

No. 5,233. Decided February 11, 1947

[159 F.(2d) 766; 72 USPQ 491]

INTERFERENCE—APPLICANT AND PATENTEE—MOTION TO DISSOLVE BY PATENTEE.

Where counts contain no specific reference to alleged differences urged by patentee, in his motion to dissolve on the ground that applicant cannot make the claims as distinguishing his invention from that of applicant, *Held* that such differences are beside the question and that limitations cannot be read into the counts.

SAME—SAME—SAME.

Where patentee urges that to construe the counts as the tribunals below have done renders them unpatentable over prior art, *Held* that "this issue is not a matter of concern here because the counts have not been construed narrowly for the purpose of avoiding the prior art and we, of course, under this jurisdiction, are not concerned with the patentability of the counts. This question is a matter for ex parte consideration in the Patent Office."

SAME—SAME—CONSTRUCTION OF COUNTS.

It is a general rule, to which there are certain exceptions or limitations, that in this jurisdiction it is our duty to give the counts in interference the broadest construction that the language thereof will reasonably permit, and in certain instances where the language is ambiguous resort may be had to the application in which the counts arise.

SAME—SAME—SAME.

"The counts at bar are not ambiguous and we are giving the same construction to them as was given by the Board. It clearly follows that we cannot go into the prior art to determine the question as to whether or not the counts, if given the construction which we are giving them, renders the claims invalid".

SAME—PRIORITY.

Record reviewed and *Held* that the decision of the Board of Interference Examiners holding that the controverted limitations in the counts at bar are disclosed in appellee's application, and awarding priority to appellee, is affirmed.

APPEAL from the Patent Office. Affirmed.

Nelson J. Jewett for Long.

Lewis E. Lyon (*Stephen W. Blore* of counsel) for Young.

BLAND, *J.*:

Appellant, Long, has here appealed from the decision of the Board of Interference Examiners of the United States Patent Office awarding appellee, Young, priority of invention defined by three counts which are claims in appellant's patent copied by Young for interference purposes. Although Long's patent issued while Young's application was pending, Young is the senior party.

Neither party took testimony, and upon Long's being required to show cause why judgment on the record should not be entered against him he came forward with a motion to dissolve on the ground that Young could not make the claims corresponding to the counts in issue.

There were a number of questions discussed before the Examiner and before the Board, many of which we need not refer to here. The controlling issue, and the only one which we think it is necessary to decide, relates to certain limitations in the counts as are hereinafter discussed.

The three counts involved read as follows:

> 1. In a rotary table structure including a master bushing for arrangement in the table and having a central opening, *an opening in the table structure offset from the central opening*, a drive bushing to be removably carried by the master bushing, *a part projecting from the lower end of the drive bushing adapted to enter the offset opening for the transmission of rotation* and to allow the lower end of the drive bushing to rest on the upper end of the table structure, the lower end of said part being engageable with the upper end of the table structure when said part is out of alignment with the offset opening, and a pilot element extending from the lower end of the drive bushing to enter said central opening and centralize the drive bushing so that said part is readily entered in said offset opening and turnable in said central opening so that relative turning between the drive bushing and table structure will cause said part to enter the offset opening.
>
> 2. A Kelly bushing for use with a rotary table assembly *having a central opening and openings spaced about and spaced from the central opening comprising a bushing body, spaced parts projecting from the lower end of the body adapted to be entered in the second named openings for the transmission of rotation* from the table assembly to the body, and a pilot element on the lower end of the body projecting downwardly beyond said parts adapted to turnably engage in the central opening to centralize the body relative to the table assembly so that said parts may be readily entered in said second named openings by relative turning between the bushing and table assembly.
>
> 3. A Kelly bushing for driving a Kelly and adapted for use with a rotary table assembly *having a central opening and an offset opening, the Kelly bushing comprising a body to engage around the Kelly and adapted to rest on the upper end of the table assembly, a part projecting from the lower end of the body to engage in the offset opening for the transmission of rotation* from the table assembly to the body when the body is resting on the upper end of the table assembly, means carried by the body for transmitting rotation to the Kelly, and a split sleeve assembled around the Kelly and carried by the body to project from its lower end, the sleeve being turnably engageable in the central opening so that said part may be readily entered in said offset opening by relative turning between the body and table assembly. [Italics ours in each count.]

The invention relates to an important portion of oil well drilling equipment, particularly that which is used in rotary drills, and relates specifically to a rotary table structure through which, and by which, the drill and the pipe connecting it with the table assembly on the surface of the ground may be assembled or quickly removed without damage to the table. The invention involves a consideration of what is

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known as a Kelly and a Kelly bushing. For instance, Long, in describing his invention in his specification, says:

> The master bushings of rotary tables have for many years been formed with a central opening having a flat walled polygonal upper portion for receiving the drive bushing or Kelly bushing, to provide a torque drive to the Kelly bushing, and a lower portion that is conical or tapered to receive the slips. With the present day drilling practice it is desirable to employ long slips and to provide increased bearing surfaces in the master bushing for receiving the lengthened slips. Master bushing and Kelly bushing assemblies have recently been introduced in which the central opening of the master bushing is tapered to the top of the master bushing to provide ample bearing surfaces for the long slips and the Kelly bushing is formed to seat on the top of the master bushing. In this last named construction the Kelly bushing has pins projecting from its lower side and received in spaced openings in the top of the master bushing to transmit rotation or torque from the master bushing to the Kelly bushing. The new type of bushing construction is successful and effective but has certain disadvantages. Considerable difficulty is often encountered in centering or orienting the new type of Kelly bushing to bring its torque transmitting pins into alignment with the openings in the master bushing. If the Kelly hangs out of alignment when being lowered into position it is often necessary to resort to sledging, barring, or other time consuming operations to bring the Kelly bushing into position to enter its pins into the openings of the master bushing.

The drawings in the record are so complex and indistinct that it would not be helpful to reproduce them here. The particular critical points of difference between the drawings of the respective parties are difficult of precise description.

As to the nature of the invention defined by the counts, we think it sufficient to say that Long shows a main table bushing at the side of which, and in the table structure, are four openings offset from the central opening. Superimposed upon this portion of the table structure are spaced parts projecting from the lower end of the body adapted to enter the spaced offset openings in the body portion of the structure.

Young, as was found by the tribunals below, performs the same function (although this is not agreed to by Long) by providing an opening or aperture in the lower structure offset from the conical central opening, which is square except that it has rounded corners. He also discloses a projecting member, projecting from the bottom of the top member, of the same size and shape as the opening in the lower body. His application discloses that through both the downwardly extended portion and the walls of the offset opening apertures are made for the insertion of pins.

By employing the above-described members, each party accomplishes the same necessary and important function in operating the drilling device as aforesaid.

The question with which we are here concerned is whether or not Young's disclosure responds to those portions of the counts which have been italicized above. In other words, referring to count 1, has Young an opening "offset from the central opening" and has he a "part projecting from the lower end of the drive bushing" which is "adapted to enter the offset opening"? The issue is the same with respect to count 3.

In count 2, it will be noticed that the language in controversy is "having a central opening and *openings* spaced about and spaced from the central opening comprising a bushing body, *spaced parts* projecting from the lower end of the body adapted to be entered in the second named *openings*, etc." [Italics ours.] One of the main questions presented with respect to this count is that, assuming that Young has disclosed one opening and one comparable projecting member, has he disclosed more than one of each as called for by the count?

The Examiner very clearly stated his conclusions on the questions involved in the right to make the counts and held that if Long's openings were offset Young's openings were also offset and that the same was true with reference to the spaced parts which entered the openings.

In order to make such a holding it was necessary for the Examiner to hold that the continuous opening in the form of a square which is offset from the conical central opening of Young should be regarded as more than one opening; that is to say, that each side of the square performed the functions of an opening and that therefore there were more than one opening as is called for by count 2, and that the same reasoning applied to the spaced parts which entered into those openings. In deciding this question the Examiner said:

> Count 2 is directed to the Kelly bushing for the table. The principal difference over count 1, otherwise, is in including "openings" spaced about and from the central opening and spaced parts thus requiring a plurality of engaging elements. *It is believed that each side of the square recess * * * and square flange * * * can be considered properly as distinct opening and part respectively.* In transmitting torque from the outer to the inner bushing the points of contact would be interrupted between the sides and each would act as a distinct entity. The flange would engage the surface of the table while the pilot element * * * would centralize the body while allowing relative turning movement. This count therefore reads on the disclosures of the party Young. [Italics ours.]

The Board in its decision agreed with the Examiner's position in every particular and quoted from the Examiner's second decision made on reconsideration, as follows:

> The Young disclosure includes recess or recesses * * * between the master bushing * * * and the table * * * and hence constituting one or more openings in the table structure "offset" from the central opening * * *. The bushing * * * includes flanges * * * which until aligned with recesses * * * would inherently rest upon the upper face of the table and when aligned laterally by the pilot * * * and angularly by rotating the table said flanges drop into the recesses * * * to complete the drive. This structure is described on page 6, last line, page 7, lines 1–5 and page 10 paragraph 2.
>
> The recesses are just as much "offset" as those in the patent to Long from which the counts are taken.
>
> The argument as to Young's claim 25 is irrelevant. The present counts do not contain the specific subject matter referred to in the Office letter of March 13, 1943.
>
> The walls of the recesses and the flanges are straight and continuous and hence it is quite clear that drive is transmitted through the flange as well as at the edge of the table. The latter is not precluded by the language of the counts. The counts do not include any drive between master bushing and the drive bushing.
>
> Although the brief filed in behalf of party Young does not stress the matter of the offset opening or openings and the depending parts, it was made apparent by both parties at the hearing that this feature constituted the matter at issue.
>
> It is clear that the flanges * * * are equally well defined as projecting from the lower end of the drive bushing and when they enter the recesses * * * they allow the bushing to rest on the upper end of the table structure.

Both tribunals of the Patent Office gave the issues of the case very careful consideration. Both parties hereto have fully briefed and argued the same issues here, and we cannot say that the concurring tribunals of the Patent Office were in error in holding that the controverted limitations in the counts at bar are disclosed in the Young application.

Long emphasizes that his invention relates to an improvement on a "pin" torque transmission type Kelly bushing while Young's disclosure is of the polygonal opening type, and argues that his type has advantage over that of Young's. We think this is beside the question. The counts contain no specific reference to such alleged difference and Long cannot read limitations into the counts with respect to such subject matter.

Long has urged here, as he did below, that to construe the counts as the tribunals below have done renders them unpatentable in view of the patent to Black et al., 2,182,938, December 12, 1939. This issue seems to have been decided by both the Examiner and the Board but it is not a matter of concern here because the counts have not been construed narrowly for the purpose of avoiding the prior art and we, of course, under this jurisdiction, are not concerned with the patentability of the counts. This question is a matter for ex parte consideration in the Patent Office.

It is a general rule, to which there are certain exceptions or limitations, that in this jurisdiction it is our duty to give the counts in interference the broadest construction that the language thereof will reasonably permit. *Hagen* v. *Cords*, 24 C. C. P. A. (Patents) 1128, 88 F.(2d) 998, 33 USPQ 230. In certain instances where the language is ambiguous resort may be had to the application in which the counts arise. *Malm et al.* v. *Schneider*, 26 C. C. P. A. (Patents) 783, 101 F.(2d) 201, 40 USPQ 364. It is another rule, not involved here, that where the Board gives counts a narrow construction for the purpose of avoiding the prior art we will likewise give the counts the same construction. *Kaufmann II* v. *Etten et al.*, 25 C. C. P. A. (Patents) 1127, 97 F.(2d) 134, 37 USPQ 712; *Kliesrath et al.* v. *Kesling*, 33 C. C. P. A. (Patents) 1008, 154 F.(2d) 514, 69 USPQ 377.

The counts at bar are not ambiguous and we are giving the same construction to them as was given by the Board. It clearly follows, therefore, that we cannot go into the prior art to determine the question as to whether or not the counts, if given the construction which we are giving them, render the claims invalid. It must be remembered that this is not an infringement suit.

Long has referred to a number of other patents and has included them in the record. This was with a view of explaining what the prior art discloses. Some of them are not proper portions of this record, and, as stated before, in view of our conclusion it is not necessary to consider the arguments raised by Long with reference to the disclosures in the prior art patents cited and discussed.

The decision of the Board of Interference Examiners awarding priority of invention in the three counts in issue to appellee is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE HILL ET AL.

No. 5,224. Decided January 7, 1947

[158 F.(2d) 1001; 72 USPQ 263]

PATENTABILITY—APPARATUS—FUNCTIONAL DISTINCTIONS.

Claims to a roller bearing, which distinguish from the reference solely in terms of how the structure claimed will operate, *Held* unpatentable, citing *Halliburton Oil Co.* v. *Walker*, 71 USPQ 175.

APPEAL from the Patent Office. Affirmed.

Joseph J. Gravely and *Carr & Carr & Gravely* for Hill et al.

W. W. Cochran (*H. S. Miller* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims, Nos. 1 to 6, inclusive, in appellants' application for a patent for an alleged invention relating to roller bearings.

Claims 2, 3, and 6, were rejected as being drawn to non-elected species and, therefore, need not be considered here on their merits.

Claim 1, which is a generic claim, and claim 4, which is drawn to an elected species, are illustrative of the appealed claims. They read:

> 1. A roller bearing comprising race members at least one of which has a thrust flange provided with a concave curved thrust surface, and rollers interposed between said race members, said rollers having ends formed with convex curved surfaces contacting with the concave surface of the thrust flange, but the curvatures of the opposed surfaces of the flange and roller end being dissimilar, when the bearing is unloaded, at least in the circumferential direction of the bearing, giving contact between each roller end and thrust flange at a single point in said circumferential direction and leaving clearances between the flange and opposed parts of the roller ends on opposite sides of the positions of contact, the initial clearance being such that deflection of the rollers under a given load will cause said clearance to be taken up and approximately full surface contact between the rollers and the flange to result.
>
> 4. A roller bearing comprising a race member provided with a thrust flange having a concave thrust surface, and rollers having convex end surfaces, said concave thrust surface being of a curvature, in a transverse plane of the flange, such that each roller makes contact therewith, in the unloaded condition of the bearing, only at the top of the flange, with a clearance between the lower portion of the flange and the roller end, and the curvature of said thrust surface, in the circumferential direction of the bearing, being different from the curvature of the ends of the rollers in the same direction, so that when the bearing is unloaded a single point contact is obtained between the end of each roller and the thrust flange, with clearances between the latter and the side portions of the opposed part of the roller end, the initial clearance being such that deflection of the roller under a given load will cause said clearance to be taken up and approximately full surface contact between the roller and the flange to result.

The reference relied upon is: Swedish Patent 99,906, September 24, 1940.

Appellants' roller bearing is of the type which comprises a circular row of rollers mounted between upper and lower bearing race rings. In the preferred form of the device the surface of the lower ring which contacts with the rollers is flat and the rollers are substantially frusto-conical. Accordingly, each roller, when placed in position on the inner ring, is tilted and its axis will intersect that of the bearing. With that arrangement, when the bearing is loaded, the rollers are subjected not only to a radial compression, but to an axial thrust. To counteract the thrust, the lower bearing ring is provided at its edge adjacent the larger ends of the rollers with an annular flange against which the ends of the rollers abut. The end of each roller, which abuts the flange is formed with a convex spherical curvature, the center of such curvature being on the axis of the roller at a point between the roller and the point of intersection of the axes of the roller and the bearing. The surface of the flange which abuts each roller has a concave spherical curvature, but the center of the curvature lies at or beyond the point of intersection of the roller and bearing axes. The flange surface thus has a greater radius of curvature than the end surface of the roller and, accordingly, when the bearing is unloaded, each roller will contact the flange at one point only, which point, in appellants' preferred construction, is at the top of the flange, as disclosed in Figure 10 of the application. When the roller bearing is loaded, the shape of each roller therein is modified, that is, flattened, so that the radius of curvature of its end surface is changed. The radius of curvature of the surface of the flange adjacent each roller is so selected that such surface will substantially conform to the end surface of the roller when carrying a load, with the result that the rollers make a point contact with the flange when unloaded and a surface contact when carrying a load. With that arrangement, according to counsel for appellants, which is not challenged by the tribunals of the Patent Office, there is no angular shifting of the rollers when the load is applied.

It was agreed by appellants and the Patent Office tribunals that the disclosure of the Swedish patent is identical with that of the British Patent No. 541,618 and, for purposes of convenience, the British patent has been referred to throughout in considering the rejection of the appealed claims.

The reference discloses the same general arrangement of bearing rings and frusto-conical rollers as does appellants' application. The reference also shows a flange on one of the bearing rings for resisting the axial thrust of the rollers and, in the reference, as in the application, the end of each roller which abuts the flange has a convex spherical surface whose center of curvature lies on the axis of the roller, between the roller and the point of intersection of the roller and bearing axes, while the surface of the flange which contacts the end of each roller has a concave spherical surface, whose center of curvature lies beyond that of the end surface of the corresponding roller. The patentee's arrangement necessarily results in a contact between the roller and the flange at one point only, when the bearing is not under a load, and the patent so states. However, in the structure of the application, the adjacent surfaces of the flange and roller are said to be so proportioned and arranged as to produce a surface contact when the bearing is loaded (and no contention is made to the contrary by the tribunals of the Patent Office), whereas the proportioning and the arrangement in the reference is such that the loading of the bearing merely shifts the point of contact between the bearing and the flange and does not produce such a surface contact as is apparently contemplated by appellants.

From what has been said it would appear that appellants' application contemplates a somewhat different proportioning of parts and method of operation from those of the reference. That difference, however, is not brought out in claims 1, 4, and 5, except in functional terms. Each of those claims is readable on the reference except for the final clause therein. Each of the three claims contains substantially the same final clause, which in claim 4, reads:

> * * * the initial clearance being such that deflection of the roller under a given load will cause said clearance to be taken up and approximately full surface contact between the roller and the flange to result.

With reference to the quoted excerpt from claim 4, the Board said:

> * * * The claim then states that the initial clearance is such that deflection of the roller under a given load will cause the clearance to be taken up with the result that approximately full surface contact between the roller and the flange is secured. This result flows from the structure of applicants which appears to be identical with that of the reference so that this claim [claim 4] and claims 1 and 5 are considered not to distinguish *structurally or patentably* over the reference. [Italics ours.]

It will be observed that the Board held that claims 1, 4, and 5, are not distinguishable over the reference "structurally or patentably." In other words, as we understand it, the Board was of opinion that the claims here on appeal are distinguishable over the reference only in the functional limitations, hereinbefore quoted. We are in agreement with the Board's statement. A limitation of the type here involved was considered by the Supreme Court of the United States in *Gen. Electric Co.* v. *Wabash Co.*, 304 U. S. 364, 491 O. G. 463, and was held insufficient to render a claim patentable. In its decision the Court said:

> A limited use of terms of effect or result, which accurately define the essential qualities of a product to one skilled in the art, may in some instances be permissible and even desirable, but a characteristic essential to novelty may not be distinguished from the old art solely by its tendency to remedy the problems in the art met by the patent. * * * The difficulty of making adequate description may have some bearing on the sufficiency of the description attempted, but it cannot justify a claim describing nothing new except perhaps in functional terms.

Under similar circumstances in *United Carbon Co.* v. *Binney Co.*, 317 U. S. 228, 237, 546 O. G. 593, the Court said, citing *Gen. Electric Co.* v. *Wabash Co.*, supra:

> Whether the vagueness of the claim has its source in the language employed or in the somewhat indeterminate character of the advance claimed to have been made in the art is not material. An invention must be capable of accurate definition, and it must be accurately defined, to be patentable.

The Supreme Court of the United States further condemned a functional limitation at the point of alleged novelty in apparatus claims in the recent case of *Halliburton Oil Co.* v. *Walker*, 71 USPQ 175. In that decision the Court said, citing the cases of *Holland Fur. Co.* v. *Perkins Glue Co.*, 277 U. S. 245, 372 O. G. 517, and *Gen. Electric Co.* v. *Wabash Co.*, supra:

> The language of the claim thus describes this most crucial element in the "new" combination in terms of what it will do rather than in terms of its own physical characteristics or its arrangement in the new combination apparatus. We have held that a claim with such a description of a product is invalid as a violation of Rev. Stat. 4888.

See also *In re Carr*, 28 C. C. P. A. (Patents) 1240, 1244, 120 F.(2d) 386, 49 USPQ 657, 530 O. G. 747, and *In re Schmidt et al.*, 30 C. C. P. A. (Patents) 785, 790, 132 F.(2d) 869, 56 USPQ 317, 549 O. G. 4.

In view of the decisions heretofore referred to, we must hold that claims 1, 4, and 5, which distinguish from the reference solely in terms of how the structure claimed will operate, are unpatentable.

The present situation is not analogous to that presented in such cases as *In re McKee*, 25 C. C. P. A. (Patents) 1000, 95 F.(2d) 264, 37 USPQ 209, 494 O. G. 719, and *In re Moeller*, 28 C. C. P. A. (Patents) 932, 117 F.(2d) 565, 48 USPQ 542, 527 O. G. 559, in which it is stated that an article, if new and inventive, may be defined in terms of the process by which it was made, if it cannot be properly defined in any other way.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE SOMES

No. 5,226. Decided January 7, 1947

[158 F.(2d) 1015; 72 USPQ 266]

PATENTABILITY—METHOD—NEW ELEMENT IN OLD COMBINATION.

Where the combination of hardening and then machining a cylindrical article is old, and appellants' claims are for a method which recites the same combination of steps but limits the hardening step to inductive hardening, *Held* that there is no invention in employing electromagnetic induction in the old combination since the use thereof to harden the bore of a cylinder is old.

APPEAL from the Patent Office. Affirmed.

Donald B. Waite (*William R. Glisson*, *John P. Tarbox* and *Stone, Boyden & Mack* of counsel) for Somes.

W. W. Cochran (*E. L. Reynolds* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claim 11, the only claim in appellant's application for a patent for an alleged invention relating to a method of hardening the surface of the bore of cylindrical structures, particularly cylinders for air-cooled internal combustion engines.

The claim reads:

> 11. In a method of producing an annular, ferrous metal, air-cooled cylinder having spaced relatively deep cooling fins in which the thickness through the cylinder wall between the fins is but a fraction of the thickness through the cylinder wall and fins, and the metal at its bore is zone hardened to a predetermined uniform depth less than the cylinder wall thickness between the fins, the steps of providing an annular blank of metal hardenable by heating and quenching and having a substantially uniformly thick wall throughout the zone to be hardened which is of sufficient thickness to form the cylinder wall and permit the machining of said fins integrally thereon, then while utilizing the heating and quenching effect of the uniformly thick and unmachined wall of the blank externally of the zone to be hardened to insure uniform circumferential and axial stress distribution and depth of hardness and also while utilizing the uniformly thick and unmachined wall of the blank to uniformly distribute induced magnetic flux in the zone to be hardened, inductively hardening the bore of the blank to said predetermined depth only, and thereafter machining the external fins in the blank.

The references relied upon are: Gray et al., 1,703,232, February 26, 1929; Denneen (British), 446,495, April 20, 1936; Gehret, 2,125,106, July 26, 1938; Farr, 2,281,426, April 28, 1942.

The purpose of appellant's process is to produce a ferrous metal air-cooled cylinder having relatively deep cooling fins on the outer side thereof. The thickness of the cylinder wall between the fins "is but a fraction of the thickness through the cylinder wall and fins," the bore of the cylinder being hardened "to a predetermined uniform depth less than the cylinder wall thickness between the fins, * * *."

The claims calls for the steps of providing an annular blank of metal having a substantially uniformly thick wall of sufficient thickness to permit the machining of cooling fins on the outer wall thereof, "inductively hardening the bore of the blank" by heating and quenching to a predetermined depth and thereafter machining the outer wall of the blank to produce the cooling fins thereon.

The patent to Gray et al. relates to a method of producing cylindrical couplings having "a case-hardened shell and a threaded soft tough steel inside wall * * *." The patentee's cylindrical couplings are hardened by a carbonization process. The process hardens the outer surface, as well as the surface of the bore of the cylindrical coupling. After the carbonization process is completed, the carbonized or hardened metal of the bore is drilled out so as to produce a soft, tough inside surface.

In each of the patents to Denneen and Farr the hardening of the inner surfaces of hollow cylindrical metal articles is accomplished by electro-magnetic induction and quenching. The outer surface of the cylinder is not hardened. It is conceded by counsel for appellant that each of those patents discloses "induction hardening, with flux heating of a thin layer and quenching" and that "Induction hardening is merely one of the known factors which applicant employs to obtain his new total effect. Induction heating is well adapted to harden a thin layer without heating an article through its whole section, * * *." In each of the patents to Denneen and Farr the outer surface of the cylindrical metal articles remains soft and tough, as in appellant's cylinder. Neither of those patents discloses the machining of the outer walls of cylindrical metal articles to produce cooling fins, as called for by the appealed claim. However, it is old, as stated in appellant's application, to provide cooling fins on the outer walls of cylinders for internal combustion engines of the air-cooled type.

The patent to Gehret relates to a method of producing cylinders for internal combustion engines and discloses a method of producing an internal combustion engine cylinder in which a hollow cylindrical blank is first machined to form an annular rib having a flange which, the patentee states, is "used in securing the cylinder block to the crankcase and to leave the wall of sufficient thickness for subsequent machining of the barrel to leave integral annular [reinforcing] ribs, * * *." The patentee's cylinder is water-cooled instead of air-cooled as is appellant's. The bore of the cylinder block in the patentee's disclosure is machined and, as he states, "* * * varied along its lengths to compensate for the distortions resulting from subsequent steps in the method of manufacture," that is to say, the bore of the cylinder block is machined to form a central portion, "a flared outer portion * * * extending from the upper end of a cylinder portion * * * to the upper end to which the cylinder head is to be attached, and a tapered portion * * * extending from the lower end of the [middle] cylinder portion * * * to the lower end of the cylinder * * *. This contour leaves sufficient stock on the outer diameter of the barrel to prevent distortion and to allow removal of the nitrided case on all surfaces except the internal diameter." The patentee's cylinder block is then subjected to a nitriding process—chemical process—to harden the cylinder block, particularly, as the patentee states, "in the metal of the internal periphery or bore of the cylinder for purposes well understood in the art." The outer surface of the cylinder is then machined to form annular ribs or fins.

We think it is clear from the patentee's disclosure that his process of heat hardening hardens both the outer surface of the cylinder and the surface of the bore therein. The machining of the outer surface of the cylinder removes the hardened portion thereof.

In addition to stating in his application that it is old in the art to provide radiating cooling fins on the external walls of cylinders for internal combustion engines of the air-cooled type, appellant states that such cylinders are relatively thin; that the cooling fins are "deep and closely spaced"; and that it has been the practice prior to his alleged invention to harden the entire cylinder by nitriding or by carbonizing "or by some other similar process."

Appellant further states in his application that by hardening substantially the entire cylinder structure, "warpage or distortion due to heat stresses" results, because hardening of the cylinder was effected after the machining of the cylinder to produce the cooling fins, and because the hardening of substantially the entire cylinder having thin walls can not be restricted to a proper depth so as to "permit the machining of deep fins subsequent to hardening upon the exterior of the cylinder without running into hardened metal."

Because of the difficulty, hereinbefore stated, appellant dispensed with the heating and quenching of the entire cylinder and by means of electro-magnetic induction, disclosed in the patents to Denneen and Farr, hardened merely the surface of the bore of a cylinder to a uniform depth and then by a machining process produced the cooling fins called for by the appealed claim. In other words, instead of first machining the cylinder and then hardening the entire cylinder, appellant first hardens the surface of the bore of the cylinder and then machines the outer surface of the cylinder in order to prevent the warpage or distortion, hereinbefore referred to. First hardening and then machining a cylindrical article is clearly disclosed in the patents to Gehret and Gray et al.

It is obvious that there is no invention in employing electro-magnetic induction, disclosed in the patents to Denneen and Farr, to harden the surface of the bore of a cylinder to a predetermined uniform depth and to machine the outer wall of the cylinder.

It is true, as argued by counsel for appellant, that none of the patents of record anticipate the process defined by the appealed claim. However, it was not held by the tribunals of the Patent Office that any one reference anticipated appellant's alleged invention but, on the contrary, it was held that the process defined by the appealed claim was not patentable in view of the disclosures in the references of record.

It will be observed that the appealed claim calls for "relatively deep cooling fins in which the thickness through the cylinder wall between the fins is but a fraction of the thickness through the cylinder wall and fins, * * *."

Not only does the patent to Gehret disclose that the cylinder wall between the ribs is but a fraction of the thickness through the cylinder wall and the ribs, but it would seem to be obvious that cooling fins could not very well be produced in appellant's cylinder so as to prevent the cylinder wall between the fins being but a fraction of the thickness through the cylinder wall and the fins.

Counsel for appellant earnestly argue here that the process defined by the appealed claim produces a superior cylinder for internal combustion engines of the air-cooled type; that the references of record do not disclose a process for producing such a cylinder; and that, therefore, the appealed claim is patentable.

We have given careful consideration to the arguments presented by counsel but are of opinion that the tribunals of the Patent Office were right in rejecting the appealed claim in view of the prior art disclosures.

The decision of the Board of Appeals is accordingly affirmed.

Affirmed.

TRADE-MARK REGISTRATIONS CANCELED

252,940. Cold creams, vanishing creams, tissue creams, etc. La Pompadour Inc., Minneapolis, Minn. Registered Feb. 19, 1929. Canceled May 7, 1947.

359,847. Preparation for polishing and sealing floors. Histosan Incorporated, Ivoryton, Conn. Registered Aug. 30, 1938. Canceled May 8, 1947.

387,104. Writing ink for zinc and galvanized metal. William J. Oding, doing business as Met-L-Ink Products Co., Lansing Mich. Registered Apr. 29, 1941. Canceled May 7, 1947.

423,135. Men's suits. Hearn Department Stores, Inc., New York, N. Y. Registered Aug. 20, 1946. Canceled May 7, 1947.

423,409. Ladies' apparel—namely, bathing suits, play suits, etc. Morton's Incorporated, Bowling Green, Ky. Registered Aug. 27, 1946. Canceled May 7, 1947.

NOTICES

Cancellation of Patent

In a judgment entered April 15, 1947, by the District Court of the United States, District of Massachusetts, in Civil Action No. 6600, *United States of America* v. *Hyman J. Small*, the court ordered the cancellation ab initio of United States Design Letters Patent No. 144,078, issued on March 5, 1946, to Hyman J. Small. The action was initiated by a complaint filed by the United States and alleging that the patentee, in obtaining the patent, practiced a series of frauds upon the Patent Office.

Public Law 690

Reciprocity with Sweden, Sections 1 and 3

U. S. Patent Office, *Washington 25, D. C., May 16, 1947.*

The Swedish Government has promulgated a Royal Decree, No. 148, published April 30, 1947, providing for the extension of the period of priority, the revival of patent applications and the reestablishment of lapsed patents, in favor of citizens of the United States. By the terms of the decree petition for any such action must be made not later than June 30, 1947. It is understood that a new law is in prospect which will permit extension of this date to August 8, 1947.

The United States Patent Office will accordingly apply sections 1 and 3 of Public Law 690 to citizens of Sweden.

LESLIE FRAZER,
First Assistant Commissioner.

Order No. 3937

U. S. Patent Office, *Washington, D. C., May 18, 1945.*

Acting under the provisions of section 487 of the Revised Statutes (U. S. C., Title 35, sec. 11), Henry W. Carter, of Toledo, Ohio, whose registration number is 4090, is hereby disbarred from practice before the United States Patent Office for gross misconduct.

/s/ CONWAY P. COE,
Commissioner.

Adjudicated Patent

(C. C. A. N. Y.) Babb patent, No. 2,341,520, for a starting and operating circuit for gaseous electric discharge device, *Held* invalid for want of invention. *Bilofsky* v. *Westinghouse Electric Supply Co. et al.*, 160 F.(2d) 154; 72 USPQ 456.

Interference Notice

U. S. Patent Office, *Washington, D. C., May 8, 1947.*

Oxford Confectionery Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of H. L. Hildreth Co., 549 Albany Street, Boston, Mass., for registration of a trade-mark and trade-mark registered October 28, 1930, No. 276,718, to Oxford Confectionery Company, South and Franklin Sts., Oxford, Pa., and the notice of such declaration sent by registered mail to said Oxford Confectionery Company at the said address of record having been returned by the post office undeliverable, notice is hereby given that unless said Oxford Confectionery Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Disclaimer

2,286,195.—*Francis L. Brandt,* Marblehead, Mass. Method of and Machine for Attaching Heels to Shoes. Patent dated June 16, 1942. Disclaimer filed May 6, 1947, by the assignee, *United Shoe Machinery Corporation.*

Hereby enters this disclaimer to claim 1 of said patent.

Notices of Cancellation

U. S. Patent Office, *Washington, D. C., May 13, 1947.*

Fort Pitt Bedding Company, its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Charles H. Johnson, 730 W. Arlington St., Youngstown, Ohio, to effect the cancellation of trade-mark registration of Fort Pitt Bedding Company, No. 422,674, dated August 6, 1946. The assignment records of this Office show a transfer of title to this registration to The Englander Co., Inc., Chicago, Illinois, which has been substituted for said Fort Pitt Bedding Company to defend the registration concerned. The Patent Office having been unable to obtain service upon The Englander Co., Inc., notice is hereby given that unless the assigns, legal representatives, or other person claiming an interest in the registration shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., May 19, 1947.*

Fess and Fischer, their assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Altheimer & Baer, 404 N. Wells St., Chicago, Ill., to effect the cancellation of trade-mark registration of Fess and Fischer, 1648 Vine St., Chicago, Ill., No. 299,983, dated January 3, 1933, and the notice of such proceeding sent by registered mail to the said Fess and Fischer at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Fess and Fischer, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,410,273. Power-Driven Rotary Garden Cultivator. Patented Oct. 29, 1946. Hand-operated wheeled type of cultivator is provided with a motor for the purpose only of rotating three or more elongated cultivator blades so that ground around growing plants and in close corners may be cultivated as well as ground which is more readily accessible, as between rows. The blades, which point downwardly, are connected to and spaced around the edge of a rotating disc (which is connected to a drive shaft) at the lower end of an auxiliary vertical frame. A motor at the top of this frame drives the disc. This auxiliary frame is tiltably mounted in adjusted position on the forward end of the main frame of the cultivator in front of a relatively large wheel which supports the main frame. Since the auxiliary frame holds the blades in tilted position they do not all cut through the ground at the same time but successively cut arcuate paths. Auxiliary frame may be adjusted to various tilted positions. (Owner) George O. Duebner, Lafayette, Calif. Group 33—52. Reg. No. 5,674.

Pat. 2,344,348. Handcuff. Patented Mar. 14, 1944. Trigger mechanism mounted on an oblong handle of the handcuff for actuating latching means prevents inadvertent opening of the handcuff. The trigger mechanism must be manipulated in a certain manner to release the latching means before a movable claw (which is adapted to partially encircle the wrist) can be opened. The trigger mechanism also holds the claw in locked open position. (Administrator) Carl Glantz. Address correspondence to E. F. Wenderoth, 900 F St., N. W., Washington 4, D. C. Group 33—59. Reg. No. 5,675.

Pat. 2,413,082. Pocket Tool Kit. Patented Dec. 24, 1946. Narrow, elongated, metal kit encloses a plurality of small tools and serves as a detachable, rigid handle when any tool is selected and inserted in the end of the kit. Such tools may be a knife blade, an awl, or a double ended tool with one end serving as a can opener and the other end as a screwdriver. The box of the kit is enclosed by and telescoped within a housing. Oppositely disposed concave notches are formed in the end of each tool (or middle of a double ended tool) for engaging opposed convex side walls of a recess in a thick end wall of the box. With a selected tool inserted for use, the housing is slid over the box to rigidly hold the tool. When used as a can opener, guiding notches in kit will ride on the edge of a can. (Owner) James A. Skaer, 1122 East Douglas Ave., Wichita, Kans. Group 33—52. Reg. No. 5,676.

Pat. 2,411,654. Clothes-Washing Machine. Patented Nov. 26, 1946. A combination washing and drying machine. A shaft extends through hollow post in tub and supports a basket for clothes. The closure of basket has a series of suction cups whereby the articles in the basket when vibrating are subjected to an up and down surging action of the liquid in the tub. Provided with shiftable gears whereby when shaft is in raised position basket will slowly vibrate for washing. After clothes are washed and liquid has been drained from tub, the motor is started in reverse direction and the basket rotates at high speed for drying the articles. (Owner) Lionel J. Gottschalk, 914–916 Union St., New Orleans 13, La. Groups 33—71 ; 35—81. Reg. No. 5,677.

Pat. 2,411,673. Beverage Bottle Case. Patented Nov. 26, 1946. One-piece beverage case, which may be molded from plastic, has an integrally formed cellular frame dividing the interior into a plurality of compartments, each compartment being designed to hold four bottles. A separator in the center of each compartment, formed with the bottom of the case, separates the bottles from each other. The separator comprises two oppositely curved vertical walls spaced apart in back-to-back relation which are joined at their upper ends by a top wall having four equal, concaved edges conforming to the curvature of the bottles. An opening in the bottom of the case between the walls of the separator is provided for draining each compartment. (Owner) Theodore Vechey, Jr., 1500 28th St., N. W., Canton, Ohio. Groups 26—69 ; 39—81. Reg. No. 5,678.

Pat. 2,410,420. Scraper. Patented Nov. 5, 1946. A scraper for soiled dishes, cooking utensils, etc. Comprises a holder and applicator within which is stored in coiled form a continuous strip of relatively stiff flexible material. One end of coil projects through end of holder and provides a scraper edge which may be made to conform to any desired shape. (Owner) Robert B. Bennett, 219 Crescent Drive, Akron 1, Ohio. Groups 33—49 ; 39—81 ; 40. Reg. No. 5,679.

Pat. 2,413,139. Outlet Box and Anchor Therefor. Patented Dec. 24, 1946. An outlet box for an electrical switch. Body is of conventional construction.. The opposite end walls have inner and outer ears. The outer ears are for attachment to wall. The inner ears are for fasteners to detachably secure cover plate over the front opening to the box. The electrical switch is housed as usual within body of box. (Owner) Clyde Fredriksen, % The Ace Agency, Gurney, Wis. Group 36—11. Reg. No. 5,680.

Pat. 2,400,083. Irrigating Valve Wrench. Patented May 14, 1946. A wrench for loosening, adjusting, removing and placing the disc of a valve used in irrigation. Comprises a horizontally disposed guide ring and a vertically arranged collar centrally supported from ring. A vertical rod is rotatable in collar. Hooks on end of rod engage pins of irrigation valve. The device is centered in the stub and wrench is placed over valve stem or disc to be replaced. Frmly grips the disc and permits quick withdrawal and replacement without tedious feeling for the control position. (Owner) Ernest T. Fillinger, Route 1, Box 298, Lancaster, Calif. Group 33—52. Reg. No. 5,681.

Pat. 2,411,285. Low Inflation Alarm for Vehicle Tires. Patented Nov. 19, 1946. A low inflation alarm system for dual tires. A high pressure reservoir is mounted between rim and hub of each wheel and charged with high pressure air. A control valve in reservoir is responsive to impaired inflation and warns driver with a shrill whistle. (Owner) Richard G. Miller, 1342 High St., Eugene, Oreg. Group 38—31. Reg. No. 5,682.

Pat. 2,412,011. Garment Rack. Patented Dec. 3, 1946. A garment rack for shallow clothes closets. May be manufactured from sheet metal. The end of a garment-supporting rod slides between cheek plates of bracket, which may be attached to a wall. A pivot pin mounted in cheek plates passes through a slot at end of supporting rod. The flange of supporting rod has a series of openings for supporting garment hangers. Rack is extremely rigid under a load of garments. Adjustable to a raised position for hanging and removing garments or to a lowered position for compactly storing garments. (Owner) Arthur E. Sanderson, 558 West 15th St., San Pedro, Calif. Group 33—73. Reg. No. 5,683.

Pat. 2,319,860. Radio Aerial. Patented May 25, 1943. This patent relates to a flexible radio aerial which may be extended or retracted by utilizing a source of vacuum from the motor of a vehicle upon which it is mounted. An insulated antenna consisting of telescoping sections mounted within a flexible housing and connected to a double-acting piston by a wire or shaft formed of a dielectric material. The antenna may be operated by pressure acting on either side of the piston. Construction of the unit enables it to be mounted on the vehicle whereever space is available. (Owner) Wm. Edward Hann, c/o Harness, Dickey & Pierce, General Motors Bldg., Detroit 2, Mich. Groups 36—61 ; 38—31. Reg. No. 5,684.

Pat. 1,888,145. Light Control Switch. Patented Nov. 15, 1932. This invention relates to a switch for controlling a lighting system. The object of the invention is to provide means whereby a vehicle entering a driveway will automatically close the circuit to a light in the garage or in any other desired location, such as grounds, porch, or house. The switch also automatically breaks the circuit or circuits after a predetermined time. (Co-owner) M. Lucile White, c/o Lucille Harp, 202 High St., Apt. 4, Chattanooga, Tenn. Group 34—81. Reg. No. 5,685.

Pat. 1,963,718. Meat Apportioning Machine. Patented June 19, 1934. This machine assures the hygienic handling of meats used in sandwich making, frying, etc., in that each slice of meat is deposited on a sheet of paper after the slicing operation. The machine is a box-like container having an open bottom across which a movable delivery plate is slidable into and out of a retracted position. A meat loaf, placed within the receptacle, is moved downwardly by a plunger and its lower portion sliced by a blade. After slicing, the blade serves as a temporary support for the loaf so that a bar may be released allowing the slice deposited on paper to move out of the receptacle to a position where the meat is clear of the knife. A latch arrangement permits the knife to be used to sever the paper. (Owner) Karl Schatz. Address correspondence to Michael S. Striker, 500 Fifth Ave., New York 18, N. Y. Group 35—51. Reg. No. 5,686.

Pat. 2,411,168. Key Selector and Container. Patented Nov. 19, 1946. Key case of metal or plastic is provided with longitudinally spaced individual key slots in one side and a knob with a slotted collar mounted on one end so that any desired key within the case may be pivoted out of the case into position for use without disturbing the other keys. The circular heads of the keys are pivoted to the end of the case opposite the knob. Knob may be rotated to bring the slot in the collar into registry with any key slot to permit the selected key to swing out of the case by gravity when case is turned. (Owner) Oliver Seely, 340 Argonne Ave., Long Beach 4, Calif. Groups 33—73 ; 39—81 ; 40. Reg. No. 5,687.

Pat. 2,264,377. Prefabricated Building. Patented Dec. 2, 1941. This prefabricated structure is made up of sections which allow rearrangement. Each section consists of spaced-apart studs having plywood or plaster base material secured to its inner face and an outer covering of siding or sheathing. The ends of the boards which make up the outer face are offset to form a spaced-apart, tongue-like arrangement which enables each section to be interlocked with an adjacent section. When assembled, these sections interlock with ceiling and floor plate units. Provision is also made for insulation and corner construction. (Owner) John L. Hoffman, 98 South Wheeler, St. Paul, Minn. Group 24—31. Reg. No. 5,688.

Pat. 2,277,058. Packaging. Patented Mar. 24, 1942. A package particularly designed for tobacco. A metal can having a hinged cover encloses a folded pliable wrapper in which the tobacco is held. A pipe cleaner, bent into U-shape, is held between the wrapper and the can cover, one leg of the U embraced by a fold of the wrapper and the other leg free to spring outwardly from the can with a "jack-in-the-box" effect when the cover is opened. (Owners) Wm. O. Ballard and Clifford J. Kraemer. Address correspondence to Wm. O. Ballard, 420 Richardson Bldg., Toledo 4, Ohio. Groups 33—31 ; 39—99. Reg. No. 5,689.

Pat. No. 2,407,383. Garment Sleeve. Patented Sept. 10, 1946. (Granted under the act of March 3, 1883, as amended April 30, 1928 ; 370 O. G. 757.) This garment sleeve is of normal shape except for an extension at the upper end of the undersleeve portion. When sewn into a garment the extension forms a fold which lies above the line at which the sleeve would normally terminate. The underarm portion lies in normal position when the wearer's arm is down, but stretches freely when the wearer's arm is extended. A close yielding fit is assured, permitting an overcoat or any other overgarment to be worn without discomfort. (Owner) Wm. T. Pervidi, 30 Beatrice St., Allendale, N. J. Group 23—11—21—24. Reg. No. 5,690.

Pat. 2,406,565. Electronic Amplifier and Modifier. Patented Aug. 27, 1946. This patent relates to an electronic amplifier and modifier for controlling the effective grid voltage-anode current characteristics in electron tube circuits. The patent relates particularly to a circuit for sensitive control devices. Generally, sensitive relays are not designed to handle high secondary voltages, being susceptible to damage and faulty operation because of low contact pressure or other causes. By controlling the ratio between minimum and maximum voltage, by slight circuit modifications, new and useful circuit characteristics are effected. Basically, this is accomplished by inserting serially, in the master circuit, a controllable resistance device with at least one anode, controllable grid and cathode, together with means for biasing the control grid of the resistive element which is responsive to current or voltage variation in the master circuit. (Owner) Robert G. Rowe, 8237 Witkop Ave., Niagara Falls, N. Y. Group 36—92. Reg. No. 5,691.

Pat. 2,413,418. Mechanical Decoy. Patented Dec. 31, 1946. This mechanical decoy utilizes the swells and waves of the water in which it is placed to flap wings and cause the head of the decoy to turn from side to side. The buoyant structure includes a removable anchor and reel connected to a swivel arrangement linked to the wings. In use, line is unreeled to a length which approximates the depth of the water in which the decoy is to be placed. The anchor resting on the bottom causes the wings to flap as the body rises and falls on the surface of the water, simulating the movement of a live bird. The head is turned by a ball bearing supported tube, journaled for rotation, to which it is fixed. Provision is made to actuate the wings at times when the water is not sufficiently rough. (Owner) Carroll J. Rulison, Clay, N. Y. Group 39—49. Reg. No. 5,692.

Pat. 2,286,670. Fan. Patented June 16, 1942. In place of the usual blades, this fan is provided with double tubular blades cut at an angle of less than 90° and attached to a baffle plate which accommodates the shaft of an electric motor. The blades are placed one within the other, the edge of the inner blade protruding beyond the edge of the outer blade. Design enables the blades to provide an increased pressure so that a greater area is covered by the fan draft. A blade of airfoil contour is shown in modification. (Owner) Maurice M. Condon, 53 Sunnyside Ave., Pleasantville, N. Y. Group 36—21. Reg. No. 5,693.

Pat. 2,413,371. Fish Lure Casting Plug. Patented Dec. 31, 1946. Hollow oblong plug for use with casting rods enables a fly or other light-weight lure to be cast greater distances than otherwise possible, particularly under difficult conditions, as when fisherman is in thick brush or near obstructions at his rear. Before the plug is cast in the usual manner, a lure carrying line or leader of substantial length is wound around a grooved surface of the plug and releasably held thereby. Means, including a propeller operated by water resistance, are embodied in the plug, so that when plug is being retrieved after it has been cast the leader will be automatically released and unwound from the plug, permitting the lure to remain at a remote point. (Owner) Ernest W. Parker. Address correspondence to Kenway & Witter, 80 Federal St., Boston 10, Mass. Group 39—49. Reg. No. 5,694.

Pat. 2,412,839. Centrifugal Pump Primer. Patented Dec. 17, 1946. This pumping apparatus consists of a combination of centrifugal and suction pumps. In operation, the apparatus acts automatically to "prime" or start the centrifugal pump, which then functions until substantially all liquid has been removed from the source. The suction pump takes over the job when the liquid has been reduced to a level where the centrifugal pump would lose its "prime." During operation of the suction pump the liquid is passed through the centrifugal pump. When the liquid source is replenished, the volume handled by the suction pump is increased, the increased volume serving to "re-prime" the centrifugal pump, which then takes over the pumping job so that the suction pump is stopped. The liquid, however, continues to pass through the chamber of the suction pump to the centrifugal pump, so that, should the source of liquid be exhausted, the vacuum pump by sucking air again functions to "re-prime" the centrifugal pump as already described. (Owner) J. Lamar Smith, P. O. Box 5098, Jacksonville 7, Fla. Group 35—61. Reg. No. 5,695.

Pat. 2,412,024. Sectional Container. Patented Dec. 3, 1946. Drum or barrel comprising two identical sheet metal drum sections circumferentially joined and firmly held together by a metal hoop. When the drums are empty the hoop may be cut and discarded to separate the sections so that they may be shipped or stored in nested condition to conserve space. The abutting end of each section is bent to form a bead (with a reinforcing rod inside) and then bent inwardly to form an abutting flange. The hoop is crimped about the beads and over a packing body of the joint when the sections are brought together with the flanges in abutting face to face relation. To prevent rotation of the assembled sections, dowel keys and openings on each of the flanges interlock. The hoop is protected during rolling or otherwise by a pair of raised annular ribs, one being formed on each section. (Owner) Harry S. Young, 442 Beeber St., Williamsport 22, Pa. Group 33—73—96. Reg. No. 5,696.

Pat. 2,339,155. Bicycle Trailer Hitch. Patented Jan. 11, 1944. A pair of spaced bars connected to the rear axle of a bicycle extend rearwardly with a plate attached to the bars. The plate has an upwardly offset rear end with a transverse slot adapted to connect the trailing vehicle. The lower end of the coupling pin is held in opposed notches in the bars. Coupling pin is retained in place by spring means. (Owner) Leland H. Cusack, 57 North Sixth St., Fulton, N. Y. Groups 35—69; 37—41. Reg. No. 5,697.

Pat. 1,786,359. Automatic Clothesline Fastener. Patented Dec. 23, 1930. An automatic gripping device for a clothesline. Comprises an attaching plate with circular extensions at lower corners and a pulley mounted on boss of one. A gripping head is provided between the extensions. Pulling the line actuates a gripping member which holds line taut. (Owner) Lee A. Miller, 461 North Church St., Decatur, Ill. Groups 33—59; 35—69; 40. Reg. No. 5,698.

Pat. 2,412,938. All-Purpose Utility Pencil Case. Patented Dec. 24, 1946. A case for pencils, etc., which protects the points. May be carried in the pocket, used on a desk, or hung on a wall. Comprises a casing having a solid front and a window in the back with separate compartments for pencils of various sizes. A number of pencil point seats are provided at one end, the opposite end having openings for withdrawing the pencils. A hinged leg or prop at rear of casing holds window closed when not in use and supports casing when used on a desk. (Owner) Verona Pearl Amoth, 949 Ashland Ave., St. Paul, Minn. Groups 26—99; 31—99; 39—52; 40. Reg. No. 5,699.

Pat. 2,325,824. Water Heating Unit for Oil Burners. Patented Aug. 3, 1943. Water heater may be easily incorporated in conventional cooking ranges of the type in which upright oil burners surrounded by cylindrical shells are located in front of the oven. It does not interfere with heating the oven or heating cooking vessels over the burners. Permits easy removal of the burners and eliminates the possibility of overheating the water. The heater comprises a pipe bent back and forth in vertically spaced zigzag relation and curved to embrace only about half the circumference of one burner. The heater is located at the side of one burner so that it does not obstruct the space between the burners and the oven, or the space between the burners. (Owner) William H. Wood, Jr., 130 Day St., Seymour, Conn. Group 33—62. Reg. No. 5,700.

Pat. 2,389,882. Combat Knife. Patented Nov. 27, 1945. Knife with double-edge blade is provided with a lateral handle which extends at an angle approaching but somewhat less than a right angle so that the handle is slightly inclined backwardly. A shield for the hand and fingers is connected to the blade and handle, its inner end being curved in a manner to leave a tapered recess between the blade and guard. The recess is adapted to receive and grip an opponent's blade so that his knife may be wrenched from his hand, or the blade broken. (Owner) William H. Wood, Jr., 130 Day St., Seymour, Conn. Group 33—51. Reg. No. 5,701.

Pat. 2,413,596. Anchor. Patented Dec. 31, 1946. Primarily intended for fishing boats and the like, this anchor is constructed so that the flukes may be lifted vertically off the river bed. Suitable flukes are connected to one end of an elongated rod-like shank which has a weight on the other end. Swivel connections at each end permit the shank to turn. The shank adjacent the flukes has a lateral, substantially U-shaped bend formed therein. A ring on the end of the anchor chain is freely slidable on the shank from end to end. When anchor is to be lifted the boat is shifted substantially directly over the anchor. Pull on the chain causes the ring to slide along the shank and engage the bend. Further pull or tensioning of the chain causes the ring to turn the shank until the bend assumes an inverted position with the ring surrounding the apex of the bend before anchor is lifted. (Owner) William H. Wood, Jr., 130 Day St., Seymour, Conn. Group 33—92. Reg. No. 5,702.

Pat. 2,290,396. Molding Vessel. Patented July 21, 1942. A mold for foods with valve-controlled vents in bottom. By manually opening the valves, air is admitted between bottom of mold and the food to facilitate removal

of contents. (Owner) George W. Webster, 5341 North Berkeley Blvd., Milwaukee 11, Wis. Groups 32—29; 34—41. Reg. No. 5,703.

Pat. 1,918,295. Musical Instrument. Patented July 18, 1933. Group 39—32—39. Reg. No. 5,704.

Pat. 1,965,475. Musical Instrument. Patented July 3, 1934. Group 39—32—39. Reg. No. 5,705.

These two patents describe a portable instrument resembling a reed organ in appearance and having the tonal characteristics of an accordion. The reed section is keyboard-controlled, and in open communication with pedal-operated bellows. Tones are produced by concurrent vibrations of two or more reeds differing slightly as to the rate of vibration with the result that the combined tone is made of a tone of true pitch and a tone which varies slightly from true pitch. The bellows of the instrument is concealed within a cabinet. Among claimed advantages are that the keyboard length may be increased, the bellows made larger, etc., achieving smoother and more powerful renditions. The whole may be collapsed within a small carrying trunk. Owner has model available. (Owner) Clifford R. Smith, 2503 Westbrook Drive, Fort Wayne, Ind.

Pat. 2,316,861. Egg Beater. Patented Apr. 20, 1943. Egg is scrambled within its own shell by this beater, dispensing with the need for the usual mixing bowl. Achieved by an agitator having a pointed blade and a pair of flexible strips or springs supported on a knob-rotated shank. The shank is mounted in a crescent shaped support. Modifications of the structure are shown. May be hand or motor operated. (Owner) Oliver H. Hansen, 20493 Five Points, Detroit 19, Mich. Group 33—73. Reg. No. 5,706.

Pat. 2,008,596. Sleeve Board Bracket Support for Ironing Boards. Patented July 16, 1935. This sleeve board, adapted for use with a conventional ironing board, may be positioned beneath the ironing board (when out of use) by an adjustable bracket. The bracket is interlocking and includes cooperating arms carried by each of the boards. One arm has notches in its upper and lower edges to selectively receive a lug carried by the other arm, as well as a pin and slot pivotal connection between the arms. (Owner) Harlan A. Salmon, 410 11th St., N. E., Apt. 2, Washington 2, D. C. Groups 25—99; 33—59. Reg. No. 5,707.

Pat. 2,404,014. Helicopter. Patented July 16, 1946. Helicopter of substantially teardrop design has propellers of the two-blade type and conventional aircraft controls. The helicopter features a vertical air passage or wind tunnel which extends through the main body portion of the fuselage and in which a universally-mounted engine is suspended. The engine is held against rotation, but may be tilted in various angular positions. The wind tunnel also provides a means of cooling the engine and, according to the inventor, confines a cushion of air which is of assistance in taking off, and which in flight provides a sustaining and stabilizing column of air. A number of flotation tanks are contained in the hull-like lower portion of the fuselage, enabling the helicopter to navigate on water. (Owner) Fred Thornes, Toms River, N. J. Group 37—21. Reg. No. 5,708.

Pat. 2,411,240. Supertread for Tires. Patented Nov. 19, 1946. Tire tread arrangement provides renewable tire treads secured by means of concentric anchoring bands and the use of fasteners such as rivets, bolts, zippers, stitching, and the like in attaching tread to the tire. Permanent traction is accomplished by sectional tread thus adding strength, puncture protection and insurance against tire rupture or broken fabric. Manufactured without special equipment. Adaptable to emergency application or for general tire service. (Owner) Kenneth C. Alward, Moweagua, Ill. Group 30—93. Reg. No. 5,709.

Pat. 2,408,196. Sprinkler Head. Patented Sept. 24, 1946. For use with underground sprinkling systems. Constructed so that when left embedded in the lawn the mower may be freely moved thereover without damage to either the head or mower. Also eliminates danger to persons walking on the lawn. The sprinkler head, of substantially inverted bell-shape, has a similarly shaped solid rubber (or plastic) rotor telescopically mounted therein, with space left between the side walls, and with the top of the rotor normally resting or seating on the rim of the sprinkler head. The rotor (which is actuated by the water) is mounted for vertical movement so that it will move off its seat and rise a limited distance above the sprinkler head and rotate when the water is turned on and return by gravity when the water is turned off. The outer surface of the rotor is grooved to provide a series of vertically spaced vanes. (Owner) Rudolph E. Carlson, 4820 Headley Terrace, Jacksonville 5, Fla. Group 35—69. Reg. No. 5,710.

Pat. 2,022,459. High Frequency Electrical Circuit Arrangement. Patented Nov. 26, 1935. A radio receiving system for use in aircraft or other mobile bodies. Apparatus employs circuits electrically balanced at certain frequencies and unbalanced at other frequencies to select radio beacon signals and to energize indicator elements on board the craft. Piezoelectric crystals or other electro-mechanically vibratile elements are used in the balanced circuits for selecting the frequencies to which the system responds. The apparatus may be used to respond to signals that are distinctive in frequency, modulation, coding, amplitude or a combination of these. It is adapted for use on high or ultra high frequencies to aid in guiding the craft to an airport and in landing the craft along a localizer beam. (Owner) B. J. Chromy, National Press Building, Washington 4, D. C. Group 36—62. Reg. No. 5,711.

Re. 21,838. Aeronautical Device. Reissued June 24, 1941. (Original No. 2,081,134, dated May 25, 1937.) Radio signalling apparatus for use at airports, along airways, and on board airplanes or ships. The apparatus determines, by means of a light beam, the distance between a cloud bank hovering over an airport and the surface of the airport by transmitting signals characteristic of this distance to the incoming aircraft. It may also determine the distance between an obstruction such as a mountain peak or iceberg and a plane or vessel by producing a signal characteristic of this distance on the instrument panel of a plane or ship. (Co-owners) John P. Buckley and B. J. Chromy. Address correspondence to B. J Chromy, National Press Bldg., Washington 4, D. C Group 36—62. Reg. No. 5,712.

Pat. 2,216,269. Modulation Indicator. Patented Oct. 1, 1940. This apparatus shows the percentage modulation for transmitters such as amateur radio transmitters, or the amplitude of speech modulating a radio or telephone circuit. The indicator employs a fluorescent tube, the inside sections of which are coated with materials having different fluorescent characteristics. In use, modulations of a certain intensity produce fluorescence in the first section of the tube, modulations of the next higher intensity produce fluorescence in the first and second sections of the tube and so on. By watching the indicator a speaker or singer before a radio microphone may determine whether his voice is too loud or soft and adjust his distance from the microphone accordingly. (Owner) B. J. Chromy, National Press Bldg., Washington 4, D. C. Group 36—61. Reg. No. 5,713.

Pat. 2,285,588. Radio Antenna Patented June 9, 1942. A vehicle or aircraft antenna made in reinforced tubular form and provided with a connection to a hot gas supply. The supply is fed into the lower part of the antenna and sucked out the top by the forward movement of the aircraft or vehicle, heating and thus preventing ice formation on the antenna. The lower part of the antenna is anchored in a suitable insulator structure and attached to the aircraft fuselage or vehicle body. The insulator is also electrically heated to prevent ice formation on its exposed surface. (Co-owners) C. J. Kirkes and B. J. Chromy. Address correspondence to B. J. Chromy, National Press Bldg., Washington 4, D. C. Groups 36—61; 38—31. Reg. No. 5,714.

Pat. 2,413,322. Telegraph System Patented Dec. 31, 1946. This patent refers to a single-line teletype system which may be controlled by any one of the series of sending and receiving stations which comprise the system. The line circuit interconnecting each station is controlled by a switch-operated relay. The operator of a given switch may start the circuit by adjusting his switch to the opposite potential of another switch or stop flow of current by adjusting his switch to the same potential. (Owner) Roland S. Hewitt, 432 Chestnut, Osawatomie, Kans. Group No. 36—62. Reg. No. 5,715.

Pat. 2,236,487. Holder for Rolls or Sheets of Paper. Patented Mar. 25, 1941. A fixture from which paper may be delivered in either a moist or dry condition. The holder includes a casing having a liquid carrying tank at its lower end and an upper roll-carrying spindle. Paper is led under a guide roller and withdrawn, normally, in a dry condition. However, when damp paper is desired a moistened sponge-rubber pad is brought into contact with the underside of the paper by pressure on a finger stud (which controls a springed lever). The lever and stud are returned to inoperative position by release of pressure. The tank may contain water or a mild antiseptic solution. (Owner) John L. Candler, Sunnydene, Hornyold Road, Malvern, Worcester, England. Groups 33—73; 40. Reg. No. 5,716.

Pat. 2,406,662. Valve Mechanism. Patented Aug. 27, 1946. This check valve is particularly adapted for the oil lines of aircraft engines or the like. Consists of a pair of trough-shaped clappers or leaves held together by a resilient ring. The clappers form a flattened cone-shaped assembly when closed. The assembly is held open by the normal flow of liquid and closed either by a reversal in the direction of flow or by the cessation of flow. Inventor states the valve has several advantages over the usual ball or cone valve ordinarily used, in that it does not require an enlarged housing, that it may be assembled with the line, passed through openings in a structural part, etc. (Owner) P. J. Burchett, % Burchett Engineering Co., P. O. Box 73, Pasadena 16, Calif. Groups 33—66; 37—22. Reg. No. 5,717.

Pat. 1,832,340. Projectile Shooter. Patented Nov. 17, 1931. Toy resembles a long-barreled pistol in design. Includes an elongated stick having a handgrip at one end and a pair of forked arms at the other, a trigger guard, rockable keeper and a pivotally mounted trigger. A leather saddle (retaining a stone or marble) is attached to thick rubber bands, the latter stretched and held by the forked ends. The trigger arrangement includes a spring and wedge, the latter of which is forced between rockable keeper elements. When the trigger is pressed, the wedge is forced downardly, releasing the saddle (held between the keeper elements) so that the stone is forcibly thrown forward in sling shot fashion. (Co-owners) Perry Williams and T. M. Nix. Address correspondence to Perry Williams, R. F. D. #1, Phil Campbell, Ala. Group 39—41. Reg. No. 5,718.

Pat. 2,410,957. Fly Swatter. Patented Nov. 12, 1946. This invention relates to a flexible fly swatter made from perforated canvas or the like. One end is reinforced, to which a small loop of the twisted wire handle is clamped at each side. A large loop is provided at far end of handle for holding. (Owner) Henry L. Briones, 35 Central Ave., Tarrytown, N. Y. Group 39—99. Reg. No. 5,719.

Des. 140,631. Design for a Can Opener. Patented Mar. 20, 1945. (Owner) Alfred M. Jacobson, 520 East 19 Ave., Denver, Colo. Groups 33—52; 34—99; 40. Reg. No. 5,720.

Des. 141,239. Design for a Combined Air Vent and Fluid Outlet Can Punch. Patented May 15, 1945. (Owner) Alfred M. Jacobson, 520 East 19 Ave., Denver, Colo. Groups 33—52—73; 34—99; 40. Reg. No. 5,721.

Pat. 2,405,788. Shirt Collar. Patented Aug. 13, 1946. Collar is made of two sections detachably held together by lacing so that the outer exposed turned down section which includes the usual top fold may be easily replaced when desired. When such replacement is made a simple process of unlacing and lacing is all that is necessary, the necessity for stitching being eliminated. The inner section is permanently stitched to the shirt in the usual manner. The shirt and collar may be laundered together. (Co-owner) H. B. Hammerschlag, P. O. Box 5394, Johannesburg, South Africa. Group 23—21. Reg. No. 5,722.

Pat. 2,185,495. Hair Washer and Rinser. Patented Jan. 2, 1940. This invention relates to a hair washing apparatus. Comprises an impeller located below container for liquid which discharges liquid upwardly. Motor is mounted on container and, together with impeller, constitutes a unit supported by an adjustable support. A flexible shield extending upwardly and secured to a ring is adjustable so distance between head of user and impeller permits variation in force of washing fluid directed upwardly toward head of user. A perforation is provided in top of shield for user's head. (Owner) Myra P. Bond, 1685 Oneida St., Schenectady 8, N. Y. Group 39—91. Reg. No. 5,723.

Pat. 1,980,766. Intermittent Cycling Switch for Electrical Circuits. Patented Nov. 13, 1934. A reclosing and lock-out switch for protecting electrical circuits. When loaded to or above a set current flow, the switch trips and recloses the number of times for which it has been adjusted and then locks out until reset by hand. If the loaded condition still persists (after manual resetting) the switch continues to cycle on and off as long as the load is sufficient to cause the switch to open. Should the load be reduced below tripping-out load, or should the trouble which caused the switch to open be corrected, the switch after being closed (automatically or by hand) resets the apparatus to trip and reclose the predetermined number of times before locking out. Broadly, a ratchet arrangement is controlled by a pivoted lever having a bimetallic finger. When affected by additional current passing through a heater, the finger moves away from a contact, causing an open circuit. The finger returns to its former position after cooling, closing the circuit. (Owner) Reuben T. Smith, Box 712, Calhoun City, Miss. Group 39—16. Reg. No. 5,724.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 3, 1947

[Vol. 599. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 475,456. Philco Corporation, Philadelphia, Pa. Filed Oct. 18, 1944.

PHILCO

FOR SYNTHETIC PLASTIC RESIN IN LIQUID FORM.

Claims use since February 1934.

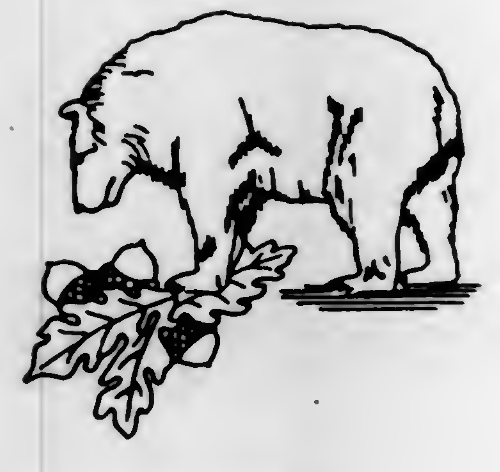
Ser. No. 494,792. Irvington Varnish & Insulator Co., Irvington, N. J. Filed Jan. 15, 1946.

FIBRON

FOR EXTRUDED RESINOID PLASTIC MATERIALS IN THE FORM OF TAPES, TUBES, RODS, STRIPS, BELTING, CHANNELING, AND MONOFILAMENT THREADS, UNFINISHED, FOR USE IN THE MANUFACTURE OF FINISHED ARTICLES.

Claims use since Oct. 2, 1944.

Ser. No. 506,840. A. K. Salz Company, Santa Cruz, Calif. Filed Aug. 3, 1946.



FOR HIDES AND LEATHER.

Claims use since Aug. 20, 1892.

Ser. No. 507,403. International Plastics, Inc., Boston, Mass. Filed Aug. 14, 1946.

Vylotex

FOR PLASTIC COMPOSITIONS IN THE FORM OF SHEETS, STRIPS, BLOCKS, RODS, AND TUBES.

Claims use since Mar. 30, 1946.

CLASS 2

RECEPTACLES

Ser. No. 492,202. Laclede Home Products Company, St. Louis, Mo. Filed Nov. 26, 1945.

Kaddy

FOR ENVELOPES OR SMALL POUCHES MADE OF PLASTIC, FABRIC, OR BASE METAL AND USED FOR CARRYING ONE OR TWO SANITARY NAPKINS OR PADS.

Claims use since Sept. 15, 1945.

Ser. No. 498,639. The Kono Manufacturing Company, Woodside, N. Y. Filed Mar. 20, 1946.

OPTOPAK

FOR MERCHANDISE ENVELOPES FOR EYEGLASS AND SPECTACLE FRAMES SOLD IN TRADE EMPTY.

Claims use since Mar. 1, 1946.

Ser. No. 499,718. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Apr. 5, 1946.

INTERVALLE

FOR VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC MATERIAL AND SOLD IN TRADE EMPTY.

Claims use since Mar. 19, 1946.

Ser. No. 502,956. FIBRCAN CORPORATION, New York, N. Y. Filed May 29, 1946.

GUEST BOUQUET

FOR MATERIAL OR WASTE CANS OF PLASTIC, PAPER, OR BASE METAL.

Claims use since Mar. 15, 1946.

Ser. No. 516,360. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J. Filed Jan. 25, 1947.

TEXCEL

FOR ADHESIVE TAPE DISPENSERS.

Claims use since Mar. 3, 1939.

Ser. No. 518,798. WESTERN OIL AND FUEL COMPANY, Minneapolis, Minn. Filed Mar. 10, 1947.

WO&FC

FOR HIGH TENSILE STRENGTH STEEL CYLINDERS AND DRUMS OF VARIOUS SIZES WITH A MINIMUM WORKING PRESSURE OF 200 POUNDS FOR USE IN STORING, HANDLING AND TRANSPORTING LIQUEFIED PETROLEUM GASES.

Claims use since Aug. 2, 1939.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 504,245. BREVITT SHOES LIMITED, Leicester, England. Filed June 20, 1946.

Brevitt

FOR HANDBAGS.

Claims use since Mar. 1, 1946.

Ser. No. 505,412. MARY K. HOFFMAN, doing business as Atomic Manufacturing Co., Reno, Nev. Filed July 11, 1946.

ATOMIC

FOR HORSE SHOES.

Claims use since on or about June 8, 1946.

Ser. No. 515,434. LESCO LTD., New York, N. Y. Filed Jan. 8, 1947.

"Roly Poly"

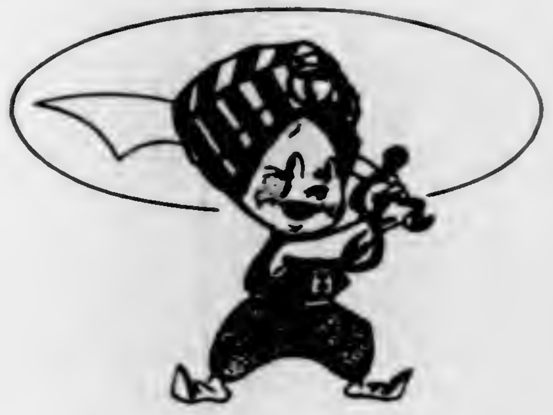
FOR LADIES' HANDBAGS.

Claims use since Sept. 17, 1946.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 506,705. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Aug. 1, 1946.



FOR GENERAL PURPOSE CLEANING COMPOUND.

Claims use since on or about Sept. 1, 1945.

CLASS 5

ADHESIVES

Ser. No. 494,071. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J. Filed Dec. 29, 1945.

PERMACEL

FOR ADHESIVE CEMENTS IN LIQUID AND SOLID FORM.

Claims use since July 13, 1945.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

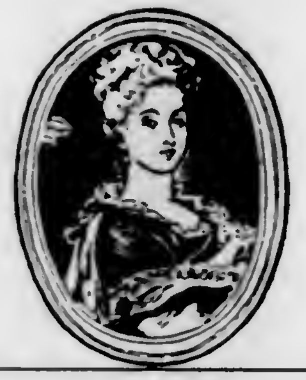
Ser. No. 472,117. NATIONAL TOILET COMPANY, doing business as Merrit Products Company, Paris, Tenn. Filed July 11, 1944.

MERITONE

FOR LIQUID HAIR DRESSING AND STRAIGHTENER, ANTISEPTIC MOUTH WASH AND GARGLE, HAIR TONIC, FOOT BALM, FOOT SOOTHE POWDER, COCOANUT OIL SHAMPOO JELLY, AFTER-SHAVING LOTION, DEODORANT AND DISINFECTANT, SALVE FOR SURFACE CUTS, BRUISES, BURNS, AND ABRASIONS; SALVE FOR THE RELIEF OF CHEST AND HEAD COLDS, BRONCHITIS, AND SORE THROAT; AND FIRST AID SALVE.

Claims use since June 29, 1944.

Ser. No. 484,307. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y. Filed June 8, 1945. Under section 5b of the act of 1905 as amended in 1920.



Reuter's

FOR PERFUME; TOILET WATER; TALCUM POWDER; FACE POWDER; DUSTING POWDER; SACHET POWDER; AND TOILET CREAMS.

Claims use since May 23, 1945, and since June 1877 as to the word "Reuter."

Ser. No. 489,358. PARFUMS VERLAYNE (S. A. R. L.), Paris, France. Filed Oct. 3, 1945.

PLAISIRS

FOR PERFUMES, TOILET WATERS, ROUGE, LIPSTICKS, AND FACE CREAMS.

Claims use since March 1944.

Ser. No. 491,024. PARA TI CORPORATION, New York, N. Y. Filed Nov. 3, 1945.

anoche

FOR PERFUMES.

Claims use since Oct. 22, 1945.

Ser. No. 494,572. GEORGE D. PAULERA, doing business as Paulera Laboratories, Union, N. J. Filed Jan. 10, 1946.

DRESSOL

FOR HAIR DRESSING AND SCALP CONDITIONING COMPOSITION.

Claims use since June 13, 1942.

Ser. No. 495,301. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 24, 1946.

PRESAGE

FOR TOILET PREPARATIONS, PERFUMERY AND COSMETICS—NAMELY, PERFUME, TOILET WATERS, LIPSTICKS, FACE POWDER, TOILET CREAMS, AND ROUGE.

Claims use since Jan. 21, 1946.

Ser. No. 495,345. RICHARD J. SUMNER, Arlington, Va. Filed Jan. 24, 1946.

Ebony and Gold

Applicant makes no claim to a container colored ebony and gold.

FOR PERFUMES.

Claims use since December 1945.

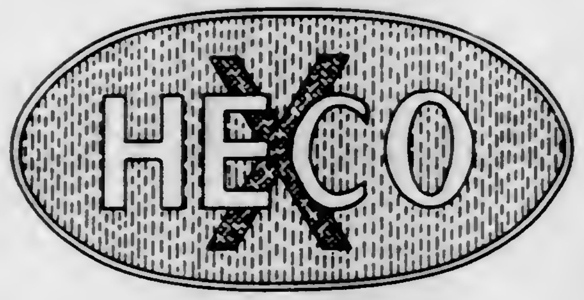
Ser. No. 495,460. EVANS CHEMÈTICS INC., New York, N. Y. Filed Jan. 26, 1946.

THIOVANIC

FOR ORGANIC CHEMICAL—NAMELY, THIOGLYCOLIC ACID OR MERCAPTO ACETIC ACID.

Claims use since Aug. 23, 1945.

Ser. No. 501,184. Heckethorn Mfg. & Supply Co., Littleton, Colo. Filed Apr. 30, 1946.



The color lining on the drawing designates the colors purple and orange.
FOR INSECTICIDES.
Claims use since on or about Mar. 2, 1946.

Ser. No. 501,770. Parfumerie Fragonard G. Fuchs & Cie, Paris, France. Filed May 9, 1946.

FRAGONARD

FOR PERFUMES.
Claims use since 1925.

Ser. No. 502,083. Société d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris and Asnieres near Paris, France. Filed May 14, 1946.

DONA SOL

FOR PERFUMES.
Claims use since December 1940.

Ser. No. 502,263. Bombi Perfumer, Inc., doing business as Bombi, New York, N. Y., and West Haven, Conn. Filed May 17, 1946.

Strange Venture

FOR TALCUM POWDER, DUSTING POWDER, PERFUMES, SACHET POWDER, TOILET WATER, AND BUBBLE BATH SALTS.
Claims use since Jan. 6, 1946.

Ser. No. 503,019. Tablerock Laboratories, Greenville, S. C. Filed May 29, 1946.

CALVIMIN

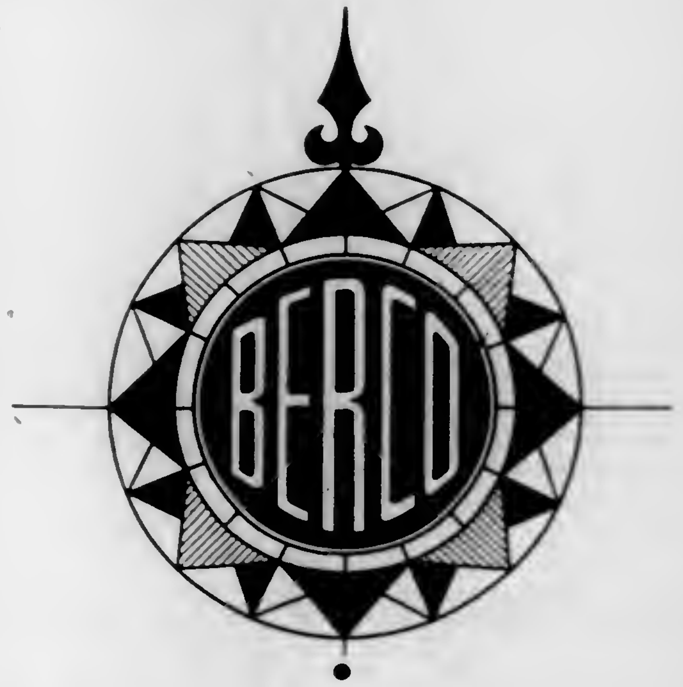
FOR VITAMIN PREPARATION IN CAPSULE FORM FOR THE TREATMENT OF CALCIUM AND PHOSPHOROUS DEFICIENCIES.
Claims use since Apr. 5, 1946.

Ser. No. 503,247. The Elco Lubricant Corporation, Cleveland, Ohio. Filed June 4, 1946.

SCL

FOR A CHEMICAL CONCENTRATE ADAPTED TO BE USED IN LUBRICANTS, SUCH AS MINERAL OILS, TO IMPART EXTREME PRESSURE FILM STRENGTH THERETO THEREBY INCREASING THE LOAD CARRYING CAPACITY OF THE LUBRICANT TO PREVENT SCORING OF GEAR TEETH, BEARINGS OR OTHER MATING METAL SURFACES.
Claims use since Feb. 21, 1945.

Ser. No. 503,495. J. Berlage Co., Inc., New York, N. Y. Filed June 8, 1946.



The white circle, shown in the drawing as immediately surrounding the disc in which is inscribed the word "Berco," is to be considered solely as an imaginary line of demarcation between said disc and the black circle immediately surrounding the said white circle. The said black circle in the drawing is to be considered as an outline of the said disc.
FOR INSECTICIDES AND FUNGICIDES.
Claims use since December 1945.

Ser. No. 504,588. Richard L. Talbot, doing business as Silicote Co., Oshkosh, Wis. Filed June 25, 1946.

SILICOTE

FOR WATER PROOFING PLASTIC FOR USE IN WATERPROOFING FISHING FLIES, FISHING LINES, AND FABRICS. THE MATERIALS AND ARTICLES TO BE WATERPROOFED ARE SOAKED IN THE SOLUTION AND ALLOWED TO DRY AND/OR TREATED BY THE PHYSICAL APPLICATION OF THIS WATER PROOFING PLASTIC IN THE FORM OF A GREASE-LIKE COMPOUND.
Claims use since May 6, 1946.

Ser. No. 505,054. Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Filed July 3, 1946.

ALBALOY

FOR ELECTROPLATING BATH INGREDIENTS.
Claims use since May 22, 1946.

Ser. No. 505,371. Victoria, Ltd., New York, N. Y. Filed July 10, 1946.

VICE VERSA

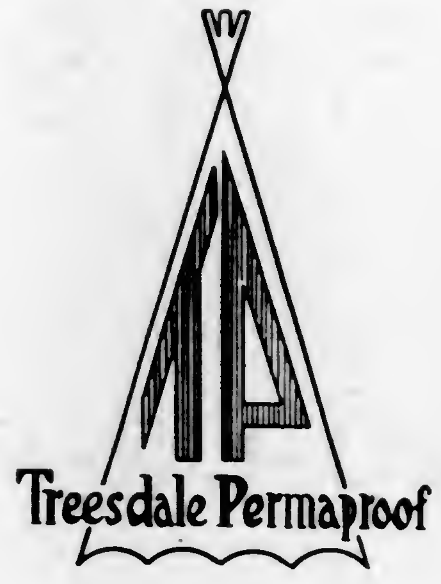
FOR PERFUME, COLOGNE, TOILET WATER, DEODORANT, FACE CREAM, FACE POWDER, TALCUM POWDER, DUSTING POWDER, BODY SACHET POWDER, HAND LOTION, BATH OIL, HAIR DRESSING, ROUGE, LIPSTICK, EYE MAKE-UP, NAIL POLISH, AND SHAMPOO.
Claims use since on or about May 25, 1946.

Ser. No. 505,976. E. Myers Lye Corporation, St. Louis, Mo. Filed July 20, 1946. Under 10-year proviso.

MYERS

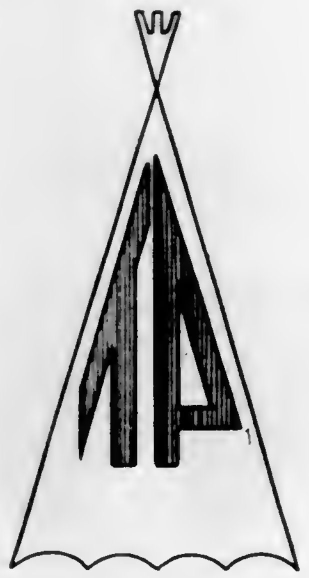
FOR LYE.
Claims use since 1892.

Ser. No. 505,993. Treesdale Laboratories, Inc., Pittsburgh, Pa. Filed July 20, 1946.



The drawing is lined for the color red.
FOR LIQUID CHEMICAL PREPARATIONS FOR WATER- AND FLAMEPROOFING, MILDEW INHIBITING, AND OTHERWISE PRESERVING AND FINISHING TEXTILES AND CELLULOSIC PRODUCTS.
Claims use since Aug. 20, 1945.

Ser. No. 505,994. Treesdale Laboratories, Inc., Pittsburgh, Pa. Filed July 20, 1946.



The drawing is lined for the color red.
FOR LIQUID CHEMICAL PREPARATION FOR WATER- AND FLAMEPROOFING, MILDEW INHIBITING, AND OTHERWISE PRESERVING TEXTILES AND CELLULOSIC MATERIALS.
Claims use since Aug. 20, 1945.

Ser. No. 506,057. Nyal Company, Detroit, Mich. Filed July 22, 1946.

TRIPOLON

FOR MEDICINAL PREPARATION FOR EXTERNAL USE IN THE TREATMENT OF HEAD AND CHEST COLDS AND MUSCULAR SORENESS.
Claims use since June 14, 1946.

Ser. No. 506,084. ARIDYE CORPORATION, New York, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Filed July 23, 1946.

SAS

FOR DYESTUFFS AND TEXTILE COLORING MATERIALS.

Claims use since July 20, 1945.

Ser. No. 506,137. SUNSHINE PRODUCTS COMPANY, Seattle, Wash. Filed July 23, 1946.

NO-UR-O

FOR DEODORANT AND DISINFECTANT.

Claims use since Mar. 15, 1934.

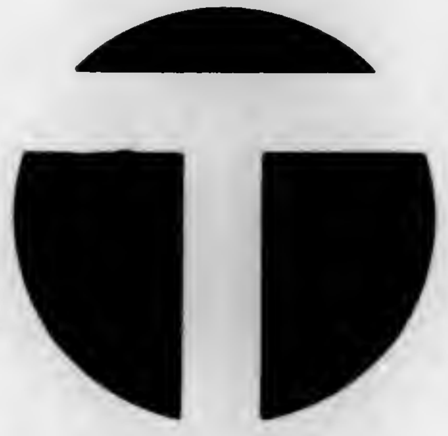
Ser. No. 506,282. ABBOTT LABORATORIES, North Chicago, Ill. Filed July 26, 1946.

VETROPHIN

FOR HORMONE PREPARATION FOR VETERINARY USE.

Claims use since June 27, 1946.

Ser. No. 506,558. TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn. Filed July 30, 1946.



FOR CHEMICAL COMPOSITION COMPRISING CELLULOSE ORGANIC ACID ESTER OR MIXED ESTER, IN SOME CASES PLASTICIZER, PIGMENT OR DYE, HAVING A GENERAL USE IN THE INDUSTRIAL ARTS.

Claims use since June 1, 1936.

Ser. No. 506,662. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Aug. 1, 1946.

GENITOL

FOR LIQUID INSECTICIDAL PRODUCT ADAPTED FOR USE IN BUILDINGS, STOREHOUSES, FOOD PLANTS, CAMPS, TENTS, BOATS, AND OTHER INSECT INFESTED ENCLOSURES.

Claims use since June 26, 1946.

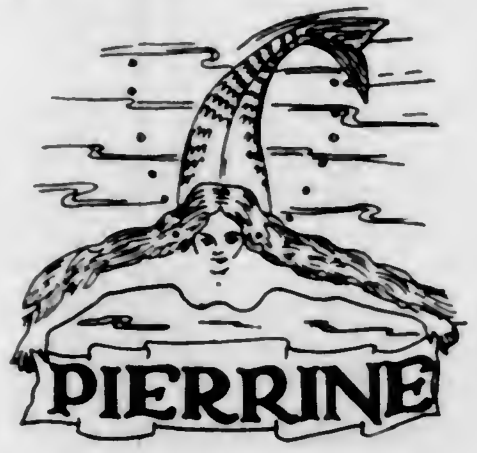
Ser. No. 506,741. ELGIN SOFTENER CORPORATION, Elgin, Ill. Filed Aug. 2, 1946.

ELDURITE

FOR ION EXCHANGE MATERIALS, SUITABLE FOR USE AS WATER SOFTENING AGENTS.

Claims use since July 23, 1946.

Ser. No. 506,958. PIERRINE LABORATORIES, Paterson, N. J. Filed Aug. 6, 1946.



FOR LIQUID PREPARATION FOR TREATING THE HAIR.

Claims use since about July 24, 1946.

Ser. No. 507,538. PORO COLLEGE PRODUCTS COMPANY, INC., doing business as Poro College, Chicago, Ill. Filed Aug. 16, 1946.

PORO

FOR LIQUID AND OINTMENT PREPARATIONS FOR THE HAIR, SCALP AND TEMPLES, PRESSING OILS, SHAMPOO PREPARATIONS, BRILLIANTINE, CROQUIGNOLE OIL, COLD CREAM, VANISHING CREAM, DEODORANT, TALCUM POWDER, FACE POWDER, LIP STICK, AND ROUGE.

Claims use since Sept. 21, 1906.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 465,937. THE ATLAS MINERAL PRODUCTS COMPANY OF PENNSYLVANIA, Mertztown, Pa. Filed Dec. 21, 1943.

KOREZ

FOR ACID-PROOF CEMENT FOR USE IN THE CONSTRUCTION OF CORROSION-PROOF EQUIPMENT, AND AS A MORTAR TO JOIN ACID-PROOF BRICK IN CHEMICAL EQUIPMENT.

Claims use since Feb. 17, 1938.

Ser. No. 499,877. THE UPCO COMPANY, Cleveland, Ohio. Filed Apr. 8, 1946.

HYDROMENT

FOR HYDRAULIC PATCHING CEMENT FOR REPAIRING CONCRETE SURFACES.

Claims use since June 1941.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 488,493. TREMBLAY MACHINE SHOP LTD., Montreal, Quebec, Canada. Filed Sept. 14, 1945.

Bobby

FOR METAL DRINKING CUPS.

Claims use since Aug. 17, 1945.

Ser. No. 492,267. HOUSTON OIL FIELD MATERIAL COMPANY, INC., Houston, Tex. Filed Nov. 27, 1945.

HOMCO

FOR STEEL FITTINGS—NAMELY, NIPPLES, BULL PLUGS, TEES, ELBOWS, CROSSES, VALVES SUCH AS CASING HEAD VALVES, TUBING HEAD VALVES, CHRISTMAS TREE VALVES, CONTROL VALVES LEADING TO AND FROM THE WELL HEAD OF OIL WELLS, AND VALVES FOR OIL REFINERIES.

Claims use since on or about Dec. 1, 1937, as to "Homco" alone; and since June 1, 1945 for the mark as a whole.

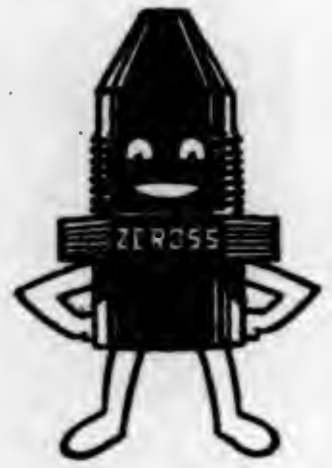
Ser. No. 495,333. S. GRAHAME ROSS LIMITED, Slough, England. Filed Jan. 24, 1946.

ZEROSS

FOR PRESSURE RELIEF VALVES.

Claims use since December 1944.

Ser. No. 495,334. S. GRAHAME ROSS LIMITED, Slough, England. Filed Jan. 24, 1946.



FOR PRESSURE RELIEF VALVES.

Claims use since December 1944.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 500,287. CRUCIBLE STEEL COMPANY OF AMERICA, New York, N. Y. Filed Apr. 16, 1946.

The trade-mark comprises a fanciful, pictorial representation of a foundryman pouring molten metal from a container into a mold.

FOR SEMI-FINISHED INTERMEDIATE CUTTING ALLOY CASTINGS, CASTINGS IN THE FORM OF MAGNETS, ALSO FOR ROLLED, DRAWN OR FORGED HIGH SPEED, TOOL, STAINLESS, ALLOY, MACHINERY AND SPECIAL PURPOSE STEELS, IN THE FORM OF BARS, SHEETS, STRIPS, WIRE, PLATES OR SLABS.

Claims use since June 23, 1944.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 470,754. C-Z CHEMICAL COMPANY, Beloit, Wis. Filed May 29, 1944.

HY-GLO

FOR FLOOR WAX.

Claims use since Oct. 12, 1932.

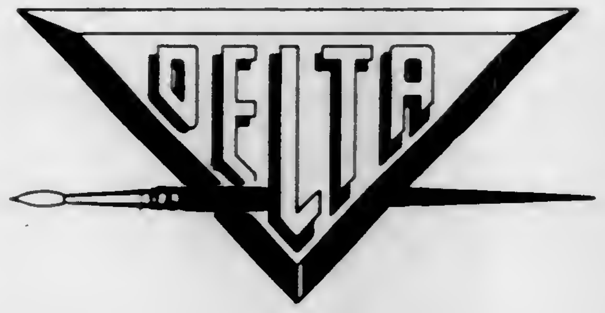
Ser. No. 488,013. BINNEY & SMITH COMPANY, New York, N. Y. Filed Sept. 6, 1945.

COBLAC

FOR PARTLY PREPARED PAINT PRODUCT FOR USE BY PAINT AND LACQUER MANUFACTURERS COMPRISING A COMBINATION OF PIGMENTS OR COLORS WITH NITROCELLULOSE, NATURAL RESIN, SYNTHETIC RESIN, OILS, OR OTHER PAINT INGREDIENTS.

Claims use since Jan. 19, 1934.

Ser. No. 496,897. DELTA COLOR CORPORATION, New York, N. Y. Filed Feb. 19, 1946.



FOR READY MIXED WATER SHOW CARD COLOR.

Claims use since December 1945.

Ser. No. 499,518. TITANINE, INC., Union, N. J. Filed Apr. 2, 1946.

REGOPOL

FOR POLISHES FOR USE ON LACQUERED-TYPE FINISHES.

Claims use since Mar. 14, 1946.

Ser. No. 499,521. TITANINE, INC., Union, N. J. Filed Apr. 2, 1946.

Ti-POL

FOR POLISHES FOR USE ON LACQUERED-TYPE FINISHES.

Claims use since Mar. 14, 1946.

Ser. No. 500,704. JAMES H. SCHULTZ, Detroit, Mich. Filed Apr. 22, 1946.

FOGLO

FOR PAINT FOR APPLICATION TO HEADLIGHT LENSES.

Claims use since Mar. 26, 1946.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 490,422. EASTERN AIR DEVICES, INC., Brooklyn, N. Y. Filed Oct. 24, 1945.

EAD

FOR ELECTRIC MOTORS.

Claims use since Sept. 15, 1942.

Ser. No. 494,527. THE VANGTRONIC CORPORATION, Bridgeport, Conn. Filed Jan. 9, 1946.

VANG-TRONIC

FOR ELECTRICAL WELDING APPARATUS.

Claims use since Dec. 4, 1945.

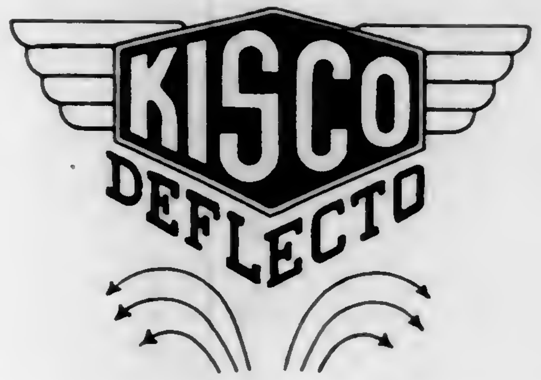
Ser. No. 497,496. PROCESS EQUIPMENT ENGINEERS, INC., Belding, Mich. Filed Mar. 1, 1946.

PERMA-SAN

FOR PORTABLE ELECTRIC PROPELLOR BLADE INDUSTRIAL MIXERS FOR LIQUIDS.

Claims use since about Apr. 30, 1943.

Ser. No. 501,328. KISCO COMPANY, INC., St. Louis, Mo. Filed May 2, 1946.



FOR ELECTRIC CIRCULATOR FAN ASSEMBLIES.

Claims use since Feb. 2, 1939.

Ser. No. 501,649. JAMES A. EBERHART, Cincinnati, Ohio. Filed May 8, 1946.

Phonatron

FOR COMBINATION RADIO RECEIVER AND PHONOGRAPH.

Claims use since Jan. 2, 1946.

Ser. No. 507,133. NORMAN MCKINNEY, doing business as Mack Electric Devices Company, Elkins Park, Pa. Filed Aug. 9, 1946.

MERCU-TROL

FOR MERCURY CONTACT CIRCUIT MAKERS AND BREAKERS, MERCURY PLUNGER RELAYS, AND PARTS THEREOF.

Claims use since Aug. 1, 1946.

Ser. No. 510,486. WILBUR GEORGE COWLBECK, doing business as Elwax Sales Company, Bedford, Va. Filed Oct. 9, 1946.

ELWAX

FOR ELECTRICALLY HEATED WAX MELTING AND POURING POT.

Claims use since June 29, 1925.

Ser. No. 510,787. E. A. LABORATORIES, INC., Brooklyn, N. Y. Filed Oct. 12, 1946.

EL TORO

FOR ELECTRICALLY OPERATED HORNS AND CONTROLS THEREFOR.

Claims use since September 1946.

Ser. No. 511,646. ROBBOY ELECTRIC MFG. CO., Cleveland, Ohio. Filed Oct. 28, 1946.

REMCRAFT

FOR ELECTRICAL APPARATUS—NAMELY, LIGHT FIXTURES, LAMPS, FIXTURE JOINTS THEREFOR, POCKET FLASHLIGHTS, COMBINED CIGARETTE LIGHTERS AND CONDIMENT CONTAINERS.

Claims use since Aug. 1, 1946.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 494,410. GEORGE V. PEAKE, Los Angeles, Calif. Filed Jan. 7, 1946.

TUFFIE

FOR TOYS, SPECIFICALLY, TOY WAGONS, COASTERS, AND SCOOTERS.

Claims use since Aug. 15, 1945.

Ser. No. 495,492. WILLIAM DAVID MINSER, doing business as Minser Tackle Company, Seattle, Wash. Filed Jan. 26, 1946.

LUCKY LOUIE

FOR FISH LURES, FISHING REELS, FISHING SINKERS, AND FISHING ROD HOLDERS.

Claims use since Oct. 14, 1940.

Ser. No. 500,086. CLYDE E. KOLB, doing business as Tourn-A-Grip Company, Birmingham, Mich. Filed Apr. 12, 1946.

WAVE KING

FOR FISHING RODS.

Claims use since Aug. 22, 1945.

Ser. No. 500,490. HERBERT F. ROBERT, Boston, Mass. Filed Apr. 18, 1946.

RUGLAWN

FOR NOVELTY DICE.

Claims use since November 1945.

Ser. No. 510,052. GEORGE F. BARNES, Elmhurst, Ill. Filed Oct. 2, 1946.

TIPPEE

FOR GAME PLAYED WITH PADDLE BATS, A MISSILE AND CATCHING DEVICES, AND EQUIPMENT AND SUPPLIES THEREFOR.

Claims use since Sept. 10, 1946.

Ser. No. 518,408. Ken-Shaw Products, Inc., Detroit, Mich. Filed Mar. 3, 1947.

HI-STEPPER

The mark consists of the compound word "Hi-Stepper."
FOR TOY STILTS.
Claims use since Feb. 11, 1947.

CLASS 23

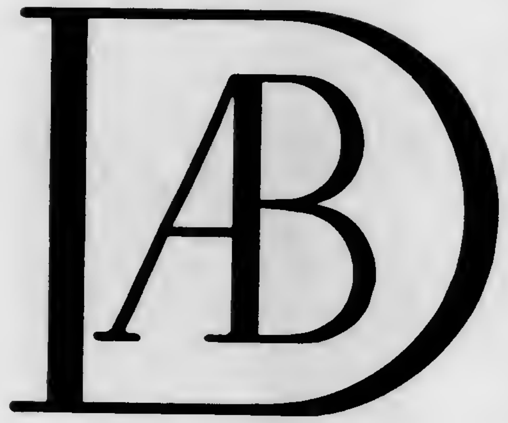
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 500,636. Superdraulic Corporation, Dearborn, Mich. Filed Apr. 20, 1946.

SUPERDRAULIC

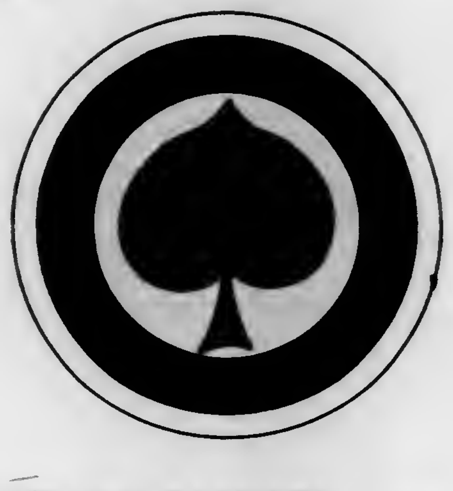
FOR FLUID-OPERATED MECHANISMS—NAMELY, HYDRAULIC PUMPS, HYDRAULIC MOTORS, HYDRAULIC MECHANICAL POWER TRANSMISSIONS FOR MACHINE TOOLS AND VEHICLES, AND HYDRAULIC OPERATIVE CONTROLS THEREFOR.
Claims use since June 26, 1945.

Ser. No. 506,652. A. B. Dick Company, Chicago, Ill. Filed Aug. 1, 1946.



FOR DUPLICATING MACHINES FOR THE STENCIL DUPLICATION OF TYPED, DRAWN AND WRITTEN MATTER AND THE LIKE, AND PARTS OF SUCH MACHINES.
Claims use since Aug. 11, 1945.

Ser. No. 507,226. Ace Specialties Co., Detroit, Mich. Filed Aug. 12, 1946.



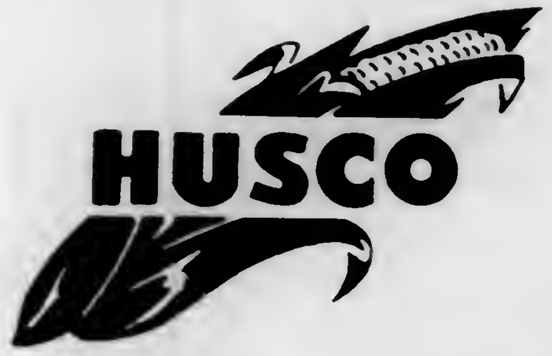
FOR ADJUSTABLE WRENCHES.
Claims use since on or about July 15, 1946.

Ser. No. 509,529. Howard T. O'Brien, doing business as O'Brien Mfg. Co., Chicago, Ill. Filed Sept. 21, 1946.

ROOTMASTER

FOR ELECTRIC SEWER CLEANING MACHINES.
Claims use since Sept. 4, 1946.

Ser. No. 510,202. Dana J. Schneider, doing business as Hydraulic Unit Specialties Company, Painesville, Ohio. Filed Oct. 3, 1946.



FOR HYDRAULIC UNITS COMPRISING RESERVOIR, PUMP AND VALVE, AND WHICH ARE USED FOR FURNISHING POWER TO AND, FOR CONTROLLING THE ACTION OF HYDRAULIC EQUIPMENT, SUCH AS THAT EMPLOYED IN AGRICULTURAL OR ROAD WORKING MACHINERY.
Claims use since Sept. 17, 1946.

Ser. No. 511,380. Columbus Iron Works Company, doing business as Southern Plow Co., Columbus, Ga. Filed Oct. 24, 1946.

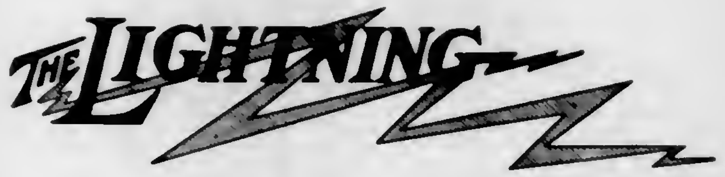
SOUTHERN STREAK

The lining indicates the color red.
FOR PLOW AND CULTIVATOR PARTS—NAMELY, SHOVELS, SWEEPS, BULL TONGUES, WINGS OR MOLDBOARDS, HEEL SCRAPES OR HEEL SWEEPS, BLADES, SCOOTERS, POINTS AND SHAPES.
Claims use since Apr. 19, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 504,009. Ernest E. Thornton, doing business as Lightning Adding Machine Company, Los Angeles, Calif. Filed June 15, 1946.



The lining is for shading purposes.
FOR PORTABLE ADDING MACHINE CONSISTING OF A PANEL CONTAINING NUMEROUS TELEPHONE-LIKE DIALS.
Claims use since October 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 493,274. Mido Societe Anonyme, Bienne, Switzerland. Filed Dec. 14, 1945.

WATERNYMPH

FOR WATCHES, WATCH CASINGS, AND PARTS OF WATCHES.
Claims use since December 1944.

Ser. No. 511,304. Unimex Company, doing business as Unimex Watch Distributors, New York, N. Y. Filed Oct. 22, 1946.

BELBANA

FOR WATCHES AND PARTS THEREOF.
Claims use since Oct. 21, 1946.

Ser. No. 511,305. Unimex Company, doing business as Unimex Watch Distributors, New York, N. Y. Filed Oct. 22, 1946.

TILOX

FOR WATCHES AND PARTS THEREOF.
Claims use since Oct. 21, 1946.

Ser. No. 511,545. Etablissements Uti, Paris, France. Filed Oct. 26, 1946.

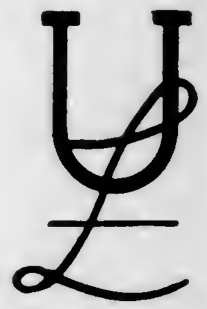
UTI

FOR CLOCKS, WATCHES, JEWELED WATCH CASES, CHRONOMETERS, AND PARTS THEREOF.
Claims use since 1882.

CLASS 28

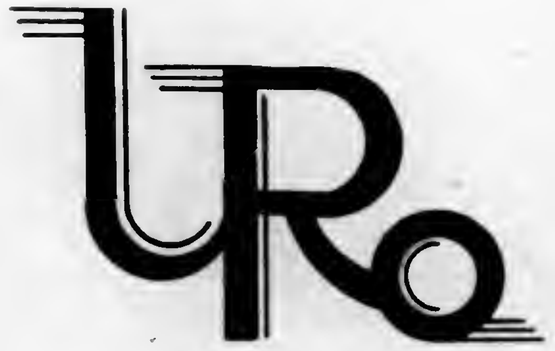
JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 493,945. Otto Baer, doing business as United Jewelry Company, Buffalo, N. Y. Filed Dec. 28, 1945.



FOR JEWELRY FOR PERSONAL WEAR (NOT INCLUDING WATCHES)—NAMELY, FINGER RINGS AND IDENTIFICATION BRACELETS; AND STERLING SILVER OR SILVER-PLATED HOLLOW WARE.
Claims use since about Dec. 12, 1945.

Ser. No. 504,852. Urie F. Mandle Co., New York, N. Y. Filed June 29, 1946.

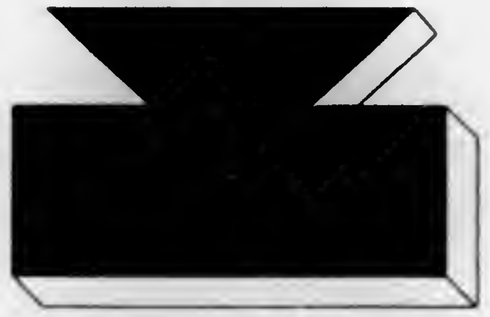


FOR COSTUME JEWELRY CONSISTING OF NECKLACES, BRACELETS, EARRINGS, CHATELAINES, FOBS, BROOCH PINS AND MISCELLANEOUS COSTUME JEWELRY PIECES IN BOTH PRECIOUS AND SEMI-PRECIOUS METALS.
Claims use since June 1, 1946.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 515,233. Mueller Brass Co., Port Huron, Mich. Filed Jan. 3, 1947.



FOR PARTS OF REFRIGERATION APPARATUS COMPRISING SHUT-OFF VALVES, RELIEF VALVES, CHECK VALVES, CONTROL VALVES, MANIFOLDS, FILTERS, STRAINERS, DEHYDRATORS, HEAT EXCHANGERS, LIQUID INDICATORS, FUSIBLE PLUGS, VALVE OPERATING TOOLS, PURGERS, FITTINGS, AND TUBINGS.
Claims use since Jan. 1, 1938.

Ser. No. 515,482. The Brunswick-Balke-Collender Company, Chicago, Ill. Filed Jan. 9, 1947.

BLUE FLASH

Applicant is the owner of registration No. 345,478 dated Apr. 27, 1937.
FOR ELECTRICALLY OPERATED REFRIGERATORS FOR HOME AND COMMERCIAL USE.
Claims use since Dec. 13, 1945.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 502,206. Fore-Site Home Furnishings, Inc., New York, N. Y. Filed May 16, 1946.

Fore-Site

FOR LIVING-ROOM CHAIRS, DINING-ROOM CHAIRS, OCCASIONAL CHAIRS, SOFAS, BEDS, LIVING-ROOM TABLES, DINING-ROOM TABLES, OCCASIONAL TABLES, DRESSERS, BEDROOM CHESTS, CREDENZAS, SIDEBOARDS, CHINA CLOSETS, DESKS, BOOKCASES, AND PORTABLE MANTELS.

Claims use since Apr. 15, 1946.

Ser. No. 507,940. Frank Saltz, La Crosse, Wis. Filed Aug. 23, 1946.

CONTREROLLE

FOR OFFICE EQUIPMENT IN THE FORM OF METAL CABINETS, FOR USE IN FILING.

Claims use since July 15, 1946.

Ser. No. 508,295. Sydney M. Leach, doing business as Leach & Co., Toledo, Ohio. Filed Aug. 30, 1946.

LAZY SUZY

The lining and hatching on the drawing is for shading purposes only.

FOR JUVENILE CHAISE LOUNGES, JUVENILE CHAIRS, AND JUVENILE ROCKERS.

Claims use since Jan. 2, 1946.

Ser. No. 510,036. Tri-Way Industries, Inc., Seattle, Wash. Filed Oct. 1, 1946.

TRI WAY

FOR TUBULAR METAL-FRAMED FURNITURE—NAMELY, KITCHEN AND DINING-ROOM TABLES AND CHAIRS, OCCASIONAL CHAIRS, COFFEE TABLES, SETTEES, COSTUMERS, AND BAR-STOOLS, LARGELY DOMINATED BY THE EMPLOYMENT OF METAL TUBING AS THE FRAMING STRUCTURE BUT IN SOME CASES EMPLOYING BAR OR RIBBON STOCK AS THE METAL OF THE FRAME.

Claims use since Sept. 1, 1945.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 510,872. Globe Enterprises, Beverly Hills, Calif., assignor to Gammon H. Beaver. Filed Oct. 14, 1946.

FIREATOR

FOR INCINERATOR DOORS.

Claims use since Aug. 20, 1946.

Ser. No. 512,418. Hutchinson Burner and Manufacturing Company, Hutchinson, Kans. Filed Nov. 12, 1946.

Powermix

FOR GAS BURNERS FOR AIR HEATING FURNACES.

Claims use since 1934.

Ser. No. 514,769. Mutual-Sunset Lamp Manufacturing Co., Inc., New York, N. Y. Filed Dec. 24, 1946.

MVTVAL-SVNSET

FOR PORTABLE LAMP SHADES.

Claims use since March 1925.

CLASS 37

PAPER AND STATIONERY

Ser. No. 489,340. Mid-States Gummed Paper Co., Chicago, Ill. Filed Oct. 3, 1945.

MIRACLE

FOR GUMMED PAPER LABELS HAVING THEIR UNGUMMED SIDES BLANK, AND ALSO FOR GUMMED PAPER LABELS HAVING THEIR UNGUMMED SIDES PARTIALLY PRINTED.

Claims use since June 1, 1945.

Ser. No. 507,295. Robert B. Buzzerd, Charleston, W. Va. Filed Aug. 13, 1946.

"GRUB STAKE"

FOR BLANK RULED STAMP COLLECTORS' SHEETS ADAPTED FOR INSERTION IN ALBUMS AND THE LIKE.

Claims use since Aug. 1, 1946.

Ser. No. 507,544. Vernon Steensland, Syracuse, N. Y. Filed Aug. 16, 1946.

FLEXILOPE

FOR BLANK FORMS—NAMELY, PETTY CASH VOUCHERS.

Claims use since Aug. 3, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 491,915. Marie-Helene Hallgarten, New York, N. Y. Filed Nov. 20, 1945.

Marie-Hélène

FOR TEXTILE DESIGN SKETCHES.

Claims use since June 1945.

Ser. No. 492,960. Fred Sands, Kansas City, Mo. Filed Dec. 8, 1945.

Things Beautiful

FOR PUBLICATIONS ISSUED AT IRREGULAR INTERVALS COVERING GIFT SHOWS FOR DISTRIBUTION TO TRADE INTERESTED IN MERCHANDISE DISPLAYED AT THE SHOWS.

Claims use since July 1938.

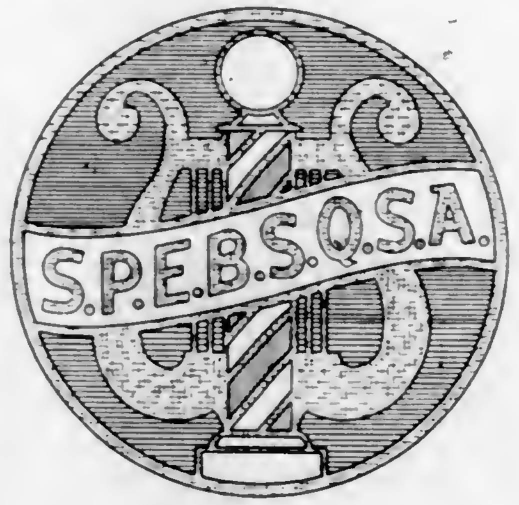
Ser. No. 504,349. Gem Publications Inc., New York, N. Y. Filed June 21, 1946.

"georgie"

FOR MAGAZINE OR PUBLICATION PUBLISHED PERIODICALLY.

Claims use since Jan. 26, 1945.

Ser. No. 504,867. The Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., Chicago, Ill., and Detroit, Mich. Filed June 29, 1946.

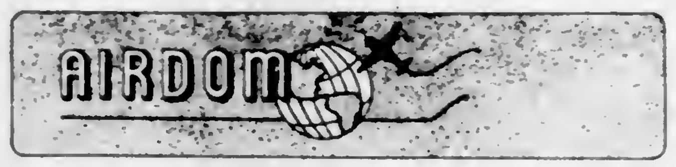


The drawing is lined and hatched for the colors red, blue, and gold.

FOR MAGAZINES PUBLISHED PERIODICALLY, FOR PRINTED PROGRAMS, AND FOR PRINTED MUSICAL COMPOSITIONS.

Claims use since March 1944.

Ser. No. 506,600. Import Publications Inc., New York, N. Y. Filed July 31, 1946.



FOR SECTION IN A MAGAZINE DEVOTED TO THE AIR TRANSPORTATION BUSINESS.

Claims use since Dec. 1, 1944.

Ser. No. 507,078. James David Shepherd, Denver, Colo. Filed Aug. 8, 1946.

WHERE-ZIT?

FOR NEWSPAPER OR PERIODICAL FEATURE.

Claims use since June 19, 1946.

Ser. No. 507,439. Textileather Corporation, Toledo, Ohio. Filed Aug. 14, 1946.

TEXTOLITE

FOR HOUSE ORGAN.

Claims use since May 25, 1946.

Ser. No. 508,462. Bosco Company, Inc., New York, N. Y. Filed Sept. 4, 1946.

THE BOSCO KID!

FOR SERIES OF CARTOONS.

Claims use since May 8, 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 498,677. American Elan Corporation, New York, N. Y. Filed Mar. 21, 1946.

Elan

FOR SHOULDER PADS FOR LADIES' GARMENTS, PINS AND NEEDLES NOT MADE OF PRECIOUS METALS, RIBBONS IN CUT LENGTHS, NARROW ELASTIC FABRIC AND WEBBINGS, ELASTIC CORD, AND HOOKS AND EYES.

Claims use since Feb. 11, 1946.

Ser. No. 509,225. Leart, Inc., New York, N. Y. Filed Sept. 17, 1946.

LEART

FOR DRESSER SETS COMPOSED OF HAIR BRUSHES, COMBS AND HAND MIRRORS SOLD AS A UNIT AND CONTAINING NO PRECIOUS METALS AND PRECIOUS STONES, NON-ELECTRIC HAIR CURLERS, SEWING KITS, COMBS, HAIR PINS AND HAIR ORNAMENTS MADE OF NON-PRECIOUS METALS AND PLASTICS.

Claims use since July 1, 1942.

Ser. No. 511,406. Modern Miltex Corporation, New York, N. Y. Filed Oct. 24, 1946.

"SEQUIRE"

FOR SEQUINS AND SPANGLES.

Claims use since Oct. 15, 1946.

Ser. No. 512,533. Phillips-Beal Company, Manchester, Conn. Filed Nov. 13, 1946.

Permabond

FOR PLASTIC COATED SHOE BUCKLES MADE OF NON-PRECIOUS METALS.

Claims use since Apr. 1, 1946.

Ser. No. 512,907. G. L. Hancock & Company, Forest Hills, N. Y. Filed Nov. 20, 1946.

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T

FOR HAIRPINS.

Claims use since August 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 491,160. Jerney Fabrics Co., New York, N. Y. Filed Nov. 6, 1945.

JER - TEX

FOR FABRICS IN THE PIECE MADE OF RAYON AND RAYON AND WOOL IN COMBINATION.

Claims use since Oct. 5, 1945.

Ser. No. 502,334. Roosen Silks Limited, London, England. Filed May 17, 1946.

MATUBA

FOR PIECE GOODS MADE OF COTTON.

Claims use since Aug. 17, 1944.

Ser. No. 507,248. Fabrics of United Kingdom Limited, New York, N. Y. Filed Aug. 12, 1946.

MARBLE ARCH

FOR TEXTILE FABRICS IN THE PIECE, OF WOOL, WORSTED, COTTON, RAYON, PROTEIN FIBRES AND COMBINATIONS THEREOF.

Claims use since May 1, 1946.

Ser. No. 507,453. Arkwright, Incorporated, New York, N. Y. Filed Aug. 15, 1946.

BROADMOOR

FOR BLANKETS AND RUGS.

Claims use since Mar. 8, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 500,302. Gordon's Sonocle Shops, Pawtucket, R. I. Filed Apr. 16, 1946.

SONOCLE

FOR HEARING AIDS AND PARTS THEREOF.

Claims use since Jan. 9, 1946.

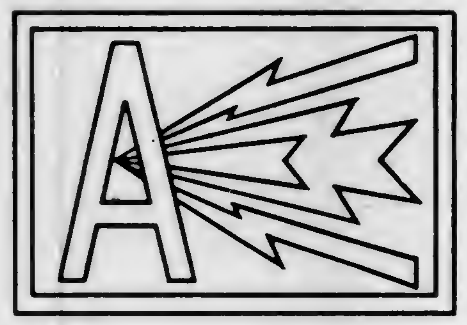
Ser. No. 502,196. Dictograph Products Company, Inc., New York, N. Y. Filed May 16, 1946.

UNIPAC

FOR ELECTRICAL PERSONAL HEARING AID APPARATUS.

Claims use since about Mar. 29, 1946.

Ser. No. 502,197. Dictograph Products Company, Inc., New York, N. Y. Filed May 16, 1946.



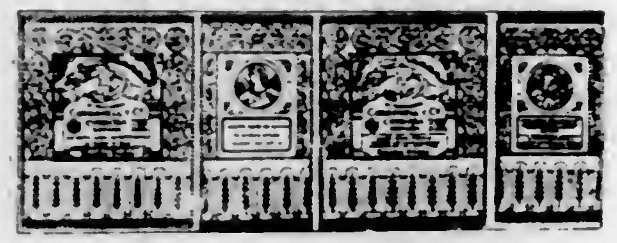
FOR ELECTRICAL PERSONAL HEARING AID APPARATUS.

Claims use since about Nov. 5, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 458,388. Carbonell y Compania de Cordoba S. A., Cordoba, Spain. Filed Feb. 8, 1943. Under 10-year proviso.



No claim is made to the exclusive use of any of the words except the words "La Providencia" and the words "Carbonell y Ca." Applicant is the owner of registration No. 154,508.

FOR OLIVE OIL.

Claims use since 1867.

Ser. No. 478,103. Abbee Food Products Co., Kansas City, Kans. Filed Jan. 1, 1945.

PAPPY'S FAVORITE

FOR PANCAKE FLOUR AND BREAKFAST WHOLE WHEAT CEREAL.

Claims use since Dec. 28, 1944.

Ser. No. 488,469. James Miles, doing business as Qlin Company, Okeechobee, Fla. Filed Sept. 14, 1945.

QLIN

FOR FOOD PREPARATION COMPOSED OF A PROCESSED FRUIT JUICE WITH A SPECIAL INORGANIC ACID AS A PRESERVATIVE.

Claims use since Jan. 1, 1930.

Ser. No. 493,878. Atkinson Milling Company, Minneapolis, Minn. Filed Dec. 26, 1945. Under 10-year proviso.

BEST
OF
ALL

FOR WHEAT FLOUR.

Claims use since 1890.

Ser. No. 497,201. Redhurd Corporation, Terre Haute, Ind. Filed Feb. 25, 1946.

DUBLEGG

FOR PURE CONCENTRATED EGGS.

Claims use since Dec. 1, 1945.

Ser. No. 505,237. ROSEMARIE DE PARIS, INC., New York, N. Y. Filed July 8, 1946.

Marie Antoinette

The trade-mark is the name of an historical person who is deceased.

FOR CANDY.

Claims use since about March 1942.

Ser. No. 507,891. COVALDA DATE COMPANY, Coachella, Calif. Filed Aug. 23, 1946.

COVALDA

FOR FRESH DATES.

Claims use since 1932.

Ser. No. 508,716. BENJAMIN CLAYTON, doing business as Refining, Unincorporated, Pasadena, Calif. Filed Sept. 9, 1946.

VoDoL

FOR VEGETABLE OIL PHOSPHATIDES, USED, FOR EXAMPLE, IN SHORTENING, CHOCOLATE, ETC.

Claims use since Mar. 1, 1940.

Ser. No. 510,200. ROSEMARIE DE PARIS, INC., New York, N. Y. Filed Oct. 3, 1946.

CÉLÉBRITÉ

FOR CANDY.

Claims use since Sept. 12, 1946.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 505,852. NAEGELE-HORNER INC., New York, N. Y. Filed July 18, 1946.

BLITHE SPIRIT

FOR MANNEQUINS AND PARTS THEREFOR.

Claims use since Nov. 15, 1945.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF FEBRUARY 20, 1905

JUNE 3, 1947

429,969. PIECE GOODS—NAMELY, WOOLEN SUMMER SUITING. WAWAK COMPANY INC., Chicago, Ill.
Filed December 5, 1942. Serial No. 457,232. PUBLISHED MARCH 11, 1947. Class 42.

429,970. ROLL ROOFING, SIDING, AND SHEATHING; AND HEAT AND SOUND INSULATING, LINING, AND BACKING BUILDING PAPERS, AND FELTS. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill.
Filed May 19, 1944. Serial No. 470,407. PUBLISHED MARCH 11, 1947. Class 12.

429,971. ROLL ROOFING, SIDING, AND SHEATHING; AND HEAT AND SOUND INSULATING, LINING AND BACKING BUILDING PAPERS AND FELTS. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill.
Filed May 19, 1944. Serial No. 470,408. PUBLISHED MARCH 11, 1947. Class 12.

429,972. CEMENTS, AND PARTICULARLY BITUMINOUS CEMENTS, FOR SECURING TOGETHER COURSES OF ROOFING AND THE LIKE, ETC. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill.
Filed May 19, 1944. Serial No. 470,409. PUBLISHED MARCH 11, 1947. Class 12.

429,973. WATCHES AND WATCH MOVEMENTS. COMPAGNIE DES MONTRES ARDATH, DREYFUSS & CIE (ARDATH WATCH CO., DREYFUSS & CO.), Geneva, Switzerland.
Filed March 20, 1945. Serial No. 481,101. PUBLISHED MARCH 4, 1947. Class 27.

429,974. MINK PELTS. MUTATION MINK BREEDERS ASSOCIATION, Elkhorn, Wis.
Filed May 16, 1945. Serial No. 483,435. PUBLISHED MARCH 11, 1947. Class 1.

429,975. STENCILS, STYLI, CORRECTION FLUID, HECTOGRAPH FLUID, MACHINES FOR STENCIL DUPLICATION, AND STENCIL SCOPES. RED FEATHER PRODUCTS LTD., Redwood City, Calif., assignor to Red Feather Products Ltd., Redwood City, Calif., a corporation of California.
Filed July 7, 1945. Serial No. 485,545. PUBLISHED MARCH 11, 1947. Class 37.

429,976. ARTICLES OF BEDDING—NAMELY, PILLOWS. SAM KAPLAN, doing business as Air-O-Tabs Co., Chicago, Ill.
Filed August 20, 1945. Serial No. 487,328. PUBLISHED MARCH 11, 1947. Class 32.

429,977. RADIO RECEIVING AND/OR TRANSMITTING SETS, TELEVISION RECEIVING AND SENDING APPARATUS, AND ELECTRICALLY CONTROLLED PHONOGRAPHS, ETC. IRVING GELLER, New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania.
Filed August 27, 1945. Serial No. 487,613. PUBLISHED MAY 14, 1946. Class 21.

429,978. JEWELRY AND JEWELRY NOVELTIES NOT INCLUDING WATCHES, MADE OF GOLD, SILVER AND PRECIOUS AND SEMI-PRECIOUS METAL, ETC. KERCO JEWELLERY LIMITED, Montreal, Quebec, Canada.
Filed September 15, 1945. Serial No. 488,535. PUBLISHED MARCH 4, 1947. Class 28.

429,979. BELT BUCKLES, TIE BARS, COLLAR BARS, CUFF LINKS, AND MONEY CLIPS, ALL MADE OF PRECIOUS OR SEMI-PRECIOUS METAL. S. BUCHSBAUM & CO., Chicago, Ill.
Filed October 8, 1945. Serial No. 489,559. PUBLISHED MAY 28, 1946. Class 28.

429,980. SEATS AND BACK RESTS OF THE SPORTING FURNITURE TYPE FOR BEACHES AND SIMILAR USES. CURRAN CUSHION & TEXTILE CO., Downers Grove, Ill.
Filed October 22, 1945. Serial No. 490,294. PUBLISHED MARCH 4, 1947. Class 32.

429,981. MEN'S, WOMEN'S, BOYS', AND GIRLS' KNITTED OUTERWEAR—NAMELY, MACHINE KNITTED SWEATERS. NEW YORK KNITTING MILLS, New York, N. Y.
Filed November 5, 1945. Serial No. 491,113. PUBLISHED AUGUST 20, 1946. Class 39.

429,982. LEATHER WATCH STRAPS, WATCH FOBS OF LEATHER FROM ONE TO TWO INCHES WIDE WITH AN INSIGNIA ON ITS FACE, TOILET SETS CONSISTING OF A COMB AND MIRROR, AND MANICURE SETS MADE OF PLASTIC MATERIAL. ARISTOCRAT LEATHER PRODUCTS, INC., New York, N. Y.
Filed November 24, 1945. Serial No. 492,123. PUBLISHED AUGUST 20, 1946. Class 40.

429,983. CORRESPONDENCE PAPER AND ENVELOPES. UNITED STATES ENVELOPE COMPANY, doing business as P. P. Kellogg & Co., Springfield, Mass.
Filed December 14, 1945. Serial No. 493,297. PUBLISHED MARCH 11, 1947. Class 37.

429,984. TELEPHONE STANDS EQUIPPED WITH A SHELF FOR HOLDING A PAPER PAD AND PENCIL. ERIC R. BACHMANN, Jackson Heights, N. Y.
Filed December 22, 1945. Serial No. 493,723. PUBLISHED FEBRUARY 25, 1947. Class 32.

429,985. CHILDREN'S HIGH CHAIRS. WEAR-EVER BABY CARRIAGE CO., Brooklyn, N. Y.
Filed December 31, 1945. Serial No. 494,174. PUBLISHED MARCH 11, 1947. Class 32.

429,986. METAL FURNITURE—NAMELY, CHAIRS, TABLES, SETTEES. HARRY HALLET, doing business as Hallet & Hallet, Somerville, Mass.
Filed January 8, 1946. Serial No. 494,446. PUBLISHED MARCH 11, 1947. Class 32.

429,987. COLLAPSIBLE DINETTE SETS. RICHARD H. HOWELL, New York, N. Y.
Filed January 16, 1946. Serial No. 494,846. PUBLISHED FEBRUARY 18, 1947. Class 32.

429,988. COSTUME JEWELRY. DAVID GRAD COMPANY, New York, N. Y.
Filed January 31, 1946. Serial No. 495,733. PUBLISHED MARCH 4, 1947. Class 28.

429,989. MAGAZINE RACKS, CARD TABLES, AND OCCASIONAL TABLES. BERGEN MACHINE & TOOL COMPANY, INC., Nutley, N. J.
Filed February 7, 1946. Serial No. 496,128. PUBLISHED MARCH 11, 1947. Class 32.

429,990. CIGARETTES, SMOKING TOBACCO, CHEWING TOBACCO, AND SNUFF. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky.
Filed February 12, 1946. Serial No. 496,422. PUBLISHED DECEMBER 24, 1946. Class 17.

429,991. MATTRESSES, BOX SPRINGS, AND STUDIO COUCHES. Champion Bedding Company, Lynn, Mass.
Filed March 5, 1946. Serial No. 497,647. PUBLISHED FEBRUARY 11, 1947. Class 32.

429,992. UPHOLSTERED FURNITURE—NAMELY, CHAIRS, SOFAS, LOVE SEATS, OTTOMANS, OPEN ARMCHAIRS, CHAISE LONGUES, ETC. Company of Master Craftsmen, Inc., Oneida, N. Y.
Filed March 14, 1946. Serial No. 498,206. PUBLISHED MARCH 11, 1947. Class 32.

429,993. UPHOLSTERED FURNITURE—NAMELY, CHAIRS, SOFAS, LOVE SEATS, OTTOMANS, OPEN ARMCHAIRS, CHAISE LONGUES, ETC. Company of Master Craftsmen, Inc., Oneida, N. Y.
Filed March 14, 1946. Serial No. 498,207. PUBLISHED MARCH 11, 1947. Class 32.

429,994. METAL ALLOY WELDING RODS. Resisto-Loy Company, Grand Rapids, Mich.
Filed March 18, 1946. Serial No. 498,457. PUBLISHED JANUARY 7, 1947. Class 14.

429,995. BRACELETS, ORNAMENTAL PINS, EARRINGS, AND FINGER RINGS. Fortress Watch & Jewelry Co. Inc., New York, N. Y.
Filed March 20, 1946. Serial No. 498,614. PUBLISHED MARCH 11, 1947. Class 28.

429,996. VENETIAN BLINDS AND PARTS THEREOF. The Columbia Mills, Inc., New York, N. Y.
Filed March 27, 1946. Serial No. 499,047. PUBLISHED FEBRUARY 25, 1947. Class 32.

429,997. FOLDING CLOTHES STANDS. Henry J. Dery, doing business as The Dery Products Co., Richmond, Calif.
Filed March 29, 1946. Serial No. 499,212. PUBLISHED FEBRUARY 25, 1947. Class 32.

429,998. FINGER RINGS, PRECIOUS STONES FOR ORNAMENTAL PURPOSES AND MOUNTINGS THEREFOR. Waldron & Company, Inc., Philadelphia, Pa.
Filed April 26, 1946. Serial No. 501,034. PUBLISHED MARCH 11, 1947. Class 28.

429,999. PAPER IN SHEETS AND ROLLS FOR USE AS SURGICAL SHEETS, SHROUDS, WINDOW SHADES, CURTAINS, ETC. Falcon Products, Inc., Portland, Maine.
Filed May 1, 1946. Serial No. 501,249. PUBLISHED MARCH 11, 1947. Class 37.

430,000. CLOCKS, WATCHES, AND PARTS THEREOF. The New Haven Clock Company, New Haven, Conn., assignor to New Haven Clock and Watch Company, New Haven, Conn., a corporation of Connecticut.
Filed May 1, 1946. Serial No. 501,265. PUBLISHED MARCH 11, 1947. Class 27.

430,001. FACE AND BATH TOWELS AND FACE CLOTHS. Pacific Mills, Boston, Mass., and New York, N. Y.
Filed May 3, 1946. Serial No. 501,403. PUBLISHED MARCH 4, 1947. Class 42.

430,002. PLASTIC MATERIALS AND SYNTHETIC RESINS MANUFACTURED IN SHEET, ROD, AND TUBE FORM. Celluplastic Corporation, Newark, N. J.
Filed May 14, 1946. Serial No. 502,061. PUBLISHED MARCH 11, 1947. Class 1.

430,003. HAIR CURLERS. Martha M. Talbot, doing business as Talbot Products, Detroit, Mich.
Filed May 16, 1946. Serial No. 502,239. PUBLISHED MARCH 11, 1947. Class 40.

430,004. SUN GOGGLES AND INDUSTRIAL GOGGLES. Watchemoket Optical Co. Inc., Providence, R. I.
Filed May 16, 1946. Serial No. 502,241. PUBLISHED MARCH 11, 1947. Class 26.

430,005. CLOCKS, WATCHES, AND PARTS THEREOF. The New Haven Clock Company, New Haven, Conn., assignor to New Haven Clock and Watch Company, New Haven, Conn., a corporation of Connecticut.
Filed May 17, 1946. Serial No. 502,316. PUBLISHED MARCH 11, 1947. Class 27.

430,006. CLOCKS, WATCHES, AND PARTS THEREOF. The New Haven Clock Company, New Haven, Conn., assignor to New Haven Clock and Watch Company, New Haven, Conn., a corporation of Connecticut.
Filed May 18, 1946. Serial No. 502,396. PUBLISHED MARCH 11, 1947. Class 27.

430,007. COMBINED HIGH CHAIR AND STROLLER FOR INFANTS. Riley Brothers, Kansas City, Mo.
Filed May 27, 1946. Serial No. 502,844. PUBLISHED MARCH 4, 1947. Class 32.

430,008. UNIT COMBINATION DINING TABLE AND CHAIRS. Little Rock Restaurant Supply Company, Little Rock, Ark.
Filed May 29, 1946. Serial No. 502,989. PUBLISHED MARCH 11, 1947. Class 32.

430,009. WINDOW LOCKS. John Sossi, doing business as Sossi Mfg. Co., Bayside, Long Island, N. Y.
Filed June 1, 1946. Serial No. 503,175. PUBLISHED MARCH 4, 1947. Class 25.

430,010. PAINT BRUSHES. Art & Sign Brush Manufacturing Corporation, Long Island City, N. Y.
Filed June 6, 1946. Serial No. 503,339. PUBLISHED MARCH 11, 1947. Class 29.

430,011. APPARATUS, ELECTRICALLY OPERATED, FOR DRYING AND HEATING TOWELS AND CLOTHES. John A. Grey & Partners Limited, London, England.
Filed June 7, 1946. Serial No. 503,442. PUBLISHED MARCH 11, 1947. Class 24.

430,012. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES; AND STERLING SILVER AND SILVERPLATED TABLE FLAT WARE AND HOLLOW WARE. H. Steele y Cia., S. A., Mexico City, Mexico.
Filed June 10, 1946. Serial No. 503,613. PUBLISHED MARCH 4, 1947. Class 28.

430,013. WOOLEN PIECE GOODS. Wawak Co., Inc., Chicago, Ill.
Filed June 12, 1946. Serial No. 503,778. PUBLISHED MARCH 11, 1947. Class 42.

430,014. TEXTILE FABRICS IN THE PIECE MADE OF SILK, RAYON AND A MIXTURE THEREOF. Concordia-Gallia Corp., New York, N. Y.
Filed June 14, 1946. Serial No. 503,870. PUBLISHED MARCH 11, 1947. Class 42.

430,015. FINGER RINGS. David Karp Company, New York, N. Y.
Filed June 21, 1946. Serial No. 504,367. PUBLISHED MARCH 11, 1947. Class 28.

430,016. BEVERAGE CARTS. Treitel-Gratz Co., Inc., New York, N. Y.
Filed June 27, 1946. Serial No. 504,718. PUBLISHED NOVEMBER 19, 1946. Class 32.

430,017. SILVERPLATED FLAT TABLEWARE. Oneida Ltd., Sherrill and Oneida, N. Y.
Filed June 28, 1946. Serial No. 504,784. PUBLISHED MARCH 4, 1947. Class 28.

430,018. STERLING SILVER FLATWARE, HOLLOWWARE, AND CUTLERY. The Alvin Corporation, Providence, R. I.
Filed July 2, 1946. Serial No. 504,957. PUBLISHED MARCH 11, 1947. Class 28.

430,019. STERLING SILVER FLATWARE, HOLLOWWARE AND CUTLERY. Gorham Manufacturing Company, Providence, R. I.
Filed July 2, 1946. Serial No. 504,973. PUBLISHED MARCH 11, 1947. Class 28.

430,020. BROOMS. Hartman Broom Company, Clay Center, Kans.
Filed July 2, 1946. Serial No. 504,978. PUBLISHED MARCH 11, 1947. Class 29.

430,021. PHOTOGRAPHIC EXPOSURE METERS. Dejur-Amsco Corporation, Long Island City, N. Y.
Filed July 17, 1946. Serial No. 505,738. PUBLISHED MARCH 11, 1947. Class 26.

430,022. OPTICAL FRAMES AND SUNGLASSES. Marine Optical Mfg. Co., Roslindale, Boston, Mass.
Filed July 19, 1946. Serial No. 505,905. PUBLISHED MARCH 11, 1947. Class 26.

430,023. SILVERPLATED FLAT TABLEWARE. Oneida Ltd., Sherrill and Oneida, N. Y.
Filed July 11, 1946. Serial No. 505,938. PUBLISHED MARCH 4, 1947. Class 28.

430,024. THERMAL INSULATING MATERIAL IN BULK FORM MADE FROM PAPER. Insul-Wool Insulation Corporation, Wichita, Kans.
Filed July 22, 1946. Serial No. 506,033. PUBLISHED MARCH 11, 1947. Class 12.

430,025. RADIO RECEIVING SETS. Midwest Laboratories, Inc., Chicago, Ill.
Filed July 22, 1946. Serial No. 506,048. PUBLISHED FEBRUARY 25, 1947. Class 21.

430,026. PHOTOGRAPHIC OBJECTIVES. Bernard Chadkin, doing business as Photographic Arts Supply Company, New York, N. Y.
Filed July 27, 1946. Serial No. 506,368. PUBLISHED MARCH 11, 1947. Class 26.

430,027. YARNS. The Shepherd Worsted Mills, Newton, Mass.
Filed July 30, 1946. Serial No. 506,555. PUBLISHED MARCH 11, 1947. Class 43.

430,028. CROCHET HOOKS AND KNITTING NEEDLES FOR HAND USE. C. J. Bates & Son, Chester, Conn.
Filed August 6, 1946. Serial No. 506,917. PUBLISHED MARCH 11, 1947. Class 40.

430,029. HOUSEHOLD CHAIRS, BREAKFAST SETS, COMPOSED OF TABLES AND CHAIRS, UTILITY TABLES, DINETTE TABLES, KITCHEN CABINETS, CHAISE LOUNGES, BENCHES, AND STOOLS. Wilton C. Dinges, doing business as The Emeco Co., Baltimore, Md.
Filed August 9, 1946. Serial No. 507,112. PUBLISHED MARCH 4, 1947. Class 32.

430,030. WATCH STRAPS OF NATURAL AND ARTIFICIAL LEATHER. The Gruen Watch Company, Cincinnati, Ohio.
Filed August 12, 1946. Serial No. 507,253. PUBLISHED MARCH 11, 1947. Class 40.

430,031. KITCHEN CABINETS. Royalmaid Corporation, Brooklyn, N. Y.
Filed August 13, 1946. Serial No. 507,343. PUBLISHED MARCH 11, 1947. Class 32.

430,032. YARNS. Celanese Corporation of America, New York, N. Y.
Filed August 15, 1946. Serial No. 507,457. PUBLISHED MARCH 11, 1947. Class 43.

430,033. KNITTING YARN. Patons & Baldwins, Inc., Newark, N. J.
Filed August 23, 1946. Serial No. 507,926. PUBLISHED MARCH 11, 1947. Class 43.

430,034. KNITTING YARN. Patons & Baldwins, Inc., Newark, N. J.
Filed August 23, 1946. Serial No. 507,927. PUBLISHED MARCH 11, 1947. Class 43.

430,035. KNITTING YARN. Patons & Baldwins, Inc., Newark, N. J.
Filed August 23, 1946. Serial No. 507,928. PUBLISHED MARCH 11, 1947. Class 43.

430,036. MATTRESSES, BEDS, STUDIO COUCHES, SOFAS, UPHOLSTERED CHAIRS AND HEAD BOARDS FOR BEDS. Gold Cross Mattress Corp., Boston, Mass.
Filed August 16, 1946. Serial No. 508,688. PUBLISHED MARCH 11, 1947. Class 32.

430,037. MATTRESSES FOR BEDS, BOX SPRINGS FOR BEDS, COIL AND FABRIC SPRINGS FOR BEDS, AND BED PILLOWS. Slumber Products Corporation, Memphis, Tenn.
Filed September 9, 1946. Serial No. 508,748. PUBLISHED MARCH 11, 1947. Class 32.

430,038. MATTRESSES AND BOX SPRINGS. Sealy, Incorporated, Chicago, Ill.
Filed September 23, 1946. Serial No. 509,606. PUBLISHED MARCH 11, 1947. Class 32.

430,039. MATTRESSES AND BOX SPRINGS. Sealy, Incorporated, Chicago, Ill.
Filed September 23, 1946. Serial No. 509,608. PUBLISHED MARCH 11, 1947. Class 32.

430,040. STENCIL PAPER, STAPLING MACHINES OF THE HAND OPERATED TYPE AND STAPLES IN STRIPS FOR USE IN FASTENING PAPER TOGETHER, FILE FASTENERS, STAMP PADS AND CRAYONS. The Tiglon Company, New York, N. Y.
Filed September 27, 1946. Serial No. 509,890. PUBLISHED MARCH 11, 1947. Class 37.

430,041. CEDAR CHESTS. Ed Roos Company of Forest Park, Forest Park, Ill.
Filed September 28, 1946. Serial No. 509,927. PUBLISHED MARCH 11, 1947. Class 32.

430,042. COSTUMERS AND HAT RACKS. Bennett Asquith, doing business as Asquith Associates, Boston, Mass.
Filed October 10, 1946. Serial No. 510,561. PUBLISHED MARCH 11, 1947. Class 32.

ACT OF MARCH 19, 1920, SEC. 1 (b)

These registrations are not subject to opposition

430,043. (CLASS 39. CLOTHING.) WHITEWATER RAINCOAT COMPANY, Whitewater, Wis. Filed Sept. 18, 1943. Serial No. 463,499.

FOR RAINCOATS, RAINHATS, RAINJACKETS, SPORTCOATS, SPORTHATS AND SPORTJACKETS FOR MEN, WOMEN, BOYS AND GIRLS.

Claims use since Sept. 8, 1943.

430,044. (CLASS 2. RECEPTACLES.) CONTINENTAL CAN COMPANY, INC., New York, N. Y. Filed Feb. 15, 1945. Serial No. 479,835.

KANTEEN KUPS

FOR PAPER CUPS.

Claims use since Jan. 22, 1945.

430,045. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) DEWEY M. SATTERFIELD, Parma, Ohio. Filed Apr. 27, 1945. Serial No. 482,705.

FOR GUIDE DOGS TRAINED TO LEAD THE BLIND.

Claims use since July 1, 1939.

430,046. (CLASS 37. PAPER AND STATIONERY.) SOUTHWEST TABLET MFG. CO., Dallas, Tex. Filed May 28, 1945. Serial No. 483,878.

FOR SCHOOL TABLETS, WRITING TABLETS, POCKET NOTEBOOKS, COMPOSITION BOOKS, LOOSE-LEAF FILLERS, TYPEWRITER PAPER, SECOND SHEETS, "MIMEOGRAPH" PAPER, ART AND DRAWING PAPER, STENOGRAPHER NOTEBOOKS, LOOSE-LEAF BINDERS, LOOSE-LEAF REINFORCEMENTS, ENVELOPES, PACKAGE WRITING PAPER, AND BANDED OR BOXED SOCIAL STATIONERY CONTAINING WRITING PAPER AND ENVELOPES.

Claims use since January 1938.

430,047. (CLASS 8. SMOKERS' ARTICLES NOT INCLUDING TOBACCO PRODUCTS.) ESQUIRE MANUFACTURING CO., INC., New York, N. Y. Filed June 28, 1945. Serial No. 485,141.

Lord
Chesterfield

FOR CIGARETTE CASES NOT MADE OF PRECIOUS OR SEMI-PRECIOUS METAL.

Claims use since June 1, 1945.

430,048. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PENNSYLVANIA RUBBER COMPANY, Jeannette, Pa. Filed July 9, 1945. Serial No. 485,594.

PENNSYLVANIA

FOR TENNIS BALLS, HAND BALLS, TOY PLAY BALLS, GOLF BALLS AND SHUTTLECOCKS.

Claims use on tennis balls since 1913; on hand balls from 1913 until 1925, and since Jan. 1, 1945; on toy play balls from 1933 to November 1941 and since September 1945; on golf balls since April 1938 until May 1941; and on shuttlecocks since September 1937.

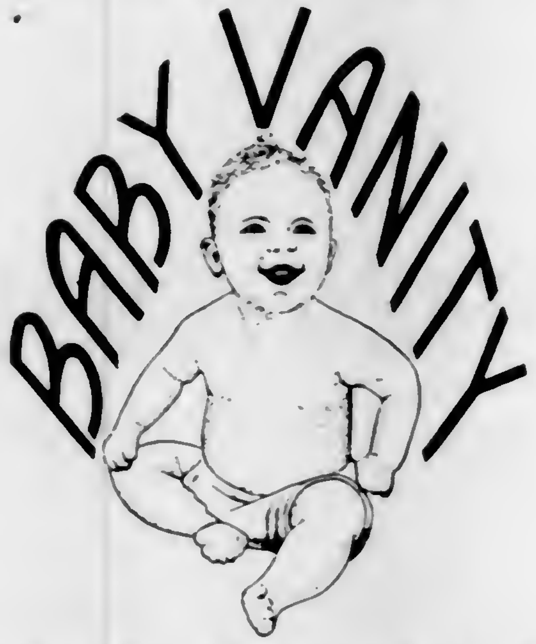
430,049. (CLASS 8. SMOKERS' ARTICLES NOT INCLUDING TOBACCO PRODUCTS.) BABETTE A. FOSTER, doing business as Plastic Articles Company, New York, N. Y. Filed July 20, 1945. Serial No. 486,035.

Mara

FOR CIGARETTE CASES OF PLASTIC MATERIAL.

Claims use since May 29, 1945.

430,050. (CLASS 32. FURNITURE AND UPHOLSTERY.) BABY VANITY COMPANY, New York, N. Y. Filed Oct. 16, 1945. Serial No. 490,003.



The representation of the baby forming a feature of the mark is fanciful.

FOR NURSERY FURNITURE—NAMELY, CABINETS FOR HOLDING APPLIANCES REQUIRED FOR THE CARE OF BABIES.

Claims use since August 1945.

430,051. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) ANGLO FABRICS COMPANY, New York, N. Y., assignor to Anglo Fabrics Company, Inc., New York, N. Y., a corporation of New York. Filed Oct. 19, 1945. Serial No. 490,163.

Anglospun

FOR WOOLEN AND WORSTED PIECE GOODS.

Claims use since July 31, 1945.

430,052. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) ANGLO FABRICS COMPANY, New York, N. Y., assignor to Anglo Fabrics Company, Inc., New York, N. Y., a corporation of New York. Filed Oct. 19, 1945. Serial No. 490,164.

Anglo-Loomed

FOR WOOLEN AND WORSTED PIECE GOODS.

Claims use since July 31, 1945.

430,053. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) DAVID A. MARCUS, doing business as Electronic Specialty Co., Los Angeles, Calif. Filed Dec. 3, 1945. Serial No. 492,572.

AIRFONE

FOR AIRCRAFT RADIO TRANSMITTING AND/OR RECEIVING SETS AND PARTS THEREOF.

Claims use since Oct. 23, 1945.

430,054. (CLASS 32. FURNITURE AND UPHOLSTERY.) AFFILIATED RETAILERS, INC., New York, N. Y. Filed Dec. 8, 1945. Serial No. 492,884.

MONTICELLO

FOR ALL TYPES OF BEDROOM, DINING ROOM AND LIVING ROOM FURNITURE—NAMELY, BEDS, DRESSERS, CHESTS, VANITY DRESSERS, EXTENSION AND DROP-LEAF TABLES, BUFFETS, CREDENZAS, CHINA CABINETS, CORNER CABINETS, CHAIRS, OCCASIONAL TABLES, DESK, AND BOOKCASES.

Claims use since Oct. 15, 1945.

430,055. (CLASS 32. FURNITURE AND UPHOLSTERY.) AFFILIATED RETAILERS, INC., New York, N. Y. Filed Dec. 17, 1945. Serial No. 493,418.

CRESTWOOD

FOR ALL TYPES OF BEDROOM, DINING ROOM AND LIVING ROOM FURNITURE—NAMELY, BEDS, DRESSERS, CHESTS, VANITY DRESSERS, EXTENSION AND DROP-LEAF TABLES, BUFFETS, CREDENZAS, CHINA CABINETS, CORNER CABINETS, CHAIRS, OCCASIONAL TABLES, DESKS AND BOOKCASES.

Claims use since Oct. 15, 1945.

430,056. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GROVE REGULATOR COMPANY, Oakland, Calif. Filed Jan. 26, 1946. Serial No. 495,469.

CHEXFLO

FOR BACK PRESSURE RELIEF VALVES.

Claims use since Dec. 1, 1944.

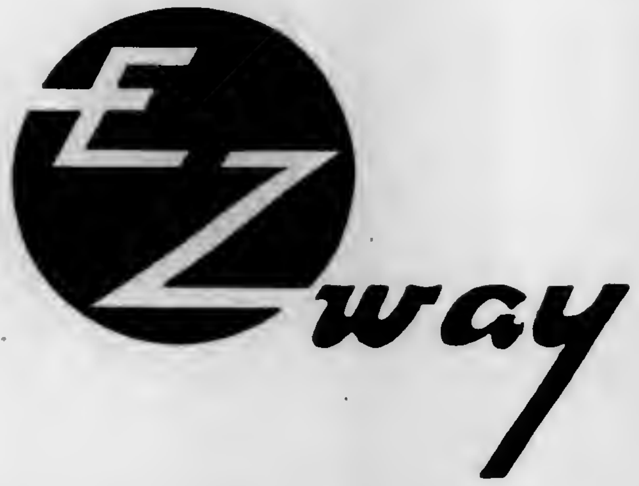
430,057. (CLASS 39. CLOTHING.) SIGMUND BALBINDER, doing business as Siggy Coat Co., New York, N. Y. Filed Feb. 5, 1946. Serial No. 496,007.

TOWN-TEEN
CASUALS

FOR LADIES' AND MISSES' COATS.

Claims use since Oct. 29, 1945.

430,058. (CLASS 37. PAPER AND STATIONERY.) JAS. (JIM) MILTON SHERRILL, doing business as E-Z Way Business and Tax Record, Income Tax Service, Memphis, Tenn. Filed Feb. 5, 1946. Serial No. 496,050.



FOR BOOKKEEPING SYSTEM COMPRISING BLANK BUSINESS FORMS.
Claims use since Jan. 24, 1946.

430,059. (CLASS 37. PAPER AND STATIONERY.) EVERSHARP, INC., Chicago, Ill. Filed Feb. 9, 1946. Serial No. 496,306.

Birome

Applicant is the owner of Reg. No. 428,335.
FOR FOUNTAIN PENS.
Claims use since Feb. 2, 1946.

430,060. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LILAC BROS. GOLF CLUB REPAIR SHOP, Dearborn, Mich. Filed Feb. 18, 1946. Serial No. 496,848.

NO SCUFF

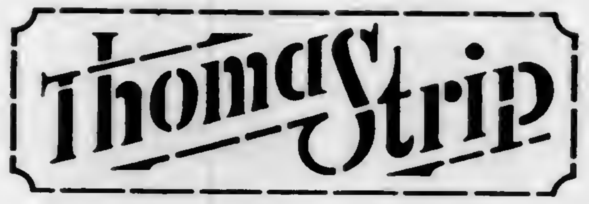
FOR GOLF CLUBS AND PUTTER HEADS FOR GOLF CLUBS.
Claims use since February 1946.

430,061. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) CLIFFORD F. HOOTON, doing business as Acme Quality Sales Co., Pittsburg, Kans. Filed Mar. 1, 1946. Serial No. 497,434.

"TUFFY"

The letters are lined for shading purposes only.
FOR DOG MATS.
Claims use since Jan. 13, 1946.

430,062. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE THOMAS STEEL COMPANY, Warren, Ohio. Filed Mar. 15, 1946. Serial No. 498,325.



FOR PLAIN COLD-ROLLED STRIP STEEL; ALSO ZINC-COATED STRIP STEEL, NICKEL-COATED STRIP STEEL, COPPER-COATED STRIP STEEL, BRASS-COATED STRIP STEEL, BRONZE-COATED STRIP STEEL, HOT-DIPPED TIN-COATED STRIP STEEL, SOLDER-COATED STRIP STEEL, AND LACQUER-COATED STRIP STEEL.
Claims use since Nov. 3, 1930.

430,063. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) C. J. BATES & SON, Chester, Conn. Filed Mar. 22, 1946. Serial No. 498,749.

PRECISION

FOR CROCHET HOOKS AND KNITTING NEEDLES FOR HAND USE.
Claims use since February 1946.

430,064. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE COLUMBIA MILLS, INC., New York, N. Y. Filed Apr. 3, 1946. Serial No. 499,540.

LATTISHADE

FOR WINDOW SHADES AND PORCH SHADES.
Claims use since Mar. 15, 1946.

430,065. (CLASS 37. PAPER AND STATIONERY.) THE REYNOLDS & REYNOLDS COMPANY, Dayton, Ohio. Filed Apr. 6, 1946. Serial No. 499,802.

STANDARD SYSTEMS DIVISION

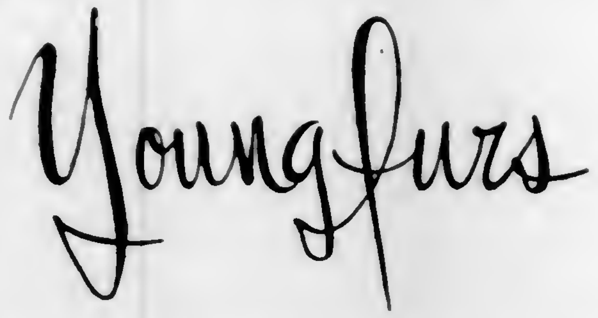
FOR STATIONERY—NAMELY, WRITING PAPER AND COMMERCIAL ENVELOPES, AND BLANK FORMS—NAMELY, BOOKKEEPING AND ACCOUNTING FORMS.
Claims use since 1937.

430,066. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE COLUMBIA MILLS, INC., New York, N. Y. Filed Apr. 19, 1946. Serial No. 500,524.

LATTISWEAVE

FOR WINDOW SHADES AND PORCH SHADES MADE UP OF SLAT MATERIALS.
Claims use since Mar. 1, 1946.

430,067. (CLASS 39. CLOTHING.) YOUNGFURS INC., New York, N. Y. Filed May 7, 1946. Serial No. 501,615.



FOR GIRLS', JUNIORS' AND MISSES' AND WOMEN'S FUR COATS, FUR JACKETS, FUR SCARFS, AND FUR MUFFS.
Claims use since January 1946.

430,068. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) C. J. BATES & SON, Chester, Conn. Filed May 23, 1946. Serial No. 502,616.

Junior

FOR CROCHET HOOKS AND KNITTING NEEDLES FOR HAND USE.
Claims use since Apr. 1, 1946.

430,069. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. M. WALZER COMPANY, Minneapolis, Minn. Filed June 15, 1946. Serial No. 504,017.

Woodie

FOR CUT OUT INLAY PUZZLES.
Claims use since Apr. 6, 1946.

430,070. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) HENRY LEWIS & CO., INC., New York, N. Y. Filed July 2, 1946. Serial No. 504,986.

MT. KATAHDIN

FOR WOOL BLANKETS.
Claims use since October 1945.

430,071. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE HEALTH-O-SWIM NOSE CLIP CO., New York, N. Y. Filed Aug. 8, 1946. Serial No. 507,055.

SWIM-AID

FOR NOSE CLIPS USED AS AN AID IN SWIMMING.
Claims use since Apr. 8, 1946.

430,072. (CLASS 12. CONSTRUCTION MATERIALS.) HEISEN, COLE AND COMPANY, Portland, Oreg. Filed Aug. 14, 1946. Serial No. 507,396.

FOR CONCRETE BUILDING BLOCKS.
Claims use since Mar. 20, 1946.

430,073. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) MAUREL G. BURWELL, doing business as Century Mfg. Co., Columbus, Ohio. Filed Nov. 1, 1946. Serial No. 511,860.

KANT RUST

FOR GAS-FIRED WATER HEATERS FOR DOMESTIC USE.
Claims use since August 1942.

430,074. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PICKER X-RAY CORPORATION, WAITE MANUFACTURING DIVISION, INC., Cleveland, Ohio. Filed Dec. 19, 1946. Serial No. 514,560.

PICKER

FOR STATIONARY AND PORTABLE X-RAY APPARATUS FOR THERAPEUTIC AND DIAGNOSTIC USE—NAMELY, RADIOGRAPHIC UNITS, FLUOROSCOPIC UNITS, DENTAL UNITS, X-RAY TABLES, CONTROL DEVICES FOR X-RAY, TIMERS FOR X-RAY, TUBE HOUSINGS, TUBE STANDS, CABLES AND CABLE TERMINALS, SHUTTER MECHANISMS, CASSETTES, CASSETTE HOLDERS AND CHANGERS, TRANSFORMERS, X-RAY TUBE COOLING DEVICES, RECTIFIERS, GENERATORS, LOCALIZERS FOR FOREIGN OBJECTS, LAMINOGRAPHIC UNITS, PHOTOGRAPHIC RECORDING DEVICES FOR FLUOROSCOPIC IMAGES, X-RAY ACCESSORIES AND SUPPLIES.
Claims use since 1934.

TRADE-MARK REGISTRATIONS RENEWED

50,752. **THEOSALIN.** PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF KIDNEY DISEASES. Registered Mar. 27, 1906. McKesson & Robbins. Re-renewed Mar. 27, 1946, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland. Class 6.

52,194. **MARECHAL NEIL.** WHEAT-FLOUR. Registered May 1, 1906. Collin County Mill & Elevator Company, McKinney, Tex. Re-renewed May 1, 1946, to Tex-O-Kan Flour Mills Company, Dallas, Tex., a corporation of Delaware. Class 46.

52,838. **DUDE.** BRUSHES OF ALL KINDS. Registered May 22, 1906. John L. Whiting & Son Co. Re-renewed May 22, 1946, to Whiting-Adams Company, Inc., Boston, Mass., a corporation of Massachusetts. Class 29.

56,465. **"R·I·P·A·N·S TABULES" AND DESIGN.** A REMEDY FOR DYSPEPSIA, BILIOUSNESS; HEARTBURN, HEADACHE, CONSTIPATION, DIZZINESS, AND ALL OTHER DISORDERS OF THE STOMACH, LIVER, AND BOWELS, PREPARED IN TABLET FORM. Registered Sept. 25, 1906. The Ripans Chemical Co., New York, N. Y. Re-renewed Sept. 25, 1946, to Strathmore Products Company, Englewood, N. J., a co-partnership. Class 6.

56,483. **R·I·P·A·N·S.** REMEDY FOR DYSPEPSIA, BILIOUSNESS, HEARTBURN, HEADACHE, CONSTIPATION, DIZZINESS, AND ALL OTHER DISORDERS OF THE STOMACH, LIVER, AND BOWELS, PREPARED IN TABLET FORM. Registered Sept. 25, 1906. The Ripans Chemical Co., New York, N. Y. Re-renewed Sept. 25, 1946, to Strathmore Products Company, Englewood, N. J., a co-partnership. Class 6.

56,961. **"WEDDING RING" AND DESIGN.** CANNED FRUIT AND VEGETABLES. Registered Oct. 30, 1906. J. F. Humphreys & Co., Bloomington, Ill. Re-renewed Oct. 30, 1946, to Bunn Capitol Grocery Company, Springfield, Ill., a firm. Class 46.

57,915. **OLD CLOISTER.** WRITING, DRAWING, AND BOOK PAPER, PAPER FOR COVERS OF PAMPHLETS AND CATALOGUES, AND CARD BOARD. Registered Dec. 4, 1906. Mittineague Paper Company. Re-renewed Dec. 4, 1946, to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Class 37.

57,916. **RHODODENDRON.** WRITING, DRAWING, AND BOOK PAPER, PAPER FOR COVERS OF PAMPHLETS AND CATALOGUES, AND CARDBOARD. Registered Dec. 4, 1906. Mittineague Paper Company. Re-renewed Dec. 4, 1946, to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Class 37.

58,061. **KOSTICO.** DETERGENTS FOR USE IN CLEANING METAL SURFACES—AS NICKEL, COPPER, BRASS, GOLD, SILVER, ETC.—PREPARATORY TO PLATING OPERATIONS. Registered Dec. 4, 1906. The Hanson & Van Winkle Co., Newark, N. J. Re-renewed Dec. 4, 1946, to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey. Class 4.

58,494. **"MASON" ETC. AND STAR AND CIRCLE DESIGN.** STEAM-REGULATING DEVICES, STEAM-PUMPS, AND STEAM-ENGINES. Registered Dec. 18, 1906. The Mason Regulator Co. Re-renewed Dec. 18, 1946, to Mason-Neilan Regulator Company, Boston, Mass., a voluntary association of Massachusetts. Classes 13, 23, and 26.

58,866. **PEERLESS.** SHEETINGS AND SHIRTINGS. Registered Dec. 25, 1906. Monohansett Mfg. Co., Putnam, Conn. Re-renewed Dec. 25, 1946, to The Erwin Cotton Mills Company, Durham, N. C., a corporation of North Carolina. Class 42.

59,010. **WORONOCO.** ALL KINDS OF FINE WRITING-PAPER. Registered Dec. 25, 1906. Woronoco Paper Company, Woronoco, Mass. Re-renewed Dec. 25, 1946, to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetta. Class 37.

59,036. **ECONOMY.** DRAWING-TABLES AND FILING-CASES. Registered Jan. 1, 1907. Rollo G. Manning, Toledo, Ohio. Re-renewed Jan. 1, 1947, to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin. Class 32.

59,264. **"REDUCTIO" AND DESIGN.** POWDERED SUBSTANCE FOR REMOVING THE DROSS FROM OLD MOLTEN TYPE OR LINOTYPE METAL. Registered Jan. 1, 1907. Mergenthaler Linotype Co., New York, N. Y. Re-renewed Jan. 1, 1947, to Mergenthaler Linotype Company, Brooklyn, N. Y., a corporation of New York. Class 6.

59,371. **PROGRESS.** SPOOL-COTTON, SEWING-COTTON, AND THREAD. Registered Jan. 8, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 8, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,372. **CARLISLE.** SPOOL-COTTON, SEWING-COTTON, AND THREAD. Registered Jan. 8, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 8, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,413. **"NARRAGANSETT" ETC. AND DESIGN.** ALE, BEER, PORTER, MALT EXTRACT. Registered Jan. 8, 1907. Narragansett Brewing Company, Cranston, R. I., a corporation of Rhode Island. Re-renewed Jan. 8, 1947. Class 48.

59,654. **EMPRESS.** SPOOL-COTTON AND THREAD. Registered Jan. 15, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 15, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,655. **SPHINX.** SPOOL-COTTON AND THREAD. Registered Jan. 15, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 15, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,686. **VICTOR.** SPOOL-COTTON AND THREAD. Registered Jan. 15, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 15, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,687. **GOOD VALUE.** SPOOL-COTTON, SEWING-COTTON, AND THREAD. Registered Jan. 15, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 15, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,688. **MANSFIELD.** SPOOL-COTTON, SEWING-COTTON, AND THREAD. Registered Jan. 15, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 15, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,690. **COLUMBUS.** SPOOL-COTTON, SEWING-COTTON, AND THREAD. Registered Jan. 15, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 15, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,691. **NILE.** SPOOL-COTTON, SEWING-COTTON, AND THREAD. Registered Jan. 15, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 15, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,846. **PACIFIC.** SPOOL-COTTON, SEWING-COTTON, AND THREAD. Registered Jan. 22, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 22, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

59,867. **TROJAN.** SPOOL-COTTON AND THREAD. Registered Jan. 22, 1907. The American Thread Company, Jersey City, N. J. Re-renewed Jan. 22, 1947, to The American Thread Company, New York, N. Y., a corporation of New Jersey. Class 43.

60,394. **RUMFORD.** YEAST-POWDER AND BAKING-POWDER. Registered Feb. 5, 1907. Rumford Chemical Works, Providence, R. I. Re-renewed Feb. 5, 1947, to Rumford Chemical Works, Rumford, R. I., a corporation of Rhode Island. Class 46.

60,457. **LIBRARY.** PENS AND PENHOLDERS AND LEAD-PENCILS. Registered Feb. 12, 1907. Eberhard Faber, New York, N. Y. Re-renewed Feb. 12, 1947, to Eberhard Faber Pencil Company, Brooklyn, N. Y., a corporation of New York. Class 37.

60,706. **JACK ROSE.** CANNED FRUITS AND VEGETABLES, DRIED FRUITS, SPICES, AND GELATIN. Registered Feb. 19, 1907. E. T. Smith Company, Worcester, Mass., a corporation of Massachusetts. Re-renewed Feb. 19, 1947. Class 46.

60,916. **OCEAN.** COAL. Registered Feb. 26, 1907. Berwind White Coal Mining Company. Re-renewed Feb. 26, 1947, to The Berwind-White Coal Mining Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 1.

61,000. **"CUT EASY" AND REPRESENTATION OF A SNAKE.** KNIVES, POCKET-KNIVES, RAZORS, AXES, HATCHETS, CUTTING-PLIERS, SCISSORS, SCYTHES, FILES, AUGER-BITS, AND HANDSAWS. Registered Feb. 26, 1907. The Smith Bros. Hardware Company, Columbus, Ohio, a corporation of Ohio. Re-renewed Feb. 26, 1947. Class 23.

61,188. **PRINCESS CHIC.** HOSE SUPPORTERS. Registered Mar. 5, 1907. A. Stein & Co. Re-renewed Mar. 5, 1947, to A. Stein & Company, Chicago, Ill., a corporation of Illinois. Class 39.

61,298. **REPRESENTATION OF A CROWN, SERPENT AND STAFF.** APPARATUS FOR EXAMINATION OF THE BLOOD, THE STOMACH, AND THE URINE; AND FOR OTHER SUCH MEDICAL AND SURGICAL APPARATUS, APPLIANCES AND INSTRUMENTS. Registered Mar. 12, 1907. The Kny-Scheerer Company, New York, N. Y. Re-renewed Mar. 12, 1947, to Kny-Scheerer Corporation, Long Island City, N. Y., a corporation of New York. Class 44.

61,596. **JACK ROSE.** SALMON, SHRIMP, LOBSTERS, AND CLAMS, PREFERABLY PUT UP IN CANS. Registered Mar. 26, 1907. E. T. Smith Company, Worcester, Mass., a corporation of Massachusetts. Re-renewed Mar. 26, 1947. Class 46.

61,688. **"LARGE" ETC. AND REPRESENTATION OF GLASS OF WHISKY.** WHISKY. Registered Apr. 2, 1907. Frederick C. Renziehausen, Pittsburgh, Pa. Re-renewed Apr. 2, 1947, to A. Overholt & Co. Inc., Broad Ford, Pa., a corporation of Pennsylvania. Class 49.

61,730. **SAJODIN.** SUBSTITUTES FOR IODIDS. Registered Apr. 2, 1907. Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Re-renewed Apr. 2, 1947, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York. Class 6.

61,759. **RRR.** PILLS. Registered Apr. 2, 1907. Radway & Company. Re-renewed Apr. 2, 1947, to Radway & Co. Inc., New York, N. Y., a corporation of New York. Class 6.

207,047. **GRANDMA'S.** PANCAKE FLOUR, COMPOSED OF A COMBINATION OF WHEAT, CORN, AND RICE FLOUR. Registered Dec. 15, 1925. Hecker-Jones-Jewell Milling Company, New York, N. Y. Renewed Dec. 15, 1945, to Lantz Brothers Baking Company, St. Louis, Mo., a partnership. Class 46.

207,326. **ALAMO.** FRESH VEGETABLES—NAMELY, FRESH ONIONS, FRESH CUCUMBERS, FRESH EGG-PLANT, AND FRESH LETTUCE. Registered Dec. 29, 1925. Alamo Packing Co., Heber and Los Angeles, Calif. Renewed Dec. 29, 1945, to A. M. Seckbach & Co., Los Angeles, Calif., a firm. Class 46.

216,412. **MASTER.** METAL-DRILLING MACHINES. Registered Aug. 10, 1926. The Cincinnati Bickford Tool Company, Oakley and Cincinnati, Ohio. Renewed Aug. 10, 1946, to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a corporation of Ohio. Class 23.

218,166. **BONNIE DOON.** HOSIERY. Registered Sept. 21, 1926. Alexander Lee Wallau, Inc. Renewed Sept. 21, 1946, to Alex Lee Wallau Inc., New York, N. Y., a corporation of New York. Class 39.

218,265. **REPRESENTATION OF A BUCKING BRONCHO.** LAXATIVE COLD TABLETS. Registered Sept. 21, 1926. D. Weeks & Company. Renewed Sept. 21, 1946, to Weeks & Leo Company, Incorporated, Des Moines, Iowa, a corporation of Iowa. Class 6.

218,405. **"PTCO" ETC., DESIGN, AND REPRESENTATION OF HORSE'S HEAD.** CARROUSELS, COASTER CARS, COASTER STRUCTURES, MILL CHUTES, SMALL BOATS USED IN CONSTRUCTION AND AS A PART OF MILL CHUTE DEVICES AND OLD MILL DEVICES, MILL CHUTE STRUCTURES, AND FUN HOUSES. Registered Sept. 28, 1926. Philadelphia Toboggan Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 28, 1946. Class 22.

218,530. **"YU-CHU".** CHEWING GUM, SALTED AND CANDY-COATED PEANUTS. Registered Sept. 28, 1926. Yu-Chu Company, Newark, N. J., a corporation of New Jersey. Renewed Sept. 28, 1946. Class 46.

219,033. **JOCKEY.** PRINTERS' INKS AND LITHOGRAPHIC INKS. Registered Oct. 12, 1926. Sigmund Ullman Company. Renewed Oct. 12, 1946, to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware. Class 11.

219,081. **FAMOUS PLAYER.** BASEBALL BATS. Registered Oct. 12, 1926. Wilson-Western Sporting Goods Company. Renewed Oct. 12, 1946, to Wilson Sporting Goods Co., Chicago, Ill., a corporation of Delaware. Class 22.

219,150. **INVINCIBLE DRIVER.** TENNIS RACKETS. Registered Oct. 12, 1926. Wilson-Western Sporting Goods Company. Renewed Oct. 12, 1946, to Wilson Sporting Goods Co., Chicago, Ill., a corporation of Delaware. Class 22.

219,767. **GOOD HEALTH!** MALT SIRUPS, EXTRACTS. Registered Oct. 26, 1926. Victor Neustadtl. Renewed Oct. 26, 1946, to Henrietta Neustadtl, New York, N. Y. Class 48.

219,799. **BUNGALOW.** IRONING MACHINES AND ATTACHMENTS. Registered Oct. 26, 1926. Vulcan Manufacturing Company, Kansas City, Mo. Renewed Oct. 26, 1946, to The Apex Electrical Manufacturing Co., Cleveland, Ohio, a corporation of Ohio. Class 24.

219,807. **"LA OPTIMA" ETC. AND DESIGN.** CIGARS. Registered Oct. 26, 1926. A. Santaella & Co. Inc., Tampa, Fla., a corporation of Florida. Renewed Oct. 26, 1946. Class 17.

219,983. **AERTEX.** COATS, VESTS, TROUSERS, AND OVERCOATS MADE ONLY OF WOOL OR WORSTED MATERIAL FOR MEN, YOUTHS, AND BOYS. Registered Oct. 26, 1926. J. SCHOENEMAN, INCORPORATED, Baltimore, Md., a corporation of Maryland. Renewed Oct. 26, 1946. Class 39.

220,027. **"C J B" AND DESIGN.** BALL BEARINGS. Registered Oct. 26, 1926. AHLBERG BEARING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Oct. 26, 1946. Class 23.

220,137. **REPRESENTATION OF THE SUN'S RAYS.** EXTERIOR AND INTERIOR COLORED CEMENT-STUCCO FINISH COAT AND ALSO THE NECESSARY FINISH-COAT MATERIAL TO REPRESENT IMITATION OR ART STONEWORK. Registered Nov. 2, 1926. CALIFORNIA STUCCO PRODUCTS CO. Renewed Nov 2, 1946, to California Stucco Company, Los Angeles, Calif., a firm. Class 12.

220,489. **N C.** SPECIALLY TREATED MOTOR LUBRICATING OILS FOR PREVENTING SEIZURE OF DRUMS BY BANDS IN BRAKE AND TRANSMISSION MECHANISMS ON AUTOMOBILES AND FORD CARS. Registered Nov. 9, 1926. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Nov. 9, 1946. Class 15.

220,525. **"GOLD STAR OIL" AND REPRESENTATION OF DERRICKS.** LUBRICATING OILS. Registered Nov. 9, 1926. THE STAR OIL COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Nov. 9, 1946. Class 15.

220,936. **"PENCE SPRING" ETC.** MINERAL-SPRING WATER. Registered Nov. 16, 1926. J. W. JOHNSON, doing business as Pence Springs Co., Pence Springs, W. Va. Renewed Nov. 16, 1946, to Hugh and Hall Adams Corporation, Charleston, W. Va., a corporation of West Virginia. Class 45.

221,037. **BEAVER.** FIBER WALL BOARD, GYPSUM BOARD, GYPSUM PLASTER, PREPARED SHEET ROOFING, SHINGLES, SHINGLE SLABS, AND ROOFING CEMENTS. Registered Nov. 23, 1926. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y. Renewed Nov. 23, 1946, to Certain-teed Products Corporation, Chicago, Ill., a corporation of Maryland. Class 12.

221,703. **BICKMORIN.** HEALING VETERINARY SALVES. Registered Dec., 7, 1926. THE BICKMORE COMPANY, Old Town, Maine, a corporation of Maine. Renewed Dec. 7. 1946. Class 6.

221,856. **WORK THE HORSE.** SALVES FOR HEALING WOUNDS AND SORES UPON HORSES AND CATTLE. Registered Dec. 14, 1926. THE BICKMORE COMPANY, Old Town, Maine, a corporation of Maine. Renewed Dec. 14, 1946. Class 6.

221,902. **"SUNLAN" ETC. AND DESIGN.** HATS AND CAPS FOR MEN AND BOYS. Registered Dec. 14, 1926. NEW YORK HAT STORES, INC., Los Angeles, Calif., a corporation of California. Renewed Dec. 14, 1946. Class 39.

221,908. **AGE RITE.** CHEMICALS, MORE PARTICULARLY CHEMICALS ADAPTED TO RETARD DETERIORATION OF RUBBER COMPOUNDS. Registered Dec. 14, 1926. THE B. F. GOODRICH COMPANY, New York, N. Y. Renewed Dec. 14, 1946, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Class 6.

222,420. **BLACKBIRD.** HALF-TONE INK. Registered Jan. 4, 1927. GEORGE H. MORRILL COMPANY, Norwood, Mass. Renewed Jan. 4, 1947, to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware. Class 11.

222,918. **"KINGSBURY" AND REPRESENTATION OF A BEARING.** BEARINGS AND PARTS OF BEARINGS AND ACCESSORIES OF BEARINGS—TO WIT, HOUSINGS, WATER-COOLING COILS, COIL BAFFLE PLATES, AIR-SEAL RINGS, OIL-SEAL RINGS, AND OTHER SUCH GOODS. Registered Jan. 11, 1927. ALBERT KINGSBURY, Frankford, Philadelphia, Pa., assignor to Kingsbury Machine Works, Inc. Renewed Jan. 11, 1947, to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware. Class 23.

222,959. **PILGRIM.** CHEESE. Registered Jan. 11, 1927. PHENIX CHEESE CORPORATION, New York, N. Y. Renewed Jan. 11, 1947, to Krafts Foods Company, Chicago, Ill., a corporation of Delaware. Class 46.

223,077. **MISSION.** BRICK. Registered Jan. 18, 1927. ACME BRICK COMPANY, Fort Worth, Tex., a corporation of Texas. Renewed Jan. 18, 1947. Class 12.

223,230. **A REPRESENTATION OF THREE GREEK LETTERS DELTA.** FRATERNITY BADGES, LAPEL BUTTONS, SCARF, LAPEL AND BREAST PINS, CUFF LINKS, TIE CLASPS, CHAINS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS ALL OF PRECIOUS METAL. Registered Jan. 25, 1927. DELTA DELTA DELTA, Evanston, Ill. Renewed Jan. 25, 1947, to Delta Delta Delta, Minneapolis, Minn., a corporation of Illinois. Class 28.

223,321. **PORCELAIN.** BLOTTING PAPER. Registered Feb. 1, 1927. THE WRENN PAPER COMPANY, Middletown, Ohio, a corporation of Ohio. Renewed Feb. 1, 1947. Class 37.

223,367. **"FLIT" AND REPRESENTATION OF SOLDIER, ETC.** INSECTICIDES, DEODORANTS AND DISINFECTANTS. Registered Feb. 1, 1927. STANDARD OIL COMPANY (NEW JERSEY), Bayonne, N. J. Renewed Feb. 1, 1947, to Stanco Incorporated, New York, N. Y., a corporation of Delaware. Class 6.

223,397. **REPRESENTATION OF A BEARING.** BEARINGS AND PARTS OF BEARINGS AND ACCESSORIES OF BEARINGS—TO WIT, HOUSINGS, WATER-COOLING COILS, COIL BAFFLE PLATES, AIR-SEAL RINGS, OIL-SEAL RINGS, AND OTHER SUCH GOODS. Registered Feb. 1, 1927. KINGSBURY MACHINE WORKS, INC., Frankford, Philadelphia, Pa. Renewed Feb. 1, 1947, to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware. Class 23.

223,598. **GLACIER PARK.** CLOTHING—NAMELY, BATH ROBES, SHAWLS, MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY, DRESS, NEGLIGEE, WORK, AND UNDER SHIRTS OF KNITTED AND TEXTILE FABRIC, AND OTHER SUCH GOODS. Registered Feb. 8, 1927. PENDLETON WOOLEN MILLS, Portland, Oreg., a corporation of Oregon. Renewed Feb. 8, 1947. Class 39.

223,647. **"SUNLAN" ETC. AND DESIGN.** HATS AND CAPS FOR MEN AND BOYS. Registered Feb. 8, 1927. NEW YORK HAT STORES, INC., Los Angeles, Calif., a corporation of California. Renewed Feb. 8, 1947. Class 39.

223,756. **"YOSEMITE PARK" AND REPRESENTATION OF BEAR, ETC. WITHIN CIRCLE.** TEXTILE BLANKETS. Registered Feb. 8, 1927. PENDLETON WOOLEN MILLS, Portland, Oreg., a corporation of Oregon. Renewed Feb. 8, 1947. Class 42.

223,793. **"QUIET MAY" AND DESIGN.** OIL BURNERS. Registered Feb. 8, 1927. MAY OIL BURNER CORPORATION. Renewed Feb. 8, 1947, to Gerotor May Corporation, Baltimore, Md., a corporation of Maryland. Class 34.

223,941. **"KALI-STEN-IKS" AND REPRESENTATION OF A SHOE SOLE.** CHILDREN'S SHOES CONSTRUCTED OF LEATHER, RUBBER, OR FABRIC OR A COMBINATION OF THESE MATERIALS. Registered Feb. 15, 1927. GILBERT SHOE CO., Thiensville, Wis., a corporation of Wisconsin. Renewed Feb. 15, 1947. Class 39.

224,048. **"THE THERMOS" ETC.** PUBLICATION DISTRIBUTED AS A HOUSE ORGAN. Registered Feb. 15, 1927. THE AMERICAN THERMOS BOTTLE COMPANY, Norwich, Conn., a corporation of Ohio. Renewed Feb. 15, 1947. Class 38.

224,189. **YOSEMITE PARK.** CLOTHING—NAMELY, BATH ROBES, SHAWLS, MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS, AND BLOUSES, MACKINAW COATS, AND SUITS FOR MEN, WOMEN, AND CHILDREN, AND OVERCOATS. Registered Feb. 22, 1927. PENDLETON WOOLEN MILLS, Portland, Oreg., a corporation of Oregon. Renewed Feb. 22, 1947. Class 39.

224,499. **MISS AMERICA.** CORSETS, BRASSIÈRES, GIRDLES, AND COMBINATION GARMENTS WHICH COMBINE THE PROPERTIES OF BRASSIÈRES AND HIP GIRDLES, MADE OF TEXTILE FABRICS. Registered Mar. 1, 1927. POWELL CORSET COMPANY. Renewed Mar. 1, 1947, to Miss America Brassiere Co. Inc., Chicago, Ill., a corporation of Illinois. Class 39.

224,526. **MANIFLEX.** PEN POINTS. Registered Mar. 1, 1927. THE MOORE PEN COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 1, 1947. Class 37.

224,610. **HOUSEHOLD.** FRESH CITROUS FRUITS—NAMELY, GRAPEFRUIT, LEMONS, ORANGES. Registered Mar. 1, 1927. TULARE COUNTY LEMON & GRAPEFRUIT ASSOCIATION, Porterville, Calif., a corporation of California. Renewed Mar. 1, 1947. Class 46.

224,673. **"SOLARI'S" ETC. AND DESIGN.** COMPOUND OF COFFEE AND CHICORY. Registered Mar. 1, 1927. A. M. & J. SOLARI, LTD., New Orleans, La., a corporation of Louisiana. Renewed Mar. 1, 1947. Class 46.

224,731. **"COCK O' THE WALK" AND REPRESENTATION OF ROOSTER.** CEREALS AND CEREAL PRODUCTS INTENDED FOR USE AS POULTRY FEEDS. Registered Mar. 1, 1927. BLACK & WHITE MILLING COMPANY. Renewed Mar. 1, 1947, to Ultra-Life Laboratories, Inc., East St. Louis, Ill., a corporation of Illinois. Class 46.

224,744. **COPY.** CANDY CONFECTION. Registered Mar. 1, 1927. WILLIAMSON CANDY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Mar. 1, 1947. Class 46.

224,801. **S + S + SARNA +.** TEXTILE RUGS, CURTAINS, TABLE COVERS AND BEDSPREADS. Registered Mar. 8, 1927. S. S. SARNA, San Francisco, Calif. Renewed Mar. 8, 1947, to S. S. Sarna, New York, N. Y. Class 42.

224,832. **"REFINERS PRODUCTS" AND DRAWING.** LUBRICATING OILS AND GREASES AND GASOLINE. Registered Mar. 8. 1927. THE REFINERS OIL CO., Dayton, Ohio. Renewed Mar. 8, 1947, to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio. Class 15.

224,874. **WESTERN.** SHOT SHELLS, GUN WADS, RIFLE CARTRIDGES, SHOT, SMOKELESS AND SEMI-SMOKELESS POWDERS FOR ORDNANCE AND SMALL ARMS AMMUNITION. Registered Mar. 8, 1927. WESTERN CARTRIDGE COMPANY. Renewed Mar. 8, 1947, to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware. Class 9.

224,926. **RAINBOW.** CUT GRANITE. Registered Mar. 8, 1927. COLD SPRING GRANITE COMPANY, Cold Spring, Minn., a corporation of Minnesota. Renewed Mar. 8, 1947. Class 12.

224,931. **SUPER NAVY.** COAL. Registered Mar. 8, 1927. CHARLES N. BLANCHARD, Binghamton, N. Y. Renewed Mar. 8, 1947, to Bell & Zoller Coal Company, Chicago, Ill., a corporation of Illinois. Class 1.

225,012. **NOXZEMA.** SKIN CREAM, TALCUM POWDER, TOOTH PASTE, LAXATIVE TABLETS, AND SHAMPOO PREPARATION. Registered Mar. 8, 1927. NOXZEMA CHEMICAL CO., Baltimore, Md., a corporation of Maryland. Renewed Mar. 8, 1947. Class 6.

225,156. **"HAWAIIAN STAR" AND REPRESENTATION OF A STAR.** CANNED PINEAPPLE. Registered Mar. 15, 1927. KAUAI FRUIT & LAND CO. LTD. Renewed Mar. 15, 1947, to Kauai Pineapple Company, Limited, Kalaheo, Territory of Hawaii, a corporation of Hawaii. Class 46.

225,157. **"HAWAIIAN CROSS" AND REPRESENTATION OF A CROSS.** CANNED PINEAPPLE. Registered Mar. 15, 1927. KAUAI FRUIT & LAND CO. LTD. Renewed Mar. 15, 1947, to Kauai Pineapple Company, Limited, Kalaheo, Territory of Hawaii, a corporation of Hawaii. Class 46.

225,202. **"MELCO DRESSES" AND DESIGN.** DRESSES. Registered Mar. 15, 1927. MAX LEVINE & CO., New York, N. Y., a firm. Renewed Mar. 15, 1947. Class 39.

225,238. **"ROYAL FLUSH" AND DESIGN.** CHOCOLATE-COVERED CANDY BARS. Registered Mar. 15, 1927. FEDERAL SWEETS & WAFER CO., INC., New York, N. Y. Renewed Mar. 15, 1947, to Federal Sweets & Biscuit Co. Inc., Clifton, N. J., a corporation of New York. Class 46.

225,285. **CELANESE-LOCKNIT.** KNITTED, NETTED, AND TEXTILE FABRICS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. Registered Mar. 15, 1927. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LTD. Renewed Mar. 15, 1947, to Celanese Corporation of Amrecia, New York, N. Y., a corporation of Delaware. Class 42.

225,286. **"LOCKNIT".** KNITTED, NETTED, AND TEXTILE FABRICS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. Registered Mar. 15, 1927. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LTD. Renewed Mar. 15, 1947, to Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Class 42.

225,343. **VICTOR.** QUARTZ APPLICATORS AND HOLDERS, X-RAY PROTECTIVE APRONS, X-RAY TUBES FOR DEEP THERAPY RADIOGRAPHIC PHOTOGRAPHY, AND SUCH OTHER APPLIANCES. Registered Mar. 15, 1927. VICTOR X-RAY CORPORATION. Renewed Mar. 15, 1947, to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York. Class 44.

225,344. **P.** MEDICINAL PREPARATION—NAMELY, A PARATHYROID EXTRACT WHICH IS USED TO RELIEVE ACUTE AND CHRONIC TETANY FOLLOWING THYROIDECTOMY, AND IS A TRUE SPECIFIC IN CASES OF TETANIA PARATHYROEPRIVA. Registered Mar. 15, 1927. ELI LILLY AND COMPANY, Indianapolis, Ind., a corporation of Indiana. Renewed Mar. 15, 1947. Class 6.

225,522. **FARQUAR.** FURNACES FOR BURNING COAL AND LIKE FUEL FOR USE IN RESIDENCES, ETC. Registered Mar. 22, 1927. THE FARQUHAR FURNACE COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed Mar. 22, 1947. Class 34.

225,544. **T E C.** ELECTRICAL CONNECTING DEVICES FOR MAKING OR BREAKING CIRCUITS, IN THE FORM OF ATTACHMENT PLUGS. Registered Mar. 22, 1927. THE ELECTRIC COMPANY, Hartford, Conn., a corporation of Connecticut. Renewed Mar. 22, 1947. Class 21.

225,581. **HITEX.** COMPOSITION BOARD AND/OR PAPER COMPOSED OF VARIOUS MATERIALS PRESSED INTO SHAPE FOR THE PURPOSE OF ELECTRICAL INSULATION. Registered Mar. 22, 1927. THE STEVENS PAPER MILLS, INC. Renewed Mar. 22, 1947, to The Stevens Paper Mills, Inc., Windsor, Conn., a corporation of Conecticut. Class 21.

225,699. **KEEN KLOTHES.** SUITS, TROUSERS, VESTS, COATS, AND JACKETS FOR MEN, BOYS, AND CHILDREN. Registered Mar. 22, 1927. KNICKERBOCKER CLOTHING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed Mar. 22, 1947. Class 39.

225,714. **INJINEER XTRA.** FABRIC GLOVES AND MITTENS. Registered Mar. 22, 1927. The Boss Manufacturing Company, Kewanee, Ill., a ocrporation of Illinois. Renewed Mar. 22, 1947. Class 39.

225,720. **RAINBOW.** UNCUT GRANITE. Registered Mar. 22, 1927. Cold Spring Granite Company, Cold Spring, Minn., a corporation of Minnesota. Renewed Mar. 22, 1947. Class 1.

225,750. **RUSSCO.** UNDERWEAR OF KNITTED AND WOVEN FABRIC. Registered Mar. 22, 1927. The Russell Manufacturing Co., Alexander City, Ala., a corporation of Alabama. Renewed Mar. 22, 1947. Class 39.

225,768. **UP-TOWNE.** MEN'S CLOTHING, IN PARTICULAR PANTS, VESTS, COATS, OVERCOATS; DRESS, NEGLIGEE, WORK, AND UNDER SHIRTS, THE UNDER SHIRTS BEING OF KNITTED AND TEXTILE FABRIC; CHILDREN'S PLAY SUITS. Registered Mar. 22, 1927. Cohn-Goldwater Mfg. Co., Los Angeles, Calif., a corporation of California. Renewed Mar. 22, 1947. Class 39.

225,788. **GREY KRIMERENE.** WOMEN'S AND CHILDREN'S FUR NECK PIECES AND FUR COATS. Registered Mar. 22, 1927. Ben Kalish, New York, N. Y. Renewed Mar. 22, 1947. Class 39.

225,867. **MINNESOTA QUEEN.** HARD-WHEAT FLOUR. Registered Mar. 29, 1927. Schultz, Baujan & Company, Beardstown, Ill., a corporation of Illinois. Renewed Mar. 29, 1947. Class 46.

225,919. **RID-A-PAIN.** MEDICINAL PREPARATION FOR THE RELIEF OF HEADACHE, NEURALGIA, ACHES, PAINS, COLDS, AND LA GRIPPE. Registered Mar. 29, 1927. S. Pfeiffer Mfg. Co., St. Louis, Mo., a corporation of Missouri. Renewed Mar. 29, 1947. Class 6.

225,941. **EXCELSO.** PIGMENT COLORING MATERIAL FOR LEATHER AND LEATHER STAINS. Registered Mar. 29, 1927. Excelso Products Company, West Allis, Wis., a corporation of Wisconsin. Renewed Mar. 29, 1947. Class 6.

225,947. **"HAAS-QUALITY" ETC. AND DESIGN.** SOAPS. Registered Mar. 29, 1927. Joseph Gutradt Company. Renewed Mar. 29, 1947, to Newell Gutradt Company, San Francisco, Calif., a corporation of California. Class 4.

225,950. **SAPOLIN.** FLOOR WAX, LIQUID WAX, POLISHING CREAM, AND FURNITURE POLISH, ALL THESE PRODUCTS BEING RECOMMENDED FOR CLEANING AND POLISHING PURPOSES. Registered Mar. 29, 1927. Sapolin Co. Inc., New York, N. Y., a corporation of New York. Renewed Mar. 29, 1947. Class 16.

225,956. **AMBEROL.** SYNTHETIC OR CHEMICALLY-PREPARED RESINS. Registered Mar. 29, 1927. Rohm & Haas Co., Inc. Renewed Mar. 29, 1947, to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware. Class 6.

226,004. **"LE PARFUM IDEAL" AND REPRESENTATION OF HEAD OF WOMAN ETC.** PERFUME, TOILET WATER, LOTION, EAU VEGETALE, FACE POWDER, SACHETS, DUSTING POWDER, TALCUM POWDER, COMPACT POWDER, COMPACT ROUGE, BATH SALTS, AND BRILLIANTINE. Registered Mar. 29, 1927. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed Mar. 29, 1947. Class 6.

226,006. **PALS.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Mar. 29, 1927. Chula Vista Citrus Association. Renewed Mar. 29, 1947, to The Chula Vista Citrus Association, Chula Vista, Calif., a corporation of California. Class 46.

226,008. **SILVER GATE.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Mar. 29, 1927. El Cajon Valley Citrus Association, El Cajon, Calif., a corporation of California. Renewed Mar. 29, 1947. Class 46.

226,010. **CENTRAL.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Mar. 29, 1927. Mid-California Citrus Association, Porterville, Calif. Renewed Mar. 29, 1947, to Terra Bella Citrus Association, Terra Bella, Calif., a corporation of California. Class 46.

226,014. **VARIETIES.** PIECE GOODS OF COTTON, SILK, RAYON, WOOL, FIBERS, AND COMBINATIONS OF SAID MATERIALS. Registered Mar. 29, 1927. Rice-Stix Dry Goods Company, St. Louis, Mo., a corporation of Missouri. Renewed Mar. 29, 1947. Class 42.

226,017. **SUNNY SOUTH.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Mar. 29, 1927. El Cajon Valley Citrus Association, El Cajon, Calif., a corporation of California. Renewed Mar. 29, 1947. Class 46.

226,053. **NORTHLAND.** POULTRY FEED, STOCK FEED AND DAIRY FEED. Registered Mar. 29, 1927. Northrup, King & Company, Minneapolis, Minn., a corporation of Minnesota. Renewed Mar. 29, 1947. Class 46.

226,104. **GOLDEN ARROW.** FRESH DECIDUOUS FRUITS—NAMELY, PLUMS, POMEGRANATES, PEACHES, FRESH GRAPES. Registered Mar. 29, 1927. Arrow Packing Co., Exeter, Calif., a corporation of California. Renewed Mar. 29, 1947. Class 46.

226,105. **SILVER ARROW.** FRESH DECIDUOUS FRUITS—NAMELY, PLUMS, POMEGRANATES, PEACHES, FRESH GRAPES. Registered Mar. 29, 1927. Arrow Packing Co., Exeter, Calif., a corporation of California. Renewed Mar. 29, 1947. Class 46.

226,109. **DISCOVERY.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Mar. 29, 1927. Rio Grande Valley Citrus Growers Association. Renewed Mar. 29, 1947, to Mercedes Citrus Growers, Mercedes, Tex., a corporation of Texas. Class 46.

226,110. **TEXAS BEAUTY.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Mar. 29, 1927. Rio Grande Valley Citrus Growers Association. Renewed Mar. 29, 1947, to Mercedes Citrus Growers, Mercedes, Tex., a corporation of Texas. Class 46.

226,111. **DAWN O'GOLD.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT; FRESH DECIDUOUS FRUITS—NAMELY, POMEGRANATES, PEACHES, AND QUINCES. Registered Mar. 29, 1927. Tule River Citrus Association, Success, Calif. Renewed Mar. 29, 1947, to Tule River Citrus Association, Porterville, Calif., a corporation of California. Class 46.

226,119. **FEATHER-EDGE.** FRESH DECIDUOUS FRUITS—NAMELY, PLUMS, CHERRIES, APRICOTS, GRAPES. Registered Mar. 29, 1927. W. Ray Chandler, Marysville, Calif. Renewed Mar. 29, 1947, to W. Ray Chandler, Yuba City, Calif. Class 46.

226,121. **"HONEY SCOTCH" ETC. AND DRAWING.** CANDIES. Registered Mar. 29, 1927. J. N. Collins Company, Minneapolis, Minn. Renewed Mar. 29, 1947, to Peter Paul, Inc., Naugatuck, Conn., a corporation of Delaware. Class 46.

226,175. **"MAYES'" AND DESIGN.** SPIRIT LEVELS. Registered Apr. 5, 1927. Mayes Brothers Tool Manufacturing Company, Inc., Port Austin, Mich., a corporation of Michigan. Renewed Apr. 5, 1947. Class 26.

226,191. **TOM-BIG-BEE.** WORK SHIRTS. Registered Apr. 5, 1927. Reed Brothers, Inc., Tupelo, Miss., a corporation of Mississippi. Renewed Apr. 5, 1947. Class 39.

226,214. **MORNING SMILE.** FRESH CITROUS FRUITS—NAMELY, GRAPEFRUIT, LEMONS, ORANGES. Registered Apr. 5, 1927. Tulare County Lemon & Grapefruit Association, Porterville, Calif., a corporation of California. Renewed Apr. 5, 1947. Class 46.

226,215. **VESPER.** FRESH CITROUS FRUITS—NAMELY, GRAPEFRUIT, LEMONS, ORANGES. Registered Apr. 5, 1927. Tulare County Lemon & Grapefruit Association, Porterville, Calif., a corporation of California. Renewed Apr. 5, 1947. Class 46.

226,217. **"SIMPLEX" ETC. AND DRAWING.** WIRE CONNECTERS. Registered Apr. 5, 1927. Weiss & Biheller, Inc., New York, N. Y., a corporation of New York. Renewed Apr. 5, 1947. Class 21.

226,256. **"CORN FIX" ETC. AND REPRESENTATION OF BLUE CARTON.** REMEDY FOR CORNS, CALLI, AND BUNIONS. Registered Apr. 5, 1927. Corn Fix Co., Inc., Newark, N. J., a corporation of New Jersey. Renewed Apr. 5, 1947. Class 6.

226,290. **TINYMITES.** CRAYONS. Registered Apr. 5, 1927. The American Crayon Company, Sandusky, Ohio, a corporation of Ohio. Renewed Apr. 5, 1947. Class 37.

226,304. **"CELANESE".** PYJAMAS, NEGLIGEE SHIRTS, UNDERSHIRTS OF KNITTED FABRIC AND TEXTILE FABRIC, COLLARS, NECKTIES, SCARFS, MUFFLERS, FABRIC GLOVES, CUT-OUT LININGS FOR MEN'S AND WOMEN'S COATS AND SUITS, AND OTHER SUCH CLOTHING. Registered Apr. 5, 1927. The American Cellulose & Chemical Manufacturing Company, Ltd. Renewed Apr. 5, 1947, to Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Class 39.

226,305. **"KEW BEE CUT" AND REPRESENTATION OF THREE CUBES.** SAWDUST AND SHAVINGS. Registered Apr. 5, 1927. National Sawdust Co., Inc., Brooklyn, N. Y., a corporation of New York. Renewed Apr. 5, 1947. Class 1.

226,344. **"GILLETTE ETC." AND DIAMOND SHAPED DESIGN.** SURGICAL KNIVES AND PARTS THEREOF. Registered Apr. 5, 1927. Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware. Renewed Apr. 5, 1947. Class 44.

226,347. **GOLDEN SWEETS.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Apr. 5, 1927. Lindsay District Orange Company, Lindsay, Calif., a corporation of California. Renewed Apr. 5, 1947. Class 46.

226,360. **NOUVELOID.** SHOE TREES AND FILLERS. Registered Apr. 5, 1927. Cordo-Hyde Company. Renewed Apr. 5, 1947, to Cordo-Hyde Company, Brockton, Mass., a corporation of Massachusetts. Class 50.

226,372. **DELEGON.** MEDICINAL PREPARATION FOR USE AS AN ANTISEPTIC AND ANTIGONORRHEIC. Registered Apr. 5, 1927. Winthrop Chemical Company, Inc. Renewed Apr. 5, 1947, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York. Class 6.

226,373. **'MESUROL'.** MEDICINAL PREPARATION FOR USE AS AN ANTISYPHILITIC. Registered Apr. 5, 1927. Winthrop Chemical Company, Inc. Renewed Apr. 5, 1947, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York. Class 6.

226,380. **CORONET.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Apr. 5, 1927. Chula Vista Citrus Association. Renewed Apr. 5, 1947, to The Chula Vista Citrus Association, Chula Vista, Calif., a corporation of California. Class 46.

226,400. **ABMC.** WINDSHIELD WIPERS OF SQUEEGEE TYPE. Registered Apr. 5, 1927. American Bosch Magneto Corporation. Renewed Apr. 5, 1947, to American Bosch Corporation, Springfield, Mass., a corporation of New York. Class 29.

REISSUES

JUNE 3, 1947

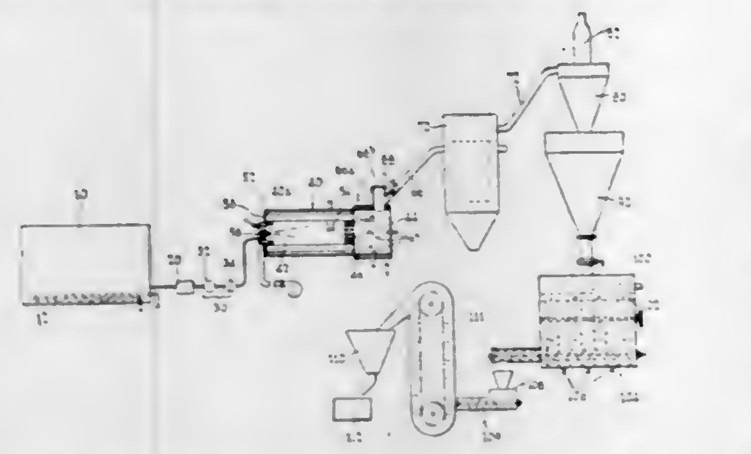
22,886

MANUFACTURE OF AMORPHOUS CARBON

Joseph W. Ayers, Easton, Pa., assignor, by direct and mesne assignments, to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware

Original No. 2,292,355, dated August 11, 1942, Serial No. 216,391, June 28, 1938. Application for reissue August 3, 1943, Serial No. 497,256

34 Claims. (Cl. 23—209.8)



32. A process for producing finely divided carbon which comprises providing at hydrocarbon cracking temperatures a reaction zone bounded by a cylindrical heat-insulating refractory wall, introducing air into said zone substantially tangent to the inner periphery of said wall so as to maintain adjacent thereto a spirally moving annular air stream, providing in said zone, inside and axially with respect to said annular air stream, a stream of hydrocarbons in a gaseous state, so that the respective streams mingle and react within said zone, regulating the quantities of air and hydrocarbons in the respective streams so that enough of the hydrocarbons is burned in said zone to maintain desired hydrocarbon cracking temperatures therein while substantially the remainder of the hydrocarbons is cracked therein to elemental carbon, cooling to a non-reactive temperature the reaction products containing gases and suspended carbon, and thereafter recovering the carbon.

22,887

PROCESS FOR REMOVING OXIDE FROM THE SURFACE OF METALS

Harry R. Spence and Horace W. Hooker, Lewiston, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York

No Drawing. Original No. 2,395,694, dated February 26, 1946, Serial No. 538,538, June 2, 1944. Application for reissue January 16, 1947, Serial No. 722,470

13 Claims. (Cl. 134—2)

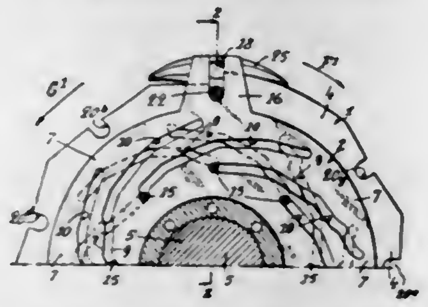
1. The method of removing from the surface of metals resistant to fused caustic alkalies dense firmly adherent oxide that has formed thereon through exposure to air under oxidizing conditions which comprises subjecting the oxide to the action of a fused substantially anhydrous bath, comprising caustic alkali containing a substantial but minor proportion of an oxidizing agent stable therewith, said bath being at substantially the same electrical potential as the metal, at a temperature of 300° to 600° C., for not less than 1 minute, and then subjecting the modified oxide to the action of a weak aqueous inorganic acid.

PATENTS

GRANTED JUNE 3, 1947

2,421,368
WHEEL OF VARIABLE DIAMETER

Emile Henri Aubert, Romette, France; vested in the Attorney General of the United States
Application November 9, 1942, Serial No. 465,945
In France July 17, 1941
11 Claims. (Cl. 74—244)



1. In a change speed device for flexible transmission means such as a chain, belt or the like, a wheel of variable diameter comprising a plurality of transmission receiving segments supported by said wheel and concentrically positioned about the axis of rotation of the wheel, said segments being in contact with each other when positioned along a circumference of minimum diameter, means individual to each of two adjacent segments for shifting said segments outwardly to a larger concentric circumference and also for spacing the two adjacent segments apart a distance equal to the difference in the lengths of the two circumferences, and means individual to the remaining segments for shifting said segments in contacting position to said other circumference simultaneously with the shifting of said two adjacent segments.

2,421,369
SEED DRESSING AGENTS EMPLOYING A HYDROXY PHENYL DIAZONIUM COMPOUND

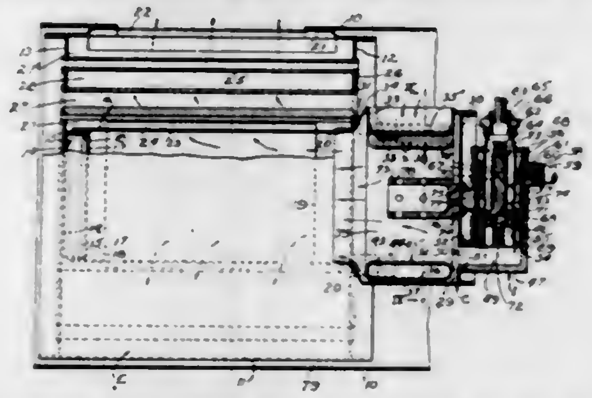
Wilhelm Bonrath, Leverkusen I. G.-Werk, and Ewald Urbschat, Cologne-Mulheim, Germany; vested in the Attorney General of the United States
No Drawing. Application March 29, 1943, Serial No. 481,010. In Germany October 10, 1940
6 Claims. (Cl. 167—31)

1. Seed fungicidal preparations comprising a substantial quantity of an inert solid material and a lesser quantity of the double salt of a metal salt and a hydroxy phenyl diazonium compound.

2,421,370
COMBUSTION CHAMBER STRUCTURE FOR HEAT EXCHANGERS

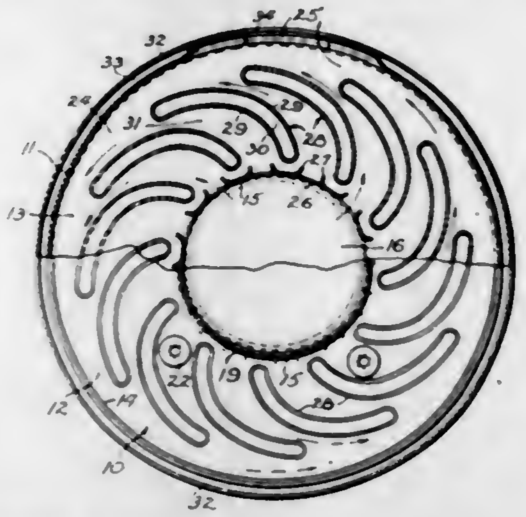
Stanley J. Budlane, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a corporation of Illinois
Application April 29, 1944, Serial No. 533,294
2 Claims. (Cl. 126—110)

1. In a heater assembly comprising a housing defining a passageway for air flow under pressure to a heat exchanger therein having an inlet for products of combustion, a combustion structure comprising a cylindrical shell connected at one end with the heat exchanger inlet, said shell having an opening at its top, a circular air inlet tube within said shell paralleling the cylindrical wall thereof, said tube having an inlet terminating in said shell opening and having an outlet exposed to the space surrounded by said tube which space constitutes a combustion chamber, the inlet of said tube being exposed to said airflow passageway for flow of air under pressure through said tube into said combustion chamber, means including a liquid fuel inlet to said tube adjacent to the tube inlet whereby fuel will be entrained by the air flow through the tube to be mixed therewith for delivery from said tube into the combustion chamber to form a combustion mixture in said chamber, and an igniter structure connected with said combustion structure for generating a pilot flame for projection into said combustion chamber for ignition of the combustion mixture therein.



2,421,371
HEAT EXCHANGER

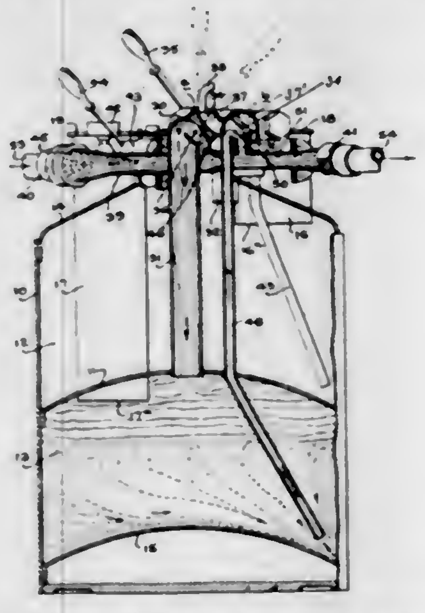
Stanley J. Budlane, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a corporation of Illinois
Application April 29, 1944, Serial No. 533,295
7 Claims. (Cl. 257—241)



1. A heat exchanger comprising a cylinder wall having inner and outer end walls and a core tube therein to define an annular chamber, said inner end wall having an inlet opening therethrough to said core tube, ducts extending through said chamber, said cylinder wall having an outlet to the exterior from said chamber, there being openings in said core tube to connect the interior thereof with said chamber whereby medium directed into said core tube through said end wall inlet opening will flow into and through said chamber into contact with said ducts and out of said outlet and the medium flowing through said ducts will be subjected to the temperature of the medium flowing through said chamber, said ducts being equally spaced in an annular row around said core tube and said ducts being in the form of flat tubes curved transversely to extend substantially in involute or spiral direction from said core tube and terminating short of said cylinder wall to leave an annular space between their outer edges and said cylinder wall whereby the medium flowing through the passageways between said ducts will be directed spirally into said annular space for flow through said space in circular direction to said outlet, said passageways converging to cause the velocity of flow therethrough to gradually increase as the temperature thereof decreases whereby the metal of the ducts and air flow therethrough will be uniformly heated.

2,421,372
DUPLEX PRESSURE PROPORTIONER

Harold J. Burke, United States Navy
Application November 12, 1943, Serial No. 510,041
11 Claims. (Cl. 169—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

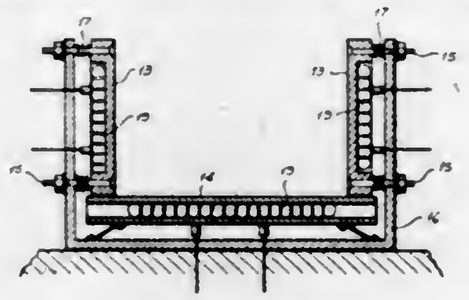


4. In an apparatus for injecting foam-forming material into a flowing stream of water, a pair of reservoirs for foam-forming material, means forming a water conduit, means providing passages connecting said water conduit and the top of each reservoir, means providing other passages connecting the bottom portion of each reservoir and said conduit, and valve means comprising a unitary, oscillating valve plug interposed in said passages for selectively establishing such communications to render only one of said reservoirs operative at any one time as a source of supply of said foam-forming material.

2,421,373
HEAT-SEALING ELEMENT

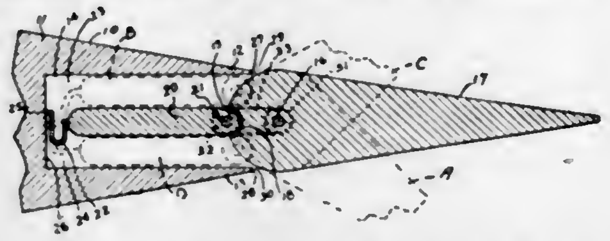
John Cozza, Brooklyn, N. Y., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 9, 1944, Serial No. 539,541
4 Claims. (Cl. 154—42)

1. In an apparatus for heat-sealing thermoplastic materials in making wrappers, bags and packages, the combination of, a metal heat-sealing element having the sealing surface thereof covered with a smooth continuous dry coating comprising film-forming hydrophilic material containing dispersed therein a minor proportion of colloidal graphite, and means for heating said element.



2,421,374
ARTICULATED BALANCE FOR AIRCRAFT CONTROLS

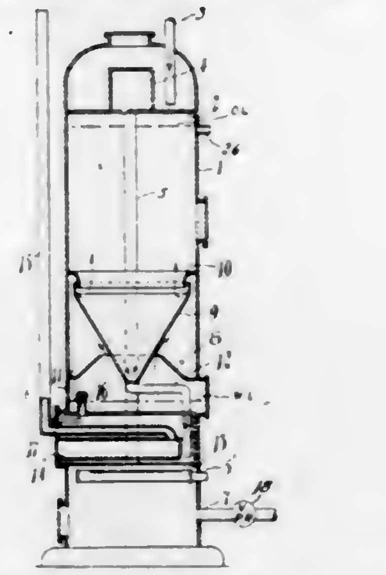
Walter Stuart Diehl, United States Navy, Washington, D. C.
Application July 27, 1942, Serial No. 452,531
6 Claims. (Cl. 244—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a control surface for aircraft, a fixed surface and a movable control surface, a recess in the fixed surface, an articulated extension on the leading edge of said movable surface, means for vertically moving said articulated extension in said recess in a substantially horizontal position, a flexible flap carried by said articulated member, said flexible flap being secured to a wall in said recess and to the forward edge of said articulated extension and dividing said recess into upper and lower compartments, said compartments being vented to the atmosphere on their respective sides.

2,421,375
CRUDE OIL SEPARATOR

Peter Mather Elliott, Toronto, Ontario, Canada, assignor to Oil Distribution Appliances Limited, Toronto, Ontario, Canada
Application November 16, 1943, Serial No. 510,520
6 Claims. (Cl. 210—52.5)



1. A separator for crude oil, comprising a tank having an inlet for the crude oil with which water

is mixed, a heater in the tank, a chamber in which the heater is located, means in the tank above the chamber for separating oil from water, the said crude oil inlet being located below the separating means, a drain pipe for carrying imperfectly separated oil and water from the separating means to the chamber at a point adjacent the bottom thereof, and means for carrying heated oil and water from the top of the chamber to the separating means, an outlet from the tank above the separating means for carrying off the separated oil, and an outlet from the tank below the separating means for carrying off the separated water.

2,421,376
PREPARATION OF SWEETENING MEDIUM FROM FRUIT

Arvid M. Erickson, San Jose, and John D. Ryan, Campbell, Calif., assignors to Barron-Gray Packing Company, San Jose, Calif., a corporation of California

No Drawing. Application September 11, 1942, Serial No. 457,975

18 Claims. (Cl. 127—50)

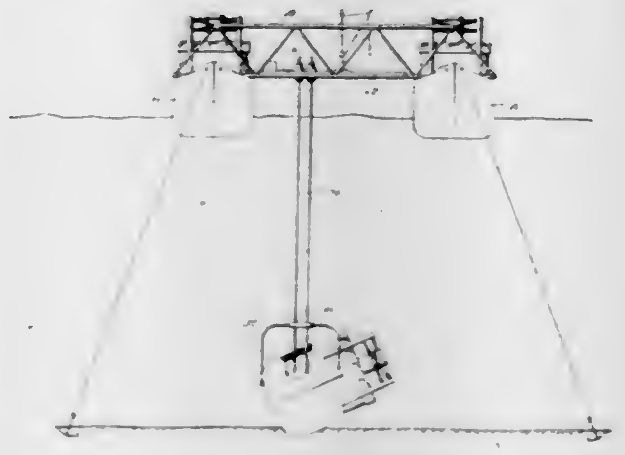
1. In the process of preparing a sweetening medium from fruit, the steps which comprise adding an alkaline defecating agent to a composition obtained by grinding fruit material and comprising the sweetening ingredients of the fruit in an amount sufficient to increase the pH of the fruit composition to substantially the pH above 10 at which a break occurs and which results in the formation subsequently of a granular, readily filterable and washable precipitate, then when the reaction at this pH is complete, adding an acid defecating agent in an amount sufficient to reduce the pH of the composition to a pH between about pH 9.2 and about pH 6.3, at which said granular, readily filterable and washable precipitate is formed, and thereafter separating the precipitate so formed to leave a clear liquid, said composition being maintained at a temperature below about 54° C. at least during the time when it has a pH above about 9.2.

2,421,377
APPARATUS FOR SALVAGE

Henry Emmett Gross, Chicago, Ill.

Application November 30, 1942, Serial No. 467,446

12 Claims. (Cl. 114—51)



1. Apparatus for raising sunken vessels comprising buoyant means, a drilling floor supported thereby, a plurality of hydraulic drilling tables positioned thereon, each provided with a string of drill pipe, each string comprising a plurality of joints of drill pipe, each string being provided at its lower end with a milling bit, next above the bit a section provided with a pivoted dog, eccentrically heavy, whereby, when unconstrained, the dog will normally assume a position at right angles to said drill pipe and a sleeve constricting said dog and freely slidable along the drill pipe and a template provided with holes for guiding and spacing the various drill pipes, resting upon said sleeves and thru which the various drill pipes pass.

2,421,378
ETHERS OF ESTERS OF LACTIC ACID

Howard R. Guest, Charleston, W. Va., Louis G. MacDowell, Lakeland, Fla., and Raymond W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application June 27, 1944, Serial No. 542,442

7 Claims. (Cl. 260—484)

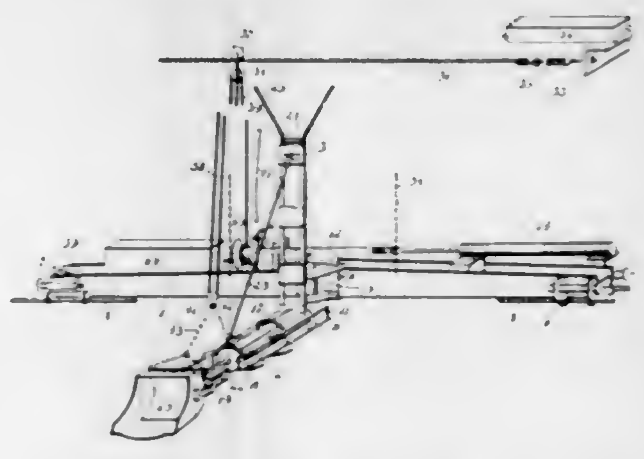
1. Process for making ethers of lactic acid esters which comprises heating a pyruvic aldehyde di-acetal at a temperature above 100° C., in the presence of an acid catalyst and an alcohol, and recovering an ether of a lactic acid ester from the reaction products.

2,421,379
SHAFT MUCKING MACHINE

John W. Harding, Sherridon, Manitoba, Canada

Application December 6, 1944, Serial No. 566,899

8 Claims. (Cl. 214—134)



1. A shaft mucking machine comprising in combination a stationary wall-engaging gantry beam, a vertical journal mounted in bearings on said gantry beam, a horizontally rotatable shovel boom secured to said vertical journal, a derrick arm secured to the root of said boom for rotation therewith in a horizontal plane, a cable drum upon said machine, and a cable wound upon said drum, extending over said derrick arm and being secured to said boom for raising the same.

2,421,380
METHOD OF TREATING SUGAR

Horace S. Isbell, Washington, D. C., assignor to the Government of the United States

No Drawing. Application June 24, 1941, Serial No. 399,533

10 Claims. (Cl. 127—63)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

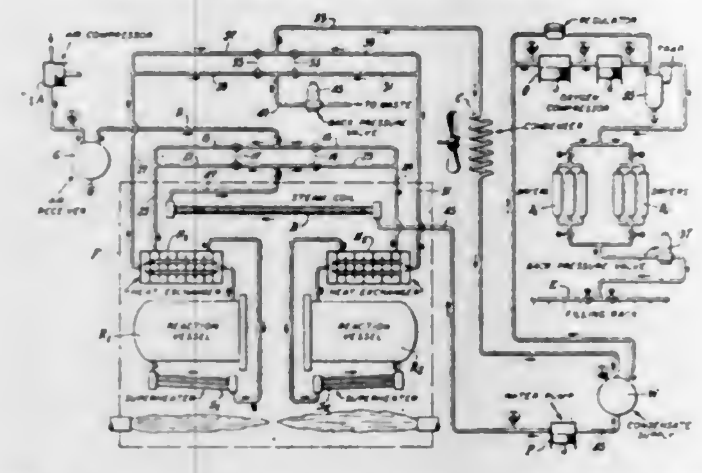
10. The method of bleaching crystalline sugar, while simultaneously preventing bacterial action, which comprises subjecting the crystalline sugar to the action of a solution containing a chlorite of a non-toxic metal, with the hydrogen ion concentration lying between pH 4 and pH 8.

2,421,381
CHEMICAL PRODUCTION OF OXYGEN

Leslie G. Jenness, Buffalo, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application July 3, 1942, Serial No. 449,687

8 Claims. (Cl. 23—221)



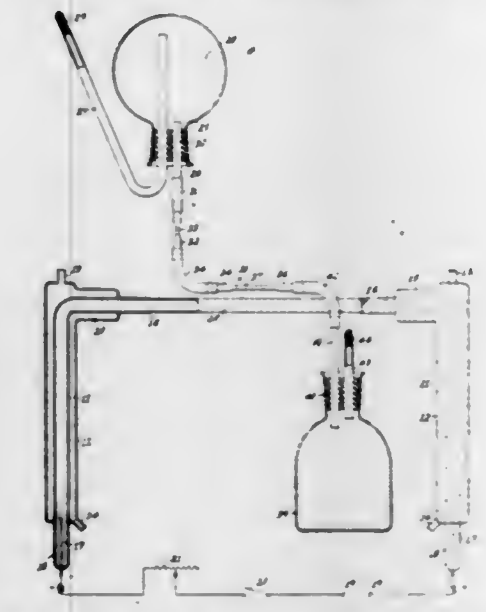
8. A process for producing gaseous oxygen which comprises alternately passing flowing streams of air and steam at approximately equal operating pressures above about two atmospheres absolute in contact with a hot solid manganate type contact mass maintained at a temperature between 1100° and 1300° F., said contact mass having the ability to be oxidized by the passage of air in contact therewith and thereafter to be deoxidized and release oxygen by the passage of steam in contact therewith; and, when the activity of said mass becomes so impaired that said mass loses some of its ability to take up oxygen during the passage of air, reactivating said mass by maintaining said mass in a hot reactive condition and passing into contact therewith a flowing stream of air at a pressure greater than said operating air pressure.

2,421,382
VACCINES AND ANTIGENS AND METHOD OF PRODUCING THE SAME

Sidney O. Levinson and Franz Oppenheimer, Chicago, Ill., assignors to Michael Reese Research Foundation, Chicago, Ill., a nonprofit corporation of Illinois

Application March 6, 1946, Serial No. 652,440

15 Claims. (Cl. 167—78)



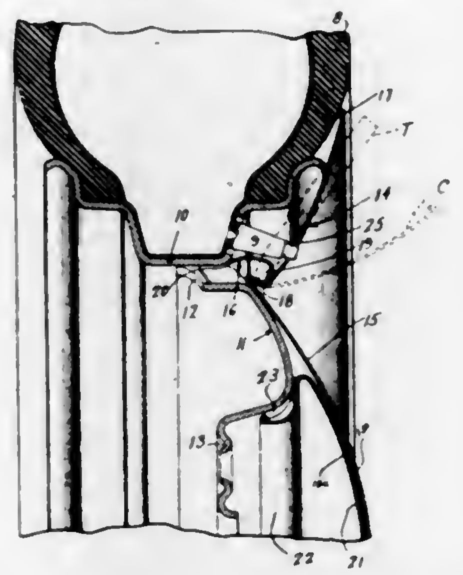
14. A vaccine of high potency having antigenic properties substantially equal to those of an untreated suspension of the organisms comprising a sterile suspension of organisms which has been subjected to ultraviolet irradiation for a period of less than approximately 10 seconds by a lamp having an output of not less than 0.1 milliwatt per square centimeter of energy below 2000 A.

2,421,383
WHEEL COVER

George Albert Lyon, Allenhurst, N. J.

Application June 2, 1943, Serial No. 489,307

2 Claims. (Cl. 301—37)



1. In a wheel structure including tire rim and body parts having cover retaining projections in the form of resilient clips operative to bear in resilient cover retaining relation toward the wheel body part adjacent the juncture of the rim and body parts, a wheel cover comprising an outer annular section for concealing the rim part and extending to the body part radially inwardly of and adjacent to said clips, and an inner circular section for disposition over the body part and also extending to the radially inner side of the clips in face-to-face relation to the body part, said sections being made of resilient deflectable form retaining material integrally joined together by an axially inwardly and radially outwardly projecting rigidifying juncture fold resting at its axially inner side against the body part and at its axially and radially outer side providing a shoulder arranged to be cammed over into retaining cooperation with said clips whereby the juncture fold is pressed toward and tightly against the body part, said outer section being manually flexible to be swung open about a pivot at the shoulder and away from the wheel to permit a pry-off tool to be inserted therebehind for engaging behind said juncture shoulder to pry the cover from the wheel, the outer edge of said outer section being disposed to be conveniently manually accessible adjacent the outer edge of the tire rim for effecting said manual deflection.

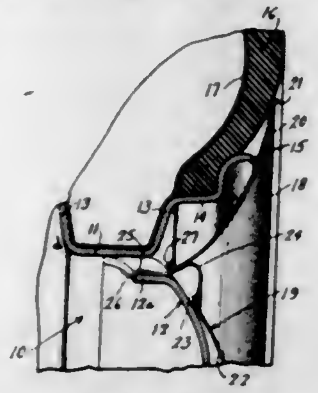
2,421,384
ORNAMENTAL COVER FOR VEHICLE WHEELS

George Albert Lyon, Allenhurst, N. J.

Application December 6, 1943, Serial No. 513,031

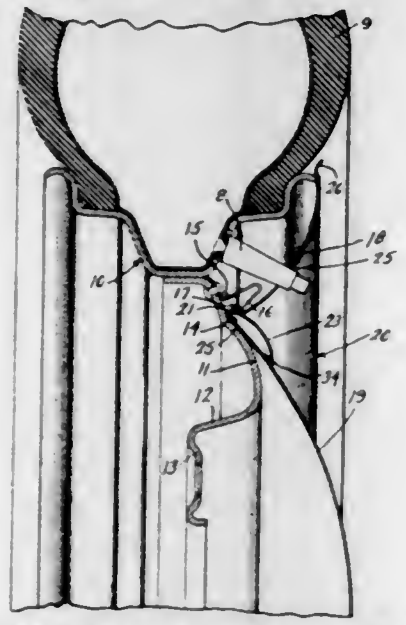
1 Claim. (Cl. 301—37)

In a cover structure for a wheel including a multi-flanged tire rim part and a body part having wheel openings therein, an annular cover member for disposition over flanges of said rim part and made of resiliently reflectable form-sustaining plastic material, a central cover member disposed opposite the body part and including a crown portion and an axially rearwardly turned peripheral portion extending behind the crown portion to define a shoulder engaged by the inner edge portion of the annular cover member and seating edgewise upon the body part at the radially inward side of the wheel openings, and rearwardly projecting spaced resilient fingers extending from said edge for snap-on engagement with said body part in said wheel openings, said annular cover member resting at its inner edge on the body part beside the edge of said rearwardly turned peripheral shoulder portion and bearing against the shoulder at the juncture of said resilient fingers and said edge of the rearwardly turned peripheral portion.



2,421,385
WHEEL COVER

George Albert Lyon, Allenhurst, N. J.
Application April 17, 1944, Serial No. 531,336
7 Claims. (Cl. 301—37)

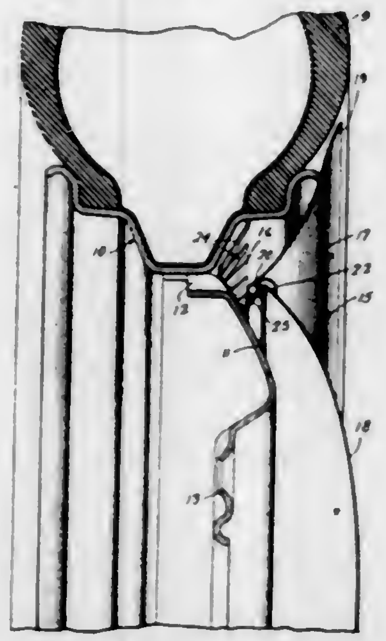


1. In a wheel structure including a wheel having tire rim and body parts with the body part provided with outwardly projecting cover retaining means, a circular wheel cover therefor of flexible material which is form-sustaining and yet deflectable without permanent deformation, said cover having concentric portions joined by a flexible indentation and a retaining ring pressed into said indentation for deflecting the material at the indentation to shape and fit the cover and accommodate manufacturing variations in the tire rim and body parts and to force said indentation into engagement with the retaining means on the body part of the wheel.

2,421,386
WHEEL COVER

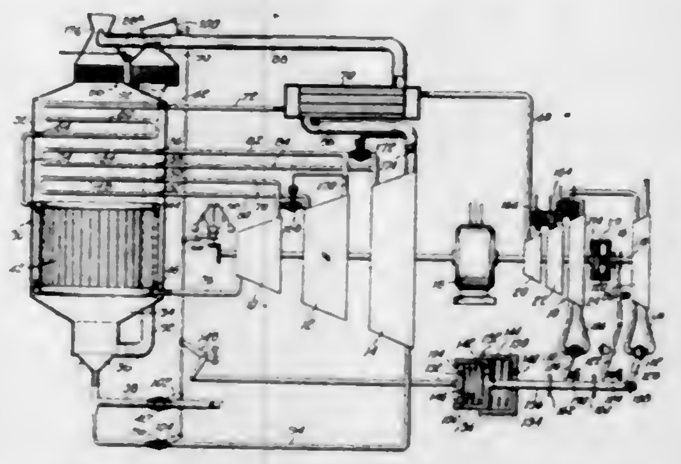
George Albert Lyon, Allenhurst, N. J.
Application July 24, 1944, Serial No. 546,267
14 Claims. (Cl. 301—37)

1. In a cover structure for a wheel including tire rim and body parts, a wheel cover for attachment to an outer side of said wheel and including an outer annular ring section and a central circular section connected together by a junction section of loop-like cross-section, one of said sections adjacent said junction section having an annular shoulder and a reinforcing hollow ring with underturned edge portions engaging opposite sides of said shoulder and also having one of its edge portions extending into the space defined by said junction section and resiliently wedged therein to rigidify and ornament the cover at the junction of said ring and central sections.



2,421,387
HOT AIR TURBINE POWER PLANT WITH AUTOMATIC AIR SUPPLY CONTROL

Alf Lysholm, Stockholm, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a corporation of Sweden
Application April 2, 1943, Serial No. 481,581
16 Claims. (Cl. 60—59)

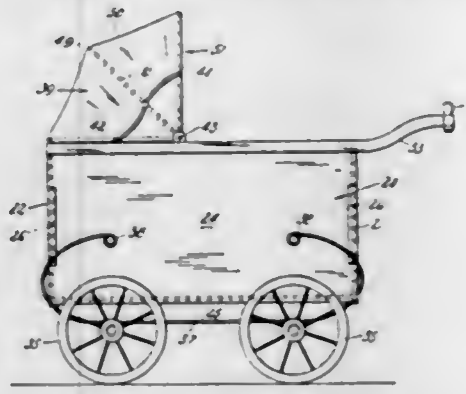


1. The method of generating power by the aid of turbine means, compressor means and a fuel burning surface type heater which includes compressing air in said compressor means, heating the compressed air in said heater with high temperature combustion gases out of contact with the air, expanding the heated and compressed air in said turbine means to generate externally useful power and to drive said compressor means, utilizing a first portion of the air exhausted from said turbine means for burning fuel supplied to said heating means to produce said combustion gases and utilizing a second portion of the air exhausted from said turbine means to create a draft for said heater.

12. A power plant including turbine means, compressor means driven by said turbine means, a fuel burning surface type air heater, means for delivering compressed air from said compressor means to said heater, means for delivering heated and compressed air from said heater to said turbine means for expansion therein, means for delivering exhaust air from said turbine means to said heater for combustion with fuel for operating the heater, and governing means responsive to variations in external load on the plant for varying the quantity of compressed air delivered by said compressor means and the quantity of exhaust air delivered to said heater.

2,421,388
FOLDABLE BABY CARRIAGE

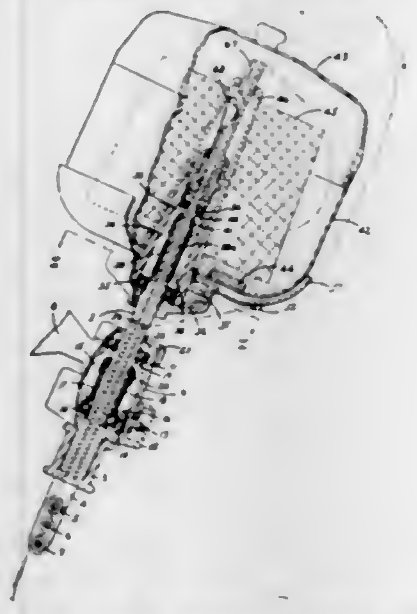
George Mochan, New York, N. Y.
Application January 25, 1945, Serial No. 574,480
6 Claims. (Cl. 296—107)



1. In a baby carriage, having a body adapted to be collapsed and folded into a flat condition, generally along the plane of one of its side walls, said carriage also having a sun shade, said sun shade comprising frames having two side and one cross members, said side members being pivoted in a longitudinal direction on the body of the carriage, a universal joint between each cross member and the respective side members, and a flexible covering secured on said frames.

2,421,389
SPINDLE MOUNTING

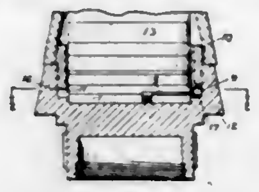
Seddon C. Nelson, Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application August 21, 1945, Serial No. 611,813
10 Claims. (Cl. 57—134)



1. A mounting for a spinning and twisting device comprising a spindle, a container for oil fixed to the spindle, a bearing housing about the spindle for supporting a wound package, axially spaced rolling contact bearings between the spindle and housing for permitting relative rotation therebetween, an annular chamber within the housing between the bearings, a passage through the housing communicating with the container and the annular chamber, means within the annular chamber for feeding oil therein to the bearings, and means for imparting relative rotation to the spindle and housing.

2,421,390
MECHANICAL TIME FUSE STRUCTURE

Benjamin B. Patton, Philadelphia, Pa., assignor to the United States of America, as represented by the Secretary of War
Application March 7, 1939, Serial No. 260,313
1 Claim. (Cl. 102—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A fuse comprising a casing, said casing including a base and an element rotatably mounted on the base, a housing supported by and fixed relatively to the base, an escapement balance in said housing, a centrifugally actuated locking lever mounted in said housing and normally engaging the escapement balance to prevent oscillation thereof, said lever being movable by centrifugal force to an inoperative position out of engagement with the escapement balance, a spring fixed at one end to the housing, the opposite, free end of the spring being bent outwardly and back upon itself to form a detent portion normally disposed in yieldable engagement with a portion of the locking lever to hold the locking lever in engagement with the escapement balance, said detent portion being urged outwardly by centrifugal force, against the resiliency of the spring to release the locking lever, and a rigid, positive locking member carried by the rotatable element of the casing and disposed, when in an operative position, to engage the terminal part of the detent portion to positively retain the detent portion in engagement with the locking lever, said rotatable element being movable to move the positive locking member to an inoperative position out of engagement with the detent portion, to permit the detent portion and locking lever to function normally in response to centrifugal force.

2,421,391
PROCESS FOR DENITRATING NITROCELLULOSE ARTICLES

Frank H. Reichel and Ralph T. K. Cornwell, Fredericksburg, Va., assignors, by mesne assignments, to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 3, 1942, Serial No. 464,392
7 Claims. (Cl. 18—48)

1. In a process for the denitration of an elongate article containing nitrocellulose, the steps comprising treating the article with an alkaline solution of an alkali hydrosulfide as a reducing agent, while maintaining the solution alkaline but below a pH of 12 during the treatment by adding a buffering agent to the solution.

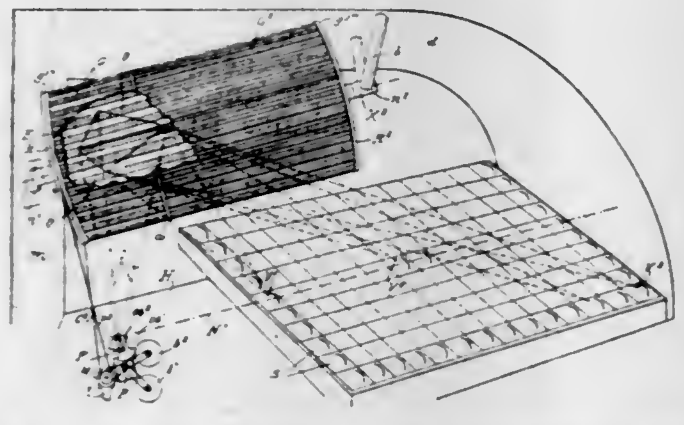
2,421,392
SENSITIZATION OF HYDROGEN BROMIDE CATALYZED OXIDATION REACTIONS

Frederick F. Rust, John H. Raley, and William E. Vaughan, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 17, 1944, Serial No. 518,664
8 Claims. (Cl. 260—533)

4. In a process for the production of desirable oxygenated products, the steps of subjecting vapors of a saturated aliphatic hydrocarbon having at least two carbon atoms per molecule to the action of oxygen in the presence of an effective amount of hydrogen bromide and of between about 0.1% and about 10% by volume of an organic peroxide, effecting the reaction at a temperature of between about 100° C. and about 225° C., and recovering the oxygenated products from the reaction mixture thus formed.

2,421,393
EQUIPMENT FOR THE PROJECTION OF STEREOSCOPIC VIEWS AND FILMS

François Savoye, Paris, France; vested in the Attorney General of the United States
Application January 23, 1942, Serial No. 427,956
In France January 29, 1941
4 Claims. (Cl. 88—16.6)

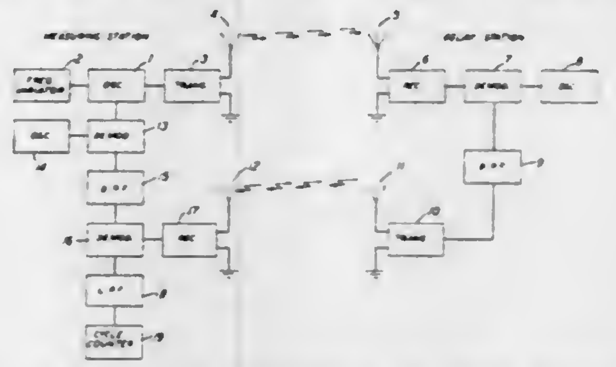


4. In an equipment for the projection of stereoscopic views, a substantially horizontal floor, a projector mounted thereon, a screen on which stereoscopic views are projected elevated above and arranged at an acute angle to the floor; a cylindrical selective device encircling said screen and rotatable on an axis parallel to that of the screen, seats for spectators arranged on an inclined plane extending above the floor and below and forwardly of the screen, a second cylindrical selective device arranged between the seats and the screen with its axis parallel to that of the screen, the plane of the seats being parallel to the axes of the selective devices and the screen.

2,421,394
DISTANCE MEASURING SYSTEM

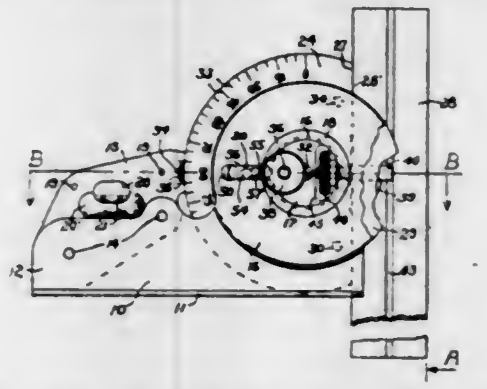
John C. Schelleng, Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1942, Serial No. 446,466
3 Claims. (Cl. 250—1.68)

2. The method of determining the distance between two bodies moving relatively to each other which comprises generating at one body waves of constant frequency, radiating said waves to the second body, reradiating said waves back to the first body, receiving the reradiated waves at said first body, changing the frequency of a portion of the generated waves, combining said received waves with said waves of changed frequency to produce a difference wave, adjusting the change in the frequency of said portion to make the frequency of said difference wave zero, then varying the frequency of said generated waves through a predetermined sweep, and counting the number of cycles in said difference wave during said sweep to determine the distance between said bodies.



2,421,395
BEVEL PROTRACTOR

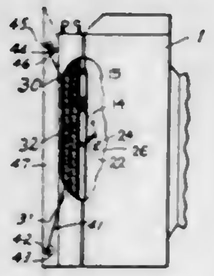
William H. Schneider, Milwaukee, Wis.
Application August 24, 1944, Serial No. 550,925
9 Claims. (Cl. 33—102)



3. In a bevel protractor for machinists, carpenters, and the like, the combination of a fixed frame having a base providing a straight edge and spaced portions, a straight edge carrying dial, means for pivotally mounting said dial between the spaced portions of said base, a spring pressed locking pin mounted in the dial and engageable with the opening in the base to lock the dial in a ninety degree position, and a spring finger mounted on said base engageable with said locking pin and adapted to be pressed inwardly by the operator to release the same from locking engagement with said base.

2,421,396
ELECTRICALLY CONTROLLED CAMERA

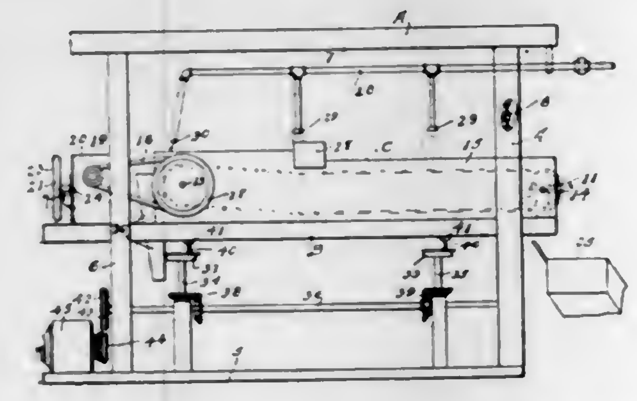
Morris Schwartz and William Castedello, Stamford, Conn., assignors to The Kalart Company, Inc., Stamford, Conn.
Application April 14, 1944, Serial No. 531,026
13 Claims. (Cl. 95—11)



1. A circuit system for controlling electrically operated devices associated with a photographic camera having a casing and guiding means thereon for receiving a holder for a sensitized layer including a slide for covering and uncovering the sensitized layer, said circuit system including a switch means, said switch means comprising relatively movable elements, contact members controlled by the relative position of the movable elements, and means for urging the movable elements into a relative position in which the contact members are in contact, said movable elements being placed and arranged to be held by the slide of a holder inserted in the camera in a relative position in which the contact members are disengaged and to move into their relative position in which the contact members are in contact in response to a removal of the slide.

2,421,397
PAN MOTION BELT APPARATUS FOR ORE SEPARATION

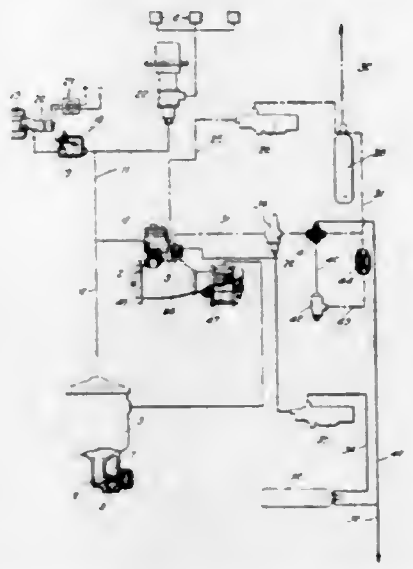
Frank P. Stewart, Salt Lake City, Utah
Application August 18, 1943, Serial No. 499,065
1 Claim. (Cl. 209—433)



An ore separation device comprising a framework; a drive motor mounted on the base of the framework; a horizontal shaft driven from the motor; spaced vertical shafts driven from the horizontal shaft; an eccentric mounted on the top end of each vertical shaft; a rotatable body suspended at each corner by flexible means depending from the top of the framework; cam rods extending up from the eccentric cams to engage the bottom of the rotatable body to transmit rotary motion to the rotatable body; a driving drum mounted transversely of said rotatable body; a driven drum mounted at the other end of said body at a level slightly lower than the first drum; a flexible belt carried on said drums; guide means extending inwardly from the sides of the rotatable body said guide means to guide the main portion of the upper stretch of endless belt between the drums on a substantially horizontal plane and permit the end near the driving drum to incline upwardly adjacent thereto for a short distance; a drive motor mounted at one end of the rotatable body; a gear reduction device driven by said motor; means to drive the upper drum from the gear reduction device; a discharge launder mounted at the upper end of the endless belt and extending through the rotatable body and rotatable therewith to insure positive collection of all values from the endless belt; a feed trough mounted to feed ore onto the endless belt adjacent the inclined area thereof; a water pipe mounted above the endless belt; spaced sprays extending down to spray the material as it is carried up the belt and along its upper carrying surface; and a cleaner spray extending down from the end of said pipe to dislodge the values from the drum end of the belt into the discharge launder to clean the belt of all values.

2,421,398
PRODUCTION OF COMPRESSED AIR ON BOARD AIRCRAFT

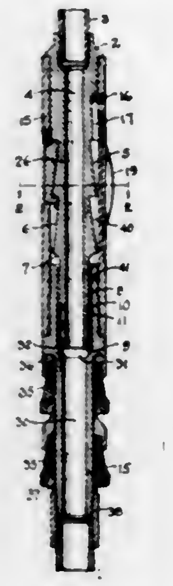
Charles Raymond Waseige, Rueil, France; vested in the Attorney General of the United States
Application May 21, 1942, Serial No. 443,966
In France December 24, 1940
13 Claims. (Cl. 230—45)



1. In a system for the production of compressed air on aircraft, at least two compressed air generators, including a first generator and a second generator, a connection between the outlet of the first generator and the intake of the second generator to feed the second generator with air under greater than atmospheric pressure, the intake side of the first generator being open to the atmosphere, and manometric valving means arranged in the circuit of air flowing through the first generator in a manner to determine the pressure at which the second generator is fed in accordance with the altitude of the aircaft.

2,421,399
CEMENT RETAINER

Milo C. Wilson and Vernon D. Davidson, Corpus Christi, Tex.; said Wilson assignor to said Davidson
Application August 9, 1943, Serial No. 497,936
1 Claim. (Cl. 166—12)



A cementing tool comprising an operating pipe, an open hollow mandrel thereon, a housing about said mandrel, a latch means connecting said housing and mandrel and operable to permit movement of said mandrel relative to said housing, a set of upwardly facing tapered faces on said mandrel, a set of slips carried by said housing, tapered faces on said slips to cooperate with said mandrel faces whereby to move said slips into anchoring position by upward movement of said mandrel relative to said housing and slips to anchor the tool in the well, packer means on said housing to effect a seal therearound upon application of pressure through said mandrel, and means on said mandrel to engage said housing upon relative downward movement so as to knock said housing and slips loose from anchoring position; wherein there is an enlarged chamber in said housing and said hollow mandrel is disposed as a piston in said chamber, there being opposed faces in said chamber.

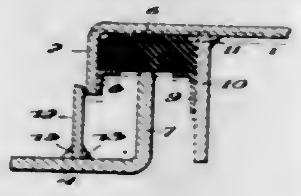
2,421,400

DOOR SEALING ARRANGEMENT

William Young, Washington, D. C.

Application June 3, 1944, Serial No. 538,670

8 Claims. (Cl. 20—69)



1. A sealing arrangement for closures having inturned marginal flanges comprising a strip of relatively flexible sealing material on the inside of the closure adjacent said marginal flanges, a rigid flange surrounding the opening to be closed by the closure for compressing said strip of sealing material intermediate its side edges, and a separate member immovably mounted with respect to said rigid flange capable of being fitted with respect to the closure after it is hung for overlapping the outer face of said marginal flanges when the outer end of said rigid flange initially contacts the sealing material, said member being so formed to enable the closure to move inwardly with respect thereto to compress said sealing material and being spaced in such closely contiguous relation with said marginal flanges as to resist passage of fire from one side of the closure to the other when the sealing material is compressed.

2,421,401

PROCESS FOR THE MANUFACTURE OF COMPOUNDS OF α,β-(p,p′-DIHYDROXY-DIARYL)-α,β-DIALKYL-ALKYL AND -ALKYLENE

Erich Adler, Gert J. Gie and Hans von Euler, Stockholm, Sweden, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application September 7, 1944, Serial No. 553,110. In Sweden October 26, 1943

17 Claims. (Cl. 260—619)

1. A process for the manufacture of compounds with oestrogenic activity selected from the group consisting of alpha,beta-(p,p′-dihydroxy-diphenyl)-alpha,beta-dialkyl-ethanes and alpha,beta-(p,p′-dihydroxy-diphenyl) - alpha,beta - dialkyl-ethylenes, which comprises reducing a p-hydroxy-phenyl-alkyl-ketone by means of sodium amalgam in an alkaline aqueous solution to the corresponding pinacol, dehydrating the pinacol to the corresponding pinacolin, and reducing the said pinacolin to the corresponding pinacolin alcohol.

2,421,402

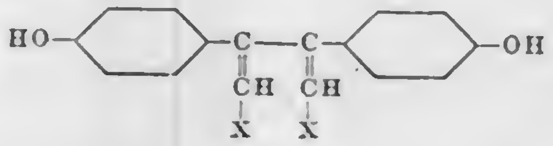
DIARYL - DIALKYL - ETHANE DERIVATIVES AND PROCESS FOR THE MANUFACTURE OF SAME

Erich Adler, Lidingo, near Stockholm, Sweden, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application August 22, 1945, Serial No. 612,120. In Sweden August 23, 1944

10 Claims. (Cl. 260—396)

1. Process for the manufacture of di-(p-hydroxyaryl)-dialkyl-ethanes, comprising treating 1,2-di-/p- hydroxy-aryl/- 1,2 - dialkyl - ethylenes with mild oxidants and rearranging the α,β-dialkyl-stilbenequinones formed into butadienes of the formula



wherein X is selected from the group consisting of hydrogen and alkyl radicals, by treatment with a reagent selected from the group consisting of acids and alkalis.

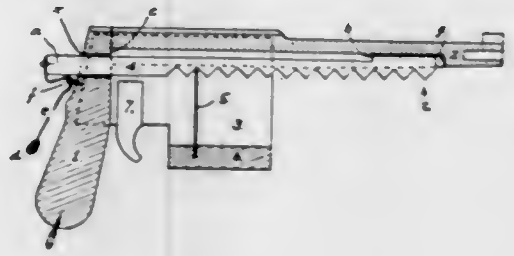
2,421,403

TOY PISTOL

Howard D. Allen, Los Angeles, Calif.

Application August 7, 1944, Serial No. 548,622

4 Claims. (Cl. 46—192)



1. A toy pistol, including an elongated barrel, a handle for one end of said barrel, said barrel provided with a longitudinal groove, said handle formed with an opening communicating with the longitudinal groove of the barrel, a plunger passed through the opening of the handle and received within said longitudinal groove of the barrel, said plunger provided with transverse teeth, and a clacker for contact with the teeth whereby when the plunger is moved the clacker plays over the teeth to produce a staccato sound.

2,421,404

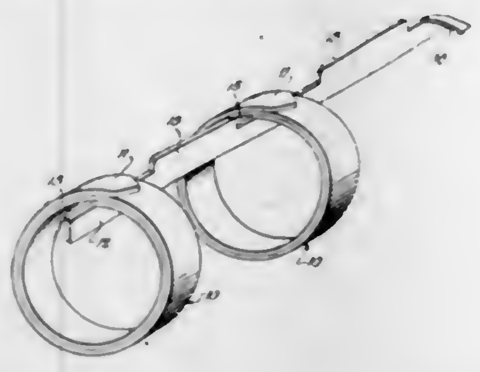
LOOSE-LEAF BINDER

Alex A. Anderskow, Chicago, Ill.

Application July 30, 1945, Serial No. 607,737

4 Claims. (Cl. 129—1)

1. A binding unit for retaining a group of marginally perforated sheets in book form comprising a plurality of flexible rings each provided with concentric spiral convolutions having free outer ends adapting the rings to be threaded simultaneously through correspondingly spaced perforations of a group of sheets to effect disposition of the adjacent margins of the sheets within the confines of the rings, a spacing strip connecting together the inner ends of the adjacent rings, and a stop member integral with the unit and disposed substantially in the plane of said strip for preventing a marginal portion of a sheet on the side of said stop from entering between the ring convolutions upon the turning of said sheet relative to the rings.



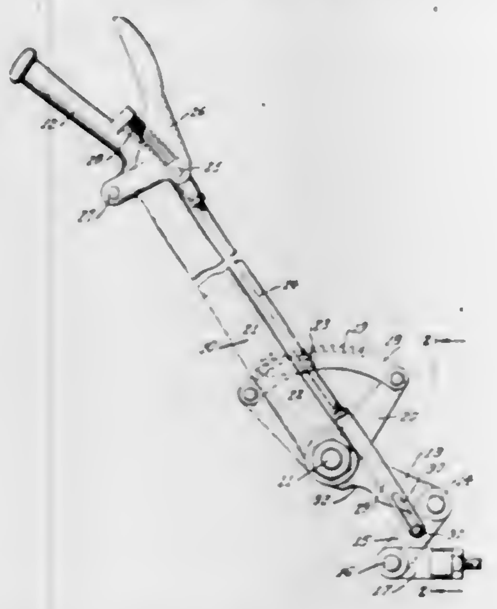
2,421,405

EMERGENCY BRAKE LEVER

Walter F. Benning, Toledo, Ohio, assignor to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware

Application January 31, 1945, Serial No. 575,389

6 Claims. (Cl. 74—518)



1. A vehicle brake lever, means to pivot the lever on the vehicle chassis, hand operating means on the lever to move the lever pivotally, means on the lever to actuate brake operating mechanism, a stationary sector, a detent movable on the lever for engagement with the sector to lock the lever in desired position, means on the lever to actuate the detent, and means to actuate the brake operating mechanism by the detent actuating means.

2,421,406

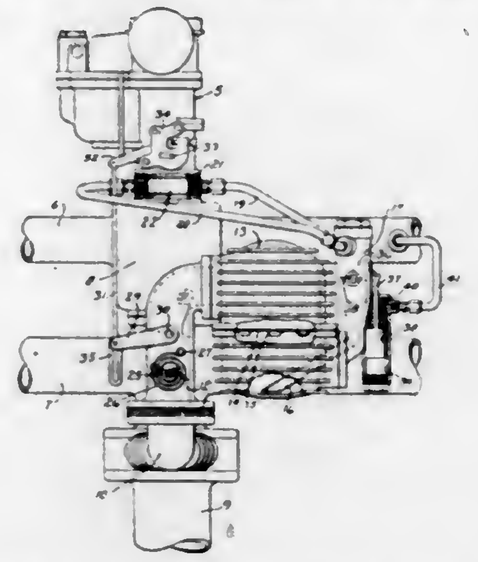
FUEL CONDITIONING DEVICE

George M. Bicknell, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application August 19, 1944, Serial No. 550,211

5 Claims. (Cl. 123—119)

1. In combination with an internal combustion engine having an intake conduit, a throttle therein, and an exhaust pipe, an anti-detonation device comprising a connection leading from said exhaust pipe to said conduit posterior to said throttle, an exhaust cooler and valve means in said connection, means operating said valve means from said throttle for closing said connection when said throttle is in idling position and in direct relation to the degree of closing of said throttle, and additional means for opening said valve means in inverse proportion to the suction existing in said intake conduit.



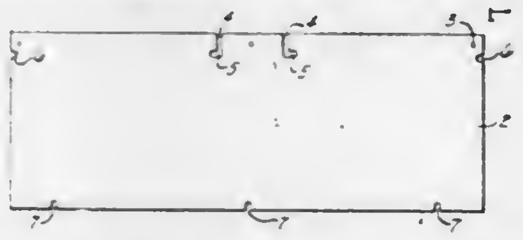
2,421,407

BUTTON LOCKED DOWN SIDING

William C. Bowman, Llanerch, Pa., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

Application October 25, 1944, Serial No. 560,256

5 Claims. (Cl. 108—7)



1. A weather surfacing element comprising a rectangular body having a slot near each end and inner slots intermediately the ends of the element and extending in from the top edge with extension slots angularly disposed and also having slots disposed along the bottom margin and inwardly from the bottom edge, said slots in the bottom margin being arranged to be out of registration with the inner slots but in registration with the extension slots and those slots which are near the ends of similarly constructed overlying elements.

2,421,408

THERMOPLASTIC POLYVINYL HALIDE COMPOSITION CONTAINING CHLORINATED PARAFFIN WAX

Ernest Francis Brookman and Stephen Frederick Pearce, Welwyn Garden City, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application April 1, 1943, Serial No. 481,497. In Great Britain May 7, 1942

6 Claims. (Cl. 260—28)

1. A polyvinyl halide composition which is substantially rigid at a temperature of 45–85° C. and which can be shaped by extrusion at a temperature of 160–180° C., which comprises 70–99.5% by weight of vinyl halide polymer in substantially homogeneous admixture with not to exceed 12.5% by weight of a plasticizer, and a chlorinated paraffin wax containing 30–50% by weight of chlorine in an amount equal to not less than 0.5% by weight and not more than 5% by weight when substantially no plasticizer is present, the weight

ratio of said plasticizer to said wax being equal to not more than 10 and not less than any positive value of the expression (2.28–0.024 N), wherein N is the per cent by weight of said polymer.

2,421,409
THERMOPLASTIC POLYVINYL CHLORIDE, CHLORINATED PARAFFIN WAX, PLASTICIZER COMPOSITIONS

Ernest Francis Brookman and Stephen Frederick Pearce, Welwyn Garden City, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application April 1, 1943, Serial No. 481,498. In Great Britain April 3, 1942

6 Claims. (Cl. 260—28)

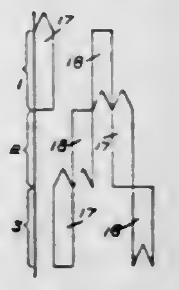
1. A vinyl halide polymer composition which can be readily shaped by extrusion to produce articles of improved power factor and volume resistivity comprising vinyl halide polymer in substantially homogeneous admixture with a plasticizer and a chlorinated paraffin wax containing 35–55% by weight of chlorine, the proportion of said wax being 1–65% of the combined weights of said wax and said plasticizer, said composition containing at least 40% but less than 70% by weight of said polymer.

2,421,410
METHOD OF SCREEN PRINTING

Herbert Bucklin, Sanford, Maine, assignor to Goodall-Sanford, Inc., Sanford, Maine, a corporation of Maine

Application October 23, 1945, Serial No. 624,051

8 Claims. (Cl. 101—129)



1. The method of screen printing to avoid juncture marking in a color of a pattern having regular repeats in which the color extends continuously between adjacent repeats which consists in preparing two screens for the said color, one screen including the entire repeat of the color, the second screen including the front section of the repeat of the color, the two screens being placeable the one on one, and the other on the other, of adjacent repeats to include overlapping sections within the said overlapping sections together covering at least once the end section of the first repeat, applying and printing with both screens each repeat to print each front section and each end section of each repeat twice and while the colors applied are in condition to blend.

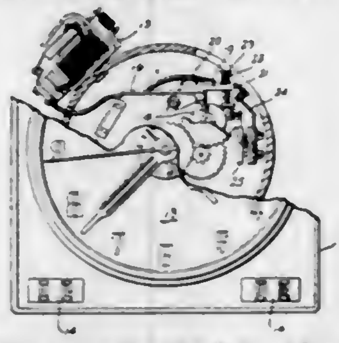
2,421,411
CIRCUIT TIME CONTROL DEVICE

Don D. Clayton, Essington, Pa.

Application March 12, 1946, Serial No. 653,729

4 Claims. (Cl. 161—1.5)

4. A circuit controlling device comprising an electric clock having a resilient ringer arm, a depending lug member carried by said ringer arm, a notched cam disc driven by the clock mechanism, said lug member engaging the periphery of said disc, a first contact carried by said ringer arm, and loosely connected thereto, spring means constructed and arranged for biasing said first contact toward said ringer arm, a second contact adapted to be engaged by said first contact responsive to movement of said lug member into a notch in said disc, and an outlet socket, said outlet socket being connected to the power supply line through a control circuit adapted to be completed responsive to the engagement of said first contact with said second contact.

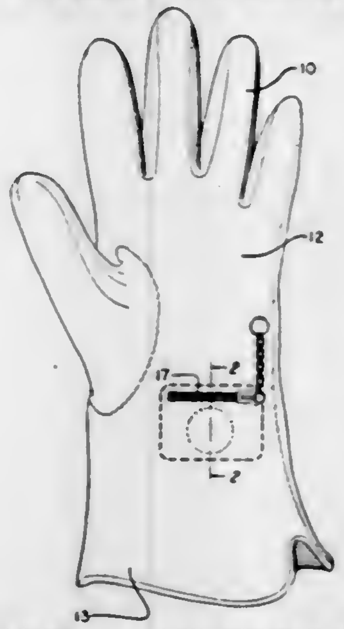


2,421,412
GLOVE WITH CHANGE POCKET

Katharine E. Dodge, New York, N. Y.

Application April 23, 1946, Serial No. 664,352

2 Claims. (Cl. 2—160)



1. A glove having a coin pocket formed therein adjacent the heel of the hand, the forward edge of said pocket extending transversely of the glove along a line intersecting the rearward portion of the base of the thumb part, the position of the pocket permitting the hand to be closed when wearing the glove without the fingers of the hand covering any portion of the pocket, thus allowing free use of the hand for grasping objects and free access to the pocket when the hand is closed, and a closure for said pocket, said closure being associated with said forward edge.

2,421,413
RESOLUTION OF MIXTURES OF HETEROCYCLIC NITROGEN COMPOUNDS

Karl Henry Engel, Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application October 29, 1942, Serial No. 463,736

7 Claims. (Cl. 260—290)

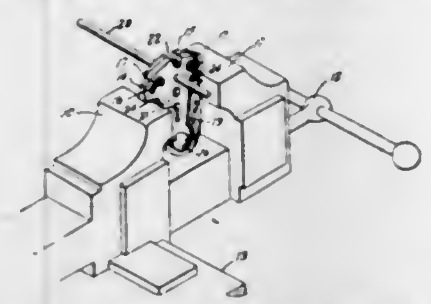
7. A process for resolving a mixture of heterocyclic nitrogen compounds containing substantial amounts of pyrrole and of pyridine homologs not readily separable from pyrrole by distillation, comprising treating said cut with an amount of zinc chloride sufficient to form addition compounds with the pyridine homologs, subjecting the reaction mixture to distillation to separate a pyrrole-rich distillate, treating this distillate with additional zinc chloride to combine with residual pyridine homologs contained therein to form addition compounds, and recovering substantially pure pyrrole from the reaction mixture treated with the additional zinc chloride.

2,421,414
VISE SHEARS

George M. Ernst, near Denver, Colo.

Application February 19, 1946, Serial No. 648,681

5 Claims. (Cl. 164—41)



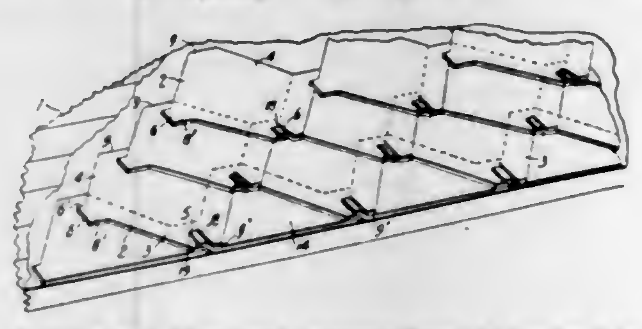
1. A shearing device for use between the jaws of a vise comprising: two shearing plates; a hinge pin acting to maintain said plates in overlapping relation; means on said plates for supporting them between the jaws of the vise; and spring means for urging said plates toward the separated position, there being a notch formed in the upper edge of each plate, said notches aligning with each other when the plates are in the separated position.

2,421,415
SHINGLE

George A. Fasold, Mount Healthy, and Harold W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio

Application October 25, 1944, Serial No. 560,254

6 Claims. (Cl. 108—7)



5. A roofing element comprising a body having oppositely disposed tab portions with side edges diverging from a butt edge, side extensions arranged intermediately of the tabs on opposite sides and a slit vertically disposed in the weather exposed tab through which the side end edge of one of the extensions of an underlying element of a similarly constructed shingle is adapted to be projected for locking down the overlying tab.

2,421,416
CATALYTIC HYDROGENATION OF SUGARS

Leo Aaron Flexser, Elizabeth, N. J., assignor to Hoffman-La Roche, Inc., Roche Park, Nutley, N. J., a corporation of New Jersey

No Drawing. Application August 30, 1944, Serial No. 552,003

10 Claims. (Cl. 260—635)

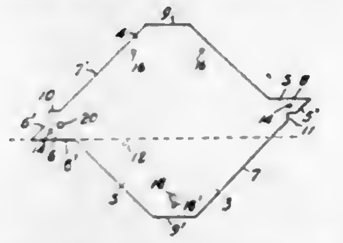
1. The process of catalytically reducing a saccharide which comprises exposing the saccharide in aqueous solution to the action of hydrogen with agitation and heat in the presence of a base metal hydrogenation catalyst and of metallic magnesium in discrete particulate form.

2,421,417
LOCKED DOWN WEATHER SURFACING ELEMENTS

Harold W. Greider, Wyoming, George A. Fasold, Mount Healthy, Ohio, and William C. Bowman, Llanerch, Pa., assignors to The Philip Carey Manufacturing Company, a corporation of Ohio

Application October 25, 1944, Serial No. 560,252

7 Claims. (Cl. 108—7)



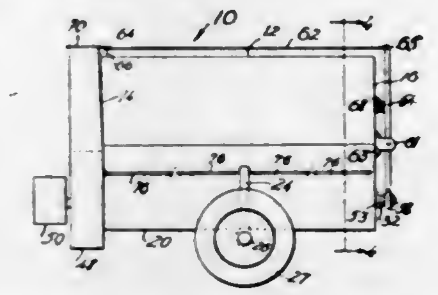
1. A weather surface covering comprising weather surfacing elements in overlapping courses having an aperture formed in a portion of an element which is not exposed to the weather, an aperture in a portion of an element which is exposed to the weather, and a button with preformed spaced apart heads on an intermediate neck projecting through the apertures with the heads engaging opposite faces of adjacent lapped weather elements, said neck portion of the button being substantially of less width than the apertures to allow relative movement between said elements.

2,421,418
TRANSPORT BLOWER

Darwin A. Grossman, Elkhart, Ind.

Application May 1, 1945, Serial No. 591,253

4 Claims. (Cl. 302—50)



1. A device of the character described comprising a body portion having a storage compartment and an auger housing in parallel relation to and in vertical alignment with the storage compartment, supports mounted interiorly of the body and transversely thereof, slides carried by said supports to separate said body into the storage compartment and auger housing, a fan housing of greater cross sectional dimension than said auger housing positioned on said body and communicating with said auger housing, means for delivering material from said auger housing to said fan housing, an outlet on said fan housing for discharging said material therefrom and means mounted on said body for transporting said body.

2,421,419
SOLE TREATING APPARATUS

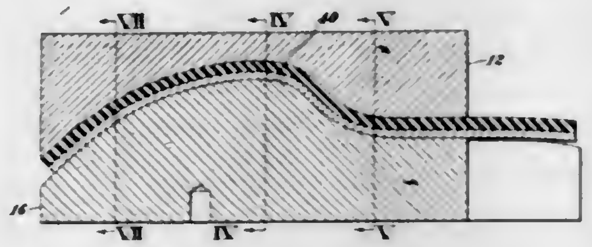
John C. Hardie, Brockton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application December 22, 1945, Serial No. 636,768

3 Claims. (Cl. 12—21)

1. Apparatus for treating soles comprising a pair of forms arranged to act on opposite sides of a sole along its forepart, each of said forms being sharply curved longitudinally in the forepart

and having a substantially flat transverse central portion extending substantially from the ball line to the toe end thereof, said central portion being flanked by marginal portions sharply inclined relatively thereto, the lengthwise curvatures of

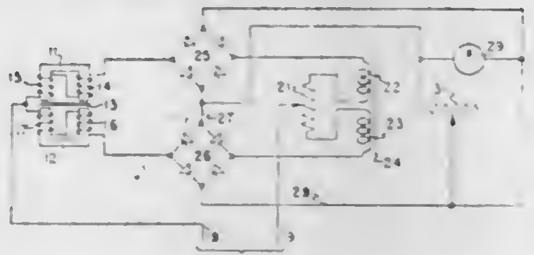


said forms and the inclinations of said marginal portions with respect to the central portion being such that the flexibility of a sole treated between the forms is increased by bending stresses imparted thereto.

2,421,420
ELECTRICAL GAGING APPARATUS

Claude M. Hathaway, Denver, Colo., assignor to Hathaway Instrument Company, a corporation of Colorado

Application November 8, 1943, Serial No. 509,437
7 Claims. (Cl. 177—351)



1. In a strain measuring apparatus, the combination comprising a pair of variable impedances arranged to vary oppositely in accordance with the strain to be indicated, a pair of fixed impedances, a pair of bridge rectifiers, a source of alternating current, means connecting one of said variable impedances in a series circuit with one of said fixed impedances and one diagonal of one of said bridge rectifiers, means connecting the other of said variable impedances in a series circuit with the other one of said fixed impedances and one diagonal of the other one of said bridge rectifiers, means connecting each of said circuits across a source of alternating current, means for balancing the impedances of said circuits, an indicating instrument, and circuit means connecting said instrument and the other diagonals of said rectifiers differentially whereby said instrument will indicate the magnitude and direction of the strain measured.

2,421,421
PROCESS OF TREATING HIGH-MOLECULAR-WEIGHT HYDROCARBONS

Arnold J. Hoiberg, El Dorado, Ark., assignor to Lion Oil Company, a corporation of Delaware

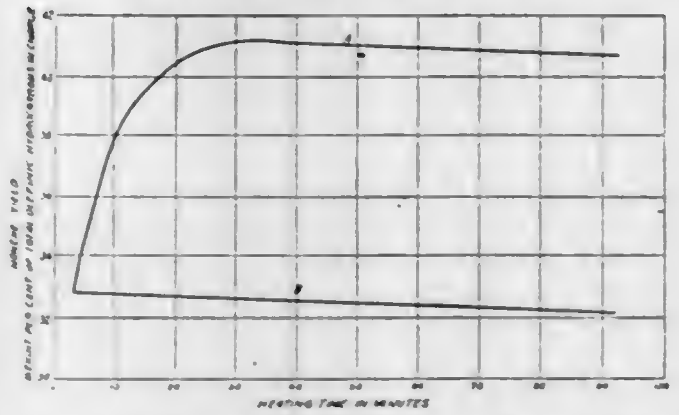
No Drawing. Application May 26, 1944,
Serial No. 537,539
7 Claims. (Cl. 196—74)

1. The method of treating a hydrocarbon of high-molecular-weight to produce an asphaltic product which comprises, blowing said hydrocarbon, in the presence of added portions of a metal halide salt and a finely divided metal, with a gaseous stream containing free oxygen while said hydrocarbon is at an elevated temperature of the order of 400° to 550° F.

2,421,422
INTERPOLYMERIZATION OF ISOBUTENE AND ISOPENTENES IN THE PRESENCE OF SULFURIC ACID

George Chrysler Johnson, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application December 19, 1944, Serial No. 568,856
9 Claims. (Cl. 260—683.15)

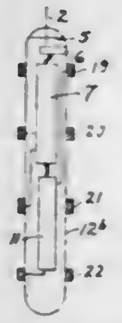


1. A process for obtaining high yields of nonenes, which comprises absorbing isopentenes and isobutene in sulfuric acid in concentrations varying between about 58% and about 66% by weight, at temperatures below about 45° C., to produce an absorption mixture, heating said absorption mixture to a temperature of about 45° C., and then gradually increasing the temperature of said absorption mixture to about 80° C. in a period of time of not less than about 30 minutes.

2,421,423
METHOD AND APPARATUS FOR TAKING PHYSICAL MEASUREMENTS IN BOREHOLES

Shelley Krasnow, Arlington County, Va., assignor to Geophysical Development Corporation, Washington, D. C., a corporation of Delaware

Original application October 29, 1936, Serial No. 108,312. Divided and this application February 15, 1943, Serial No. 475,944
8 Claims. (Cl. 250—83)

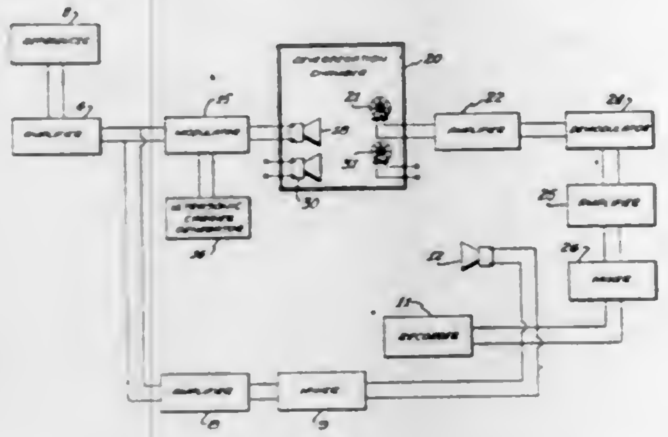


1. In an apparatus for investigation of electrical properties within a deep narrow borehole, a holder of narrow lateral dimensions adapted to be lowered into the said borehole, a system for generating oscillations mounted within said holder, electrodes mounted upon the exterior of the said holder, so as to be in conducting relationship to material within the borehole, means to impress an electro-motive force upon some of the said electrodes, means to sense the resulting electro-motive force in an electrode other than the first named electrodes, the said sensing means being connected to the said other electrode and being adapted to modify the frequency generated by the said oscillator, means to transmit the said modified oscillations to the surface of the earth, and means at the surface of the earth to receive and detect the said oscillations.

2,421,424
REVERBERATION METHOD AND SYSTEM

Barton Kreuzer, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application February 8, 1945, Serial No. 576,812
5 Claims. (Cl. 179—1)

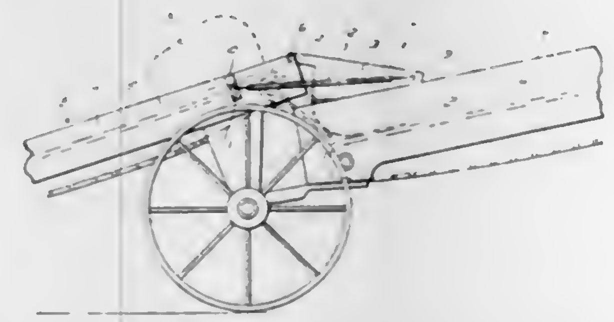


1. A reverberation system comprising a plurality of generators of super audible electrical currents, each current having a different frequency, a plurality of signals in the audio spectrum, a reverberation chamber, means for modulating each of said super audible currents with a respective audio signal, means for simultaneously generating ultrasonic waves from said products of modulation within said chamber, means for translating said reverberated waves into corresponding electrical currents, and a demodulator for each of said electrical currents of different frequency.

2,421,425
RETAINER SHIELD FOR POTATO DIGGERS

Joseph Leszkowicz, Brookhaven, N. Y.

Application January 11, 1946, Serial No. 640,660
3 Claims. (Cl. 198—45)



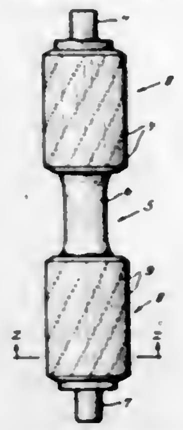
1. In association with potato harvesting machines having a digging conveyor and a picking conveyor, a retainer shield comprising, in combination, a blade, a pivot bolt, and a spring, said blade being connected to the side of one of said conveyors by said pivot bolt, and said spring maintaining said blade against the corresponding side of the remaining of said conveyors.

2,421,426
HEAT DISSIPATING COT FOR TEXTILE ROLLS

Alfred J. Maino, New Bedford, Mass.

Application December 20, 1944, Serial No. 568,988
4 Claims. (Cl. 19—143)

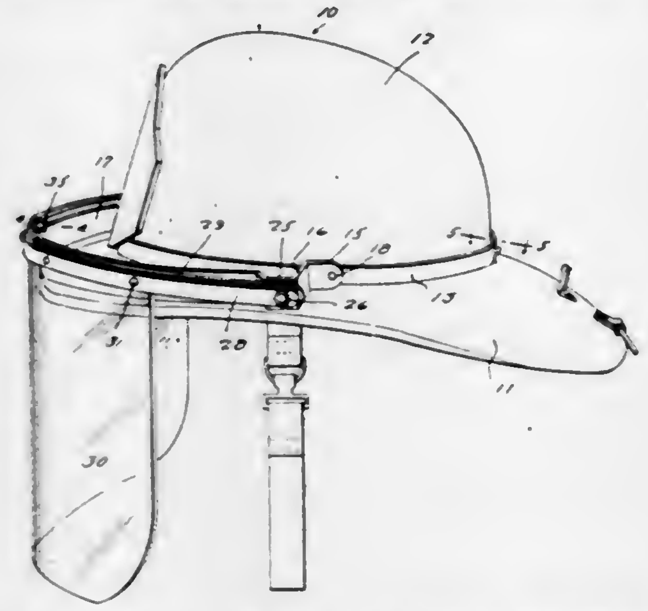
1. A textile roller comprising an arbor and a sleeve-like cot of rubber or rubber-like material mounted on said arbor in surrounding relationship thereto, said cot having numerous heat dissipating openings extending from its inner, arbor-contacting face to its outer face.



2,421,427
FACE PROTECTOR FOR FIRE FIGHTERS

Morris W. Mamlin, Pine Bluff, and Ralph E. Welker, Laurinburg, N. C.

Application December 9, 1944, Serial No. 567,402
4 Claims. (Cl. 2—5)



1. In a device of the character described, in combination, a helmet having a crown and brim, a band surrounding the crown of said helmet, a second band supported by the front portion of the brim and having offset portions secured to said first-mentioned band, a pair of bands having terminal portions pivotally secured to said offset portions, and a transparent visor secured between said pair of bands.

2,421,428
CATALYTIC OXIDATION OF FURFURAL

Erik R. Nielsen, Chicago, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey

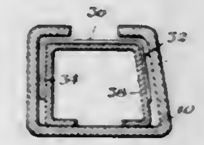
No Drawing. Application May 13, 1944,
Serial No. 535,565
7 Claims. (Cl. 260—342.6)

3. In the production of maleic acid and maleic anhydride by the catalytic oxidation of furfural in the vapor phase at a temperature of about 270° C., the improvement which comprises performing the oxidation in a converting vessel the interior of which is formed of nickel, and oxidizing the furfural in contact with a cured catalytic mix consisting of catalyst, catalyst promoter and catalyst carrier, said catalyst promoter having been produced in situ by the precipitation of iron molybdate by means of the interaction of an

aqueous soluble iron salt with an aqueous soluble molybdate and said catalytic mix being produced by incorporating dry ammonium metavanadate and ammonium molybdate with the said suspension of precipitated iron molybdate, spreading the same on an inert carrier, drying the same thereon and curing the thus coated carrier by the passage thereover of an oxygen-containing gas at a temperature of 280 to 320° C. for a period of about 40 days.

2,421,429
STAPLING MACHINE

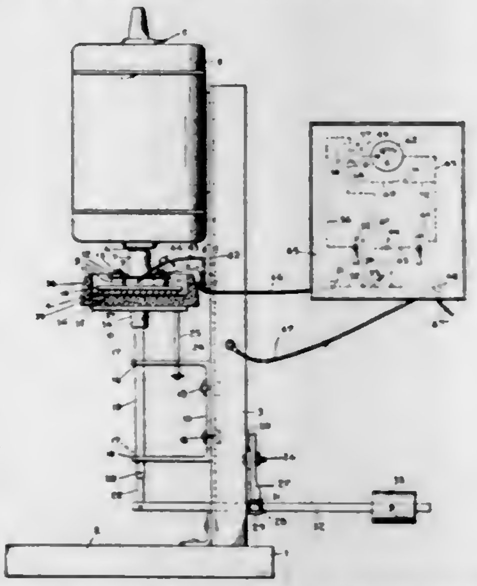
Lou Obstfeld, Brooklyn, N. Y., assignor of one-half to Abraham I. Obstfeld, New York, N. Y.
Original application January 2, 1941, Serial No. 372,699. Divided and this application November 3, 1942, Serial No. 464,365
7 Claims. (Cl. 1—3)



1. A stapling machine comprising a staple magazine having a staple core and outer walls with a staple guide passage therebetween for use with staples having a bridge and an outwardly sloping leg, said passage having an outwardly sloping portion for receiving an outwardly sloping staple leg, the outer wall at said outwardly sloping portion being spaced from said core a distance to limit the extent to which said staple may rotate about its bridge as an axis.

2,421,430
DEVICE FOR TESTING STATIC ACCUMULATING PROPERTIES OF TEXTILE FIBERS

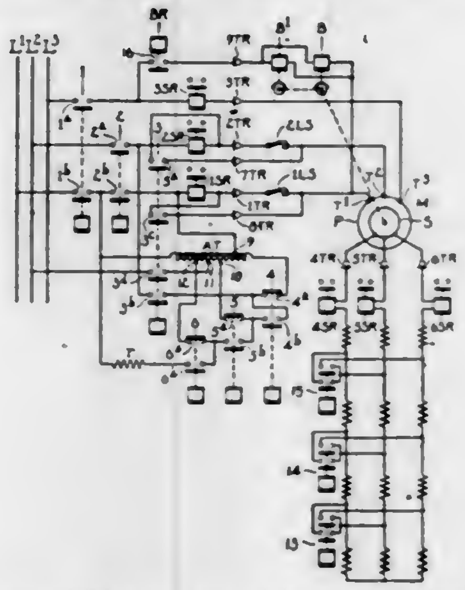
Ralph V. Ott, Narrows, Va., assignor to Celanese Corporation of America, a corporation of Delaware
Application June 17, 1943, Serial No. 491,145
4 Claims. (Cl. 175—183)



1. In a device for testing the electrical conductivity and static accumulating properties of textile fibers wherein there is employed a means for measuring an electric potential, a base for holding a sample of fibers to be tested, a rotatable plate normally out of contact with said base, means for causing said plate to come into contact with the sample of fibers disposed on said base, means for rotating said plate whereby a frictional contact with a sample of fibers is effected, supports on which said plate rotating means is mounted, means for insulating said plate from said means for rotating said plate and means, carried by said support and normally insulated from said base and said rotatable plate, movable into contact with said plate for carrying any charge developed thereon to said measuring means.

2,421,431
CONTROLLER FOR INDUCTION MOTORS

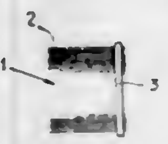
Eric Pell, Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application February 8, 1946, Serial No. 646,382
7 Claims. (Cl. 172—179)



1. In combination, an induction motor, trolley connections for the secondary of said motor, a source of power, means to establish and interrupt connections between said source of power and the primary of said motor, series relays for the motor secondary circuit which function to effect through the medium of said means disconnection of the motor primary upon trolley failures, and means to effect voltage unbalance of the motor primary such as to render said series relays under normal trolley conditions stable during speed changes of said motor to or through synchronous speed.

2,421,432
ARTIFICIAL EYELASH

Festus B. Phillips, Los Angeles, Calif.
Application October 5, 1944, Serial No. 557,270
4 Claims. (Cl. 132—56)



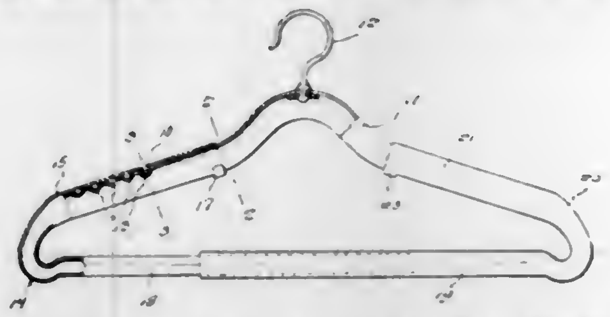
2. An artificial eyelash comprising a base member and being sufficiently flexible to readily conform to the natural eyelid and capable of being adhered thereto by an adhesive; and thread like structures extending from said base member in substantial parallelism with each other; a protective coating around each thread-like structure; and said protective coating and base member being fused to each other.

2,421,433
ADJUSTABLE CLOTHES HANGER

Herbert M. Poole, Sardinia, Ohio
Application December 21, 1945, Serial No. 636,329
2 Claims. (Cl. 223—88)

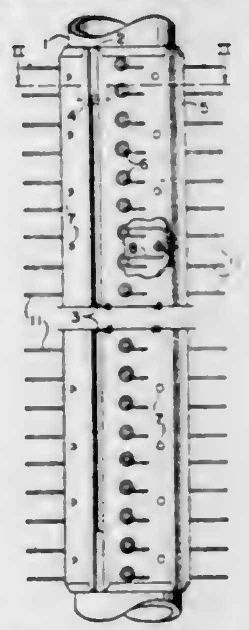
1. A clothes hanger comprising a body member of inverted V-shape in elevation, said body member being substantially of inverted U-shape in cross-section, a hook rotatably secured to said body member at the apex thereof, a first angular

member, said first angular member having an upper portion formed to slidably embrace one arm of said body member and having a tubular horizontal bar member, a second angular member having an upper portion formed to slidably embrace the other arm of said body member and having a sleeve adapted to telescopically receive said tubular bar member, and cooperating means formed on one of said upper portions and its embraced arm for locking said angular members in adjusted positions.



2,421,434
CEMENTING WELLS

Carl E. Reistle, Jr., and George E. Cannon, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
Application November 27, 1944, Serial No. 565,251
5 Claims. (Cl. 166—18)

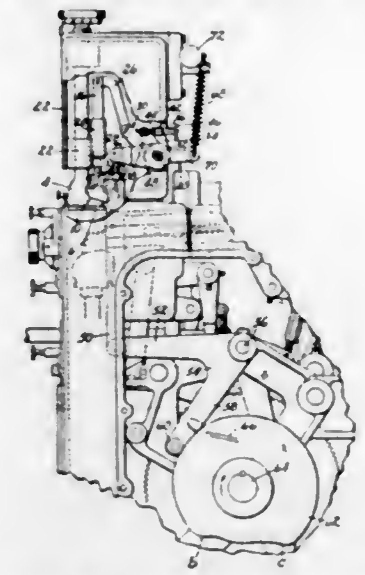


1. A scraping device for well casings comprising an elongated channel member having a longitudinally aligned row of spring fingers.

2,421,435
LASTING MACHINE

Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 6, 1946, Serial No. 652,346
15 Claims. (Cl. 12—14)

1. In a lasting machine, the combination with wipers for wiping an upper about the toe end of a last into lasted position, of a retarder for clamping the marginal portion of the upper outspread on the wipers about the end and along the sides of the toe, a support for said retarder, the retarder being so positioned on said support as to clamp the upper on the wipers first at the end of the toe and being mounted for tipping movement in response to pressure of the upper at the end of the toe thereon into position to clamp it on the wipers also at the sides of the toe, spring means on said support for yieldingly resisting such tipping movement of the retarder and for pressing it on the upper at the end of the toe, and means arranged to engage the retarder substantially as far from the end of the toe as its upper-engaging faces at the sides of the toe extend and by such engagement to press it on the upper at the sides of the toe.



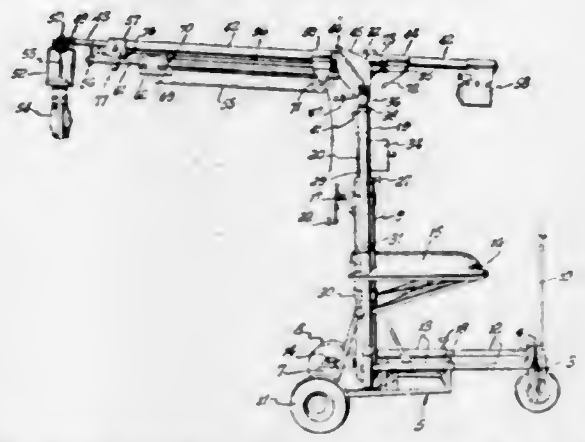
2,421,436
ADHESIVE FOR JOINING OPTICAL ELEMENTS

John T. Rooney, Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association
No Drawing. Application May 3, 1944, Serial No. 533,945
2 Claims. (Cl. 106—173)

1. An adhesive or cement for joining optical elements, said adhesive or cement being transparent, highly adherent to glass and consisting of from approximately 85 to 99 per cent of Canada balsam mixed with approximately one to 15 per cent of ethyl cellulose.

2,421,437
MICROPHONE BOOM

Byron F. Ryan and Elmer H. Smith, Van Nuys, Calif., assignors to Radio Corporation of America, a corporation of Delaware
Application November 10, 1944, Serial No. 562,800
15 Claims. (Cl. 179—152)



7. A microphone boom comprising a vertical standard, a crossarm mounted on top of said standard, said crossarm being adapted to be lengthened and shortened, a counterweight adjustable along said crossarm on one side of said standard, and a second counterweight fixedly mounted on said crossarm on the other side of said standard.

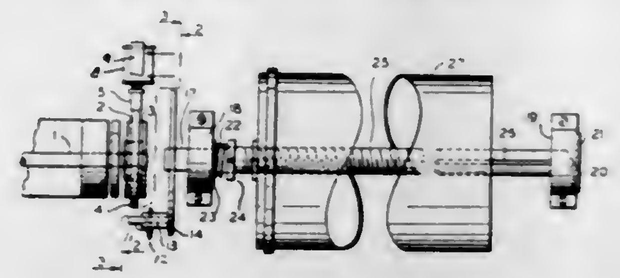
2,421,438

PHASING AND DRIVE-COUPLING ARRANGEMENT FOR FACSIMILE MACHINES

John R. Shonnard, New York, N. Y., assignor to Times Facsimile Corporation, a corporation of New York

Application December 31, 1943, Serial No. 516,341

8 Claims. (Cl. 178—69.5)



1. A phasing arrangement for a telegraph apparatus such as a facsimile scanning drum comprising, a continuously running driving member for said drum, a driving connection between said member and said drum, said connection including a device which can be stopped to allow the drum to continuously coast with relation to said driving member while said device is stopped, said device when released allowing the driving member to impart positive driving force to the drum.

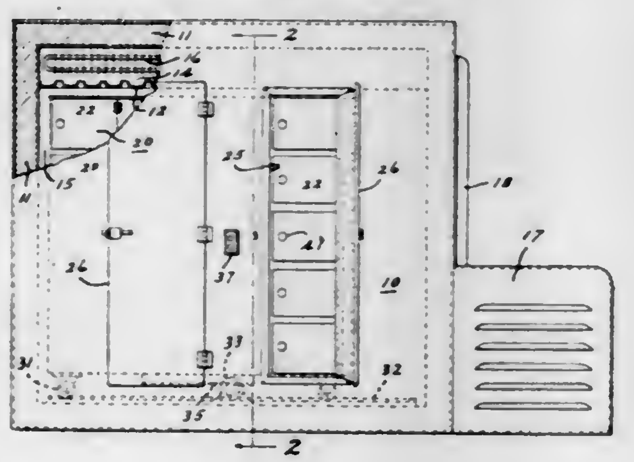
2,421,439

REFRIGERATED CABINET WITH SELECTIVE ACCESS

Jasper A. Smith, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application July 28, 1945, Serial No. 607,599

5 Claims. (Cl. 62—89)



1. A refrigerating apparatus comprising a cabinet including a plurality of insulated walls forming a chamber therein, a refrigerating system associated with said cabinet including means for cooling said chamber, a movable unit within said chamber comprising a plurality of integral tiers of lockers forming horizontal rows thereof, the front of said cabinet having an opening therein, a door for the opening in said cabinet front, the number of tiers of lockers in said chamber being one less than that to fill the horizontal rows of lockers whereby said unit is spaced from an end wall of said chamber a distance substantially equal to the width of a tier of lockers, one of said tiers of lockers being in alignment with the opening in said cabinet front and an adjacent tier of lockers being out of alignment therewith, and means for shifting said unit toward said chamber end wall to move said adjacent tier of lockers into alignment with the opening in said cabinet front and to move said one tier of lockers out of alignment therewith.

2,421,440

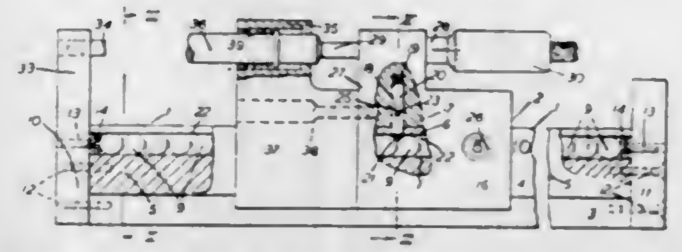
LINEAR MEASURING DEVICE

Christopher Henry Monson Thorpe, Huyton, England, assignor to British Insulated Cables Limited, Prescot, Lancashire, England, a British company

Application March 18, 1943, Serial No. 479,575

In Great Britain April 11, 1942

3 Claims. (Cl. 33—165)



1. A device for accurately adjusting a part of an instrument or mechanism, said device comprising a scale and a carriage movable along said scale, said scale comprising a series of bodies of circular cross-section of the same size, a trough housing said bodies, and means for maintaining them in line in said trough with their curved surfaces in contact with one another, and said carriage comprising a body portion of inverted channel section with a base wall and dependent side walls, which is a sliding fit on said trough, means comprising interengaging surfaces on said trough and said carriage for retaining said carriage on said trough, a spring-pressed detent housed in a recess in said body and engaging between the underlying two of said circular members and locating said carriage with respect to said trough, means for retracting said detent to permit movement of said carriage relative to said trough, an upward extension on said carriage body having a surface extending parallel to said trough, a member in sliding engagement with said surface and means for propelling said member over the last said surface in a direction extending parallel with said trough, means for measuring the relative movement between said sliding member and said carriage, means for acting upon the part of the instrument or mechanism of which the position is to be adjusted, the last said means comprising a second movable member movable with respect to said carriage and in a direction parallel to said trough by the said sliding member, and a spring for pressing together the adjacent ends of the sliding member and the second movable member, whereby to maintain them in contact.

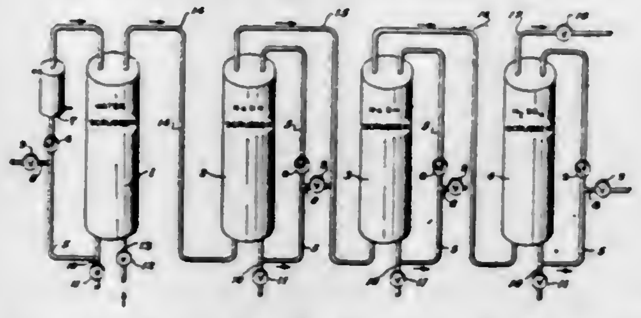
2,421,441

PURIFICATION OF METHYL CHLORIDE

Edgar Allen Thronson, Lewiston, and Arthur Ignatius Mendolia, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 15, 1944, Serial No. 563,550

1 Claim. (Cl. 260—652)



A process for the purification and drying of methyl chloride containing methanol, hydrochloric acid and water which comprises scrubbing said methyl chloride with water having a temperature below 40° C. throughout said scrubbing procedure, subsequently scrubbing the methyl chloride with a plurality of aqueous solutions of sodium hydroxide having succeedingly greater strengths, said solutions having a strength between 3% and 10% and a temperature maintained at all times below 25° C., and thereafter scrubbing the methyl chloride with sulfuric acid of at least 60° Bé.

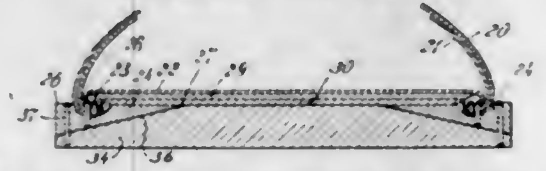
2,421,442

SHOE WITH CHANNELED WELT

Frank J. Tobacco, Staten Island, N. Y.

Application July 28, 1945, Serial No. 607,559

2 Claims. (Cl. 36—17)



1. A shoe which comprises an upper, a sock lining, a welt of generally triangular cross-section lying with its thin edge extending inwardly beneath the sock lining, the welt having a longitudinal channel in its upper face, the edges of the upper and sock lining being turned inwardly and lying within the channel, said edges being secured to the welt through the bottom of the channel, an outer sole skived on its upper face along its edge to provide a sloping surface, the outer sole lying beneath the welt and sock lining with said sloping surface engaging the lower convergent face of the welt, and means for securing the welt to the outer sole.

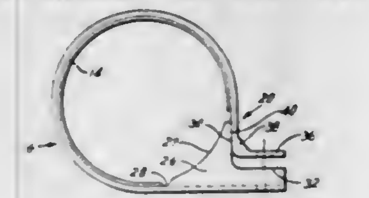
2,421,443

CLAMP

Carel T. Torresen, Santa Monica, Calif.

Application July 13, 1943, Serial No. 494,545

4 Claims. (Cl. 248—74)



1. In a supporting clamp: a metallic strap; a first free end of said strap being substantially straight and provided with a pair of ears bent inwardly at substantially right angles to the plane of said free end; the intermediate portion of said strap having an arcuate form constituting substantially three quarters of a circle; the inner margins of said ears having a periphery complementing the intermediate portion; the outer margins of said ears being substantially straight and tangential to said circle; the second free end of said strap being substantially straight and tangential to said circle and overlying the straight portions of said ears; and bolt receiving means at the extreme ends of said two free ends.

2,421,444

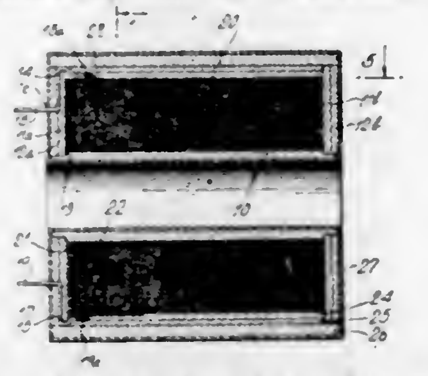
BOBBIN-WOUND COIL

Gertrude H. Tyne, New York, N. Y., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y., a corporation of New York

Application August 5, 1944, Serial No. 548,214

8 Claims. (Cl. 175—21)

1. A device of the character described comprising a wire coil, an insulating enclosure for said coil including a central portion around which said coil is wound, said enclosure consisting in part of a pair of contacting laminae, an electrical lead arranged between said laminae with one end extending into the enclosure and being connected to the coil and the other end extending exteriorly of said enclosure, a passageway between opposite faces of each laminae for receiving the electrical lead, said laminae being sealed together adjacent said lead to retard moisture flow along said lead into the enclosure.



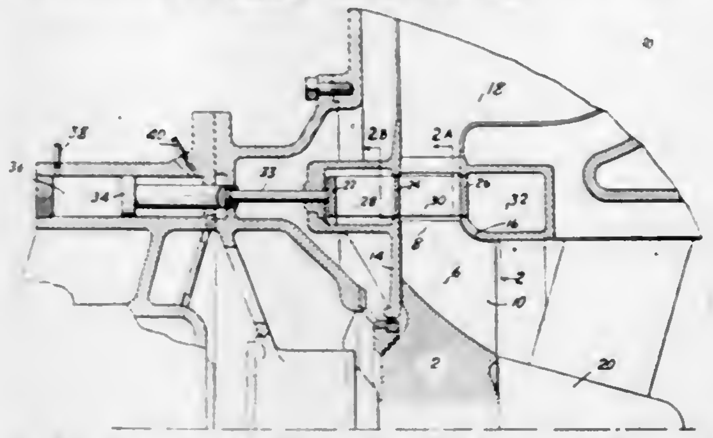
2,421,445

REVERSIBLE GAS TURBINE

Carl R. Waller, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey

Application May 5, 1944, Serial No. 534,219

2 Claims. (Cl. 253—51)



1. In combination, a turbine rotor provided with driving gas passages extending in skew relation to the axis of rotation and providing entrance portions radially outward of discharge portions thereof, and means for providing driving jets of gas to the entrance portions of said passages comprising two sets of nozzles, one set arranged to direct the jets in one direction about the axis of rotation and the other set arranged to direct the jets in the opposite direction about the axis of rotation, and means for moving said sets of nozzles selectively adjacent to the entrance portions of said passages to effect reversal of rotation of said rotor, the sets of nozzles being connected for simultaneous movement and, between their alternative positions, simultaneously directing jets of gas to the entrance portions of said passages to maintain during their movement substantially unchanged the total flow through the nozzles.

2,421,446

STRUCTURAL NAILING MEMBER

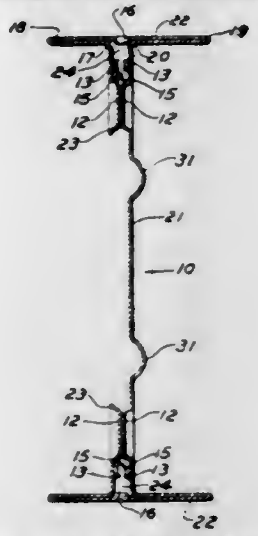
Charles E. Wallis, Wauwatosa, Wis., and James J. Shanley, Grosse Pointe, Mich., assignors to National Steel Corporation, a corporation of Delaware

Application December 2, 1944, Serial No. 566,366

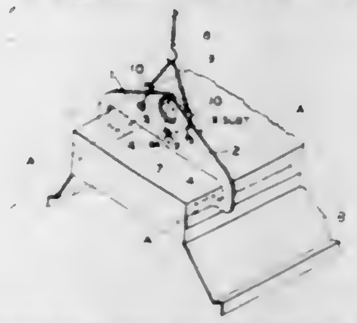
13 Claims. (Cl. 189—37)

1. A structural nailing member for receiving and retainings nails, staples and the like, said

structural member comprising a web element; a flange extending along one side of said web element; a nail guiding element parallel with and spaced from said web element to form a nailing groove therewith; guide means for maintaining a nail driven into said nailing groove normal to said flange, said guide means including a series of nail entering passages in said flange opening into said nailing groove, the wall of each entering passage gripping a nail entering said nailing groove through the passage, and a series of nail gripping bosses formed on one of said elements, each pair of adjacent bosses forming a nail guiding passage substantially in line with one of said entering passages; and means for bending the forward extremity of a nail in the plane of said groove and for holding the same against withdrawal by resistance of the bent nail extremity to straightening, said last mentioned means including a series of nail bending and holding protuberances, each adjacent two protuberances forming a pair of converging nail bending walls therebetween and coacting to bend and hold a nail.



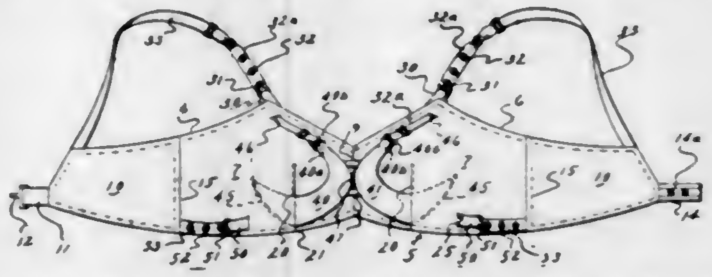
2,421,447
HANGER FOR LIGHTING FIXTURES
Frank W. Watkins, Cleveland, Ohio
Application February 8, 1945, Serial No. 576,885
8 Claims. (Cl. 248—343)



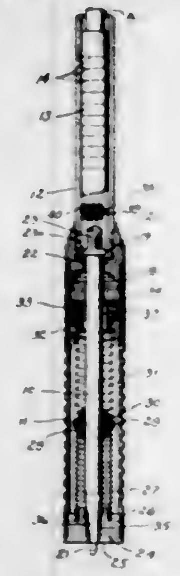
1. In a hanger unit for lighting fixtures, or the like, in combination, complemental hanger members, each comprising a vertical sheet metal-like body, pivotally connected together at their upper inner ends and each member provided with a fixture supporting arm adjacent to its outer end, and means at the lower inner ends of the hanger members for lockingly connecting the same to maintain their outer arms in supporting engagement with a lighting fixture.

2,421,448
BRASSIÈRE
Max Witkower, Los Angeles, Calif.
Application October 22, 1945, Serial No. 623,633
3 Claims. (Cl. 2—42)

1. A brassière comprising a fabric body encircling member having breast covering portions each presenting a slit opening through its bottom edge portion and extending upwardly a substantial distance, said breast covering portions each having an opening spaced laterally outward from said slit, a first anchor strip having fastening means and secured to each breast covering portion in a region spaced laterally outward beyond said opening, and a second anchor strip secured at one end to each breast covering portion laterally inward of each slit and carrying at its other end fastening means for engaging the fastening means of the adjacent first anchor strip, said second anchor strip being adapted to extend through said opening.



2,421,449
HARDNESS MEASURING INSTRUMENT
John G. Zuber, Chicago, Ill.
Application May 18, 1942, Serial No. 443,420
7 Claims. (Cl. 73—81)

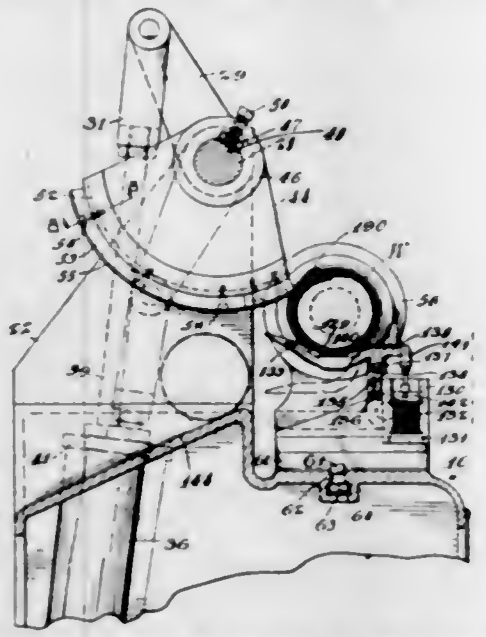


1. In a testing device of the class described, the combination of a holder having a wall with an outer face for engagement with the material to be tested, said wall having a tapered opening therethrough, a testing member in the holder having a tapered portion loosely extending through said opening and terminating in a test prod which normally projects beyond the aforesaid face of said wall, spring means in the holder and against the tension of which the test prod is yieldingly retractable toward the holder, said tapered portion of the testing member and tapered opening being normally out of contact with one another and increasingly separable annularly as the test prod is retracted.

2,421,450
METALWORKING MACHINE FOR ROLLING GROOVES IN CYLINDERS WITHOUT DAMAGING LONGITUDINAL SEAMS
Arthur J. Barrie and Raymond J. Dwyer, Toledo, Ohio, assignors to Acorn Designing Co., Toledo, Ohio, a corporation of Ohio
Application September 15, 1944, Serial No. 554,259
14 Claims. (Cl. 153—73)

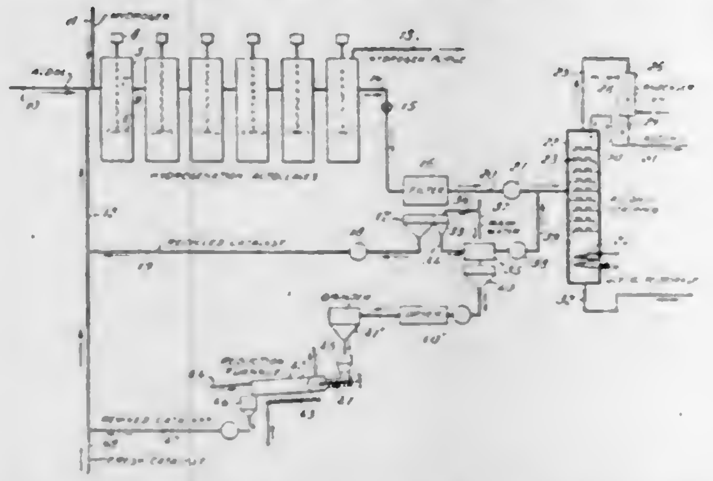
2. In combination, a machine of the character disclosed including a frame; a pair of spaced

mandrels mounted on said frame; a pair of levers associated with the frame and adapted to initially receive and support the work; fluid means for moving said mandrels into engagement with the work for supporting the same during the performance of operations upon the work; and automatic means for controlling said levers to render same ineffective to support the work when the mandrels are in work supporting position.



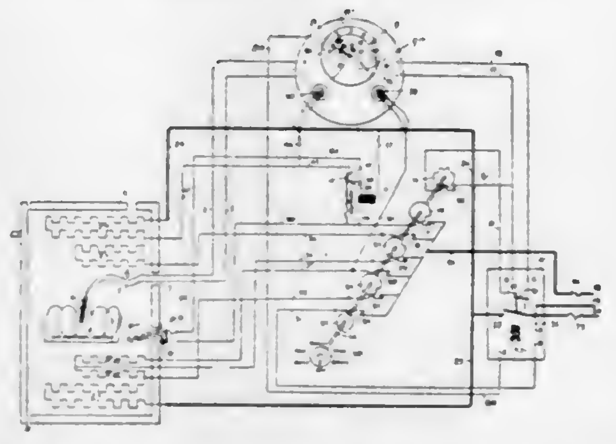
7. In combination, a frame; a pair of mandrels mounted on said frame; means for moving said mandrels longitudinally of said frame to engage a seamed hollow member; a die; a means for oscillating said die for impressing a partial peripheral groove in the unseamed portion of the hollow member; fluid means for actuating said mandrels into and out of engagement with the hollow member; and electrically actuated means for controlling the operation of said fluid means.

2,421,451
PRODUCTION OF 1,3-BUTYLENE GLYCOL
Frederick R. Balcar, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application March 19, 1943, Serial No. 479,771
3 Claims. (Cl. 260—635)



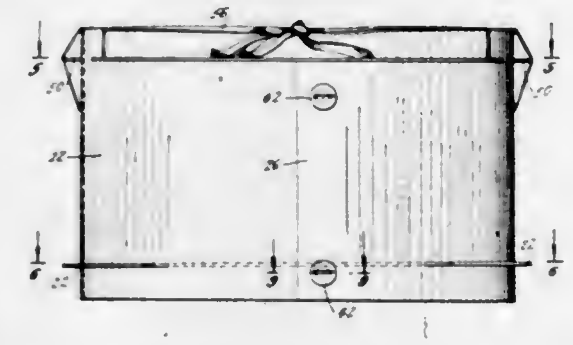
1. The method of continuously converting aldol to 1,3-butylene glycol which comprises substantially continuously causing a mixture of aldol and a hydrogenation catalyst to flow in the presence of hydrogen under an elevated pressure through a succession of chambers each at a higher temperature within the range between 45° and 120° C., agitating the mixture in each chamber, withdrawing the reaction product continuously from the final chamber, separating the catalyst from the reaction product, returning a portion of the catalyst for re-use in the reaction, continuously revivifying the remainder of the catalyst to provide fresh catalyst, and thereafter returning the fresh catalyst for re-use in the reaction.

2,421,452
OVEN CONTROL
Mervin Hornal Cody, London Township, Middlesex County, Ontario, Canada, assignor to General Steel Wares Limited, Montreal, Quebec, Canada, a corporation of Canada
Application December 29, 1944, Serial No. 570,290
11 Claims. (Cl. 219—20)



2. In an electric oven, the combination of a heating circuit, a power switch for said heating circuit, a temperature responsive device having a movable element for opening said power switch when the temperature of said oven reaches a predetermined value and for closing said power switch when the temperature drops below said predetermined value, a preheating circuit also controlled by said power switch, an electromagnetic relay for completing said preheating circuit, said relay having a self-locking energizing circuit whereby said preheating circuit is opened upon the first opening of said power switch and remains open upon the subsequent reclosing of said power switch.

2,421,453
COLLAPSIBLE FIBERBOARD CONTAINER
John Crawshaw, New York, N. Y., assignor of one-half to Bjornulf Johnsen, New York, N. Y.
Application February 15, 1944, Serial No. 522,420
1 Claim. (Cl. 229—41)

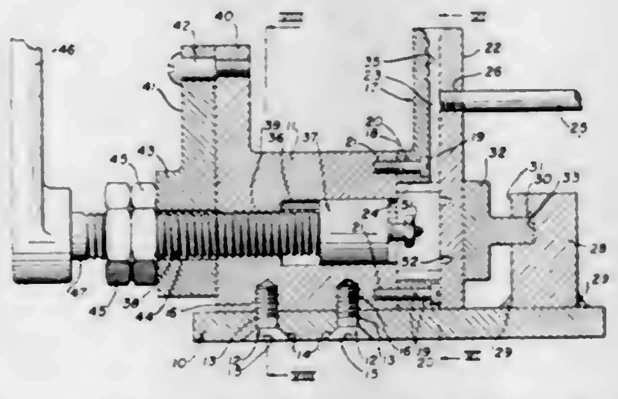


A container blank whereof to form a cylindrical container, said blank comprising a flat sheetlike elongated, substantially rectangular member adapted to form the wall member of the container, said wall member comprising means to removably support the container bottom, said rectangular member comprising a substantially circular bottom portion substantially outwardly of the edge of the wall member and partially severed from the wall portion by curved spaced slots formed in the edge portion of the rectangular member and directed toward one another and whereof the inner ends terminate in the line of the container bottom supporting means, said bottom comprising means coacting with the said means to support the container bottom, the opposite edge of the container wall being formed with spaced tabs, said tabs being formed with slots in the line of the said opposite edge and a cover member formed in its periphery with at least two pairs of notches defining tabs therebetween to be received in the last-named slots.

2,421,454
APPARATUS FOR PRODUCING MOLDING DIES AND THE LIKE

Charles Doering, Henry H. Doering, Eric W. Anderson, and Bertil J. Skoglund, Chicago, Ill.; said Anderson and said Skoglund assignors to said Charles Doering and said Henry H. Doering

Application July 13, 1942, Serial No. 450,770
8 Claims. (Cl. 22—67)

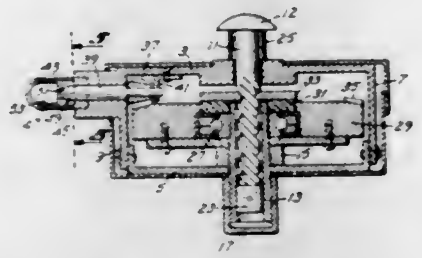


1. In a device of the character described, the combination with a molding chamber, of moveable plunger means complemental to a wall portion of said molding chamber, a threaded stud extension axially associated with said plunger means for positioning in said molding chamber to afford casting a die around a nut, and means for displacing said moveable plunger means relative to said molding chamber to vary the size of said chamber for subjecting the chamber contents while in a fluid state to a substantial pressure.

2,421,455
HAND MOTOR

Pete J. Herold, San Francisco, Calif.

Application August 26, 1944, Serial No. 551,385
5 Claims. (Cl. 74—127)

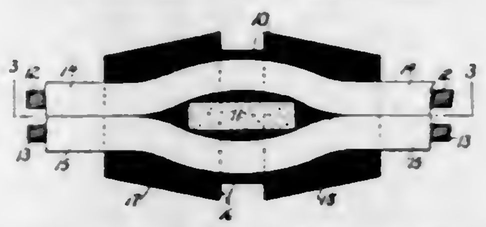


1. A hand motor comprising a frame of a size to fit the hand and having spaced sides, a threaded plunger slidably mounted in said frame, a spring normally biasing said plunger to an extended position, a flywheel supported axially of said plunger for independent rotation with respect thereto and including a centrally mounted clutch element, and a clutch disc threaded on said plunger adjacent said flywheel and adapted to engage said clutch element and spin said flywheel during depression of said plunger.

2,421,456
ANCHOR FOR PLURAL ELECTRIC CONDUCTORS

Carl H. Judisch, Hamden, Conn., assignor to The Whitney Blake Company, Hamden, Conn., a corporation of Connecticut

Application January 13, 1945, Serial No. 572,661
5 Claims. (Cl. 173—322)

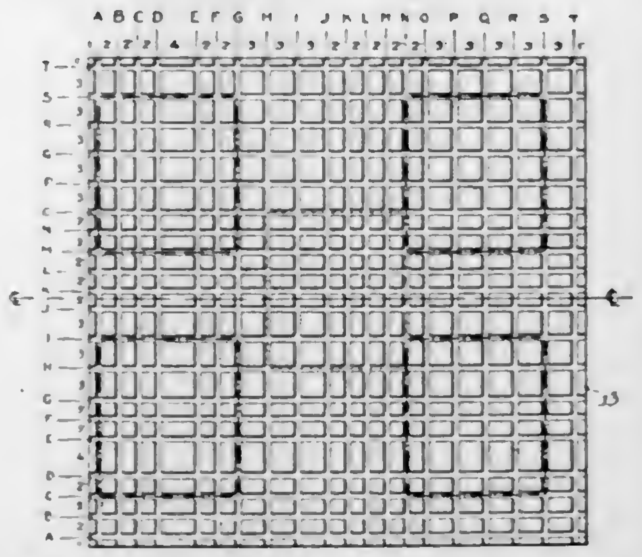


2. In combination, a molded bushing comprising a body-portion having a pair of sinuous conductor passages extending longitudinally therethrough, the corresponding ends of said pair of sinuous passages intersecting at opposite ends respectively of said bushing and the respective portions of said sinuous passages intermediate the opposite ends thereof being spaced apart laterally to form a web therebetween within the body of said bushing, a pair of insulated electric conductors molded in situ in said sinuous passages, each insulated conductor being of a diameter to make continuous peripheral engagement with the walls of its respective passage so as to bind with the walls of said web when said insulated conductors are pulled in the direction of their longitudinal axes; and an indurated-member molded in situ in said web between the laterally spaced portions of said sinuous passages to hold the outer walls of said web spaced apart laterally, whereby said insulated conductors are anchored in said passages against axial displacement with respect to said bushing.

2,421,457
DIE PLATE FOR FLANGING METALLIC SHEETS OF VARIABLE SIZE

Harvey B. Lindsay, Evanston, Ill., assignor, by mesne assignments, to The Lindsay Corporation, Chicago, Ill., a corporation of Illinois

Application March 5, 1945, Serial No. 581,132
18 Claims. (Cl. 153—21)



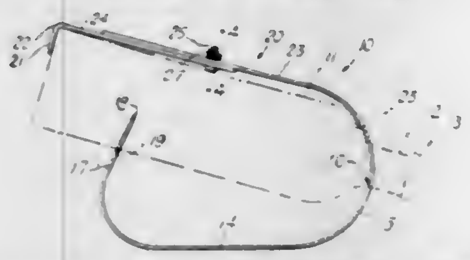
7. In a flange forming apparatus, a pair of rectangular die plates each having two sets of parallel die bar slots intersecting each other on the face of said plate, the center lines of each set of slots being spaced apart at irregularly varying interspersed distances which are either odd or even multiples of a predetermined increment of measurement with a minimum of twice said increment, and the two sets af intersecting slots of each plate being disposed in identical order of spacing so that the slots on one of said plates will register with corresponding slots of the other plate when said plates are presented in opposed mutual relation to each other.

17. A die plate for a flanging press, having two similar sets of die slots therein intersecting each other at right angles and adapted for selectively interchangeable reception of flange-forming die bars, the slots of each of said sets of die slots having their center lines spaced apart at odd and even multiples of one inch, with a minimum of two inches, the respective odd and even spaced slots being arranged in alternate groups transversely of said plate, with odd and even groups on each half of said plate being disposed respectively toward opposite sides of said half.

2,421,458
CLIP LOCK INCLINED BABY BOTTLE HOLDER

Anthony Marino, New York, N. Y.

Application March 19, 1946, Serial No. 655,488
5 Claims. (Cl. 248—105)

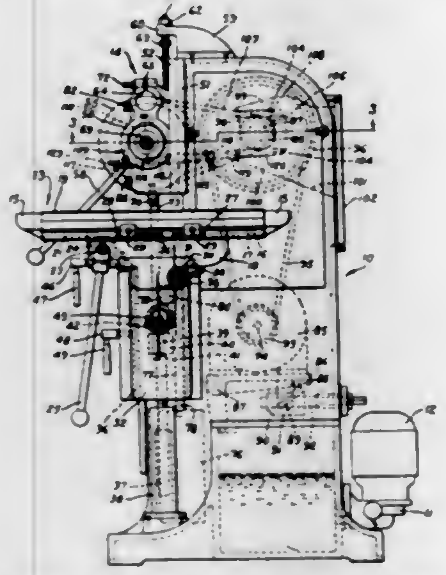


1. A portable device for holding a baby milk bottle or the like in inclined drinking position comprising a base, an upwardly extending front wall connected to the base at one end thereof, a top wall connected at one end to said wall to overlie the base and to incline downwardly toward said wall, and an upright rear wall on the other end of the base, said upwardly extending wall having an opening for receiving the neck of the bottle and the said upright wall serving as a support to hold the bottle against the top wall so as to incline downwardly toward the neck, the device comprising resilient portions whereby the top wall is resiliently urged toward the base so that the bottle is clamped in the said inclined position.

2,421,459
HAND MILLER

Newman M. Marsilius, Bridgeport, Conn.

Application October 17, 1942, Serial No. 462,366
10 Claims. (Cl. 90—15)

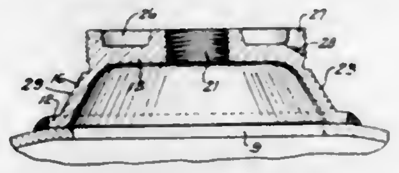


1. In a hand type milling machine, a base, a cutter head, means mounting the cutter head on the base for vertical movements, means for moving the cutter head vertically, a spindle mounted for rotary movement by the cutter head, a motor on the base, a belt drive from the motor to the spindle comprising a shaft, pulleys fixed to the shaft, a belt driving one of the pulleys from the motor, a belt driving the spindle from another of the pulleys, rigid means connecting the shaft and spindle and maintaining them in fixed spaced relation and adapted to impart movement from one to the other, and means mounting the shaft for movement by said rigid means to compensate for the shifting of the center of the spindle as the cutter head is moved vertically.

2,421,460
COMPRESSED GAS CONTAINER

Herman Merker and John L. Graham, Milwaukee, Wis., assignors to Pressed Steel Tank Company, Milwaukee, Wis., a corporation of Wisconsin

Application March 20, 1944, Serial No. 527,156
1 Claim. (Cl. 220—3)

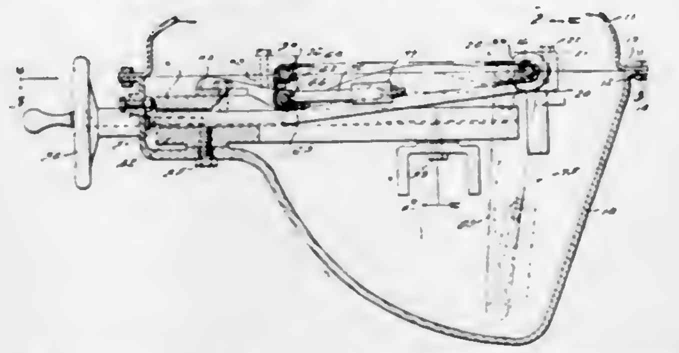


A container for gases under pressure comprising a cylinder having an opening in one end thereof and a combined closure fitting and identification boss mounted on the cylinder about the opening therein, the fitting and boss being formed as a frustum of a hollow cone with an apertured transverse wall across the apex thereof, the wall of the hollow cone being of substantially uniform thickness, and a peripheral flange at the base of the cone attached to the cylinder about the opening therethrough, the inner surface of the closure fitting and boss defining a substantially bowl-shaped cavity surrounding said opening for facilitating drainage of all liquids from the container, said transverse wall having an upstanding cylindrical flange provided with drainage ducts extending therethrough for draining the space above said transverse wall surrounded by said flange.

2,421,461
MULTIPLE SPINDLE MECHANISM

Eugene H. Moak, Port Huron, Mich., assignor to Moak Machine and Tool Co., Port Huron, Mich., a corporation of Michigan

Application August 10, 1945, Serial No. 610,024
12 Claims. (Cl. 74—242.10)

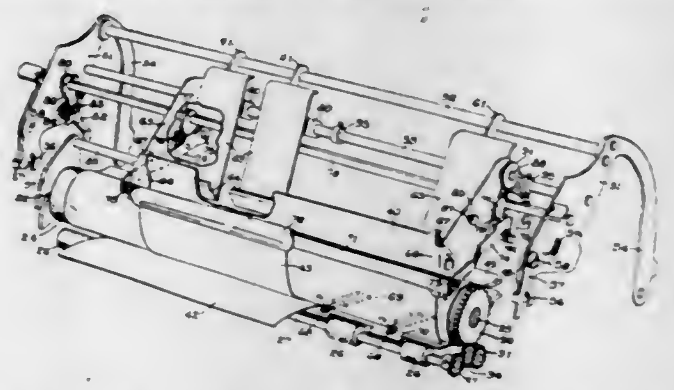


1. A multiple spindle mechanism comprising first and second parallel spindles, bearing means supporting the first spindle, movable bearing means supporting the second spindle so that it may be moved towards and from the first spindle while being maintained parallel thereto, means including a flexible, endless driving element

trained about the spindles for driving one by the other, an idler member about which the element also is trained, and cam means for positively moving the idler member in a direction to take up slack when the second spindle is moved towards the first spindle.

2,421,462
CARBON SHEET HOLDING AND POSITIONING MEANS FOR BUSINESS MACHINES

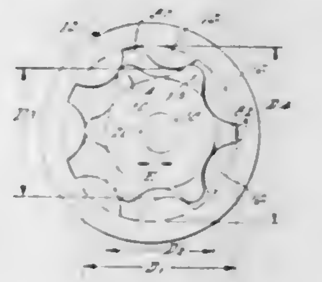
Robert L. Muller, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application January 5, 1946, Serial No. 639,257
4 Claims. (Cl. 197—126)



1. Carbon sheet holding and positioning means for a printing business machine having means to receive front-fed work-forms and support them in printing position, said receiving and holding means having portions movable from front-feed position to printing position and reversely, said carbon sheet holding and positioning means comprising means to releasably hold a carbon sheet by its upper edge portion to suspend it with a portion thereof between impression receiving areas of superposed front-fed work-forms, said holding means being supported for upward and downward movement, means to urge said holding means upwardly, adjustable stop means to limit upward movement of said holding means by said urging means, and means actuated by one of said movable portions of said work-form receiving and holding means upon movement thereof to adjust said stop means to vary the position of said carbon sheet relative to said impression receiving areas.

2,421,463
GEAR ELEMENT

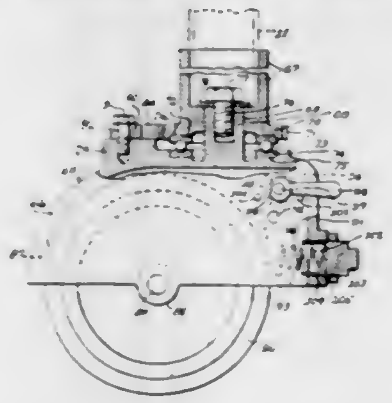
Nicholas Noreyko, Detroit, Mich., assignor to Eaton Manufacturing Company, Detroit, Mich.
Application June 1, 1944, Serial No. 538,300
4 Claims. (Cl. 74—462)



1. In tooth rotors of the class consisting of an inner and an outer rotor one mounted for rotation about an axis eccentric to the other, in which the inner rotor has one less tooth than the outer rotor and teeth of both rotors have substantially continuous contacting relation with respect to each other throughout 360° of rotation of both of said rotors, the combination with said inner rotor of teeth thereon of a cross-sectional configuration taken in a plane perpendicular to the axis of rotation thereof traced by arcs struck from a curve following the path of movement of a point lying within the periphery of a circle which rolls without slippage upon a circle concentric with the axis of the inner rotor and of a diameter greater than the major diameter of the inner rotor, and in which the diameter of the second-mentioned circle has a ratio to the diameter of the first-mentioned circle as the number of teeth on the inner rotor bears to one.

2,421,464
SCAFFOLD CASTER

Leo A. Reiner, Detroit, Mich.
Original application April 30, 1942, Serial No. 441,080, now Patent No. 2,359,583, dated October 3, 1944. Divided and this application February 18, 1944, Serial No. 522,909
2 Claims. (Cl. 16—35)

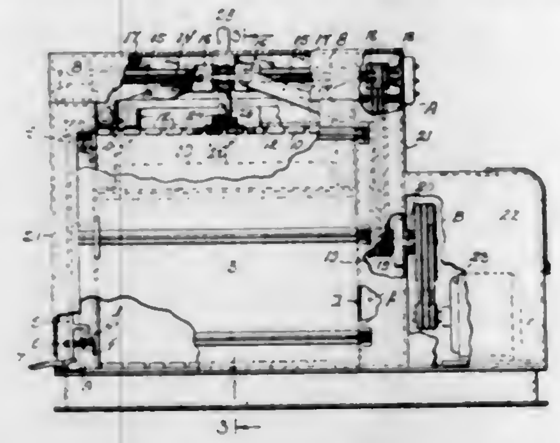


1. A caster, comprising a caster housing having side walls connected by end and top wall portions, a caster wheel axle extending between the side walls, a caster wheel rotatably mounted on said axle with a portion thereof received in said housing, a shaft extending between said side walls, a brake lever pivotally mounted on said shaft, a brake formed on one end of said lever for engaging the peripheral surface of the caster wheel, a rock shaft arranged in spaced parallel relation to said first-mentioned shaft and journaled in the side walls of said caster housing with one end projecting beyond one of said side walls, a cam disc eccentrically mounted on said rock shaft and secured thereto to turn with said shaft, said cam disc being arranged for engaging the opposed end of said brake lever, a manual control lever affixed to said rock shaft to rotate said shaft and thereby move said brake shoe away from said caster wheel, and a coil spring interposed between said wall portion and brake shoe for yieldingly urging said brake shoe into frictional engagement with the peripheral surface of said caster wheel.

2,421,465
BALING PRESS

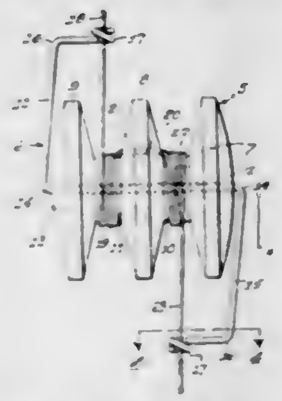
George C. Schley, Milwaukee, Wis.
Application October 12, 1944, Serial No. 558,365
2 Claims. (Cl. 100—8)

1. A baling press comprising a box, oppositely disposed ejecting doors therein, a housing having a filling opening therein secured to the top of the box, a platen reciprocatively mounted in the box embodying an angle iron frame, a panel hinged to the angle iron frame, a locking plunger mounted upon the panel engageable with the angle iron frame, threaded rods journaled in the housing above the sides of the angle iron frame, a pair of nuts mounted upon each rod, guides for the nuts extending from the housing, and pairs of links connecting each nut with an end of the aforesaid angle iron platen frame.



2,421,466
FISHING FLOAT

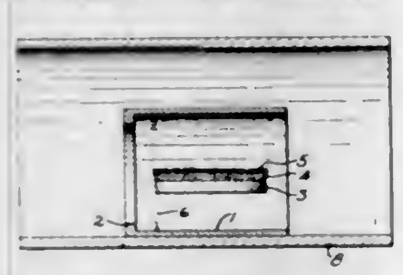
Harold E. Schenavar, Detroit, Mich.
Application September 7, 1945, Serial No. 614,861
1 Claim. (Cl. 43—51)



In combination with a fishing line having a sinker in the free end thereof, a fishing float comprising a cylindrical body portion having a pair of annular recesses to provide side by side line receiving grooves, and a guide frame having line guiding portions for guiding the fishing line into said line receiving grooves whereby said float will assume a position adjacent said sinker during casting of the line and will seek a position along said line after striking the water at a predetermined depth from said float, said frame including a central shaft portion extending through the body portion of said float having oppositely directed arms terminating in guide rings in alignment with the line-receiving grooves.

2,421,467
METHOD FOR DETERMINATION OF GRAPHITIC CARBON

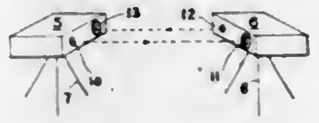
Benjamin F. Scribner, Berkeley, Calif.
Application February 4, 1944, Serial No. 521,154
2 Claims. (Cl. 23—230)



2. The method of determining graphitic carbon which comprises placing a comparatively coarse strainer member horizontally in a tubular casing vertically positioned, said strainer member being of slightly less diameter than the interior of said casing, depositing a filter bed on and around said strainer, turning the axis of the casing to a horizontal position and retaining the plane of the filter bed in a horizontal position so that the axis of said casing passes through the plane of said filter bed, heating the casing and filter bed, and passing oxygen over the filter bed and through the casing at high temperature, whereby particles of carbon adhering to the walls of the casing and to the filter bed may be subjected to the reaction.

2,421,468
SELECTIVE TRANSMITTING, RECEIVING, AND OSCILLATOR CIRCUIT

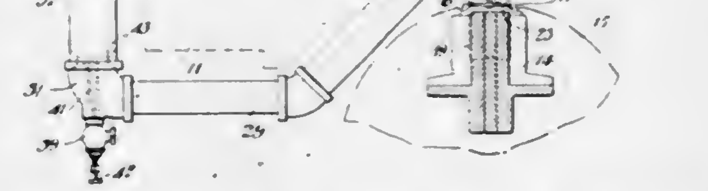
Kurt Singer, North Hollywood, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application August 25, 1944, Serial No. 551,125
9 Claims. (Cl. 250—7)



1. In combination, a plural stage vacuum tube amplifier, a modulator, means for generating electrical currents for amplification by said amplifier and impression on said modulator, a second means for generating electrical currents for actuating said modulator, a tuned circuit, and means for switching said tuned circuit between the input and output of one of said amplifier stages to produce said first mentioned generating means and simultaneously disconnecting said second generating means from said modulator and connecting said amplifier to said modulator.

2,421,469
EXHAUST HOOD FOR WELDING MACHINES

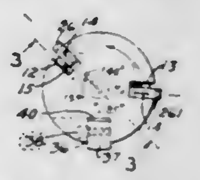
Donald L. Smith, Dunellen, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application October 21, 1944, Serial No. 559,854
5 Claims. (Cl. 113—59)



1. In combination, a seam welding machine for welding metal barrels, tubes or the like including a support for the barrels or the like while being progressed through the welding machine, a bracket overhanging the support in alignment with the seam edges of the barrel or the like to be welded, two sets of mill rolls located in spaced relation to one another along the support, one roll of each set carried on the support to engage the inner surface of the barrel or the like and other roll of the set cooperating with the support roll and carried by the overhanging bracket to engage the outer surface of the barrel or the like, a torch located between said sets of rolls and adapted to direct heating flames upon the barrel seam edges, and an exhaust mecha-

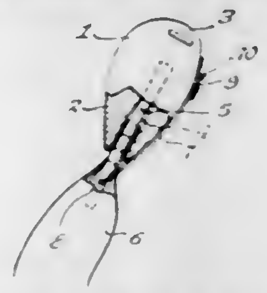
nism for drawing off the products of combustion resulting from the heating operation upon the seam edges comprising an exhaust hood disposed between said sets of mill rolls over the torch tip and supported upon the overhanging bracket, said hood being arched about an axis extending laterally of the machine and having an open end through which the welding operation can be observed a conducting pipe and flue for receiving the products of combustion collected by the hood extending laterally under the bracket and upwardly to provide a chimney by which a natural draft is formed to effect a drawing action upon the products of combustion enveloped by the hood.

2,421,470
HONING DEVICE
Joseph Sunnen, Clayton, Mo.
Application August 20, 1943, Serial No. 499,402
9 Claims. (Cl. 51—184.3)



1. In a hone arbor assembly,, an arbor having a pair of longitudinal grooves therein, said grooves being circumferentially spaced at an angle greater than 120° and less than 180°, hones in said grooves, and non-abrasive guide means carried by said hone arbor at a point angularly spaced from and opposed to said hones in such a position as to balance the working loads applied to the hones in operation.

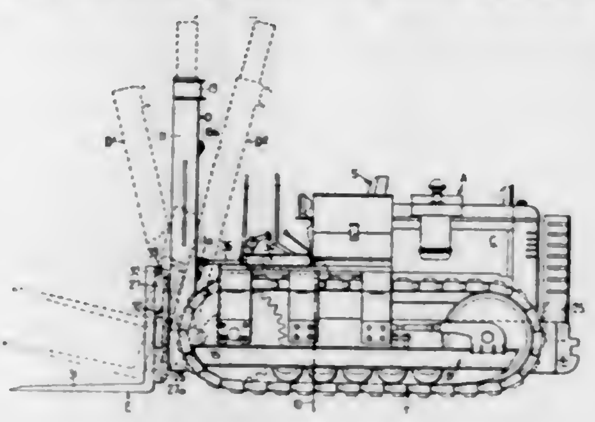
2,421,471
NECKTIE
Alfred F. Taborski, Buffalo, N. Y.
Application August 14, 1946, Serial No. 690,425
8 Claims. (Cl. 2—150)



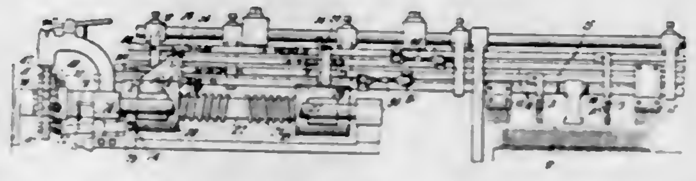
8. In a preformed necktie, a knot portion having an outwardly opening recess, a stiffening pin removably and loosely extending into said recess, and having an outwardly extending end, an ornamental member secured over said extending end of the pin and with the pin extending somewhat into said recess, and an elastic element connected under stress between said pin and said knot portion, to resiliently hold said pin within said recess.

2,421,472
ENDLESS TREAD INDUSTRIAL TRUCK
Glenn W. Way, Delaware, Ohio
Application January 4, 1945, Serial No. 571,339
7 Claims. (Cl. 214—113)

1. An industrial truck comprising a chassis carried by traction means, an upright standard carried by the chassis, said standard comprising an outer frame section and an inner frame section which are in telescoping relationship, said outer frame section comprising a pair of inwardly facing external guide channels which are held in transversely spaced relationship, said inner frame section comprising a pair of inwardly facing internal channels which are held in transversely spaced relationship, said internal channels slidably fitting within and being guided by said external guide channels, a carriage mounted for vertical movement on the standard, said carriage including load-engaging means, said carriage also including rollers which operate between the flanges of said internal channels and rollers which engage the webs thereof to prevent both forward and reverse movement and transverse movement of the carriage relative to the standard, a pair of idler sprockets carried on the upper end of said inner frame section in transversely spaced relationship, a pair of chains passing over said sprockets and having one of their ends anchored to said outer frame section adjacent the lower end thereof and their other end anchored to said carriage, means for sliding the inner frame section relative to the outer frame section to extend and retract the standard vertically and to simultaneously move said carriage vertically in the inner frame section, said means comprising a vertically disposed cylinder and piston unit operatively connected to the inner frame section and to the outer frame section, a pivotal connection for said outer frame section whereby it is pivotally connected to said chassis at the lower end of said frame section, and means for tilting the standard about said pivotal connection, said means comprising a horizontally disposed cylinder and piston unit operatively connected to said chassis and to said outer frame section.

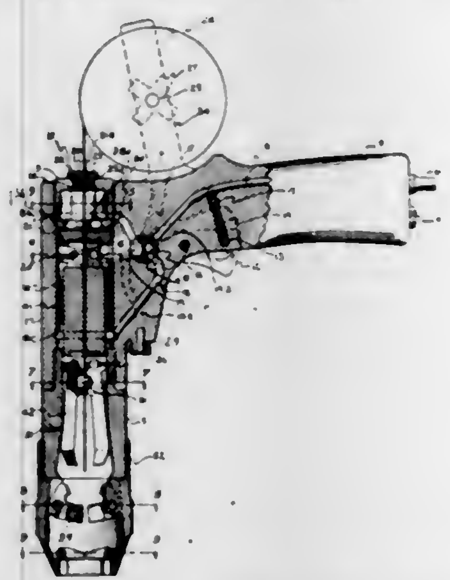


2,421,473
MECHANISM FOR THE FORMATION OF BREATHER OPENINGS IN KNITTED STOCKING FABRICS
William D. White and George W. Graff, Fort Wayne, Ind., assignors to Wayne Knitting Mills, Fort Wayne, Ind., a corporation of Indiana
Application December 6, 1943, Serial No. 513,020
13 Claims. (Cl. 66—89)



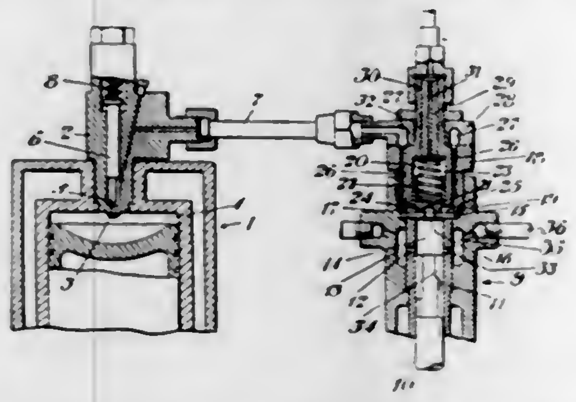
6. In a full-fashioned foot knitting machine, the combination of wide and narrow fingers, narrowing rods therefor, a spindle, narrowing nuts on the spindle for actuating said narrowing rods, pawl and ratchet mechanism for rotating the spindle in both directions with respect to the fabric, means for positioning the wide fingers only out of the knitting field of the fabric, and means for causing said pawl and ratchet mechanism to rotate said spindle equal distances in both directions when the wide fingers are out of the knitting field whereby equal inward and outward movements are imparted to the narrow fingers which lie within the knitting field.

2,421,474
PNEUMATIC NAILING HAMMER
Horace Jules Alter, North Hollywood, Calif.
Application May 4, 1944, Serial No. 534,061
10 Claims. (Cl. 1—51)



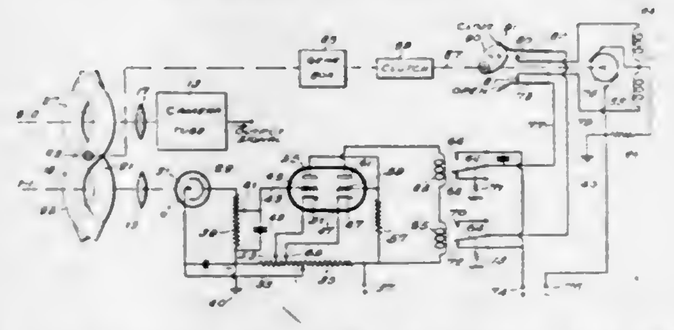
1. A fluid pressure operated tool for making and driving fasteners comprising a casing formed with a bore; means for holding a supply of wire on the casing; a pressure operated plunger reciprocable in the bore; means engageable with the plunger for drawing wire from the supply and feeding it forwardly; a hammer, operated by the plunger; cutters, slidable within the casing and operated by the hammer, for severing a strip of wire; means for pivoting the cutters during their sliding movement to cause them to point the leading end of each successive strip of wire; and means, coacting with said cutting and pointing means, for swaging the trailing end of the strip to form a head thereon and provide a complete fastener, said cutting and pointing means being operated by the hammer to drive the headed fastener from the tool and into the work.

2,421,475
FUEL FEEDING SYSTEM
Louis Beeh, Springfield, Mass.
Application September 5, 1941, Serial No. 409,663
12 Claims. (Cl. 123—139)



1. In a fuel supply system an injection pump including a pump cylinder, a plunger reciprocative within said cylinder, said cylinder being provided with inlet and discharge ports, means for relieving the pressure in said pump chamber in the course of the discharge stroke of said plunger, a discharge valve normally closing said discharge port and operable by the pressure in said pump to open said discharge port, a fuel supply line leading from said discharge valve, an injector having a nozzle orifice connected to said supply line, a pressure operated injection valve for closing said orifice, said discharge valve having a pressure area exposed to the pressure in said supply line effective to bias said valve in an opening direction, whereby the reversal of flow in said supply line upon the release of pressure in said pump acts to maintain said discharge valve in open position to vent fuel from said supply line to the pump side of said discharge valve until the pressure in said line drops to a predetermined value below the pressure required to operate said injection valve.

2,421,476
PHOTOELECTRIC CONTROL APPARATUS FOR DIAPHRAGMS
Herbert Belar, Palmyra, and Emile C. Guedon, Audubon, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 18, 1943, Serial No. 491,344
2 Claims. (Cl. 95—64)

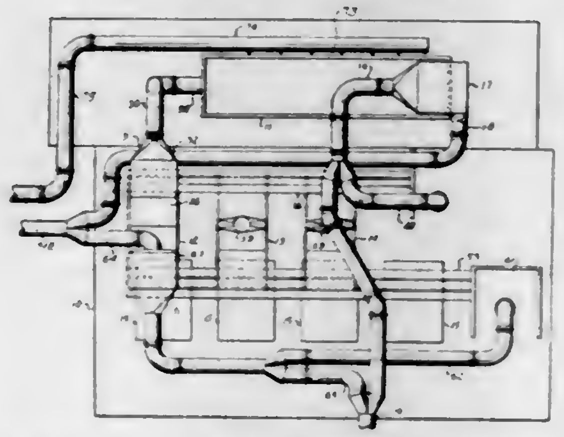


1. An optical system for television apparatus and the like for use in regulating the quantity of light directed to each of an optical image responsive target and a controlling photo-electric tube by way of an optical system arranged to direct substantially like and equally brilliant optical images simultaneously upon each of the target and the photoelectric tube along adjacent optical paths comprising, in combination, a single rotatable multiple section diaphragm element having a plurality of openings with one opening interposed in each of the optical paths for controlling the amount of light impinging upon each of the said image responsive target and photoelectric tube, a reversible motor element, a source of energy connected to said motor to drive the same, means to connect the diaphragm with the motor element to so operate the said diaphragm as to move it in the direction toward a maximum opening to pass greater light along each optical path with one direction of motor rotation and to move it toward the direction of the minimum opening to reduce the light along each optical path with motor rotation in the opposite direction, a pair of serially connected relay elements connected to respond to the current flow through the photoelectric control tube, one of said relays being connected to respond to current output levels to the photoelectric tube above a predetermined minimum value and the other of said relays being set to respond, jointly with the first-named relay, to current output levels exceeding a selected maximum value, electrical connections between the source and the motor through said relays so that current output levels from the photoelectric tube below the selected minimum response level of one of the relays causes the current to be supplied from the source to the motor to rotate it in a direction to

open the diaphragm to admit a greater quantity of light upon each of the target and the photoelectric control tube and for current output levels from the photoelectric control tube greater than the selected maximum relay response level of the other relay a current is supplied from the source to the motor in a direction to so rotate it as to move the diaphragm in the direction of closure and to reduce the light reaching the target and the photoelectric tube and further electrical connections provided by the said relays and effected at time periods when the photoelectric control tube output currents are of a value intermediate the selected maximum and minimum relay response levels to interrupt and break the connection between the energy source and the motor to arrest motor rotation.

2,421,477
METHOD AND SYSTEM OF CONDITIONING FIBER

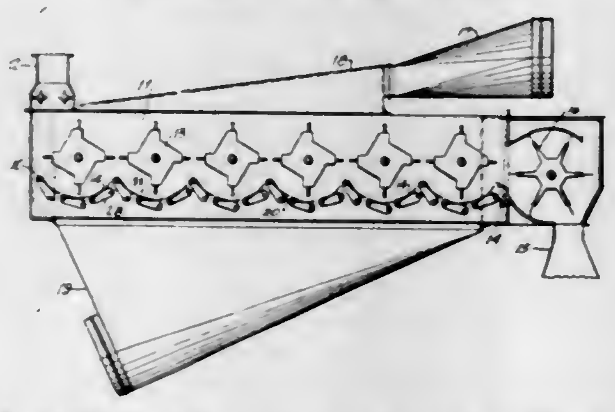
John Blewett, Dallas, Tex., assignor to The Murray Company, Dallas, Tex.
Application December 21, 1943, Serial No. 515,094
8 Claims. (Cl. 19—66)



6. The method of treating gathered cotton mixtures containing seed cotton, trash and green leaves which includes, conveying and subjecting the mixture to a heated air current only sufficient to wilt the green leaves and render them soft and flexible, then progressively cleaning the cotton while moving the wilted green leaves therewith and extracting the trash and wilted green leaves from the mixture substantially without disintegrating said leaves, and carrying off the seed cotton.

2,421,478
FIBER CONDITIONER

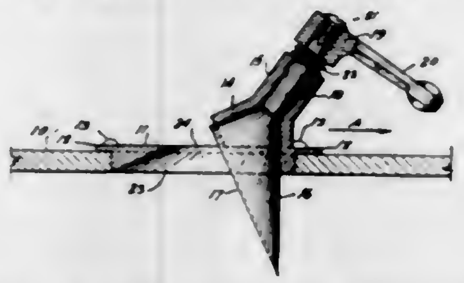
John Blewett, Dallas, Tex., assignor to The Murray Company, Dallas, Tex.
Application December 21, 1943, Serial No. 515,095
4 Claims. (Cl. 19—93)



1. A cleaner for cotton admixed with green leaves including, an elongate cleaning chamber open longitudinally throughout the major portion of its top, grate-type arcuate cleaning surfaces disposed in transverse parallel rows longitudinally along the bottom of said chamber, revolving cleaners disposed in the chamber transversely of and above the rows of cleaning surfaces, a major portion of said cylinders being below the top opening, and means for directing a current of air downwardly into the chamber from said top opening onto and between said cylinders for urging extraneous matter through said surfaces.

2,421,479
BILGE DRAIN FOR BOATS

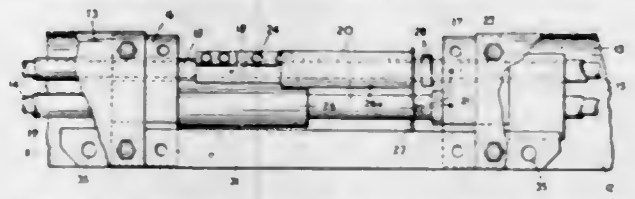
Claude L. Bunten, Rawlins, Wyo.
Application May 21, 1946, Serial No. 671,288
3 Claims. (Cl. 114—185)



1. A bilge draining device for boats comprising: a plate arranged to be inset in the bottom of a boat flush with the outer surface thereof; a conical valve seat extending upwardly from said bottom surface into said plate at an angle to the vertical; a conical valve seated in said seat, the axis of said valve corresponding to the inclined axis of the seat, the bottom of said valve, when in one position, being in alignment with the bottom of said plate, the incline of said conical valve providing a long and a short side thereon; a throat opening formed in the upper side of said plate and communicating with said valve seat; and means for rotating said valve so that the long side thereof may cover said throat, and so that the short side thereof may expose said throat.

2,421,480
JOINT FOR SECTIONALIZED ELECTRIC DISTRIBUTION SYSTEMS

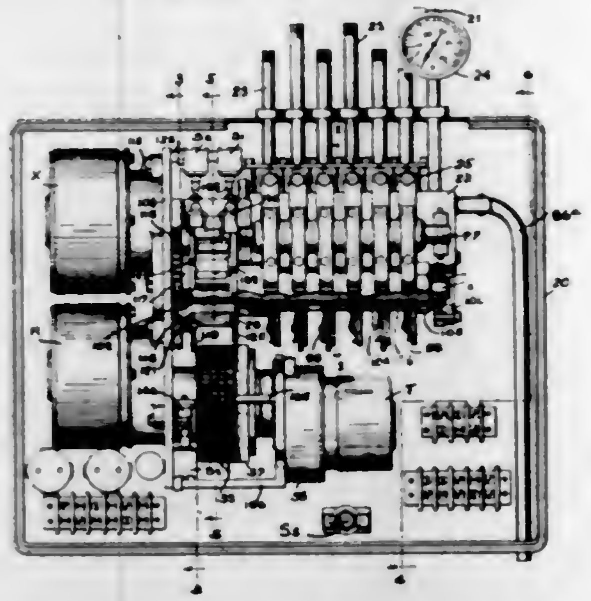
John Ernest Percival Burge, Coventry, England, assignor to Humber Limited, Coventry, England
Application March 1, 1946, Serial No. 651,141
In Great Britain May 18, 1945
6 Claims. (Cl. 174—88)



1. Means for electrically and mechanically joining to one another, in a detachable manner, the adjacent ends of two sections of an electric distribution system, comprising an insulating block at that end of each section which is adjacent to the other section, a plurality of conductors, to be appropriately joined together, extending from each insulating block, insulating means for enclosing the extending conductors except at their adjacent ends, clamps uniting the adjacent ends of the appropriate conductors of both sections, slidable insulating means round said clamps, a cover for the joint between the two sections, means for securing said cover to the adjacent ends of said sections, and interlocking means between said cover and said slidable insulating means.

2,421,481
SEQUENCE CONTROLLER

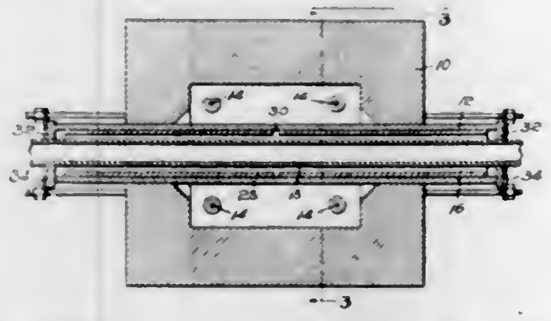
John E. Collins, Akron, Ohio, assignor to The Sinclair-Collins Valve Company, Akron, Ohio, a corporation of Ohio
Application September 7, 1944, Serial No. 552,975
6 Claims. (Cl. 161—7)



3. Control mechanism for operating a plurality of control devices, comprising a rotatable operating member provided with actuators distributed around its axis and arranged during several steps of one complete rotation to actuate said devices in sequence to complete a cycle of operations controlled thereby, an indexing motor for intermittently rotating said member rapidly by successive steps, and a rotatable trip shaft having a series of trips distributed around its axis each arranged during shaft rotation to initiate operation of said indexing motor, and timing motor means for rotating said shaft continuously during each cycle, and a reset motor for rapidly rotating said trip shaft to restore it to initial position and differential mechanism connecting said timing and reset motors to said trip shaft for operation by either thereof, and means preventing operation of either of said timing and reset motors when the other is operating.

2,421,482
FURNACE

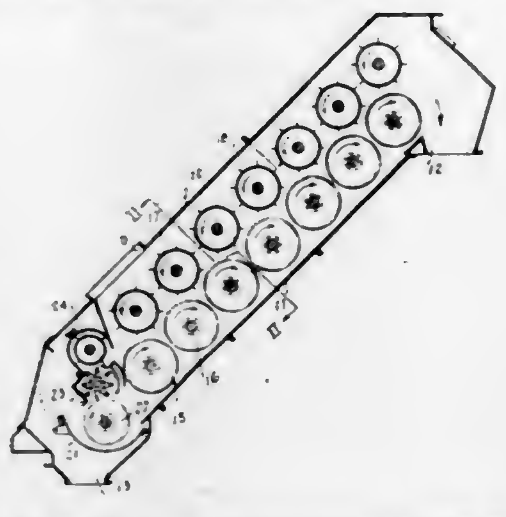
Percival B. Crocker, Foxboro, Mass., assignor to The Sentry Company, Foxboro, Mass., a corporation of Massachusetts
Application September 20, 1944, Serial No. 554,905
4 Claims. (Cl. 263—41)



3. A furnace of the class described comprising an enclosure which is divided by a refractory tube extending between opposite walls thereof into an outer chamber in which heat is developed and an inner chamber, a metal tube extending through said inner chamber to provide a work-treating chamber in which work may be heated in a suitable atmosphere, means for sealing the ends of said inner chamber about the metal tube, and a lining for the refractory tube comprising one or more movable sleeves of carbon slidably fitting the same, from which lining is generated within the refractory tube and about the metal tube a stagnant atmosphere consisting substantially of nitrogen and oxides of carbon and substantially neutral to the metal.

2,421,483
COTTON CLEANER

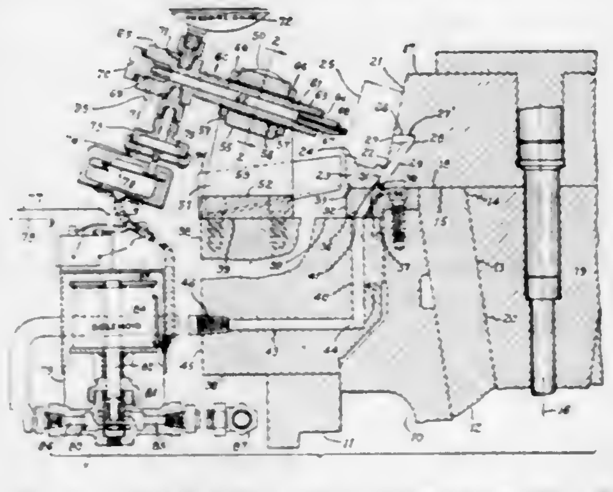
Frank E. Deems and Algernon L. Smith, Birmingham, Ala., assignors to Continental Gin Company, a corporation of Delaware
Application December 28, 1944, Serial No. 570,119
8 Claims. (Cl. 19—93)



1. A cotton cleaner comprising a row of rotary cleaning cylinders each comprising a multiplicity of thin plates spaced to support the cotton and to allow foreign matter removed therefrom to pass down between the plates, means to feed cotton to be cleaned onto the upper surface of the row of cleaning cylinders near one end thereof, means to collect the foreign matter passing between the plates, a reclaiming saw cylinder disposed to act on the foreign matter and reclaim cotton therefrom, said collecting means directing the foreign matter to the reclaiming saw cylinder, and means to remove cotton from the reclaiming saw cylinder and return it to the upper surface of the row of cleaning cylinders.

2,421,484
PNEUMATIC GAGING MACHINE FOR SELECTING ROLLS ACCORDING TO SIZE

Blaise L. Diamond, Detroit, Mich., assignor to Tyson Bearing Corporation, Massillon, Ohio, a corporation of Delaware
Application May 26, 1945, Serial No. 596,016
13 Claims. (Cl. 209—82)



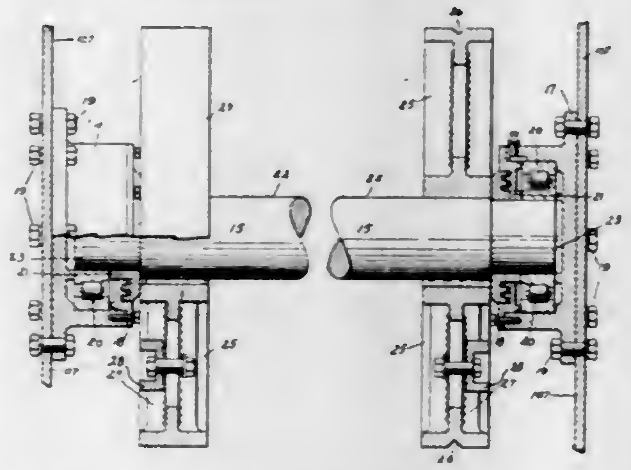
11. In a roll gauging machine and the like, a plurality of laterally connected roll seats, each

roll seat including a roll side support and a lower roll end support, means for transporting the roll seats successively past a gauging station, a gauging nozzle at the gauging station, the gauging nozzle including a chamber and a chamber discharge opening directed across the paths of the roll seat end supports and towards the paths of the roll seat side supports, means for supplying fluid under pressure into the gauging nozzle chamber so that a fluid jet is discharged from the nozzle chamber discharge opening, differential pressure operated means communicatingly connected with the gauging nozzle chamber, and means for ejecting a roll from each roll seat, the roll ejecting means being actuated by the differential pressure operated means.

2,421,485
VIBRATING APPARATUS

Thomas Aloysius Dillon, Toronto, Ontario, Canada, assignor to Dillon Patents Limited, Toronto, Ontario, Canada, a corporation of Canada.

Application March 31, 1941, Serial No. 386,093
In Great Britain December 6, 1939
3 Claims. (Cl. 74—61)



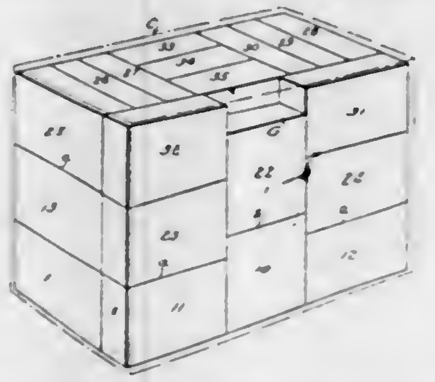
1. A vibrating system arranged for movement relative to a quiescent axis of rotation and comprising a body to be vibrated; rotating means for vibrating said body in a vertical plane including a shaft journalled in bearings in said body, said rotating means being supported solely by said bearings and the centre of mass of said rotating means being eccentric to said bearings and to the axis of rotation of said vibrating system and at least a portion of said shaft being concentric with the axis of rotation of said vibrating system at operative speeds; and rotary driving means concentrically mounted on said concentric shaft portion, the axis of said driving means being eccentric to the axis of said bearings and substantially coincident with said axis of rotation of said vibrating system; and yielding means for supporting said body.

2,421,486
PACKAGE OF CARTRIDGE BOXES

Frank H. Dittmar, St. Louis, Mo., assignor to United States of America, as represented by the Secretary of War

Application March 15, 1944, Serial No. 526,595
1 Claim. (Cl. 206—46)

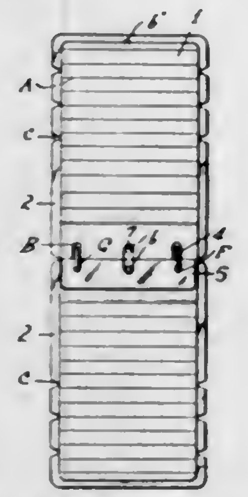
A package of the type described comprising a rectangular parallelopipedic container of three unequal dimensions and rectangular parallelopipedic boxes of three unlike dimensions therein and a zone of boxes snugly arranged in the container, the boxes having a length and depth constituting the long and short dimensions of the box, the depth being slightly less than one third of the length, the box also having a width which is less than the length, the height of the container equaling three times the width of one box, the width of the container being equal to the length of one box plus its depth, and the length of the container equaling twice the length of a box plus the width of a box, the zone of boxes arranged in the container comprising at each end of the container and on the same side thereof a tier of three boxes arranged with their width extending vertically and their longitudinal dimension extending longitudinally of the container, rearwardly from each of these tiers and in abutting relation therewith extend three tiers of three boxes each, arranged with their longitudinal dimension extending parallel with the short dimension of the container and the width of the box extending vertically, between the first named tiers of boxes at the ends of the container is arranged a tier of two boxes with their longitudinal dimension extending vertically and their width extending longitudinally of the container, rearwardly of the last named tier are arranged three tiers of three boxes each, positioned with their longitudinal dimension extending longitudinally of the container and their width extending vertically whereby an empty volume occurs over the intermediate front tier to expose a portion of the top foremost one of the medially located boxes to facilitate withdrawal thereof.



2,421,487
NOTEBOOK

Herbert F. Dyck, Wichita, Kans.

Application December 8, 1945, Serial No. 633,601
1 Claim. (Cl. 129—1)

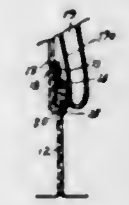


In a notebook, a plurality of dual leaves of suitable length and width, the leaves to fold back on themselves with respect to their length, said leaves having a pair of slots, the slots being of suitable length to extend each way across the folding point of the leaves whereby U-shaped openings are provided when lapped back on themselves, each of said slots being adjacent its respective terminal width of the dual leaves, a pair of solid rings to engage in the slots, an apertured retaining strip, the length of which is equal to that of the width of the dual leaves, and the said strip being of suitable width and thickness and adapted to seat edgewise on the dual leaves at the folding point, the strip being slit from its seating edge to enter the apertures as means to insert the rings in the apertures of the retaining strip, whereby a plurality of dual leaves may be removably retained together as stacked, a pair of flexible transparent covers for their respective sides of the dual leaves when the latter is lapped back on themselves, the ends of said covers being apertured to register with their respective slots and means through which the solid rings are insertible to engage in the apertures, said retaining strip and covers co-acting to retain the dual leaves to engagement with the rings.

2,421,488
GARMENT POCKET

Morris A. Einbinder, Denver, Colo.

Application February 23, 1946, Serial No. 649,566
5 Claims. (Cl. 2—247)

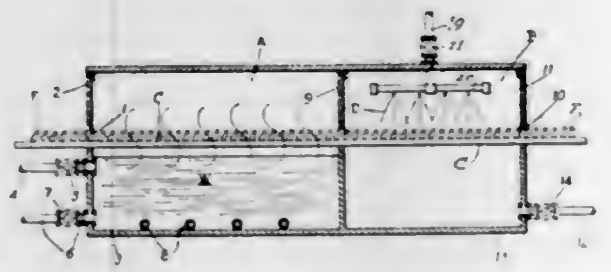


1. The method of making a garment pocket having a "patch pocket" appearance which comprises, sewing to the inside of the garment material a flat tape, substantially outlining the size and shape of the pocket, by a row of stitches along the center line thereof, folding the garment material outwardly along the stitches, stitching the folded garment material parallel with the first row of stitches, folding the tape upon itself along the first mentioned row of stitches, inserting the edge of a piece of cloth, which is to form the inside of the pocket, between the two sides of the folded tape, and stitching through the folded tape, the material between the two sides thereof and through the part of garment material on the inside of and parallel with the two above mentioned rows of stitches, thereby outlining an area which, viewed from the outside of the garment material, has the appearance of a patch pocket.

2,421,489
METHOD FOR PROCESSING FIGS

William F. Elliott, Merced, Calif.

Application July 21, 1944, Serial No. 546,011
2 Claims. (Cl. 99—103)

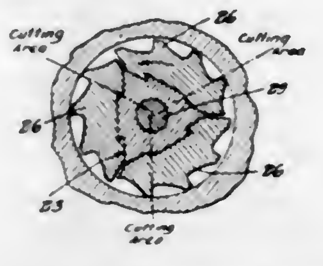


1. A method of processing figs including the steps of heating a body of water to a temperature of less than 212° Fahrenheit so as to preclude formation of live steam, confining the heated water vapors rising from the body of water in a zone above the latter, and conveying figs through the zone of the confined heated water vapors with the figs out of contact with the body of water, all in the absence of live steam in the zone.

2,421,490
METAL REMOVING TOOL

William H. Evans, Chicago, Ill.

Application August 2, 1943, Serial No. 497,035
7 Claims. (Cl. 77—75.5)

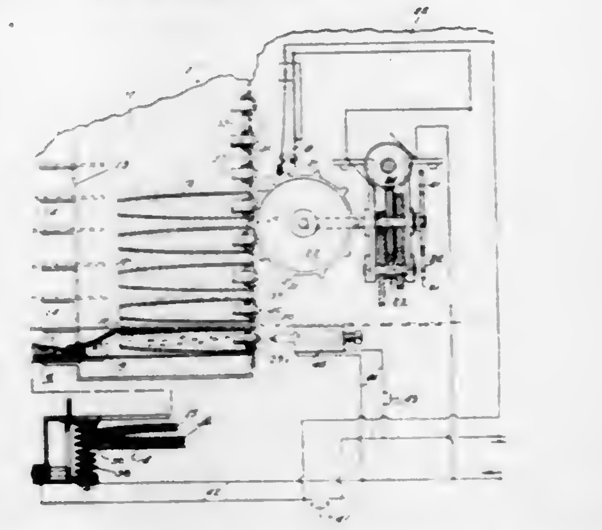


1. In an expansion reamer, a mandrel having tapered segment supporting surfaces, each such supporting surface having a V-shaped projection located near an edge of the surface which is leading with respect to the direction of rotation of the reamer during a reaming operation, cutting segments with spiral cutting edges adapted to be supported on the tapered surfaces, each cutting segment having a V-shaped slot near its edge which is leading with respect to the direction of rotation of the reamer for engaging over the hook-like projection on the tapered surface, whereby to provide hook-like surface to surface connections between the segments and mandrel having the effect of drawing the segments tightly against the mandrel during a reaming operation, an external retainer, an internal retainer, and means for supporting said retainers on the mandrel, said retainers and segments having mutually engaging bevelled surfaces.

2,421,491
SIGNAL FLARE MAGAZINE AND CASTER

John A. Gearon and Edward Gearon, Chicago, Ill.

Application December 26, 1944, Serial No. 569,899
3 Claims. (Cl. 89—1)

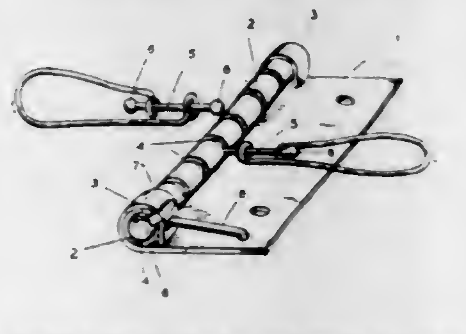


1. A signal flare device comprising a housing having front and rear compartments, said front compartment having an opening in its bottom portion, a rack movable within said front compartment, said rack having a back and a plurality of vertically spaced shelves, a plurality of spaced

barrels attached to said back, a plurality of flares, each of said flares having a folded body portion, a flare load of ignitible illuminating material attached to said body portion, and an integral hollow handle, said body portion having an opening leading to said flare load, said shelves receiving the body portions of the flares, and said barrels receiving the hollow handles of the flares, the back of said rack having a plurality of spaced openings, a pair of gears driven by a motor positioned within said rear compartment, said gears having teeth engaging said openings and move said rack downwardly through the opening in the bottom portion of said front compartment and means attached to said front compartment at its bottom portion for contacting the flare load of the lowermost flare through the opening in the body portion thereof for igniting the flare.

2,421,492
KEY HOLDER PLATE

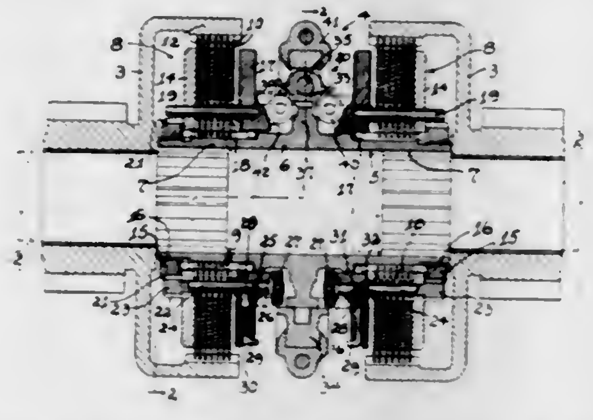
Isaac Geller, Portland, Oreg.
Application May 15, 1945, Serial No. 593,885
3 Claims. (Cl. 70—456)



1. A key container plate rebent at one side to form opposite aligned cylinder mountings with a cylinder guard intermediate said mountings, a tubular cylinder mounted rockably in said mountings, said cylinder provided with cross slot key ring engaging means enlarged to receive a headed shank key ring at one end, said cylinder retained in said mountings by spring means that normally hold the enlarged portion of said slots behind the cylinder guard.

2,421,493
CLUTCH STRUCTURE

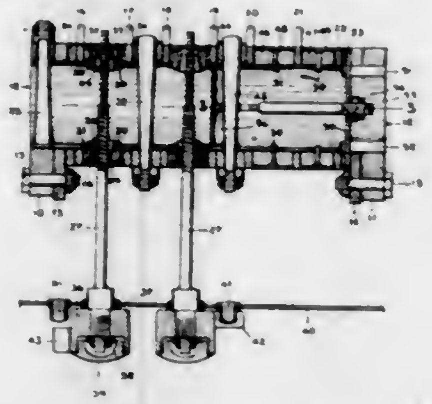
Chris Gerst, Detroit, Mich.
Application September 27, 1945, Serial No. 618,945
7 Claims. (Cl. 192—69)



1. In a clutch, the combination of friction members adapted for driving engagement with each other, a backing plate for said friction members, a clamping plate for said friction members, and means adapted to adjustably mount said backing plate, said means including rotatable actuating means extended through said backing and clamping plates.

2,421,494
LEVER CONTROL UNIT

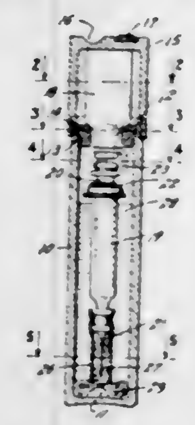
Mansfield D. Glass and Wayne W. Dalrymple, Wichita, Kans., and Hal F. Halsted, Ferndale, Mich., assignors to Boeing Airplane Company, Wichita Division, Wichita, Kans., a corporation of Delaware
Application May 24, 1943, Serial No. 488,138
13 Claims. (Cl. 74—531)



1. In a control unit, a fixed shaft, a plurality of control levers journaled on said shaft, friction means operable to resist swinging of said control levers, regulating means movable to vary the resistance of said friction means to swinging of a selected one of said control levers without altering the resistance to swinging of other of said control levers, and limit means operable to restrain resistance-reducing movement of said regulating means beyond a position corresponding to a desired minimum resistance to swinging of such selected control lever.

2,421,495
INSULIN KIT

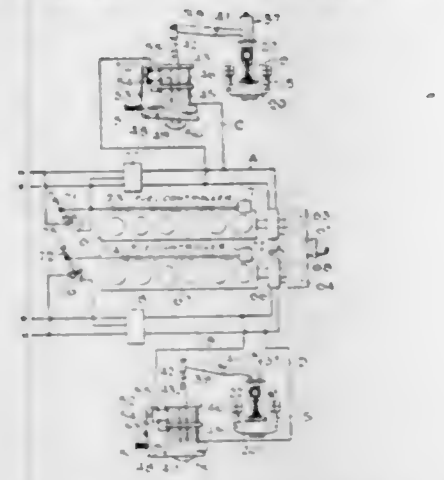
Lloyd G. Green, Denver, Colo.
Application May 8, 1944, Serial No. 534,641
2 Claims. (Cl. 206—63.2)



2. An insulin kit comprising: a tubular container closed at one extremity; a threaded neck on the other extremity of said container; an annular resilient gasket within the open extremity of said container; an inverted bottle resting on said gasket, said bottle having a narrowed neck projecting downwardly through said gasket into said container; a cap threaded onto the threaded neck of said container, said cap enclosing and contacting the upturned bottom of said bottle and forcing the neck through and into sealing contact with said gasket; a hypodermic syringe; a plunger projecting upward from said syringe; means on the neck of said bottle for supporting said hypodermic syringe within said container, said latter means comprising a length of spring wire, a loop formed at the middle portion of said wire for receiving the neck of the bottle and looped extremities on said wire engaging the plunger of the hypodermic syringe.

2,421,496
ENGINE AND TORQUE TRANSMITTER CONTROL

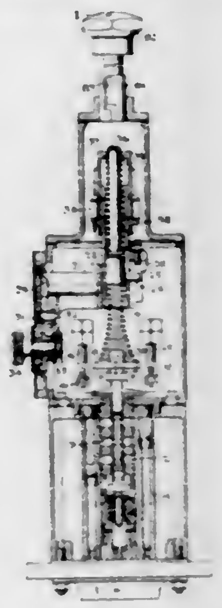
Emil Grieshaber and William J. Johnson, Jr., Milwaukee, Wis., assignors to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 27, 1943, Serial No. 515,867
3 Claims. (Cl. 192—.01)



1. The combination of an engine; a governor arranged to limit the energy input of said engine; motor means for setting said governor to establish different engine limit-speeds appropriate to idling conditions and loaded conditions of engine operation; torque transmitting means of the dynamic reaction type through which load is imposed on said engine; and means for energizing said torque transmitting means and said motor, so arranged that the governor is set for load conditions when the torque transmitting means is energized and for no load conditions at other times.

2,421,497
GOVERNOR

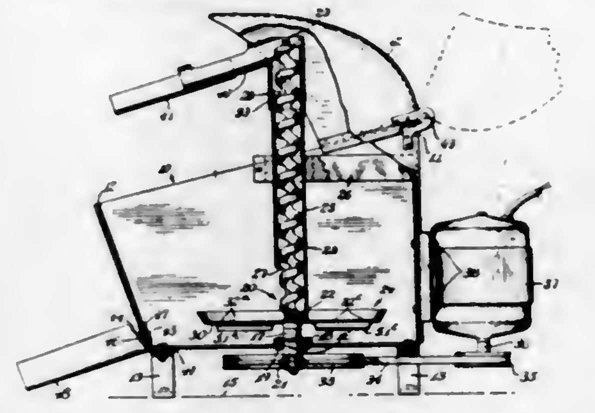
Emil Grieshaber and William J. Johnson, Jr., Milwaukee, Wis., assignors to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Original application December 27, 1943, Serial No. 515,867. Divided and this application November 29, 1944, Serial No. 565,689
3 Claims. (Cl. 264—3)



1. A speed responsive governor having a speeder spring; a shiftable seat against which said spring reacts; stops limiting the shift of said seat, the speeder spring serving to bias said seat toward one of said stops, and the other of said stops being adjustable; motor means having an effective stroke at least as long as the maximum range of motion of the spring seat between said stops; a second spring stonger than the speeder spring and forming an operative connection between the motor and spring seat through which the motor may force the spring seat against said other stop; and means for energizing and deenergizing said motor.

2,421,498
AGITATING EJECTOR TYPE DENTAL LATHE PAN

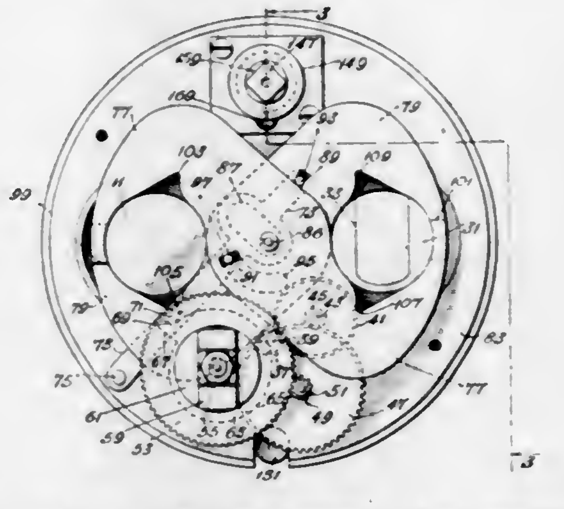
Robert Louis Guedel, Indianapolis, Ind.
Application May 8, 1946, Serial No. 668,266
15 Claims. (Cl. 51—263)



1. In a device of the class described, a vat for containing an abradent slurry, a screw shaft vertically journalled in said vat and carrying near the bottom of said vat, an agitator, and a casing surrounding said screw shaft and cooperating therewith to form a liquid pump, said casing being formed, near the bottom of said vat, with an inlet port, and near the top of said casing with an outlet port.

2,421,499
SHUTTER FOR CONTROLLING LIGHT ALONG TWO INDEPENDENT OPTICAL PATHS

Emile C. Guedon, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 22, 1943, Serial No. 511,369
4 Claims. (Cl. 95—64)

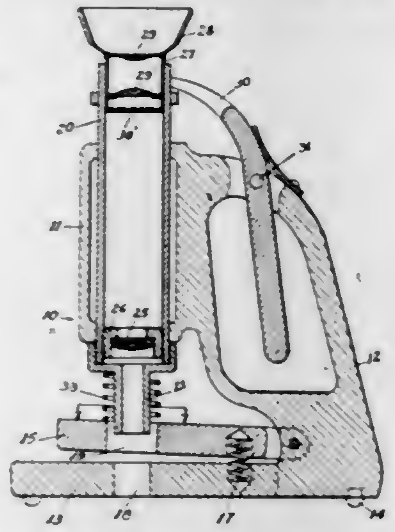


1. An optical shutter system for controlling and determining the quantity of light directed along two adjacent optical paths which comprises a pair of shutter elements each having opposite end portions curved and arranged to overlap each of the optical paths, a centrally located pivot point for each of the said shutter elements, an oscillatory driving arm means for causing each of the shutter elements to rotate simultaneously about the pivot means so that one shutter ele-

ment rotates clockwise and the other shutter element rotates counterclockwise so as to cause the outer extremities of the shutter elements to overlap each optical path in one extreme position of motion and to cause the said shutter elements to separate in the other extreme position of motion to uncover completely each of the said optical paths, said oscillatory driving arm means for providing substantially like variance of the opening and closing of the shutters relative to each optical path to determine the light quantity directed along each optical path, a drive means and a friction clutch unit for driving the said oscillatory means in each of its direction of motion and a limiting means for controlling and limiting the oscillatory motion of the oscillating means in each direction of oscillation.

2,421,500
REGISTERING PUNCH

Richard M. Haff, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application September 29, 1944, Serial No. 556,325
12 Claims. (Cl. 164—86)

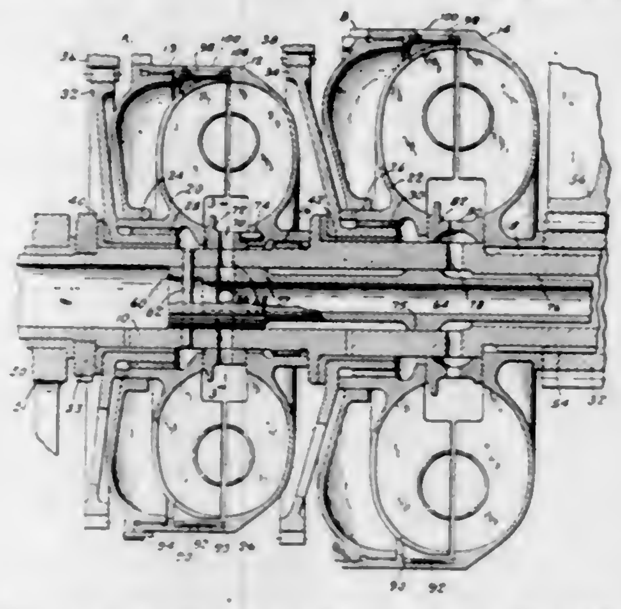


1. A punch for use in registering negatives for photographic printing including in combination means for clamping a negative in place, means for perforating the clamped negative, and optical, magnifying means in axial co-alignment with said perforating means having reference indicia therein with which to register indicia on the negative, thereby to position the negative for punching, said magnifying means and perforating means being movable as a unit for performing the perforating function.

2,421,501
FLUID COUPLING OUTLET VALVE THERMOSTATIC CONTROL

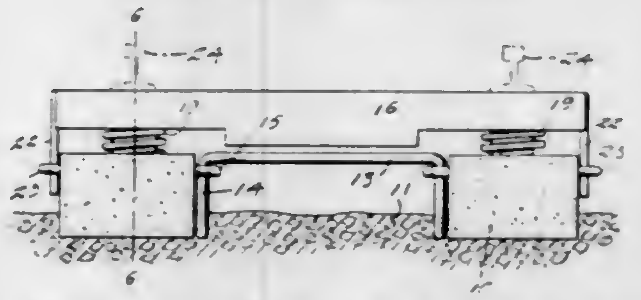
John S. Hasbrouck, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 28, 1943, Serial No. 500,368
1 Claim. (Cl. 60—54)

In an apparatus for controlling the temperature of the fluid in the working chamber of a fluid coupling, a thermostatic element carried by a rotatable wall of said coupling, means forming a fluid passage between said element and said wall substantially surrounding the axis of rotation of said coupling, an opening in said element adjacent one end of said passage for admitting fluid thereto from the working chamber of said coupling, an opening in said wall adjacent the other end of said passage for draining said fluid from said passage, and means controlled by said element for draining additional fluid from said chamber in amounts which vary in accordance with variations in the temperature of said element.



2,421,502
CONCRETE SPRING TIE

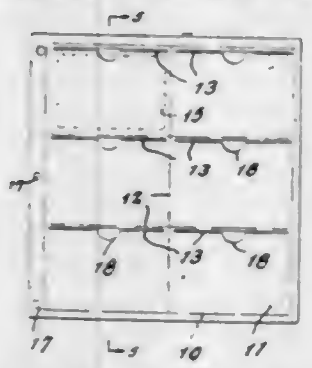
Jonithan B. Hayes, Kansas City, Kans., assignor of one-fourth to Vincel Paul Hayes, Los Angeles, Calif., one-fourth to Granville Ralph Hayes, Kansas City, Kans., and one-fourth to Clifford Forest Hayes, Sedalia, Mo.
Application January 8, 1944, Serial No. 517,566
2 Claims. (Cl. 238—116)



1. A structure of the class described comprising tie blocks, a tie rod, staples on said blocks, engaged by the tie rod, a second staple on said blocks, a tie member having depending end extensions engaging the second staples, and resilient means supporting the tie member from said blocks.

2,421,503
VISIBLE CARD, PHOTOGRAPH, AND OTHER FILING SHEETS

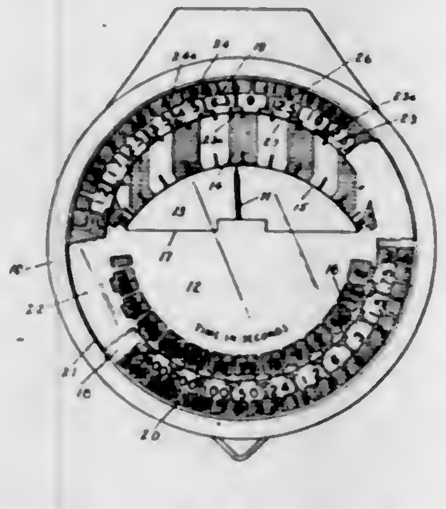
Lowell Vance Hermon, Berkeley, Calif.
Application June 23, 1944, Serial No. 541,763
1 Claim. (Cl. 129—20)



A filing device comprising a central stiff sheet of substantial thickness and a relative thin flexible transparent sheet cemented upon opposite sides thereof and at the edges and upon lines extending across the sheet whereby to form pockets between the two, slits being formed in the material of the thin sheet upon opposite sides inwardly of said lines of attachment, the slits in the thin sheet at one side being offset from the slits in the thin sheet at the other side, and said stiff sheet having channels pressed therein spaced from each other to align with respective series of slits in opposite thin sheets.

2,421,504
INDICATING DIAL FOR PHOTOELECTRIC LIGHT METERS

Robert D. Hickok, Bratenahl, Ohio, assignor to Cleveland Patents, Incorporated, a corporation of Ohio
Application February 1, 1946, Serial No. 644,749
9 Claims. (Cl. 235—64.7)

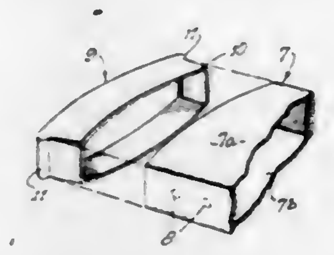


1. A computing and indicating dial for use with a pointer which moves to various positions in accordance with variations in light intensity, said dial comprising a stationary full circle field member, one half of the surface of which is provided with a series of light intensity indicating scale divisions having blocks over which the pointer travels and the opposite half with a series of blocks each provided with indicia of exposure time in seconds or fractions thereof, and a ring member concentric with and encompassing the field member and rotatably adjustable around their common center, one half, circumferentially, of the surface of said ring member being provided with a series of lens stop indicating blocks for cooperation with said light intensity indicating scale divisions and the other half with a series of film speed indicating blocks for cooperation with said exposure time indicating blocks, said scale divisions and blocks being of identical length, circumferentially of the dial, some of the blocks in at least one of the said series being each provided with an associated expanded flag longer than the block itself and bearing an indicating legend, such expanded flags each providing increased area for its associated block and enabling the legend which it bears to be of maximum size and visibility.

2,421,505
BOTTOM RAIL ASSEMBLY FOR VENETIAN BLINDS

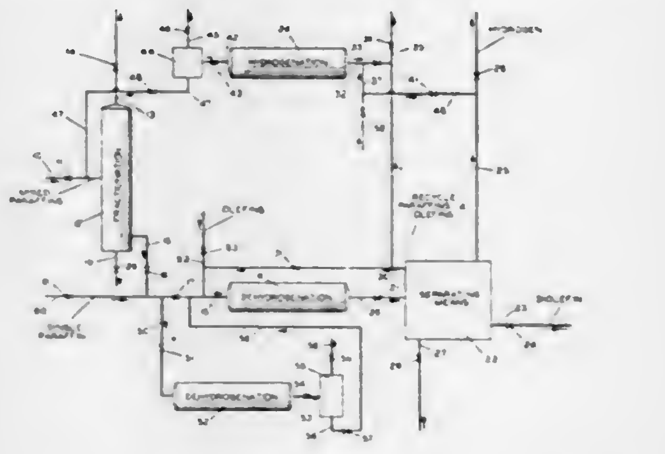
Joseph L. Hunter, Riverside, Calif., assignor to Hunter Engineering Co., Riverside, Calif., a corporation of California
Application February 13, 1945, Serial No. 577,691
5 Claims. (Cl. 160—173)

1. In a bottom rail structure for Venetian blinds, the combination of an elongated tubular member having a flattened cross section, and a closure member for each end of said tubular member comprising a substantially cup-shaped closure having a transverse cross section corresponding to the transverse cross section of said tubular member, the side walls of said closure member being snugly insertable into the end of said tubular member, the base of the cup-shape closure having at least one dimension in excess of the corresponding internal dimension of the tubular member.



2,421,506
MANUFACTURE OF DIOLEFINS

Jean P. Jones, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 28, 1941, Serial No. 404,420
8 Claims. (Cl. 260—680)



3. A process for the production of a low-boiling diolefin, which comprises passing a low-boiling hydrocarbon mixture containing predominantly paraffin hydrocarbons of four to five carbon atoms per molecule to a fractionating means, separating therefrom a low-boiling paraffinic fraction comprised substantially of hydrocarbons of a single carbon atom skeleton and containing from four to five carbon atoms in a straight chain, passing said fraction to a dehydrogenation system to effect a dehydrogenation thereof forming diolefins, separating from an effluent of said dehydrogenation system a diolefin fraction as a product of the process, separating also a fraction comprising olefins substantially free of diolefins and containing hydrocarbons of the same number of carbon atoms per molecule as comprise said low-boiling paraffinic fraction, and both the same and different carbon atom skeleton structure passing a major portion of said separated fraction to said dehydrogenation system, subjecting a minor portion of said separated fraction to nondestructive hydrogenation to saturate unsaturated hydrocarbons contained therein forming a paraffinic fraction, and passing said resultant paraffin hydrocarbon fraction so produced to said fractionating means.

2,421,507

HORTICULTURAL SPRAY OIL

Paul R. Jones, Piedmont, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 14, 1943, Serial No. 498,911

5 Claims. (Cl. 167—24)

2. A clear mineral oil horticultural spray containing dissolved a minor proportion exceeding its normal solubility in said mineral oil of rotenone and a minor but rotenone-solubilizing proportion of a mixture of polychlorinated alkanes and alkenes of from 3 to 4 carbon atoms.

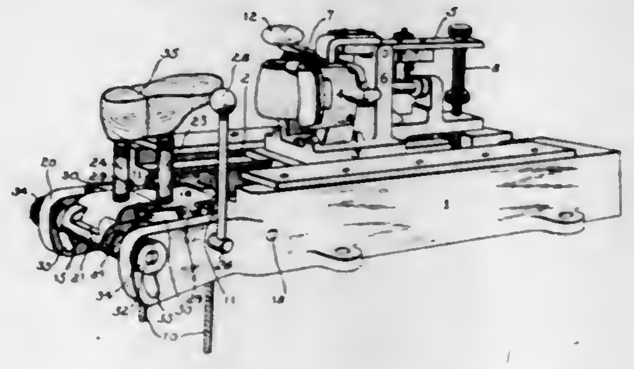
2,421,508

FORCE LASTING MACHINE

Jacob S. Kamborian, West Newton, Mass.

Application September 13, 1945, Serial No. 615,967

17 Claims. (Cl. 12—1)



1. A machine for introducing a last into an assembled upper and sock lining unit comprising a last support, a pair of yieldable upper wiping elements normally spaced apart a distance less than the width of the forepart of the last, and a sock lining wiping element, means for causing a relative motion between the last support and the wiping elements thereby causing said elements to move rearwardly of the last, and means for rocking said last support in a vertical plane to adjust the bottom surface of the forepart of the last with relation to said sock lining wiping element.

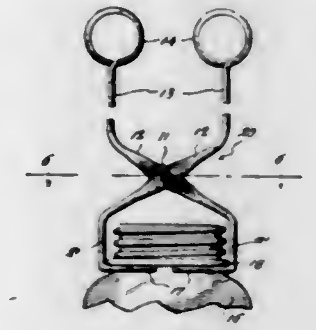
2,421,509

LIFTER FOR HOT OR COLD CONTAINERS

William C. Knapp, Columbia, Pa.

Application January 12, 1945, Serial No. 572,497

1 Claim. (Cl. 294—31)



Lifting tongs comprising a pair of arcuate jaws, each having backwardly parallel portions, said backwardly parallel portions being provided with upstanding parallel portions, said upstanding parallel portions having inclined converging and meeting portions, a pair of handles having crossed and pivotally connected portions, each of the said crossed portions merging with a corresponding meeting point of the converged and inclined portions.

2,421,510

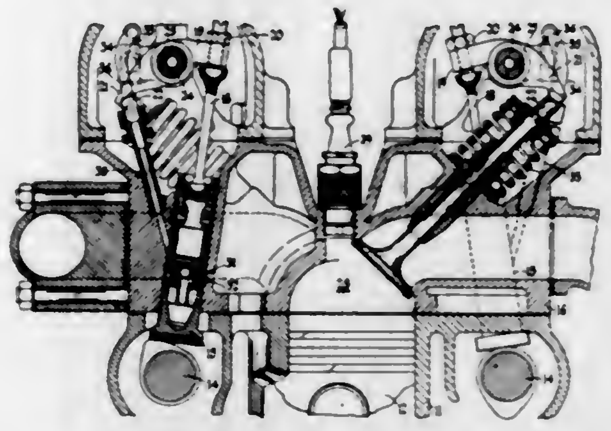
VALVE MECHANISM OF FLUID-PRESSURE ENGINES

George Harold Leek, Leamington Spa, and Raymond Hugh Rose, Wolverhampton, England

Application April 29, 1944, Serial No. 533,428

In Great Britain March 14, 1944

4 Claims. (Cl. 123—90)



1. In a fluid pressure engine, a cylinder block, a cylinder head, on the block, intake and exhaust valves in the head, hollow rock shafts in the head in communication with a source of lubricant supply, rockers on said shafts positioned to open said valves, hydraulic tappets mounted to reciprocate in said head and positioned to actuate said rockers, pipes external of said shafts, rockers and tappets for conveying lubricant from the hollow shafts to said tappets, and cam shafts in the upper portion of said cylinder block positioned to operate said tappets.

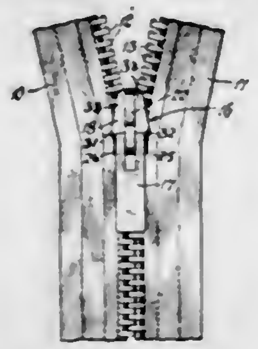
2,421,511

SLIDER FOR SEPARABLE FASTENERS

Robert C. Legat, New Britain, Conn., assignor to The G. E. Prentice Mfg. Co., Kensington, Conn., a corporation of Connecticut

Application November 6, 1943, Serial No. 509,173

7 Claims. (Cl. 24—205)



7. A slider for slide fasteners comprising front and rear plates having substantially the same width throughout their lengths and being connected at their upper ends by an integral transverse neck member, an internal substantially wedge-shaped separating means positioned in the upper half of the slider, the base of said separating means engaging the interior surface of such neck member and being of substantially the same width as such member, the lower halves of said front and rear plates each having a pair of straight longitudinally extending marginal side flanges whose upper ends flare outwardly to provide short guiding lips, said flanges extending from the lower ends of said plates and terminating at points in the lower half of the slider below the center of the longitudinal length of the slider and spaced below the apex of said wedge-shaped separating means, the portions of such plates above said flanges being substantially flat and formed so that in the upper half of the slider the sides of the slider are entirely open and the side edges of such plate portions extend substantially longitudinally of the slider, the width of such plate portions throughout their length being substantially greater than said neck member so that the side edge portions thereof project beyond the side edges of the separating means for the entire length of the upper half of the slider, a pull-retaining loop integrally formed with said separating means and extending over the outer surface of said front plate so as to provide a pull tab opening extending from above the upper ends of said side flanges to a point intermediate their ends, and a pull tab longitudinally movable on said loop and having a width adjacent to the outer surface of said front plate approximately equal to the width of such plate in the region of the upper end of the opening in said loop.

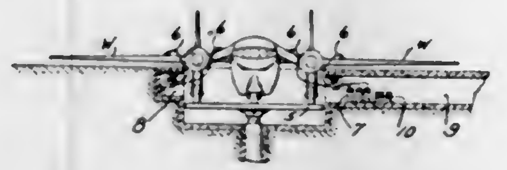
2,421,512

METHOD AND APPARATUS FOR HANDLING AIRPLANES FOR REFUELING

Walter C. Leitch, Springfield, and Joseph A. Logan, Hadley, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

Application February 10, 1945, Serial No. 577,322

3 Claims. (Cl. 244—114)



2. Apparatus for servicing a plane on a flying field which comprises a pit having a maximum width dimension not substantially greater than the overall width dimension of the underwing structure of the plane to be serviced, a platform having an unobstructed surface and forming a closure for the surface opening of the pit flush with the surface of the flying field, said platform being movable inwardly of the pit, and means to lower said platform to position the wings of a plane supported on said platform into service accessible proximity to the field surface at the sides of the pit.

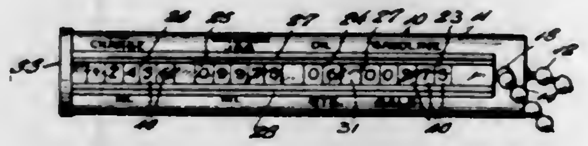
2,421,513

RECORDING DEVICE, INCLUDING ROTATABLE NUMBER CARRYING RINGS

Algot T. Lofstrom, Iron Mountain, Mich.

Application November 14, 1944, Serial No. 563,443

2 Claims. (Cl. 40—68)



2. A device as described comprising a cylinder of a length to receive a license card, a second cylinder within which the first cylinder is seated, said first cylinder having an enlarged head forming a spacer between the cylinders, a removable ring of the same diameter as said head adapted to form a spacer for the opposite end of the cylinders, and a closure cap for the device provided with an inner integral flange adapted to be frictionally held between the open ends of the cylinders.

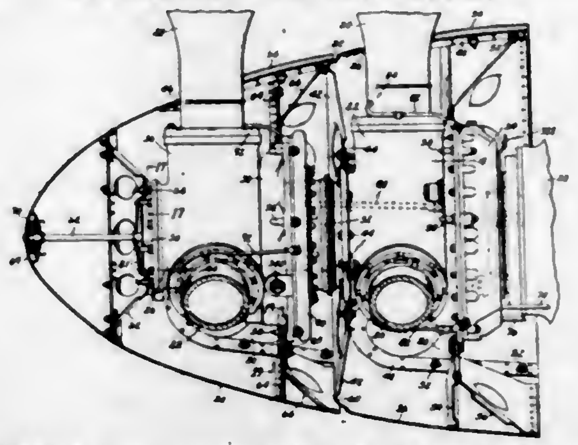
2,421,514

DUAL ROTATION PROPELLER

Thomas B. Martin and Kenneth L. Berninger, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 19, 1943, Serial No. 499,240

14 Claims. (Cl. 170—135.6)



1. Means for coordinating the pitch of coaxially arranged and contra-rotative propellers, comprising for the blades of each propeller, a master gear, an inter-connecting gear mechanism including a pair of internal gears one of which is drivingly connected with the master gear of one propeller, a pair of sun-gears one of which is drivingly connected with the master gear of the other propeller, a pair of planet gears each of which mesh with an internal gear and a sun-gear, said planet gears being carried by a common spider, whereby controlled relative rotation between the internal gears effects, through the medium of the planet gears, relative rotation between the sun-gears, means for translating the relative rotation between the sun-gears to control the blade angle of said other propeller and rotation of its master gear, and means for translating the rotation of said last mentioned master gear to reverse relative rotation of said sun-gears.

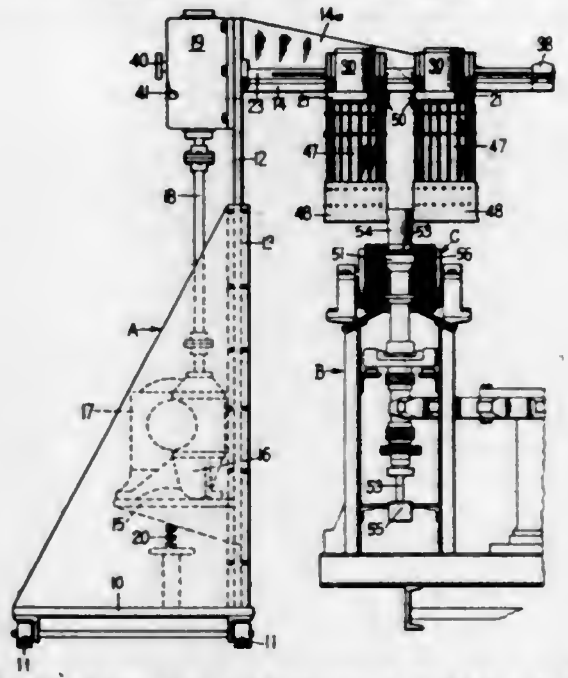
2,421,515

ARTICLE TAKE-OFF OR TRANSFER APPARATUS

William L. McNamara and Frederick Z. Fouse, Lancaster, Ohio, assignors to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware

Application August 2, 1945, Serial No. 608,390

16 Claims. (Cl. 198—20)



1. Apparatus for removing a series of articles from a moving conveyor, comprising a base hav-

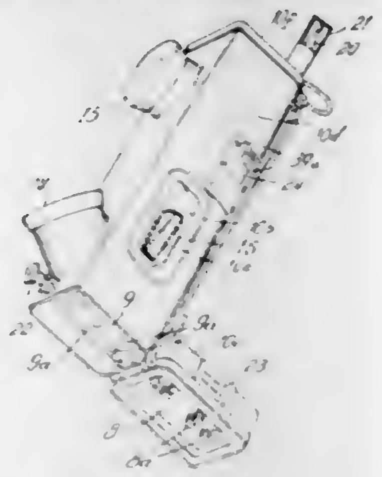
ing casters permitting the apparatus to be moved over a supporting surface, an upright frame carried by the base and vertically adjustable with relation thereto, a substantially horizontal bracket projecting laterally from said upright frame, a pair of endless conveyors depending from said bracket and extending in substantial parallelism beyond said frame, and power means for driving said pair of conveyors in opposite directions at a predetermined rate of speed, the adjacent courses of the conveyors travelling in the same direction and cooperating with one another to engage and grip articles therebetween to remove said articles from the moving conveyor and transfer them to another moving conveyor or supporting surface.

2,421,516
APPARATUS FOR SUPPORTING PORTABLE RADIO SETS

Donald H. Mitchell, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application March 29, 1943, Serial No. 480,924

15 Claims. (Cl. 250—14)



1. Apparatus for supporting a portable radio set which is provided with an antenna projecting from one end of the housing therefor, comprising a base member, and end members projecting away from the supporting face of said base member and provided with end and side portions for embracing the end and side walls of a supported set to prevent relative lateral movement between the set and said base member, one of said end members being provided with a laterally extending portion shaped to receive and at least partially house the antenna of a set supported upon said base member.

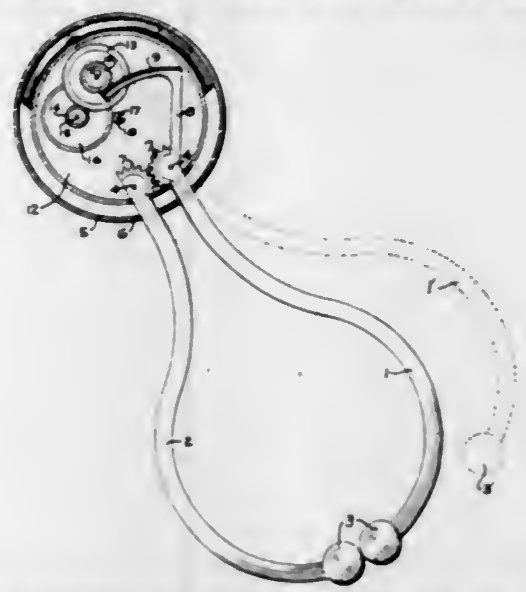
2,421,517
PIVOTED DIAL CALIPERS

Carlos Moerman, Richmond, Calif.

Application June 22, 1944, Serial No. 541,529

4 Claims. (Cl. 33—148)

3. Calipers of the character described having in combination a case, an actuator shaft rotatively mounted in said case and having one end projecting from the latter so as to be accessible for manual rotative adjustments, a series of other shafts also rotatively mounted in said case, predeterminedly proportioned gearing connecting said actuator shaft with the other shafts, so that rotative adjustment of said actuator shaft will impart proportionate adjustment to the other shafts, measurement indicia arranged concentrically around each of said shafts, the indicia for each shaft designating increments of measurement proportioned to the increments of measurement of all of the other indicia, pointers secured to and rotatable with all of the respective shafts so as to travel over the respective indicia, a pair of caliper legs each pivotally mounted at one end within said case and having work-engaging portions projecting from the latter, and means operated by rotative adjustments of one of the gears of said gearing for imparting relative adjusting movements to said legs.

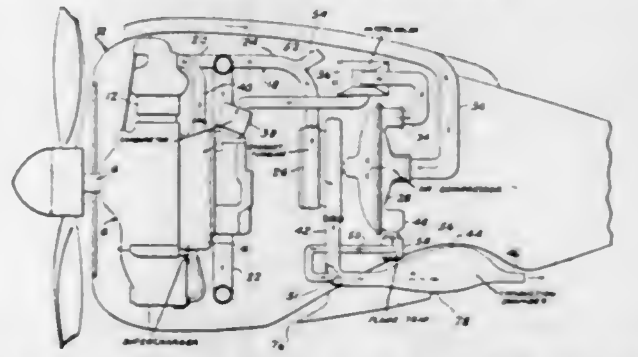


2,421,518
JET PROPULSION

Richard C. Molloy, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application July 5, 1940, Serial No. 343,993

1 Claim. (Cl. 170—135.5)



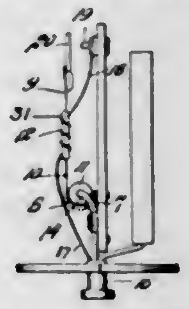
In an aircraft powerplant including an internal combustion engine having fuel and air supplying means for operating said engine at high power output with an excess of fuel over that required for combustion, an exhaust manifold for receiving exhaust gas including excess unburned fuel from said engine, an air compressor, an exhaust gas turbine drivingly connected with said air compressor and operatively connected with said engine exhaust manifold, an engine driven propeller for producing a propulsive thrust, and means independent of said propeller for augmenting the propeller thrust, said means comprising; a combustion chamber, a rearwardly directed nozzle located downstream of said combustion chamber for directing products of combustion from said combustion chamber into the atmosphere as a rearwardly directed gas jet exerting a propulsive reactive thrust, means for conducting the engine exhaust gas including unburned fuel from said engine through said turbine into said chamber, and means for burning said fuel in said chamber including means for introducing compressed air from said air compressor into said exhaust gas and unburned fuel downstream of said turbine and upstream of said nozzle so as to complete the combustion of said exhaust gas in said combustion chamber before said gas is ejected from said nozzle, and valve means for proportioning the quantity of compressed air introduced into said exhaust gas and unburned fuel so as to produce a combustible mixture of fuel and air in said combustion chamber.

2,421,519
STARTER SWITCH

Charles Penk, Newark, N. J., assignor to Sal-Mar Laboratories, Inc., Irvington, N. J., a corporation of New Jersey

Application April 24, 1945, Serial No. 590,075

2 Claims. (Cl. 200—122)



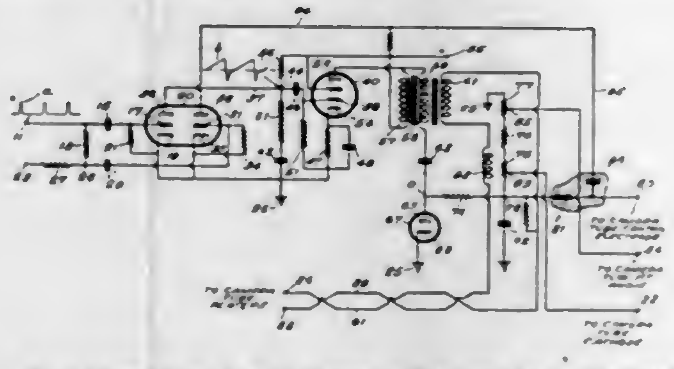
1. A thermal starter for gaseous discharge devices comprising a thermostatic element having a curved base portion arranged to bend, under heat, in closer coiled relation and a free end portion extending straight from the end of said curved base portion and arranged to bend, under heat, in the opposite direction, a high resistance heater disposed within the curved base portion, a switch contact disposed in the path of movement of the free end portion of the thermostatic element and a low resistance shunt about said high resistance heater connected with said switch contact.

2,421,520
SYSTEM FOR ENERGIZING THE ELECTRODES OF CATHODE-RAY DEVICES FROM THE DEFLECTING CIRCUIT

Waldemar J. Poch, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 18, 1943, Serial No. 491,332

5 Claims. (Cl. 315—22)



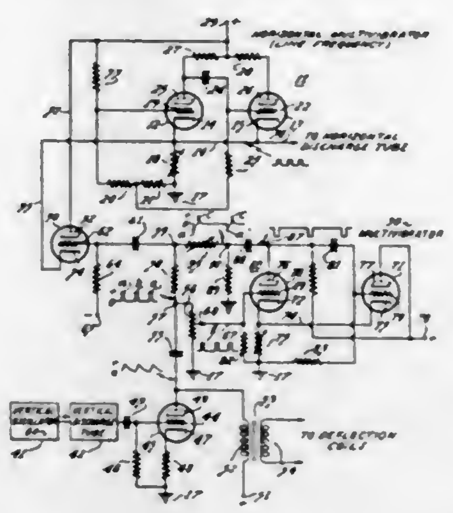
1. In television apparatus wherein is included a camera tube having a target and means to develop an electron beam in combination with means to cause the developed beam to scan the target, electrical wave generating means for producing electrical waves for controlling the deflection of the electron beam relative to the target area, transformer means adapted to be energized by the output deflection controlling electrical waves from the generator, means for developing alternating current energy from the said transformer output to provide heating current for the electron beam developing means, and rectifier means also adapted to be energized from the transformer output for developing relatively high voltage direct current output for energizing other electrodes of the electron beam developing means.

2,421,521
INTERLACING SYSTEM

Waldemar J. Poch, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 26, 1945, Serial No. 607,112

7 Claims. (Cl. 178—7.7)



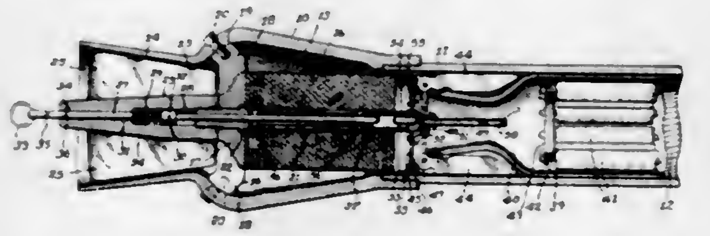
1. In a television circuit for developing signal pulses for controlling the linear deflection of a cathode ray beam utilized to trace a predetermined raster which comprises, in combination, a substantially stable oscillator means to generate line control pulses at a selected line frequency rate, means to develop supplemental control pulses occurring at substantially a desired raster field repetition rate, means for producing from the supplemental pulses a sequence of oscillator control pulses spaced in time relationship such that successive pulses occur at time periods which are unequally spaced from the preceding and succeeding pulses, and means responsive to the produced oscillator control pulses for rendering the line frequency pulse generator inoperative during periods at which the said control pulses are produced and for initiating an operation of the line frequency pulse generator during periods intervening between successive pulses.

2,421,522
ROCKET PROJECTOR AND PROJECTILE

Winslow B. Pope, Detroit, Mich., assignor, by mesne assignments, to United States of America

Application August 23, 1944, Serial No. 550,686

2 Claims. (Cl. 89—1.7)



1. The combination with a recoilless projector having a firing chamber, a barrel projecting therefrom and a powder charge supported within said chamber; of a rocket type projectile supportable in said barrel with its rear end adjacent said chamber, a member carried by said projectile substantially closing communication between said barrel and chamber, a primer cartridge carried by said member, and a firing pin supported within said chamber, said firing pin being operable to fire said primer cartridge whereby firing of said cartridge ignites said powder charge.

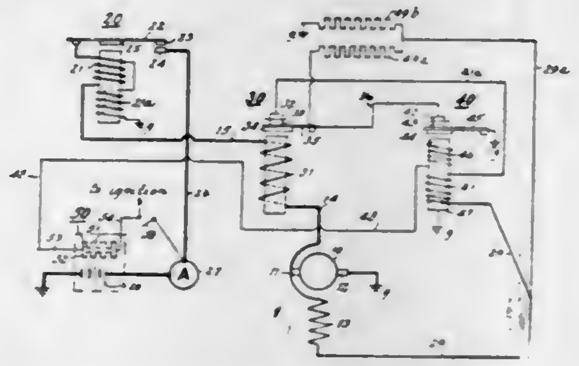
2,421,523

BATTERY-CHARGING SYSTEM

William J. Rady, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 23, 1945, Serial No. 606,668

4 Claims. (Cl. 320—35)



1. A battery charging system comprising a generator having an armature and a shunt field, a storage battery, conducting means connecting the terminals of the armature with the terminals of the battery and providing the battery charging line, and only two generator control circuits connected across the line, one circuit comprising, in series, the shunt field and a field current controlling resistance, the other circuit comprising, in series, an electromagnet coil and a coil controlling resistance unit in heat receiving relation to the battery and having a negative temperature coefficient of resistance which is substantially constant within the range of battery operating temperatures, and means under control by said electromagnet coil for controlling the field current controlling resistance.

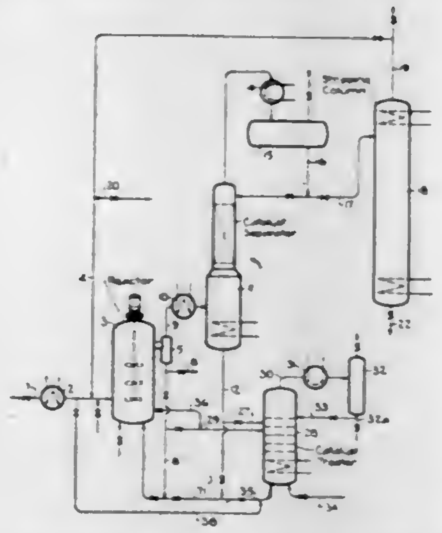
2,421,524

PURIFICATION OF METAL HALIDE CATALYST IN CATALYTIC HYDROCARBON CONVERSIONS

William E. Ross, Berkeley, and George J. Carlson, El Cerrito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application April 22, 1944, Serial No. 532,348

6 Claims. (Cl. 260—683.5)



6. In a process for the execution of catalytic hydrocarbon conversions wherein hydrocarbons comprising a major portion of saturated aliphatic hydrocarbons in admixture with a minor portion of aromatic hydrocarbons are contacted at conversion conditions with a fluid catalyst comprising a metal halide of the Friedel-Crafts type in a conversion zone whereby aromatic hydrocarbons are selectively absorbed by said catalyst, the combination of steps which comprises passing converted hydrocarbons and a portion of said catalyst containing absorbed aromatic hydrocarbons from the conversion zone into a first distillation zone, separating a vapor fraction comprising aliphatic hydrocarbons from a liquid fraction comprising fluid catalyst containing absorbed aromatic hydrocarbons in said first distillation zone, passing said liquid fraction from said first distillation zone into a second distillation zone, subjecting said catalyst in said second distillation zone to distillation conditions effecting the substantially complete removal of absorbed aromatic hydrocarbons as a vapor fraction from said fluid catalyst in the absence of any substantial catalyst decomposition, passing fluid catalyst substantially free of aromatic hydrocarbons from said second distillation zone to said conversion zone, and effecting said passage of catalyst from said conversion zone to said distillation zone at a rate sufficiently high to avoid the accumulation to any substantial degree of absorbed aromatic hydrocarbons in the catalyst in said conversion zone.

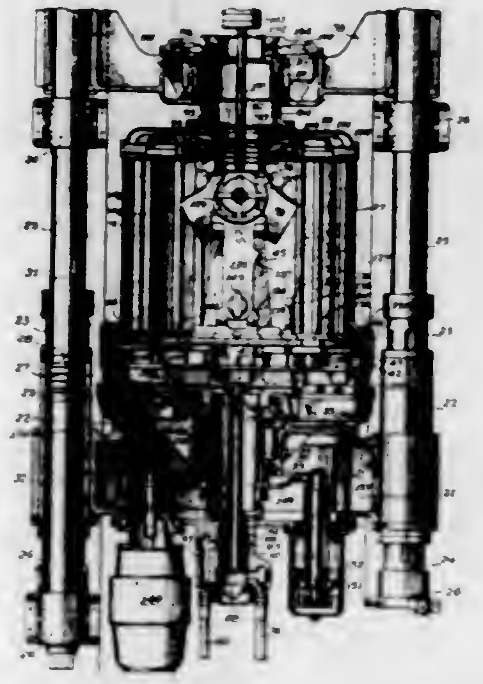
2,421,525

HEAT-TREATING APPARATUS

Howard E. Somes, Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Original application February 24, 1943, Serial No. 476,991. Divided and this application May 17, 1944, Serial No. 535,909

8 Claims. (Cl. 266—4)



2. In a heat treating machine, a support for holding a tubular workpiece in predetermined position for heat treatment of one circumferential surface thereof, a base for said support, said support being rotatably mounted on said base, means for rotating said support and the workpiece held thereby, a second support spaced from said base, a workpiece enclosing hood rotatably carried by said second support, said hood having an end portion and nozzle means for directing cooling fluid against the other circumferential surface of the workpiece during heat treatment of said one circumferential surface, said second support and said hood being relatively movable into and out of workpiece enclosing position, said hood in said work enclosing position engaging said base and being rotatable by said base by reason of said engagement, means for effecting said relative movement, and means for conducting cooling fluid to said nozzle means during rotation of said hood and base.

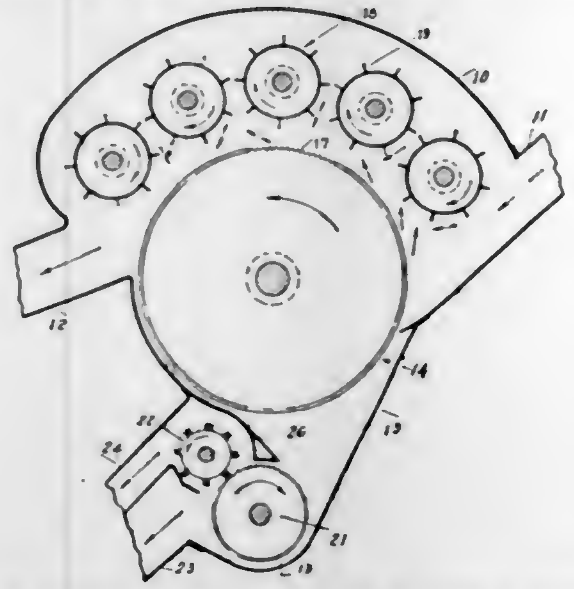
2,421,526

COTTON CLEANER

Algernon L. Smith, Birmingham, Ala., assignor to Continental Gin Company, a corporation of Delaware

Application February 28, 1945, Serial No. 580,196

5 Claims. (Cl. 19—93)



1. In a cotton cleaner, a single rotary screening cylinder comprising a plurality of thin plates carrying agitating and cleaning elements mounted on a shaft and spaced apart a sufficient distance to provide a screen for the cotton being cleaned, between which plates foreign material removed from the cotton passes, a plurality of rotary agitating cylinders of relatively smaller diameter disposed in a row above the screening cylinder to provide a substantial vertical space between the screening cylinder and the agitating cylinder, and means to feed cotton into the cleaner between the screening cylinder and the row of agitating cylinders, said agitating cylinders and screening cylinder being driven in opposite directions to toss the cotton back and forth in the space between them and transport it through the apparatus.

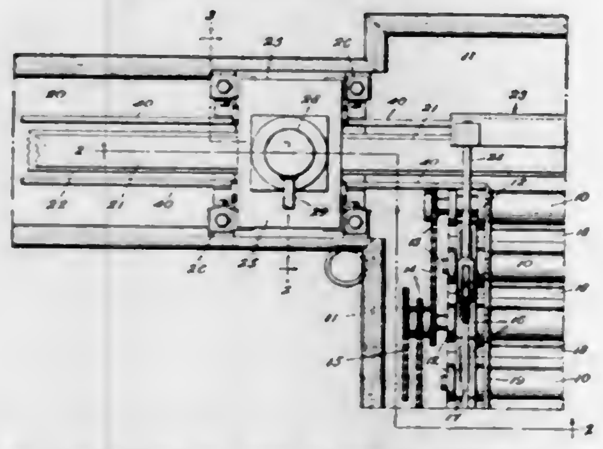
2,421,527

CAN FEEDING MECHANISM

Horace L. Smith, Jr., Richmond, Va., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Application October 1, 1945, Serial No. 619,637

3 Claims. (Cl. 198—34)



1. In mechanism for feeding cans to a processing apparatus or the like, a continuously operating conveyer for receiving and moving the cans to the apparatus in alined relationship; means including opposed gripping jaws movable toward and from the line of cans transversely thereof to temporarily arrest movement of a portion of such line when a determined number of cans has passed such means, said jaws having can-engaging faces provided with longitudinally extending recesses; and guide members paralleling the conveyer and extending through said arresting means, for preventing twisting of an arrested can to a diagonal position on the conveyer, said jaw recesses receiving and accommodating the guiding members during the arresting action of the jaws.

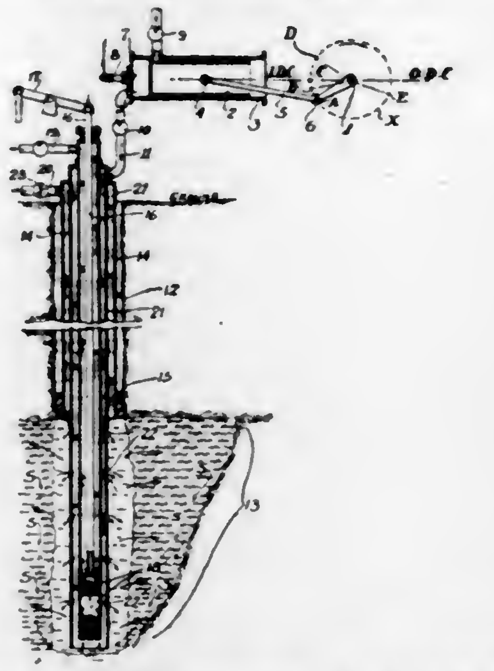
2,421,528

UNDERGROUND OIL RECOVERY

Ralph M. Steffen, North Hollywood, Calif.

Application July 26, 1944, Serial No. 546,654

11 Claims. (Cl. 166—21)



9. An apparatus for treating depleted oil sands for increasing the oil flow therefrom comprising a well extending into the oil sands and an oil pumping conduit therein, a second conduit adjacent and contacting said oil pumping conduit and extending into the oil sands of said well, vertically spaced apertures in said second conduit below the top of said oil sands, generating means for producing a continuous series of high pressure, high temperature charges of burning gases and delivering them to said second conduit for the continuous direct application of pressure impulses to the entire vertical face of the oil sands above the standing oil level thereof, and means for causing a constant circulation of said charges in contact with the entire face of the oil sands above the standing oil level of said well comprising a third conduit for releasing said charges from said well.

2,421,529

ENGINE ACCESSORY MOUNT

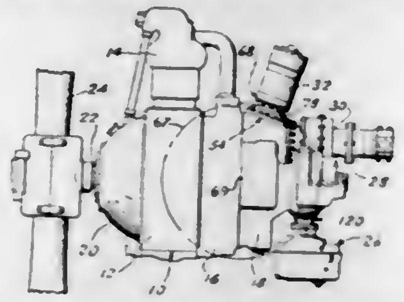
John M. Tyler, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application November 13, 1941, Serial No. 418,947

18 Claims. (Cl. 248—26)

1. A vibration suppressing mounting for securing a supported body to a supporting body subject to vibrational movements comprising, a convex surface on one of said bodies, a concave surface on the other of said bodies, a convex surface on said other body disposed in juxtaposition to said concave surface thereon, a resilient cushion between the convex surface on said one body

and the concave surface on said other body, and friction means secured to said one body and bearing on the convex surface on said other body.

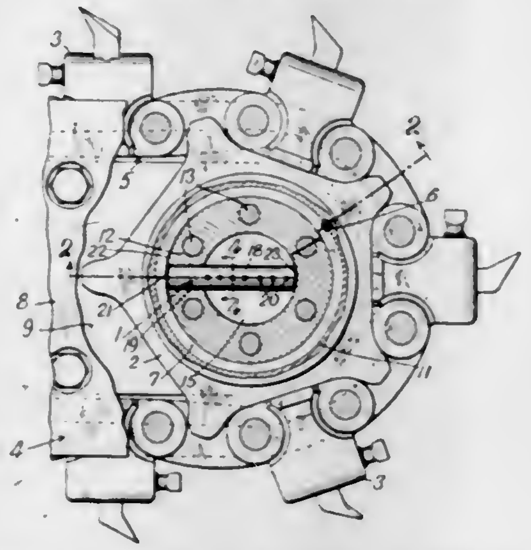


18. In combination with a supporting body having a drive shaft and a supported body having a part rotated by said drive shaft, a vibration suppressing mounting for securing the supported body to the supporting body comprising, a part carried by the supporting body having an annular convex surface surrounding the drive shaft, a part carried by the supported body having an annular concave surface surrounding the drive shaft and overlying said convex surface, a cushion of resilient material between said surfaces, said supported body including a portion having a convex surface, an annular member carried by the supporting body in juxtaposition to said convex surface on said supported body, friction material between said annular member and said convex surface on the supported body pressed into frictional contact with said surface by said annular member, and a resilient connection between the drive shaft and said rotatable part constructed and arranged to accommodate angular and linear misalignment of said rotatable part relative to said drive shaft.

2,421,530
LUBRICATOR FOR IDLER BEARINGS

Harry H. Vanderzee, Racine, Wis., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application June 28, 1944, Serial No. 542,532
8 Claims. (Cl. 308—104)

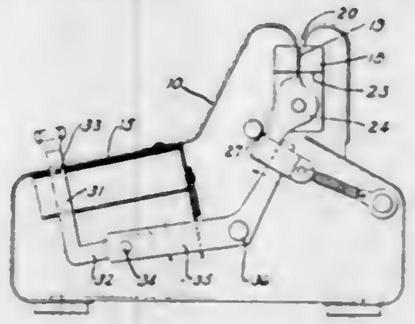


1. In combination, a bearing member having a cylindrical exterior bearing surface, a rotary element surrounding said bearing member and journaled on said bearing surface, said rotary element being loaded at one side so that a slight clearance space is present between said rotary element and the bearing surface at the non-loaded side of said rotary element, and lubricator means including a lubricant reservoir formed in said bearing member, said bearing member having a radial bore extending from said reservoir to the clearance space, a perforated tube supported at one end in the bore in said bearing member and projecting freely inwardly into said reservoir, and a spring pressed lubricant controlling wick arranged within said tube and engaging the inner surface of said element at a point wherein the clearance is greatest.

2,421,531
DIRECT ACTION KEYPUNCH

Nelson S. Welk and Charles O. Carpenter, Athens, Ohio, assignors to The McBee Company, Athens, Ohio, a corporation

Application April 21, 1945, Serial No. 589,517
6 Claims. (Cl. 164—112)

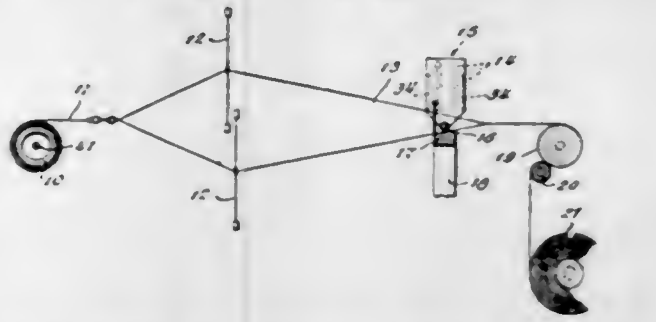


1. In a machine of the character described, a matrix bar, said matrix bar having a plurality of die sockets formed transversely therethrough, said matrix bar having card receiving means for receiving and positioning a card in correct position relative to said sockets, a male die member pivotally mounted in each socket for cooperation therewith to punch a card or sheet disposed for punching in said matrix bar, and an individual and separately operated key for each of the said male die members, operation of which key actuates the male die member.

2,421,532
APPARATUS FOR WEAVING FABRICS OF PLASTIC MATERIALS

Edward Welti, Flushing, N. Y., assignor to Hafner Associates, Inc., Long Island City, N. Y., a corporation of New York

Application October 25, 1944, Serial No. 560,234
4 Claims. (Cl. 139—1)



1. In a loom for weaving fabrics, said loom having a pair of spaced plates between which are supported a series of weft bobbins for automatic and successive insertion into a shuttle, a pair of heating elements mounted intermediate the lateral ends of said plates so as to form a partly enclosed box.

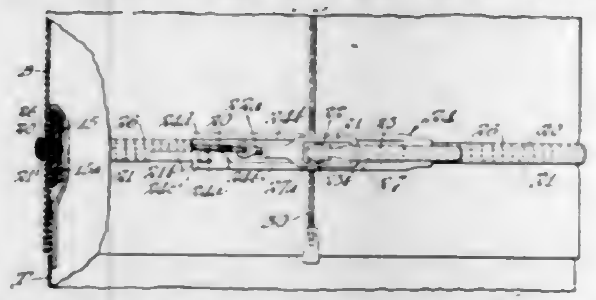
2,421,533
CLAMP-SEALED JOINT CONSTRUCTION FOR AVIATORS' SUITS

John D. Akerman and Mihkel Schonberg, Minneapolis, Minn.

Application May 1, 1943, Serial No. 485,318
4 Claims. (Cl. 285—71)

1. A sealed joint construction for connection with a flexible tubular member having in combination a substantially rigid annulus provided

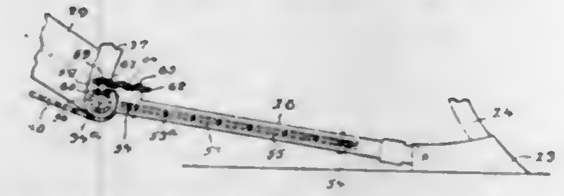
with a peripheral sealing zone for receiving the circumferential portion of a flexible tubular member, flexible clamping means for surrounding said circumferential portion and sealing the same against said annulus comprising a pair of flexible clamping elements disposed in side-by-side relationship, a toggle clamp comprising a slide, a toggle carrying plate slidably mounted in said slide and having a toggle lever pivoted thereto, a link detachably engageable with said toggle lever for tightening purposes, one of said flexible elements having one of its ends attached to said link and having its other end attached to said slide, the other of said flexible elements having one of its ends attached to said slide and its other end attached to said toggle carrying plate whereby when said toggle lever is engaged with said link and swung to tightening position, said flexible elements are drawn in opposite directions and tightened against said circumferential portion and against said annulus.



2,421,534
BEET HARVESTER

Lester Andrus, Glenwood Springs, Colo.

Application February 3, 1944, Serial No. 520,928
2 Claims. (Cl. 55—108)

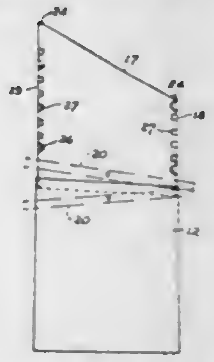


1. In a beet harvester, a supporting frame, plow blades spaced apart and connected to the frame adapted to cut under a root plant from either side and slightly elevate the plant, parallel rails pivotally connected to the frame, and the rear ends of the blades endless chains extending longitudinally of the rails upon which the uplifted plants travel rearwardly from the plow blades, said rails adapted to align said blades and prevent swinging movement thereof during the digging operation thereof.

2,421,535
FORM FOR MOLDING GRAVE MARKERS AND THE LIKE IN SITU

Elga Allen Bailey, Butler, Pa.

Application May 25, 1945, Serial No. 595,725
10 Claims. (Cl. 25—118)

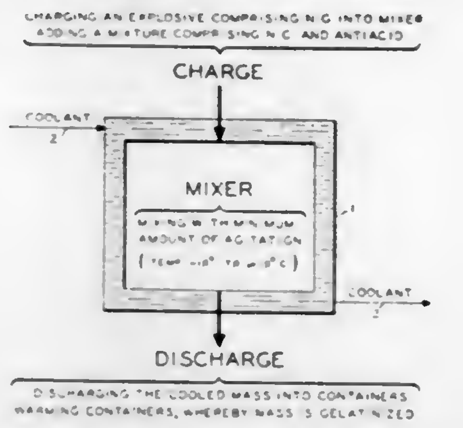


1. A mold comprising a box insertible into an excavation in the ground and open at its upper end, and serving as the lower portion of the mold, a substantially rigid upper mold member of open-ended box-like form, insertible into the upper part of the lower mold portion, and means independent of the lower mold portion, for aligning and supporting the upper mold portion at the surface of the ground.

2,421,536
PROCESS FOR PREPARING BLASTING GELATIN

Henry W. Botts, Carthage, Mo., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application June 29, 1943, Serial No. 492,680
8 Claims. (Cl. 52—22)

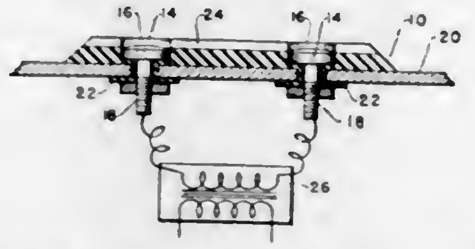

CHARGING AN EXPLOSIVE COMPRISING N.G. INTO MIXER
ADDING A MIXTURE COMPRISING N.C. AND ANTIACID
CHARGE
COOLANT
2
MIXER
MIXING WITH MINIMUM AMOUNT OF AGITATION
1
COOLANT
DISCHARGE
DISCHARGING THE COOLED MASS INTO CONTAINERS
WARMING CONTAINERS, WHEREBY MASS IS GELATINIZED

1. A process for preparing maximum density blasting gelatin which comprises cooling a liquid explosive comprising nitroglycerin to a temperature from about −10° C. to about 10° C. without freezing; adding a mixture comprising nitrocellulose and an antacid to said explosive; mixing the mass thus formed with a minimum amount of agitation, while maintaining said temperature; and discharging the cooled mixed mass and allowing said mass to warm and thereby gelatinize.

2,421,537
ELECTRICAL RESISTANCE ANNEALING DEVICE FOR WIRE

John S. Boyers, Arlington Heights, Mass., assignor to United States of America, as represented by the Secretary of the Navy

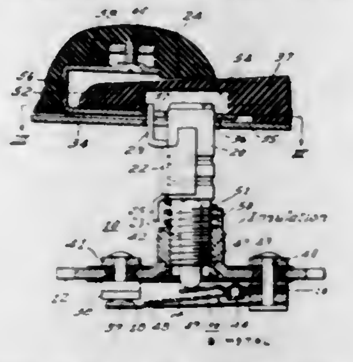
Application September 17, 1945, Serial No. 616,917
1 Claim. (Cl. 219—11)



An electrical resistance annealing device, for a short length of magnetizable wire of the type used in wire recorders, comprising a block of electrical insulating material adapted to be mounted on the case of a wire recorder, a pair of spaced convex terminals countersunk within said block, extensions on said spaced terminals adapted to be connected to a source of low voltage within the wire recorder to cause heating of the wire upon contact therewith to an annealing temperature, said insulating block having a countersunk channel extending from the extremities thereof in a straight line and connecting said pair of spaced countersunk terminals whereby spaced points on the wire to be heated may be placed in said channel to contact said terminals, said channel protecting the wire during heating from short circulting, and also reducing ambient air effects on the annealing temperature; the voltage, terminal spacing and cross section of said channel being so proportioned that a temperature sufficient for annealing but not high enough to damage the wire is produced and maintained upon and during contact between the wire and said terminals.

2,421,538
THERMOSTATIC SWITCH

Earl K. Clark, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application May 21, 1941, Serial No. 394,469. Divided and this application January 13, 1945, Serial No. 572,694
2 Claims. (Cl. 200—122)

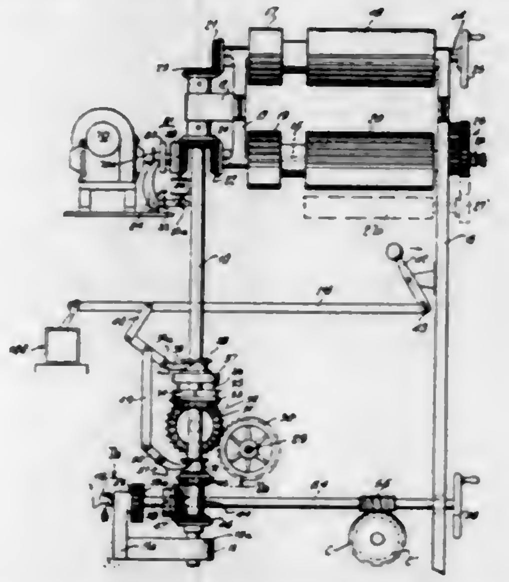


1. In a thermostat, the combination of a support, a stationary contact mounted on said support, a resilient contact-carrying member rigidly mounted on said support at one end thereof and carrying at its other end a movable contact which cooperates with said stationary contact, said contact-carrying member being self-biased to resiliently hold the cooperating contacts in engagement, a bimetallic element responsive to temperature for actuating the contact-carrying member, said bimetallic element being disposed intermediate the mountings for the stationary contact and the contact-carrying member and between the support and the contact-carrying member, an offset finger member associated with the bimetallic element and disposed intermediate the support and said bimetallic element, a resilient member disposed between the support and the contact-carrying member and attached to the mounting of the latter, one end of said bimetallic element and one end of the finger member being rigidly attached to each other and to one end of the resilient member, said bimetallic element and said finger member being so positioned that upon an increase in temperature the bimetallic element bows away from the finger member to actuate the contact-carrying member in an opening direction, an adjusting screw carried by said support and disposed between the mountings for the stationary contact and the contact-carrying member, said adjusting screw constituting an adjustable stop for the finger member to limit movement away from said contact-carrying member and to selectively vary the angular position of the fixed end of the bimetallic element and thereby vary the deflection of the bimetallic element required to open the cooperating contacts.

2,421,539
LOOM REVERSING MECHANISM

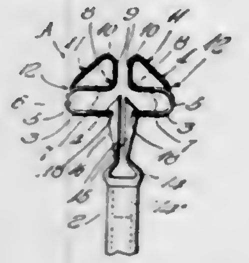
Farrell V. Clarke, Uxbridge, Mass., assignor to Uxbridge Worsted Co., Inc., Uxbridge, Mass., a corporation of Massachusetts
Application October 12, 1944, Serial No. 558,314
21 Claims. (Cl. 139—1)

21. The method of operating a loom to replace a broken pick which comprises driving the pattern chain and the cloth roll in reverse, positively driving the warp roll in reverse continuously for the duration of the reverse weaving action, and interrelating both drives to control their duration and render them co-extensive, timing the reverse drive of said pattern chain and cloth roll and stopping said reverse drive automatically at a predetermined point in the cycle of the pick.



2,421,540
SAFETY RAZOR

Oliver H. Clarke, Washington, D. C.
Application October 25, 1943, Serial No. 507,558
8 Claims. (Cl. 30—47)

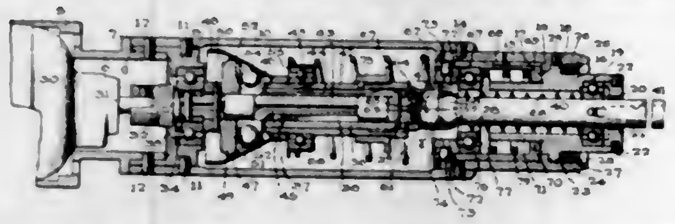


1. A razor head comprising a piece of sheet metal, said sheet metal being bent to form a horizontally disposed base portion, side members extending upward from the base portion, intermediate portions, and downwardly extending end portions terminating in cutting edges arranged in parallel guarded relation with respect to said side members.

2,421,541
AUTOMATIC DRILL HEAD

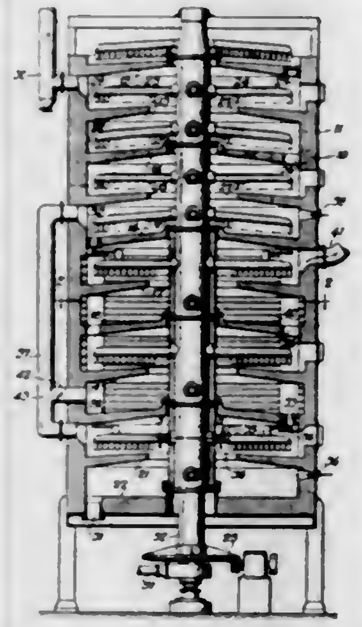
Philip S. Claus, Plymouth, and Eber J. Readman, Huntington Woods, Mich.; said Readman assignor to said Claus
Application March 14, 1945, Serial No. 582,646
19 Claims. (Cl. 77—33)

1. In a device of the class described including a motor-driven shaft, a spindle connected to said shaft to rotate therewith but movable longitudinally with respect thereto, said spindle being adapted to receive the shank of a rotary cutter, a feed sleeve movable longitudinally of said shaft, and means for advancing said sleeve automatically as the shaft rotates, the combination of a member pivotally mounted on said spindle and normally having a portion thereof disposed in the path of said advancing sleeve, whereby the advance of said sleeve advances said spindle to feed it, and means, automatically effective at a predetermined point in the advance of said spindle, for rocking said pivotally mounted member on the spindle to withdraw the member from the path of the advancing sleeve and thus discontinue the spindle feed.



2,421,542
METHOD AND FURNACE APPARATUS FOR CALCINING CARBONATE MATERIAL AND FOR OTHER PURPOSES

George E. Connolly, San Francisco, Calif., assignor to Nichols Engineering & Research Corporation, a corporation of Delaware
Application April 21, 1943, Serial No. 483,920
9 Claims. (Cl. 263—26)



1. Method for calcining carbonate material for the recovery of oxide and gas of high carbon dioxide content, comprising passing the material successively over a plurality of superposed hearths, including an upper hearth or hearths forming a drying and preheating zone, an enclosed plurality of hearths forming an intermediate zone and another enclosed hearth or hearths forming a lower zone, subjecting the material in said lower zone to a time and temperature treatment in the presence of burning fuel, sufficient to largely complete dissociation of the carbonate, conducting resulting hot gases from said lower zone into the upper zone to heat the latter, subjecting the material in the intermediate zone to a time and temperature treatment sufficient to dissociate the carbonate therein to a substantial extent while largely or wholly excluding gases of combustion therefrom, and withdrawing the resulting gas of high carbon dioxide content from said intermediate zone independently of the gases passed from the lower zone into the upper zone.

2,421,543
LUBRICANT

James F. Cook, Albany, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application January 19, 1945, Serial No. 573,629
6 Claims. (Cl. 252—25)

1. A composition of matter comprising a lubricant of the class consisting of oils and greases and a small amount, sufficient to impart extreme pressure properties to said lubricant, of a finely divided, non-crystalline metallic sulfide dispersed therein.

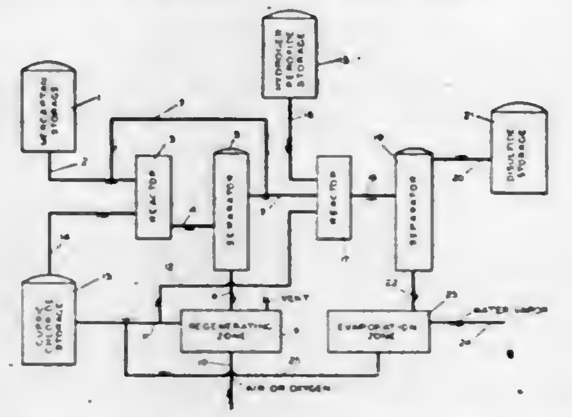
2,421,544
VULCANIZATION ACCELERATORS FOR NATURAL AND SYNTHETIC RUBBER

Elmer W. Cook, New York, N. Y., and Edwin O. Hook, Norwalk, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 23, 1944, Serial No. 527,826
6 Claims. (Cl. 260—789)

1. The process which comprises vulcanizing rubber and sulfur-vulcanizable rubber-like materials in the presence of sulfur and a powdered, resinous fusion product of approximately 1 mol of zinc chloride, 1 to 2 mols of a monoarylguanidine, 2 to 8 mols of paraformaldehyde and 2 to 8 mols of mercaptobenzothiazole.

2,421,545
MERCAPTAN OXIDATION PROCESS

Willie W. Crouch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 13, 1944, Serial No. 535,504
10 Claims. (Cl. 260—608)

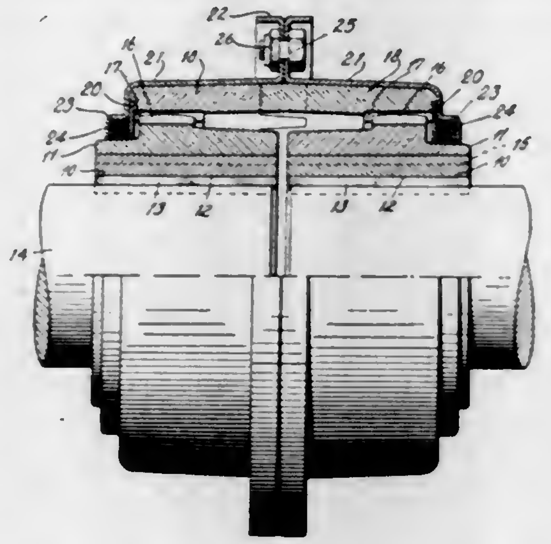


1. In a process for the oxidation of a high molecular weight alkyl mercaptan to a disulfide by treatment with an aqueous solution of cupric chloride which yields a product that is contaminated with unoxidized mercaptans and copper compounds, the improvement which comprises subjecting said product in the presence of hydrochloric acid to the action of hydrogen peroxide in such amount and for such period that the resulting product is substantially free from unoxidized mercaptans and copper compounds.

2,421,546
FLEXIBLE COUPLING

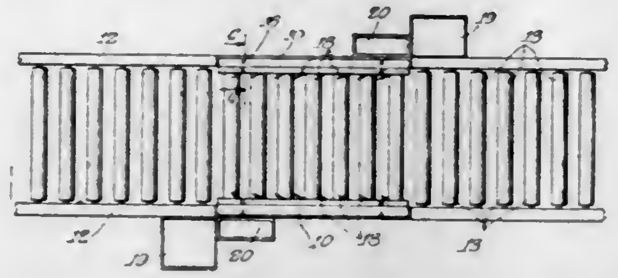
George A. Dalton, New Brunswick, N. J., assignor to John Waldron Corporation, New Brunswick, N. J., a corporation of New Jersey
Application March 10, 1944, Serial No. 525,958
1 Claim. (Cl. 64—9)

A gear type flexible coupling comprising a pair of hubs adapted to be mounted on a pair of shafts and being composed at least in part of thermosetting plastic material, a cover surrounding said hubs and consisting of a pair of sleeve sections composed of thermosetting plastic material and having interengageable portions for transmitting torque between said hubs, a flat metal ring seated in a recess at one end of each hub, a metal casing encircling each cover section and having an outwardly extending radial lip, said casing serving to hold said ring in its recess and having a portion forming a groove with said ring, an annular gasket received in said groove, means interconnecting said casings to maintain the interengaging portions of said hubs in torque-transmitting relationship, exterior rows of teeth on said hubs and interior rows of teeth on said cover sections co-operating with said hub teeth, both the hub teeth and cover teeth having contacting plastic material surfaces.



2,421,547
BUTCHERING APPARATUS

Estel Derice Davidson, St. Louis County, Mo.
Application September 18, 1944, Serial No. 554,639
1 Claim. (Cl. 17—24)

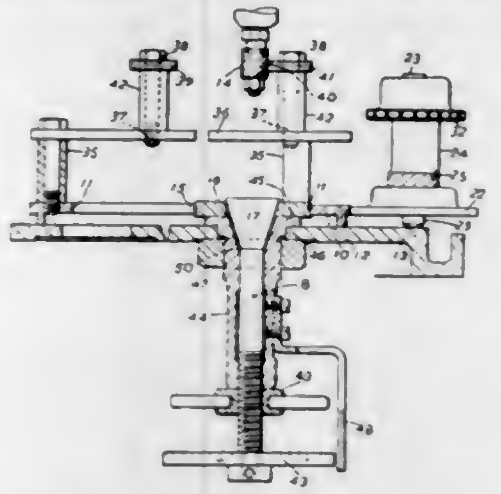


Butchering apparatus comprising a conveyor; a holding bar pivotally mounted at one side of said conveyor; springs arranged to force said holding bar to swing upwardly and outwardly relative to said conveyor; a releasable latch arranged to lock said holding bar in various positions of adjustment; and forwardly inclined impaling pins on the inner edge of said bar adapted and arranged to hold temporarily for further cutting a part of an animal body resting on the conveyor.

2,421,548
APPARATUS FOR GRINDING ARTICLES OF IRREGULAR FORM

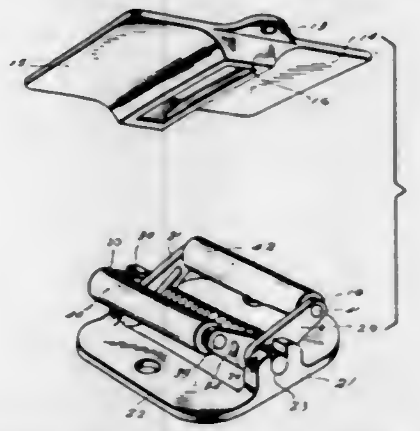
Rowland Davies, Gerrards Cross, England, assignor to The Metal Box Company Limited, Perrywood, Worcester, England, a company of Great Britain
Application June 20, 1945, Serial No. 600,458
In Great Britain July 3, 1944
15 Claims. (Cl. 51—101)

1. Apparatus for grinding articles of irregular form, comprising in combination, a grinding wheel, a cam for supporting the article and having a contour parallel to the contour to be ground, means for causing the cam to gyrate in a plane perpendicular to the grinding wheel axis and an adjustable abutment consisting of an element axially aligned with the grinding wheel axis and a second element with which the cam contacts as it gyrates and which is movable for adjustment relative to the first element.



2,421,549
VIBRATION DAMPING DEVICE

Robert W. Dillon, Morgantown, W. Va.
Application January 12, 1945, Serial No. 572,512
5 Claims. (Cl. 248—20)

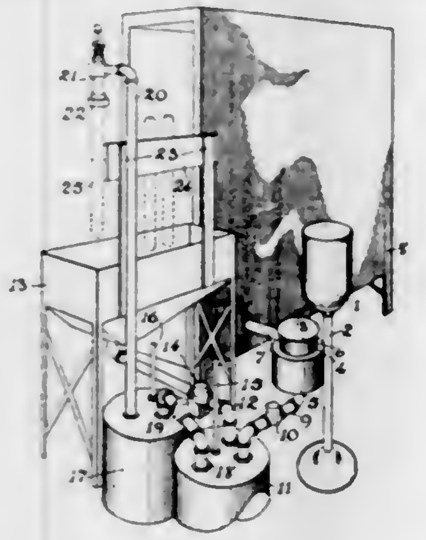


1. A vibration damping device comprising spring control oppositely acting support members, rollers carried by said members, shafts upon which the rollers are mounted, a pair of rotatable arms for each of said shafts, a third shaft upon which the arms are rotatably mounted, a helical spring on said last shaft, one end of which is fixed to one of one pair of said arms and the other end to one of the other pair of said arms, and a base upon which the last shaft is mounted, a second base supporting body seated upon said rollers, wings extending from said body upon which said roller acts, said wings being arcuate with their connection in said body.

2,421,550
METHOD OF COATING TUBULAR GLASS ARTICLES WITH LUMINOUS MATERIAL

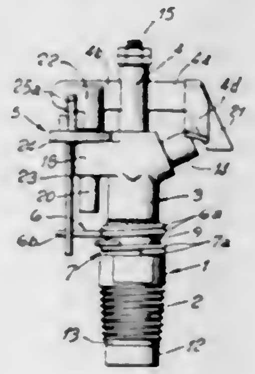
Alfred J. Donovan, Danvers, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application March 28, 1942. Serial No. 436,691
1 Claim. (Cl. 117—97)

In a method of coating the inner walls of tubular glass articles with a suspension of luminous material containing relatively highly volatile solvents; the method of recovering substantially all of the drainage from the coating operation and maintaining the viscosity thereof substantially constant in an uninterrupted sequence of operations, comprising the steps of positioning the tubes substantially vertical, flowing upon each tube a quantity of the suspension substantially great compared to that required to coat the tube upon the tube walls near their upper ends from a body of mother liquid, permitting the suspension to flow down along the tube walls, collecting the initial immediate drainage from the tubes and continuously returning it to said body of mother liquid, passing a succession of tubes thus treated through a drying area at a predetermined rate of speed, collecting the drainage from the tubes while they are passing through said drying area, determining the loss of solvent in this drainage due to evaporation during passage of the tubes through the drying area, continuously adding new solvent to this drainage at a rate based on the determined loss of solvent thereby to maintain the viscosity of the drainage substantially equal to the mother liquid and continuously returning the restored drainage to the body of mother liquid.



2,421,551
SPRINKLER HEAD

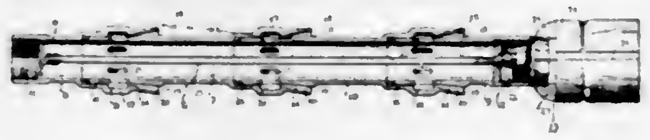
Delbert F. Dunham, Tujunga, Calif.
Application October 13, 1944, Serial No. 558,562
14 Claims. (Cl. 299—71)



1. A rotary sprinkler comprising: a stationary fixture arranged for connection with a source of water supply, a nozzle rotatable thereon, an impulse member rotatable both on and with said nozzle and having means disposed adjacent said nozzle and under the influence of the stream of water issuable from said nozzle including a central vane and inclined wings outwardly of opposite sides of said vane for oscillating the impulse member so as to direct the stream of water over a predetermined area, and cooperating means on said fixture and associated with said impulse member for limiting the movement of the nozzle and the impulse member together in the opposite directions and to a predetermined extent.

2,421,552
CASING AND NOZZLE CONSTRUCTION FOR ROCKET MOTORS

Carolus L. Eksergian, Detroit, Mich., assignor, by mesne assignments, to United States of America
Application December 27, 1943, Serial No. 515,836
5 Claims. (Cl. 60—35.6)

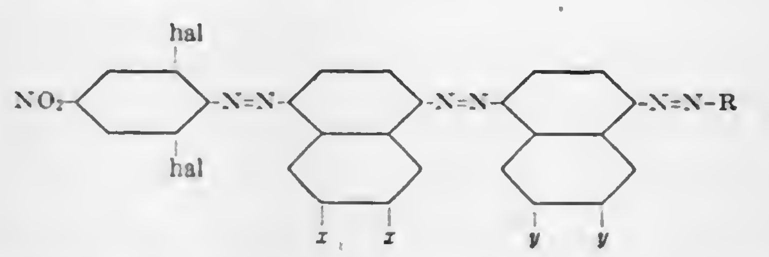


1. A rocket motor for rocket-propelled devices, comprising axially aligned, forward and rearward tubular sections adapted to contain a combustible propelling charge, the forward end of the rearward section being secured within the rearward end of the forward section, said forward section having an annular skirt portion surrounding the rearward section in circumferentially spaced relation and extending rearwardly from the region of securement of the forward and rearward sections to provide a rearwardly opening chamber, at least one aperture through the wall of said rearward section opening directly into said chamber, the walls of said chamber being contoured to provide a propulsion jet.

2,421,553
AZO DYES FROM 2,6 DIHALO 4 NITRANILINE

Friedrich Felix, Basel, and Rudolf von Capeller, Riehen, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland, a Swiss firm
No Drawing. Application February 26, 1945, Serial No. 579,902. In Switzerland March 15, 1944
6 Claims. (Cl. 260—169)

1. A dyestuff corresponding in the free form to the general formula



wherein hal stands for one of the halogens chlorine and bromine, one *x* and one *y* each stand for a hydrogen atom and one *x* and one *y* each stand for a member of the group consisting of hydrogen and SO_3H, and R stands for a sulfonated aminonaphthalene compound.

2,421,554
CATALYTIC CLEAVAGE OF GLYCOLS

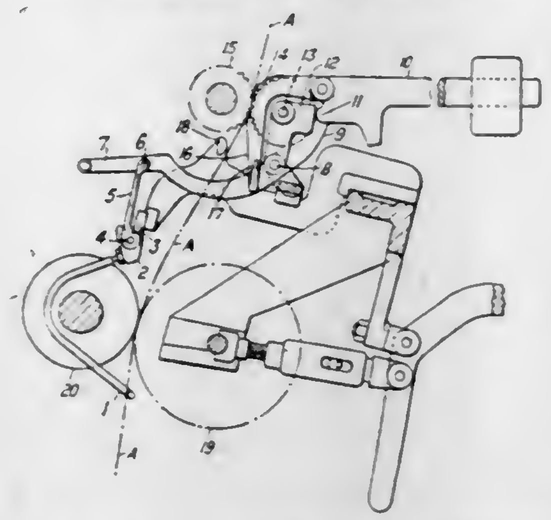
Harry de V. Finch, Berkeley, and Seaver A. Ballard, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 1, 1943, Serial No. 485,556
1 Claim. (Cl. 260—603)

A process for producing isobutylene and acetaldehyde which comprises contacting the vapors of 2-methylpentane-2,4-diol, with a dehydration catalyst comprising sodium dihydrogen phosphate on Activated Alumina, at a temperature of from about 200° C. to about 500° C.

2,421,555
STOP MOTION FOR SPINNING AND LIKE TEXTILE FRAMES

Gordon Scott Fraser, Arbroath, Scotland, assignor to Douglas Fraser & Sons Limited, Arbroath, Angus, Scotland, a corporation of Great Britain

Application October 16, 1945, Serial No. 622,675
In Great Britain March 5, 1945
2 Claims. (Cl. 57—84)

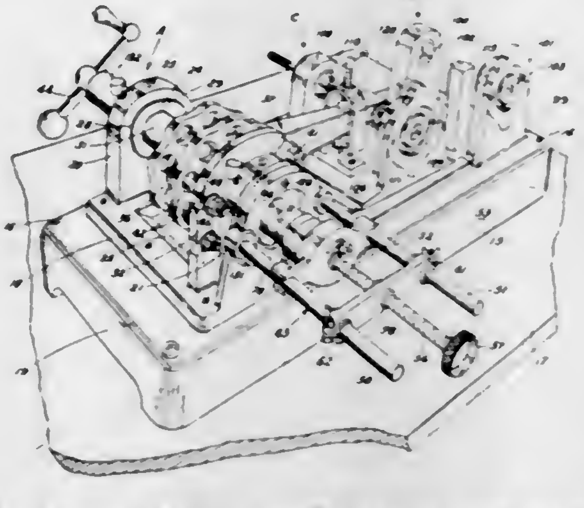


1. A stop motion mechanism for spinning and like textile frames having a retaining pressing roller, and a companion roller, comprising a member affording a pivot bearing and a feeler forming with said member a unit, a stationary knife-edged member engageable with the bearing, a link having at one end a permanent pivotal connection with said first mentioned member, a lever to which said link is pivoted at its other end, said link and said first mentioned member constituting limbs of a toggle, and a weight device influencing said lever, said weight-device normally functioning to urge the retaining pressing roller against its companion roller, but being free to fall on the breaking of the toggle.

2,421,556
CONNECTING ROD BORING MACHINE

Charles A. Fulmer, Fort Thomas, Ky.

Application February 16, 1944, Serial No. 522,549
3 Claims. (Cl. 77—3)

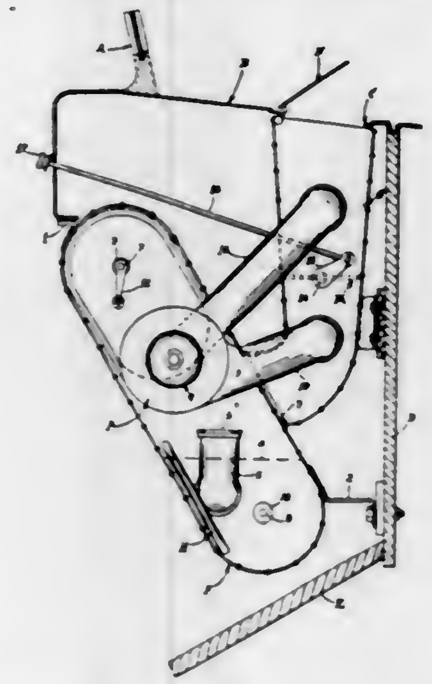


1. In a connecting rod boring machine the combination of a base, a fixed boring station disposed on each end of the base, a movable boring station mounted on the base for longitudinal movement between the fixed stations, a rotated tool bar adapted for selective mounting at any one of the said stations for rectilinear movement, a tool bar advancing unit adapted for selective mounting on any one of the stations, a rotationally actuated advancing element in the unit adapted for intermittent, rectilinear movement, and means for detachably coupling the advancing element to the bar when said bar and unit are mounted at a single station, whereby a universal boring machine is provided for producing finished surfaces on both bushings of all types of connecting rods.

2,421,557
HYDRO-VAPOR AIR CONDITIONER

George Haniquet, Glendale, Calif.

Application June 2, 1945, Serial No. 597,301
4 Claims. (Cl. 261—80)



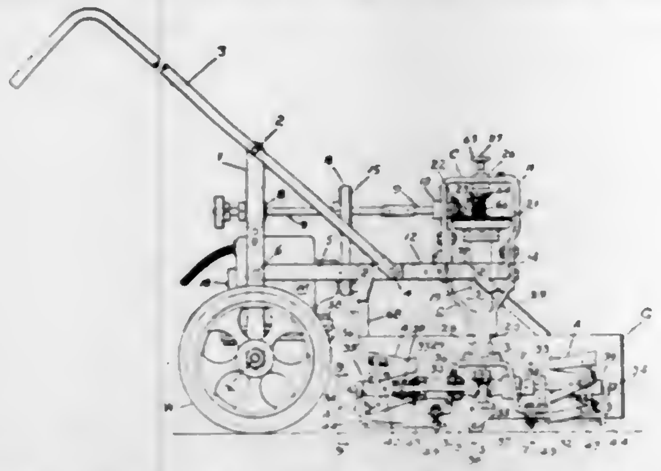
1. A hydro-vapor air conditioner comprising a casing adapted to hold a fluid in the lower portion thereof, an endless fabric, means for causing the fabric to follow the contour of the inner surface of the casing so that it will extend into the fluid, said casing having an air inlet and air outlets, the air outlets being disposed adjacent to a portion of the fabric, and means for moving the fabric so that a wet portion saturated by the fluid in the casing can be moved opposite the air outlets so that the air passing through the outlets will pick up moisture from the fluid impregnated fabric, this air being cooled by the evaporation of the moisture picked up, an air conduit leading from a cowl inlet of an automobile and extending to the air inlet of the casing, said cowl inlet being provided with a cover which when opened will direct air into the conduit, a butterfly-valve mounted in the air conduit and manually swingable from open to closed position, a blower, an air passage leading from the air conduit at a point between the valve and the cowl inlet to the blower entrance, and a second air passage leading from the blower outlet to the air conduit and communicating with the air conduit at a point between the valve and the casing air inlet, whereby a closing of the valve and a starting of the blower will draw in air through the first air passage and force it out through the second air passage and through the casing.

2,421,558
LAWN MOWER

William D. Goldsmith, Portland, Oreg.

Application July 6, 1944, Serial No. 543,669
5 Claims. (Cl. 56—26)

1. A mowing apparatus of the character described comprising a portable body including an upstanding housing, a tubular shaft mounted within and extending through the housing, a shaft disposed through the tubular shaft, means for rotating the tubular shaft and the second shaft, a bearing member carried by the lower portion of the tubular shaft for rotation therewith, oppositely disposed shafts carried by the bearing member and extending outwardly therebeyond, a driving connection between the second shaft and each of the shafts carried by the bearing member, and mowing blade assemblies carried by the shafts of the bearing member outwardly of said bearing member.



2,421,559
ACETALS OF PYRUVIC ALDEHYDE

Howard R. Guest, Charleston, W. Va., Louis G. MacDowell, Lakeland, Fla., and Raymond W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

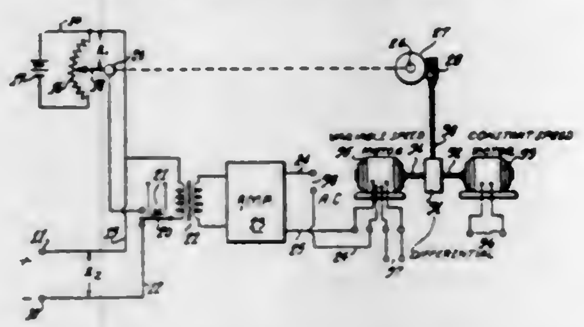
No Drawing. Application January 14, 1944, Serial No. 518,304
4 Claims. (Cl. 260—594)

1. Process for making di-acetals of pyruvic aldehyde with monohydric alcohols which comprises heating a mixture of pyruvic aldehyde, a monohydric alcohol, an inert, water-immiscible organic liquid boiling below 100° C., and an acid catalyst, distilling water from the mixture as the reaction progresses at a temperature between about 50° C. and about 100° C., and recovering a substantially pure di-acetal of pyruvic aldehyde from the reaction mixture by fractional distillation.

2,421,560
DIFFERENTIAL VOLTAGE CONTROL SYSTEM

Harold E. Haynes, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware

Application September 3, 1943, Serial No. 501,094
8 Claims. (Cl. 171—95)

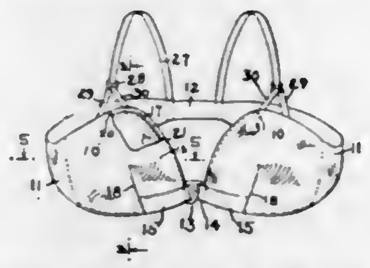


1. A control system consisting of the combination of a potentiometer having a movable indicating element, means for varying the position of said element including a differential gearing, a constant speed electric motor connected to said gearing, and a variable speed electric motor connected to said gearing, a source of varying voltage to be measured, a source of fixed voltage for equalizing the speed of said variable motor with the speed of said constant speed motor, a circuit including a source of reference voltage and said potentiometer, and means controlling the speed of said variable speed motor by the difference between said reference voltage and said variable voltage, whereby said indicating element moves as a function of said difference.

2,421,561
BRASSIÈRE

Lillian Hunau, Brooklyn, N. Y.

Application July 19, 1946, Serial No. 684,708
3 Claims. (Cl. 2—42)

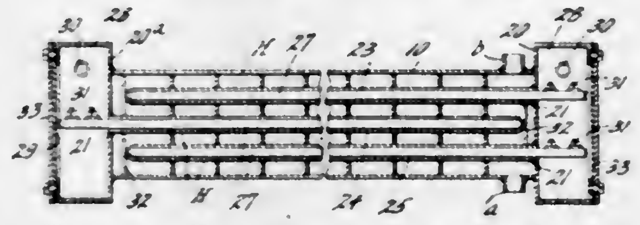


1. A brassière comprising a pair of breast cups, each comprising an inner and an outer member forming a pocket between them, a formed pad inserted in said pocket, said members being sewed together around their peripheries except from a point intermediate the top edge to a point intermediate the inner edge, said cups being connected together only at their lower inner edges, and a body encircling band attached to the outer edges of said cups, each cup having a shoulder strap and a loop connected by a buckle, the back end of said shoulder strap being connected to the body encircling portion, one end of said loop being connected to both of said members adjacent to said point intermediate the top edge, and the other end of said loop being connected to the inner member at a point intermediate between the ends of said opening.

2,421,562
APPARATUS FOR HEATING OIL AND OTHER FLUID MEDIA

Lee P. Hynes, Haddonfield, N. J.

Application May 10, 1944, Serial No. 534,975
13 Claims. (Cl. 219—39)



1. A heating apparatus of the character described having in combination a casing provided with an inlet and an outlet, a plurality of flat, flow-directing partitions each of a width extending transversely across the casing from the front wall to the rear wall thereof and of a width to contact with said walls, said partitions being shorter than the length of the casing and extending longitudinally of the casing from the respective ends thereof and in alternate relationship, each partition having one end extended through and sealed to and supported by an end wall of the casing, the other end thereof terminating at a position adjacent to the other end wall of said

casing, so as to provide a continuous tortuous channel from the inlet to the outlet, baffles located between the respective partitions to control the velocity of flow of the fluid through said channel, and means for independently heating each of said partitions.

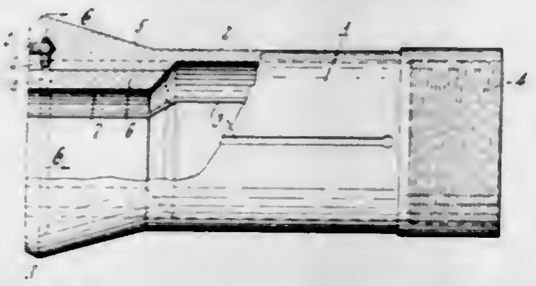
2,421,563

STOCK GRIPPER WITH REMOVABLE PADS

John M. Ingalls, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont

Application August 11, 1944, Serial No. 549,043

11 Claims. (Cl. 279—51)



1. A work gripper comprising a tubular holder, work-engaging pads on the interior of said holder, said pads and holder having interengaging portions permitting relative axial motion between said pads and holder but preventing radial detachment thereof, and an element rockably carried by said holder for motion laterally of said interengaging portions between an angular position obstructing said relative axial motion and an angular position not obstructing such relative axial motion.

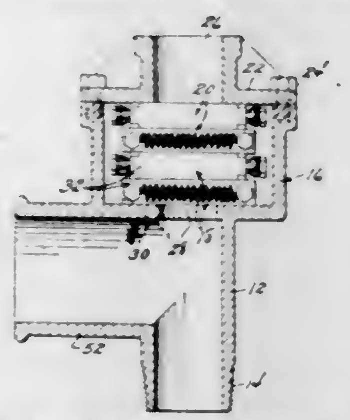
2,421,564

SUCKER ROD SCRAPER

George Kleiderlein, Bradford, Pa.

Application February 28, 1944, Serial No. 524,258

2 Claims. (Cl. 166—16)



1. A well rod cleaner consisting of a housing adapted to be attached to well tubing and through which is reciprocated a well rod, a plurality of superimposed cleaner plate assemblies loosely mounted in said housing and adapted to scrape from the surfaces of said well rod any accumulation of foreign matter, each said cleaner plate assembly consisting of a pair of relatively movable plate members arranged to abut each other along adjacent edges thereof, bars secured to parallel sides of one of said plate members and extending beyond said member to slidably engage parallel sides on the other of said plate members, slots in the ends of the extending portions of said bars, bolt means secured to the parallel sides of said other of said plate members and slidably received within the slots in said bars, spring means secured to said bars and to said bolt means for yieldingly biasing said plate members toward each other for engagement along said adjacent edges, each plate member having a recess in said adjacent edge, said recesses facing each other whereby when said plate members are abutting each other at said corresponding edges said recesses form a single opening through which passes the well rod in contact with the sides of said recesses whereby foreign matter is removed from the well rod surfaces.

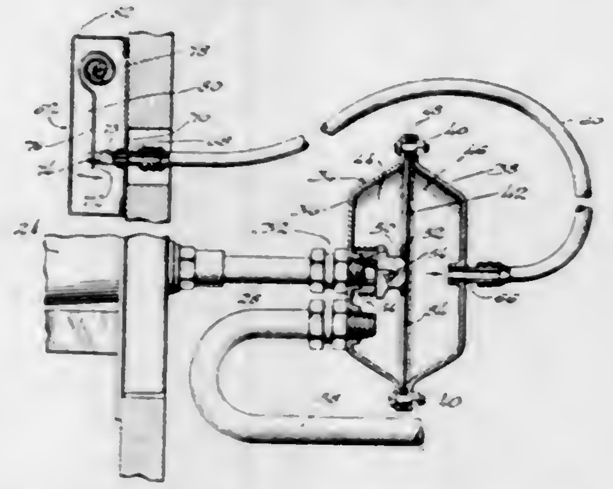
2,421,565

HEATER CONTROL

Charles W. Klug, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application December 16, 1943, Serial No. 514,457

7 Claims. (Cl. 237—2)



2. A control for an internal combustion heater utilized to heat a passenger compartment of an automobile and having a discharge pipe adapted for connection with a source of suction, said control comprising a housing connected to said pipe, a diaphragm dividing said housing into a pair of chambers, a valve carried by said diaphragm and controlling communication between said pipe and one of said chambers, a second pipe connecting said chamber with a source of suction, a restricted communication between said chambers, an air inlet for said other chamber, and a thermostat controlling admission of air through said inlet.

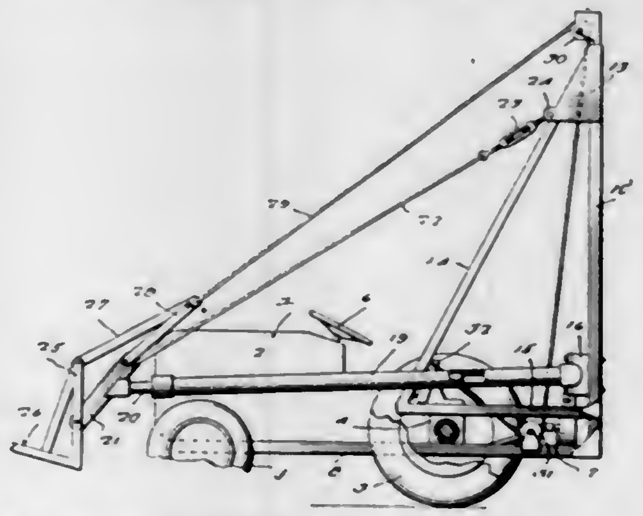
2,421,566

HYDRAULIC LOADER AND STACKER

Solomon W. Kober, Billings, Mont.

Application March 20, 1945, Serial No. 583,735

6 Claims. (Cl. 214—141)



1. A tractor mounted loading device comprising a frame including upstanding posts rigidly supported rearwardly of the rear wheels of the tractor, telescoping booms positioned at opposite sides of the tractor, said booms being pivotally connected at their rear ends to the frame at a level above the level of and spaced to the rear of the rear wheel axles of the tractor for up and down movements at their forward ends, load carrying means on said forward ends, means for extending the booms lengthwise in a forward direction, radius means embodying an arm rigidly carried by each of the forward ends of the booms and a flexible member connecting the rearward end of each of said arms pivotally to the upper end of an upstanding post of said frame complemental thereto, said radius means being mounted for up and down swinging movements and being operative to guide the booms upwardly responsive to extension of the booms.

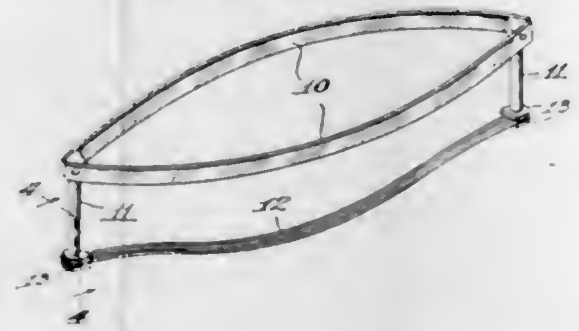
2,421,567

VARIABLE TENSION VIOLIN BOW

William Karl Krause, Los Angeles, Calif.

Application January 10, 1945, Serial No. 572,185

5 Claims. (Cl. 84—282)



1. A variable tension violin bow comprising a narrow elongated elliptical resilient frame capable of elongation as a result of inward pressure on its sides, and a normally slack friction producing element suspended from the ends of said frame.

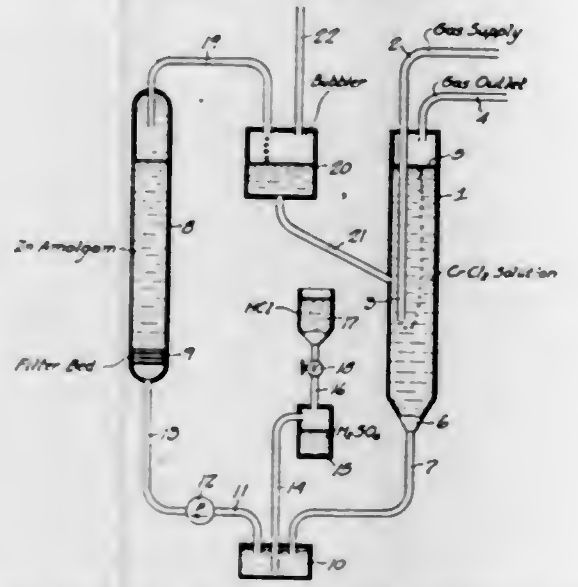
2,421,568

METHOD FOR ABSORBING OXYGEN

Leonard Kurland, East Chicago, Ind., assignor to The Hays Corporation, Michigan City, Ind., a corporation of Indiana

Application October 6, 1944, Serial No. 557,508

10 Claims. (Cl. 23—2)



5. The method of absorbing oxygen content in a gas sample including the steps of passing a gas sample through an acidic chromous chloride solution in one chamber of a closed liquid system, passing said solution through a zinc amalgam in another chamber of said system to regenerate the same, continuously unidirectionally circulating said solution in said system at a rate at least equal to the rate of oxidation thereof while maintaining the level thereof in said first chamber at constant height, and introducing HCl into said oxidized solution at regulated rate to maintain the acid condition of said solution substantially constant.

2,421,569

INSECTICIDE

Frederick B. La Forge, Arlington, Va., and William F. Barthel, College Park, Md., assignors to United States of America, as represented by the Secretary of Agriculture

No Drawing. Application October 4, 1944, Serial No. 557,214

8 Claims. (Cl. 167—24)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insecticidal composition comprising pyrethrum and 3,4-methylenedioxybenzyl n-propyl ether as a synergist therefor.

2,421,570

INSECTICIDE

Frederick B. La Forge, Arlington, Va., assignor to United States of America, as represented by the Secretary of Agriculture

No Drawing. Application October 4, 1944, Serial No. 557,215

8 Claims. (Cl. 167—24)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insecticidal composition comprising pyrethrum and alpha-(3,4-methylenedioxyphenyl)-tetrahydropyran as a synergist therefor.

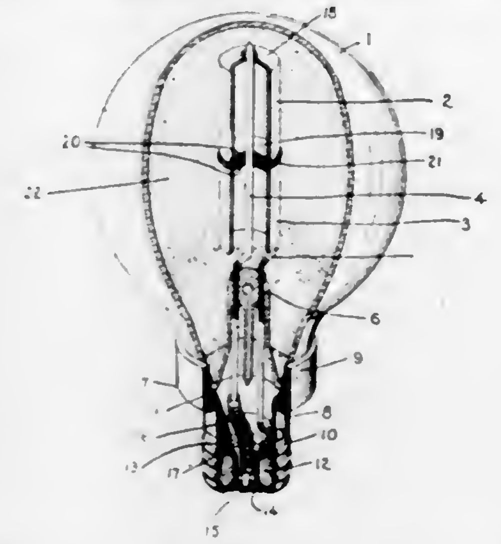
2,421,571

FLUORESCENT GLOW LAMP

William E. Leyshon, Salem, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application July 25, 1945, Serial No. 606,982

2 Claims. (Cl. 176—122)



1. A fluorescent discharge lamp comprising a glass envelope of the bulbous type, a pair of hollow elongated cylindrical electrodes within the envelope disposed in end to end spaced relation and having a low work function coating thereon, a base secured to the envelope and having contacts, a lead wire sealed in said envelope extending from a base contact axially through both electrodes and connected to the outer end of the electrode remote from the base, a second lead wire sealed in the envelope connected to the other electrode and extending to a contact on the base, said envelope having an atmosphere comprising

20 to 30% krypton and the balance argon at a pressure of approximately 16 to 20 millimeters of mercury and a coating of fluorescent powder on the inner wall of said envelope.

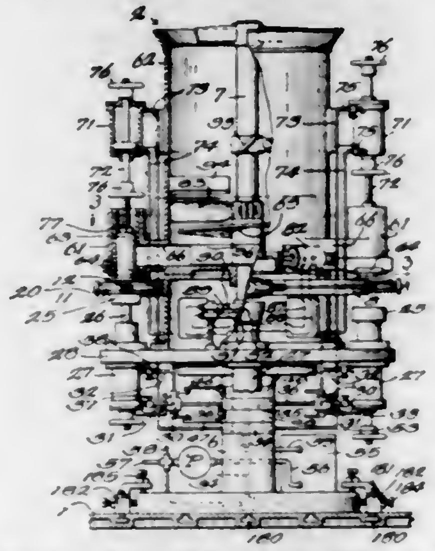
2,421,572

APPARATUS FOR FEEDING CLAY TO MOLDS IN THE MANUFACTURE OF POTTERY WARE

William J. Miller, Swissvale, Pa., assignor to Miller Pottery Engineering Company, Swissvale, Pa., a corporation of Pennsylvania

Original application October 6, 1941, Serial No. 413,734. Divided and this application September 22, 1943, Serial No. 503,375

27 Claims. (Cl. 25—103)



1. Apparatus for charging jigger molds with plastic clay, including a horizontal support provided with spaced recesses therethrough for receiving mold supports, means for continuously rotating said support, means above and in register with said recesses and continuously rotatable therewith for feeding clay to molds, a plurality of mold supports and an endless, continuously traveling conveyor to which said mold supports are attached for carrying said members horizontally into interfitting relation with said recesses whereby successive molds are indexed with successive clay feeding means to receive clay therefrom.

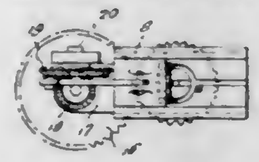
2,421,573

MACHINE FOR PRODUCING SHINGLE ANCHOR NAILS AND THE LIKE

John P. Moore and Merlin B. Dunlap, Clearwater, Fla.

Application August 11, 1944, Serial No. 549,032

3 Claims. (Cl. 140—92)



1. A machine of the class described comprising a body having a guideway, a slide in the guideway, a rotary core in the body through which a wire blank is fed to the guideway, said slide movable transversely of the axis of the core and being operative to bend an upstanding portion of the blank downwardly, said core being rotatable to wind said bent down portion of the blank into a ring form, said body being provided with a gear mounted thereon, a pitman between the gear and the slide, a gear on the core, a drive shaft, and gears secured to the shaft and respectively engaged with said first and second gears to drive both.

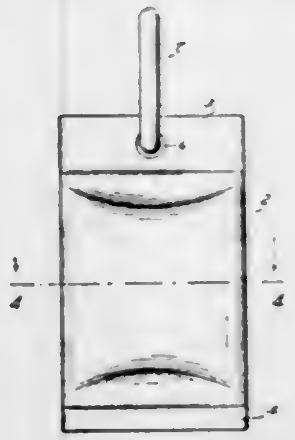
2,421,574

TEETHING AID

Marshall F. Newmark, Tucson, Ariz.

Application October 8, 1945, Serial No. 620,928

2 Claims. (Cl. 128—359)



1. A teething aid for infants, composed of a resilient plastic material resistant to abrasion and unaffected by contact with boiling water and freezing water composed of a flattened tubular body, welded shut at each end to provide a hollow interior, said interior being filled with water; one of the welded ends of said body being pierced to receive a ring, together with a ring of resilient plastic material resistant to abrasion and the temperatures of boiling and freezing water.

2,421,575

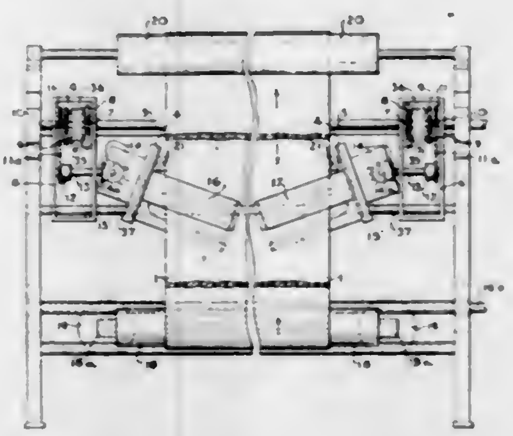
METHOD AND APPARATUS FOR THE STRAIGHTENING OF THE WEFTS OF WOVEN TEXTILE FABRICS

Leslie Camden Nield, Glossop, England, assignor to Tootal Broadhurst Lee Company Limited, Manchester, England, a British company

Application April 27, 1944, Serial No. 533,006

In Great Britain April 27, 1943

5 Claims. (Cl. 26—65)



1. A method of straightening the weft threads of a cloth web consisting in constraining the web of cloth to move with its edges within predetermined parallel limits and at equal speeds, applying a pull to the web by forces acting equally and oppositely to one another and applied along a line normal to the direction of displacement of the web, and using the movement outwards of either one or other edge of this web outside one of said limits which will occur whenever the said pull on the web no longer coincides with the direction of the weft threads to operate weft straightening means to effect movement of said edges at differential speeds while maintaining applied the aforesaid pulling forces.

2,421,576

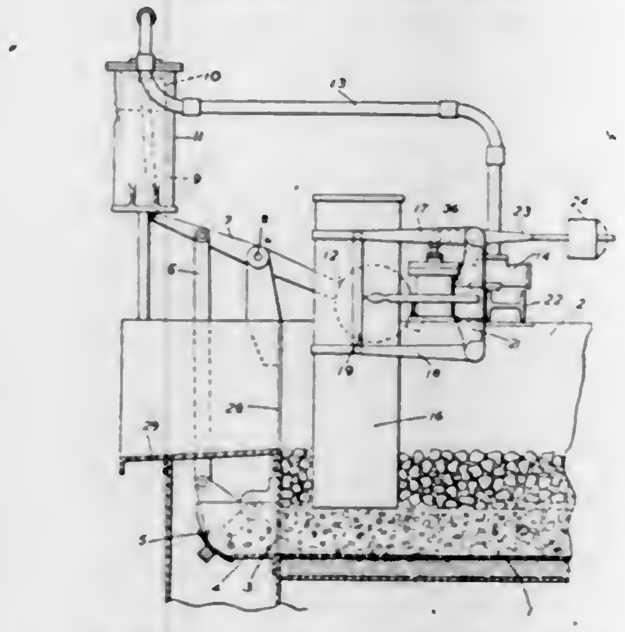
RETARDED FLOAT CONTROL MECHANISM FOR COAL WASHING JIGS

Ronald Mervyn Norton, Tividale, Tipton, England

Application March 23, 1944, Serial No. 527,743

In Great Britain April 7, 1943

4 Claims. (Cl. 209—496)



1. In a washing jig that includes a float responsive vertically to the level of division between two strata of material undergoing treatment in the jig, and mechanism actuated by the float for adjusting the discharge level of the jig to that of the strata division; means for preventing changes in the vertical position of the float relative to the level of division between the two strata, said means comprising a device for retarding upward movement of the float while allowing it to descend freely.

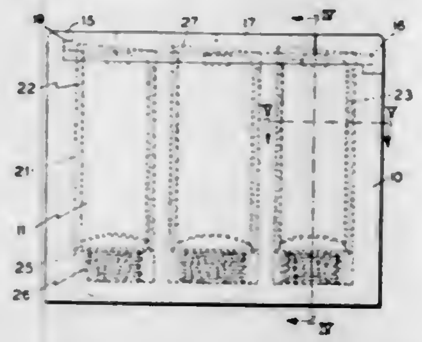
2,421,577

COIN BANK

Ernest D. Pirrung, Struthers, Ohio

Application May 11, 1945, Serial No. 593,258

2 Claims. (Cl. 232—4)



2. A coin bank comprising in combination a body member having a coin receiving well therein, a cover member having a locking detent and adapted to be slid into position on said body member thereby closing off said well to prevent unauthorized removal of coins therefrom, said well having a recess extending up along its side wall, a rod in said recess movable from upper to lower positions and operative when in upper position to engage said detent of said cover member to restrain the same against sliding movement, a coin support secured to the lower end of said rod and spanning said well, a spring in the lower portion of said well urging said support and rod upwardly, a curved leaf spring at the upper end of said well against which coins may wedge to move a stack of coins resting on said support downward against the force of said first mentioned spring thereby moving said rod downwardly, and means providing a passage for the insertion of coins sideways into the upper portion of said well.

2,421,578

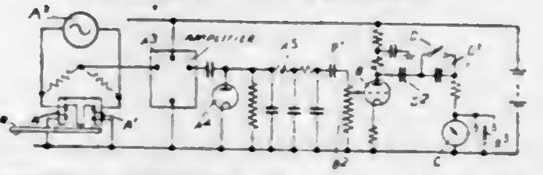
APPARATUS FOR MEASURING THE DEGREE OF ROUGHNESS OF SURFACES

Richard Edmund Reason, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain

Application October 10, 1944, Serial No. 558,053

In Great Britain June 17, 1943

7 Claims. (Cl. 73—105)



1. Measuring or indicating apparatus for giving an average reading representative of the degree of roughness of a surface, comprises a stylus which is traversed over the surface, a detector device for converting the working movements of the stylus approximately normal to the surface into electrical energy, a single indicating meter, alternative filter devices having different frequency-response characteristics, electrical circuits connecting the detector device to the meter through one of said filter devices whereby the meter is caused to give a main average reading of the surface roughness determined by a range of frequencies including those corresponding to the roughness wavelengths but excluding those corresponding to the unwanted longer wavelengths, and switching means for changing over to another of said filter devices in the electrical circuits whereby the meter can be caused to give an auxiliary average reading determined by a range of frequencies including a portion of the range corresponding to such unwanted longer wavelengths.

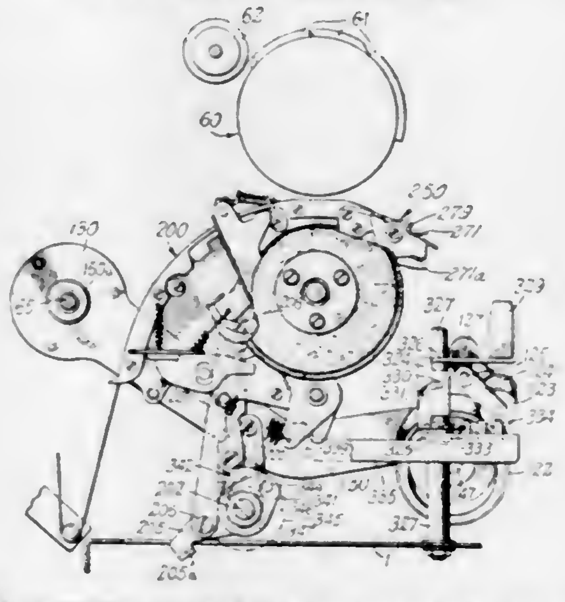
2,421,579

TAPE MOISTENING DEVICE FOR MAIL TREATING MACHINES

Commodore D. Ryan and Edward P. Drake, Los Angeles, Calif., assignors to Commercial Controls Corporation, Rochester, N. Y., a corporation of Delaware

Original application December 11, 1940, Serial No. 369,570. Divided and this application January 19, 1945, Serial No. 573,513

11 Claims. (Cl. 101—232)



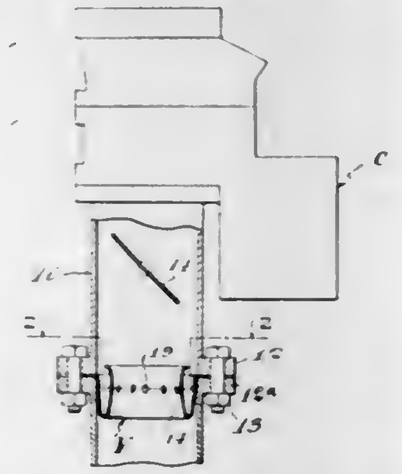
10. A printing machine comprising, in combination, a rotatable printing head, a cooperating

rotatable platen, means for rotating said printing head and platen, means for guiding an object to be printed upon between said printing head and platen, means for engaging and discharging objects after passage thereof between said printing head and platen, means for supporting and feeding a tape between said printing head and platen, means for moving said discharge means from an operative position adjacent said platen and printing head into an inoperative position displaced therefrom, means for moving said tape supporting means into and out of operative relation with said printing head and platen, tape moistening means and means supporting it for movement between operative and inoperative positions, said moistening means and said object discharging means being located in substantially the same position when in their operative positions, control means for moving said tape supporting mechanism into and out of operative position, and means also responsive to said control means for moving said discharging means from said operative to said inoperative position and thereafter moving said moistening means from inoperative into operative position.

2,421,580

FUEL ATOMIZER FOR INTERNAL-COMBUSTION ENGINES

Elmore J. Sanders, San Gabriel, Calif., and Loy Leffingwell, Toledo, Ohio
Application July 12, 1945, Serial No. 604,644
6 Claims. (Cl. 48—180)



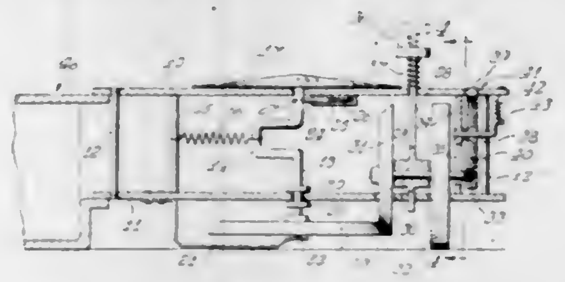
1. A fuel atomizer for internal combustion engines comprising an annulus of sheet material having spaced inner and outer walls, the inner wall having the upper end free from the outer wall and flared outwardly toward the outer wall, said inner wall being curved substantially throughout to provide a Venturi passage therethrough, the lower ends of said walls being fixedly joined to provide a single fuel collecting chamber of substantial size therebetween, said inner wall having an annular row of apertures spaced substantially midway of the upper and lower edges thereof and in the region of greatest suction, and an attaching flange on the upper edge of the outer wall.

2,421,581

DRAFTING MACHINE ROLLING CONTACT DISTANCE CALCULATOR

John H. Scott, Houston, Tex.
Application June 13, 1945, Serial No. 599,136
4 Claims. (Cl. 33—141)

1. A device of the class described comprising a pair of spaced plates having means for securing the plates together in spaced parallel relationship, a crank shaft vertically rotatably mounted between said plates and having its extremities projecting through the plates, the upper extremity of said shaft having a dial thereon, the lower extremity of said shaft having a horizontal bevel gear thereon, a pin slidably projecting through said plates and having an enlarged portion between the plates, said portion having a horizontal shaft extending rotatably therethrough, said horizontal shaft having a vertical bevel gear on one end thereof positioned above said horizontal gear and adapted to be engaged therewith, the other end of said horizontal shaft having a friction wheel rigid thereon of greater diameter than said vertical bevel gear, resilient means normally urging said pin upward to maintain said vertical gear out of engagement with said horizontal gear and to maintain said wheel elevated above the plane of the surface on which the device is being used, said pin being depressible to interengage said gears and to bring said wheel into contact with said surface.



2,421,582

PROCESS FOR REFINING COPPER

Hugh M. Shepard, Baltimore, Md., and James Howard Bryan, Roselle, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 16, 1942, Serial No. 462,292
4 Claims. (Cl. 204—108)

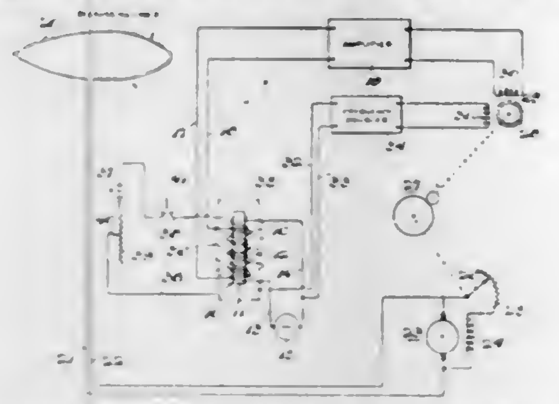
1. The improvement in the method of producing electrolytic copper by the multiple system which comprises the steps of electrodepositing a relatively thin film of copper on the surface of a blank, stripping the copper deposit therefrom in the form of a sheet, thereafter subjecting said sheet to a roller-leveling treatment to remove kinks, warps and surface irregularities without appreciably reducing its thickness or cold working the sheet to any considerable amount, said roller-leveling treatment comprising passing the sheet between an upper and lower train of rolls which are chemically non-attacked by the copper sheet material being treated whereby a dead-flat sheet is produced which exhibits the characteristic property of being self straightening during subsequent electrolysis, and employing said dead-flat, self-straightening sheet as a cathode in producing electrolytic copper.

2,421,583

DEGAUSSING SYSTEM

Alfred A. Stuart, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 2, 1944, Serial No. 552,476
11 Claims. (Cl. 114—240)

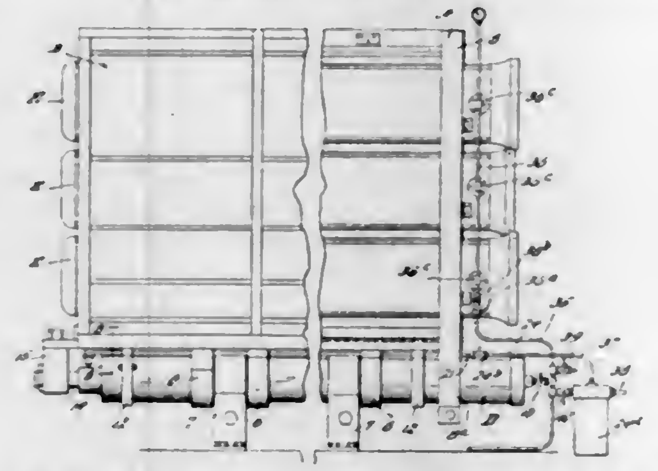
1. In combination with an object inclined to develop an unwanted variable magnetic field, neutralizing means adapted upon controlled energization to develop a local magnetic field to neutralize the magnetic field of said object, means for energizing the neutralizing means, and control means responsive to the magnetic field of said object for controlling the energization of said neutralizing means.



2,421,584

MOLD FOR CASTING LARGE FLAT PANELS

Charles H. Terry, West Palm Beach, Fla.
Application November 21, 1945, Serial No. 630,060
7 Claims. (Cl. 25—42)

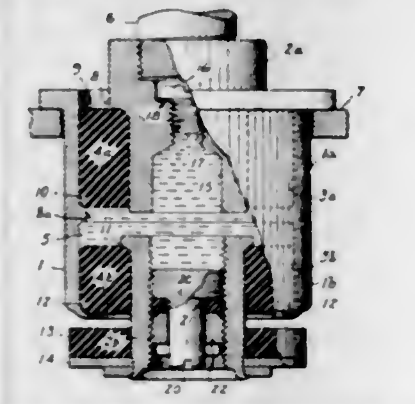


1. A sectional mold for casting large size generally flat panels from plastic material comprising a relatively narrow hollow form section having open sides, two side wall sections for closing opposite sides of the form section and means pivotally mounting said form section and side wall sections for swinging about a common horizontal axis from horizontal open to vertical closed positions.

2,421,585

FLUID-MODIFIED MOUNTING

Leon F. Thiry, Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 13, 1944, Serial No. 568,041
9 Claims. (Cl. 248—358)

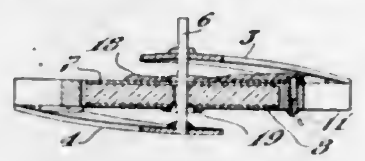


1. A vibration-absorbing mounting for absorbing vibrations between two relatively moveable elements comprising generally tubular housing portions, at least one of which is adapted to be rigidly connected to one of said relatively moveable elements, an annular resilient member within each of said tubular housing portions and carried in fluid-tight relation with the wall thereof, a rigid inner member carried by each of said annular resilient members and being moveable with respect to said housing portions by distortion of said resilient member, said inner members being spaced apart and at least one being adapted to be connected to another of said relatively moveable elements, said housing portions, said inner members and said resilient members defining a cavity adapted to receive and retain fluid under pressure, and a relatively non-compressible fluid within said cavity and adapted to bear against said inner members, whereby upon deflection of one of said inner members relative to said housing, deflection of the other of said inner members occurs through action of said fluid.

2,421,586

PIEZOELECTRIC DEVICE

Raymond W. Tibbetts, Camden, Maine, assignor to Tibbetts Laboratories, Inc., Camden, Maine, a corporation of Maine
Application September 20, 1944, Serial No. 554,915
7 Claims. (Cl. 171—327)

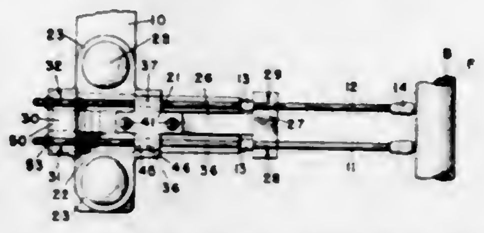


1. In a device of the character described the combination of a piezo-electric slab, a frame extending along the periphery of the slab for supporting the slab, a sheet extending along one side of the slab and overlapping the frame, and means for passing current between the slab and an external circuit, said means including an anchor attached to said frame and a layer of conducting material extending from the anchor over said sheet and over one face of the slab.

2,421,587

WEFT DETECTOR WITH REMOVABLE FINGER

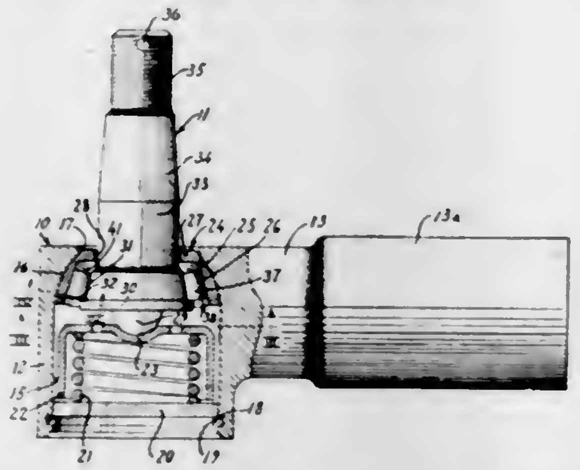
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application March 18, 1946, Serial No. 655,102
10 Claims. (Cl. 139—273)



1. In an electric weft detector having two spaced resilient detector fingers, a base made of electric insulating material and having formed therein for each finger three open bearing slots one of which is between the other two, said one bearing slot opening in a direction different from the direction of opening of the other two bearing slots, each finger extending through and guided by its three bearing slots, the intermediate part of each finger due to resilience thereof being deflectable in the direction in which said one bearing corresponding thereto opens for removal therefrom and then being removable from its other two bearings.

2,421,588
JOINT

Anthony Vendittty, Detroit, Mich., assignor to Thompson Products, Inc., a corporation of Ohio
Application June 2, 1943, Serial No. 489,340
1 Claim. (Cl. 287—90)

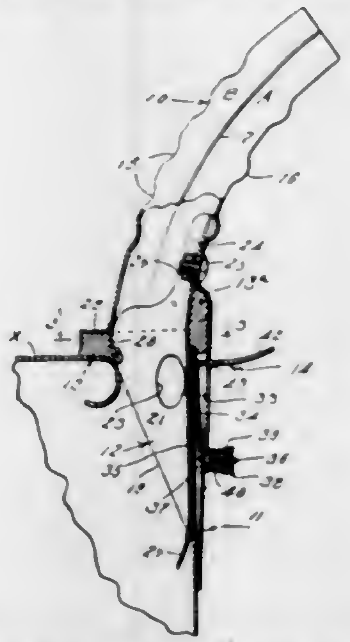


A tie rod joint comprising a socket member having an inner converging bearing surface accommodating tilting movements, a hollow seat ring tiltably mounted on said bearing surface, said seat ring having an apertured end wall and a tapered inner surface converging in the same general direction as the socket member bearing surface, a stud having a shank with a cylindrical surface projecting through the aperture in said end wall of said seat ring in close running clearance relation therewith, said stud having a head with a tapered surface disposed in the seat ring and converging in the same general direction as the socket member bearing surface, tapered roller bearings between the seat ring and head riding on the tapered surfaces thereof, a shoulder on said head of the stud bottoming the large ends of said tapered roller bearings and effective to hold the bearings in proper relation to said tapered surfaces of the head and seat ring, and a spring means urging said shoulder against the roller bearings, said roller bearings acting on the opposed tapered surfaces of the seat ring and stud head to restore the close running clearance relation between the cylindrical surface of the stud shank and the end wall of the seat ring upon cessation of tilting movement of the stud.

2,421,589
CAN PUNCTURING SPOUT

Ozro N. Wiswell, Los Angeles, Calif., assignor to Swingspout Measure Co., Los Angeles, Calif., a corporation of California
Application August 10, 1942, Serial No. 454,270
4 Claims. (Cl. 222—89)

1. A device for opening a can which has a side wall and top joined by a bead, the device including a sheet metal body having a pouring spout and a guide continuous with the spout for cooperating with the wall of the can, the spout and guide being in substantial alignment and the spout being in the form of a handle for manipulating the device and projecting up from the top of the can when the device is applied to a can, a cutter on the body substantially parallel with the guide and spout adapted to cut an opening in the top of the can from which the contents may be poured through the spout, a resilient compressible sealing member on the body surrounding the base of the spout so it is compressed against the top to seal around the cutter when the cutter is forced to its final position, a flange on the body overlying the sealing member and confining it to an operating position, a rigid latch arranged at the inner side of the guide to project upwardly between the guide and cutter, means connecting the lower end of the latch with the body for movement relative thereto, the latch having a fulcrum for bearing on the guide, spring means at the lower end of the latch for urging the latch to a position where its upper end latches under the bead when the cutter approaches its final position so that the latch holds the device in the position where the sealing member is compressed, and means for releasing the latch including a part projecting from the upper end portion of the latch so it is accessible at the exterior of the guide.



2,421,590
TREATMENT OF SULPHITE PULP AND LIQUOR

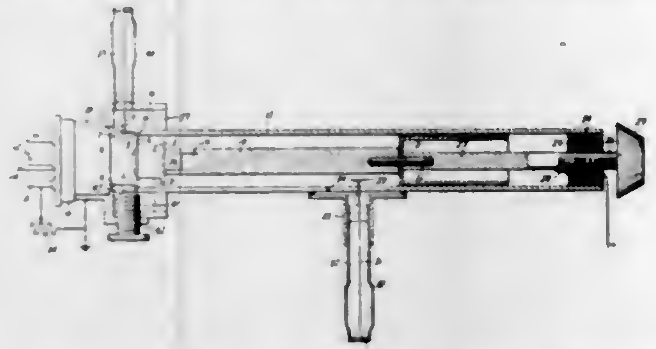
Johan Åström, Nyhamn, Essvik, Sweden, assignor to Svenska Cellulosa Aktiebolaget, Stockholm, Sweden, a corporation of Sweden
No Drawing. Application November 24, 1943, Serial No. 511,641. In Sweden July 8, 1942
2 Claims. (Cl. 92—11)

1. In the manufacture of sulphite cellulose, the method of washing sulphite waste liquor from the sulphite pulp which comprises displacing sulphite waste liquor from said pulp by addition thereto of a distillery slop obtained as dregs from the distillation of alcohol from a fermented sulphite waste liquor, said distillery slop having substantially the same solids content as the unfermentable solids content of said sulphite waste liquor to be displaced from the sulphite cellulose.

2,421,591
ULTRA HIGH FREQUENCY DEVICE OF THE CAVITY RESONATOR TYPE

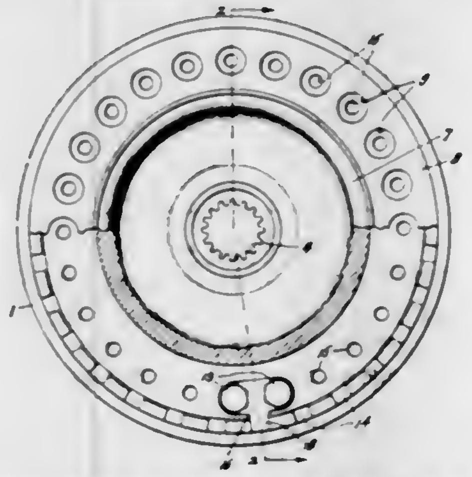
Francis M. Bailey, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 13, 1943, Serial No. 486,830
13 Claims. (Cl. 315—39)

1. An ultra high frequency device of the cavity resonator type comprising an electric discharge device including a plurality of enclosed electrodes comprising an anode, a grid and a cathode supported by a plurality of transversely extending members interconnected by means of insulators sealed in end relation thereto, said transverse members serving as externally accessible high frequency terminals, a pair of substantially closed cavity resonators connected respectively with the anode-grid and the grid-cathode circuits of said discharge device, the anode-grid resonator comprising an elongated cylinder connected to the grid transverse member and having therein in spaced relation a longitudinal rod connected to said anode, the grid-cathode resonator being defined by an annular member of shorter length and substantially larger diameter than said cylinder, input electrode means coupled to the grid-cathode resonator, means for tuning said grid-cathode resonator including means for modifying a bounding surface thereof, means for tuning the anode-grid resonator comprising means movable with respect to a part of said anode-grid resonator for adjusting the effective longitudinal length thereof, and output electrode means connected to said anode-grid resonator.



2,421,592
DYNAMOELECTRIC MACHINE

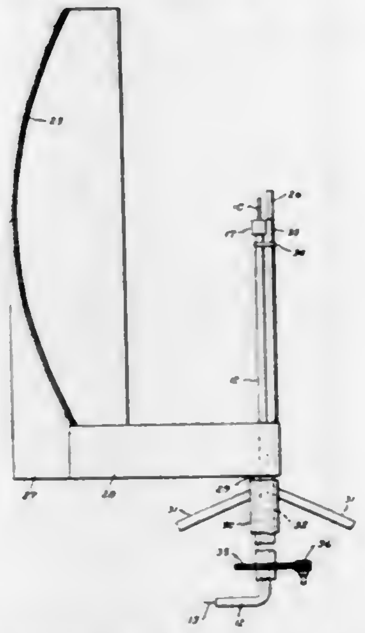
Sven R. Bergman, Nahant, Mass., assignor to General Electric Company, a corporation of New York
Application November 16, 1944, Serial No. 563,678
1 Claim. (Cl. 171—252)



A dynamoelectric machine having a stationary member with a frame and a rotatable member mounted on a shaft, means including a mounting flange for said machine provided with a bearing for supporting an end of said shaft and having an outwardly extending flange portion for securing said machine stationary member to a supporting member, said stationary member frame being formed with an internally threaded portion adjacent one end thereof and a frusto-conical surface flared outwardly at the end of said frame extending from said threaded portion to the adjacent end of said frame, the outer edge of said end of said frame being formed with a plurality of evenly spaced keyways, said mounting flange being formed with a threaded end portion complementary to said frame threaded portion and with a frusto-conical surface adjacent said threaded portion complementary to said frame frusto-conical surface, means including a plurality of evenly circumferentially spaced apart threaded openings in said mounting flange different in number from said frame keyways, and a locking key having a pair of openings therein spaced apart the same distance as said threaded openings and having a projection thereon adapted to fit into said keyways, said mounting flange being adapted to be screwed into said threaded frame and to provide a tight engagement between said frusto-conical surfaces and locked in position by said key arranged with the holes therein over a pair of said mounting flange threaded openings with the projection thereon in one of said keyways, and means including a pair of screws arranged in said holes in said key and threadedly engaged in a pair of said flange openings for securing said key in position.

2,421,593
COAXIAL HALF-WAVE MICROWAVE ANTENNA

Nathaniel Bishop, Fairfield, Conn., assignor to General Electric Company, a corporation of New York
Application April 6, 1943, Serial No. 482,045
8 Claims. (Cl. 250—11)



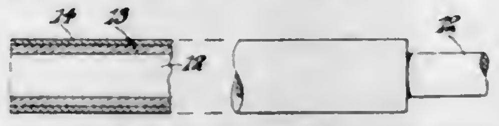
1. In combination, an antenna, a transmission line connected therewith to supply signals thereto, an impedance matching transformer interposed between said line and said antenna comprising a section of concentric transmission line having a length equal to a quarter wavelength at the frequency of said signals and an impedance intermediate the impedance of said antenna and the impedance of said transmission line, and means to give a free-space effect to said antenna comprising a tubular member concentrically surrounding the outer conductor of said section, said tubular member and said outer conductor being conductively connected at their extremities remote from said antenna.

3. The combination, in a rotating antenna system for microwaves, of, a vertical radiating element having a length equal to a half wavelength at the frequency of said waves, a vertical concentric transmission line for supplying said waves to said element, the inner conductor of said line being connected to said element and the outer conductor of said line being enlarged at its upper end for a distance equal to a quarter wavelength at the frequency of said waves to provide means for matching the impedances of said line and said element, means connected to said transmission line to impede the flow of currents along the outer surface of said outer conductor to said radiator, a reflector, and means to support said reflector in spaced relation to said element, said last means including means whereby said reflector may be rotated about said element.

2,421,594

ARC WELDING ELECTRODE

Robert Henry Farmer Boot, London, England, assignor to Under Water Welders & Repairers Limited, London, England, a British company
Application February 21, 1945, Serial No. 579,023
In Great Britain December 15, 1943
3 Claims. (Cl. 219—8)

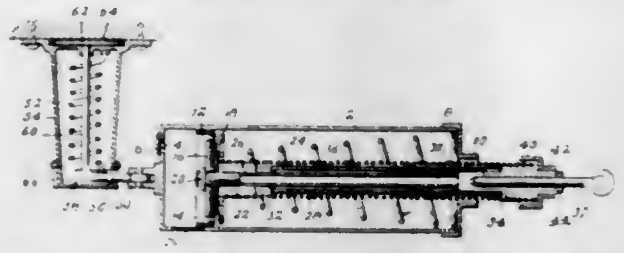


1. An arc-welding electrode consisting of a steel core covered over its working surface with a layer of flux and over the flux a continuous outer skin of a tough solid polymer selected from the class consisting of vinyl and substituted vinyl compounds, the layer of polymer being intimately mixed with the flux at the interface between the two layers.

2,421,595

COMBINED DOOR CHECK AND CLOSER

Harold Brown, Denver, Colo.
Application May 12, 1945, Serial No. 593,380
1 Claim. (Cl. 16—66)



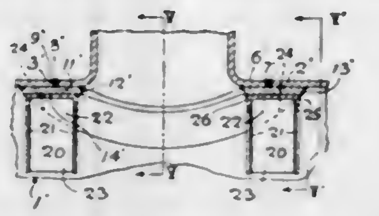
A device for checking and closing a door comprising a cylinder having an opening in its front end, means for connecting the rear end of said cylinder to the door casing, a piston rod reciprocably mounted in the cylinder and projecting through the opening in the front end of the cylinder, means for connecting the outer end of the piston rod to the door, a concavoconvex disk secured to the rear portion of said piston rod and positioned with its convex surface to the rear, a flexible piston head secured to the piston rod and provided with one or more air ports adapted to be closed by flexing of the piston head against the convex surface of the disk on each backward stroke of said piston head, a washer secured to the piston rod and abutting the rear surface of the piston head, and spring means interposed between the concave surface of the disk and the front end of the cylinder.

2,421,596

PRESSURE VESSEL

Alfred W. Bruce, New York, N. Y., and James Partington, East Orange, N. J., assignors to American Locomotive Company, New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 606,396
1 Claim. (Cl. 285—106)

A pressure vessel comprising a cylindrical wall having an orifice; a hollow cylindrical fitting normal to said wall having a lateral flange in said orifice with its outer edge butt-welded to the defining edge of said orifice, the portion of said vessel adjacent said butt weld at each side thereof being concavo-convex, the concave face being inwardly of said vessel; and a plurality of members reinforcing said wall at said orifice, said portion and said members being conformed and welded one to another, one of said members being an unflanged concavo-convex ring disposed within said vessel and being of slightly greater diameter than and overlapping said butt weld and conforming to and engaging said concave face, and welded at its outer and inner edges respectively to said wall and flange, and another of said members being a ring disposed within said vessel having a strengthening flange extending at an angle from the inner edge thereof, said flanged ring conforming to and engaging the concave face of said first mentioned ring in overlapping relation to said butt weld and welded at its outer and inner edges to said concave face of said first mentioned ring, the flange of said flanged ring extending inwardly into said vessel.

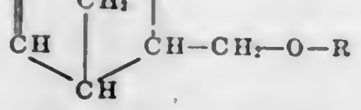


2,421,597

UNSATURATED CYCLIC ETHERS

Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 1, 1944, Serial No. 529,196
13 Claims. (Cl. 260—611)

1. As new compounds, ethers having the formula:



wherein R is a hydrocarbon group.

2,421,598

MULTIVITAMIN COMPOSITIONS

Loran Old Buxton, East Orange, and Sol Tobias Lipsius, Orange, N. J., assignors to Nopco Chemical Company, a corporation of New Jersey
No Drawing. Application October 28, 1942, Serial No. 463,664
4 Claims. (Cl. 167—81)

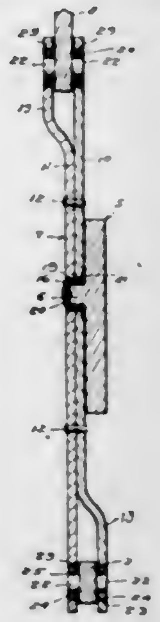
1. A readily water-dispersible multivitamin composition comprising ethanol, at least one fat-soluble vitamin, riboflavin, at least one water-soluble vitamin other than riboflavin and a blending solvent selected from the group consisting of glycerine and lactic acid, the riboflavin being present in a ratio of at least one milligram per cubic centimeter of said dispersible composition as a whole.

2,421,599

LOOM DOBBY

Joseph D. Cash, Jr., Cramerton, N. C.
Application September 26, 1945, Serial No. 618,630
5 Claims. (Cl. 139—74)

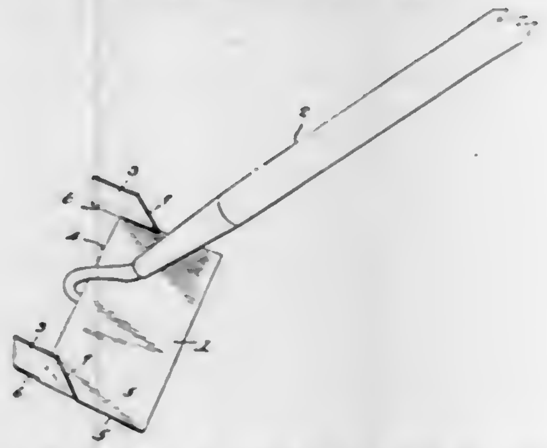
1. In a loom dobby, in combination, a jack lever having a pivot stud of non-circular cross section for a hook lever, an inner bearing sleeve having a bore corresponding in shape to that of the pivot stud and fitted onto the latter, a hook lever embodying two sheet metal strips secured together and provided with central registered openings, and an outer bearing thimble having a snug rotating fit on said bearing sleeve and press fitted into said registered openings of the strips of the hook lever, said bearing thimble having a wall closing the outer end thereof and provided with an external flange at its inner end engaging the face of the strip adjacent the jack lever in surrounding relation to its opening.



2,421,600

HOE

James H. Cumpston, Corsicana, Tex.
Application November 15, 1944, Serial No. 563,501
1 Claim. (Cl. 97—66)



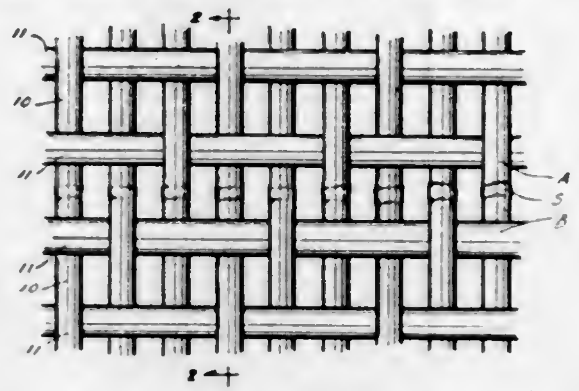
A hoe including a blade, a handle connected thereto, supplemental parallel blades perpendicular to the side portions of the blade and extending along parallel lines beyond the top edge of the hoe blade, each supplemental blade having a cutting edge alined with one of the side edges of the hoe blade and located beyond the top edge of the hoe blade, said supplemental blades being integral with the hoe blade and inset in the hoe blade with their outer side faces flush with the corresponding side edges of the hoe blade.

2,421,601

SEAM FOR WOVEN WIRE FABRIC

Donald C. Dilley, Cleveland, and Robert R. McGregor, South Euclid, Ohio, assignors to The Lindsay Wire Weaving Company, Cleveland, Ohio, a corporation of Ohio
Application July 13, 1944, Serial No. 544,712
1 Claim. (Cl. 245—10)

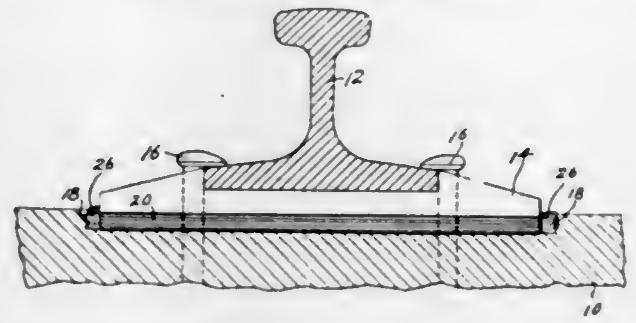
A seam for a woven wire fabric for paper making machines comprising fabric parts having edges with warp pickets, the fabric parts being arranged in opposed pairs with each picket having a length substantially equal to one-half the distance between the center lines of adjacent weft wires in the body of the fabric, and a small deposit of fusible metal joining each opposed pair of warp pickets, the deposits being limited to the warp pickets, and the area of the opening of the seam being substantially the same as that between any two weft wires in the body of the fabric.



2,421,602

EXPANSION REPAIR PLATE FOR WORN RAILWAY TIES

John H. Dooling, Fitchburg, Mass., assignor of one-half to Louis J. O'Malley, Newton, Mass.
Application January 15, 1944, Serial No. 518,315
2 Claims. (Cl. 238—283)

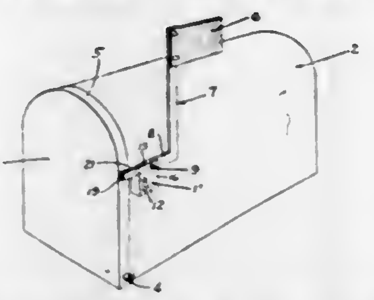


1. An expansible repair plate adapted to be inserted upon a wooden tie beneath a metal tie plate to fill an area which has been worn by the metal tie plate, said repair plate comprising a preformed flexible mat of a size initially slightly less than the worn area, and consisting of a plurality of layers of fabric material, each of said layers being coated with a mastic wood preserving material adapted to be extruded laterally from between the layers and beyond the fabric by downward pressure upon the mat when in use beneath the tie plate so as to completely fill the worn area.

2,421,603

MAILBOX SIGNALING DEVICE

John Doppelhammer, Twin Lakes, Minn.
Application January 6, 1945, Serial No. 571,613
2 Claims. (Cl. 232—35)



1. In combination with a mail box having an open end and a door for closing said open end, a signal device including a mounting bracket secured to the side wall of the box, said mounting bracket being formed with a rearwardly extend-

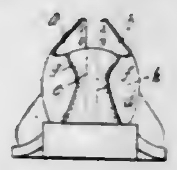
ing flange spaced outwardly from the adjacent wall of the mail box and extending upwardly from the bottom of the bracket and forwardly to the front end thereof, and disposed in substantially a vertical plane, and a signal arm of substantially L-shaped configuration comprising angularly disposed legs, one of said legs being pivoted to the upper rear portion of the bracket flange and adapted, when in substantially a horizontal position, to interlock with means on the door to secure the signal arm with its other leg in an upright signalling position when the door is closed, the mounting of said signal arm on the mounting bracket being such that when the signal arm is in signalling position and the door is opened, said signalling arm will gravitate to a non-signalling position.

2,421,604
METHOD OF APPLYING BACKSTAYS TO SHOE UPPERS

Charles Chester Eaton, Brockton, Mass., assignor to Charles A. Eaton Company, Brockton, Mass., a corporation of Massachusetts

Application December 22, 1944, Serial No. 569,353

2 Claims. (Cl. 12—146)



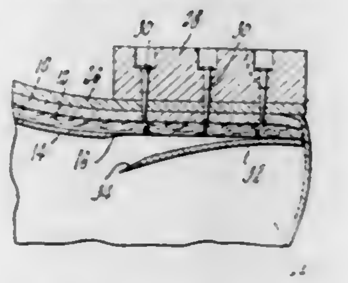
1. The method of connecting a backstay of single thickness to a shoe upper which has quarter pieces with convex edges sewed together, comprising fastening the longitudinal middle zone of the backstay to the upper by rows of stitches near to said seam at opposite sides thereof, and then stitching the edge portions of the backstay to the upper progressively from the top edge to the bottom edge of the upper by the operation of a sewing machine.

2,421,605
CUSHION SHOE AND METHOD OF MAKING SAME

Charles Chester Eaton, Brockton, and Charles Chester Eaton, Jr., Hingham, Mass., assignors to Charles A. Eaton Company, Brockton, Mass., a corporation of Massachusetts

Application February 20, 1945, Serial No. 578,808

3 Claims. (Cl. 36—28)



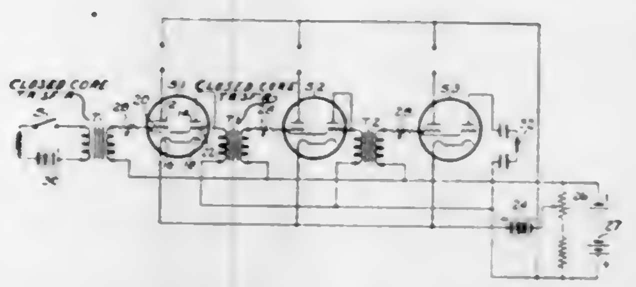
1. A method of shoemaking which comprises assembling a sole member consisting of an insole, a full-length cushion layer of soft compressible material and a liner, said liner being of a length to extend from the toe to the breast of the heel, lasting said sole member with an upper and outsole so that the cushion member is compressed and the heel portion thereof bears directly against the last, nailing the heel on with nails which are long enough to clinch back and contact the insole, delasting the shoe, and inserting a heel pad to cover the exposed portion of the cushion layer within the shoe.

2,421,606
APPARATUS FOR PRODUCING SHARPLY DEFINED SIGNALING IMPULSES

Clyde J. Fitch, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application November 14, 1942, Serial No. 465,604

4 Claims. (Cl. 250—27)



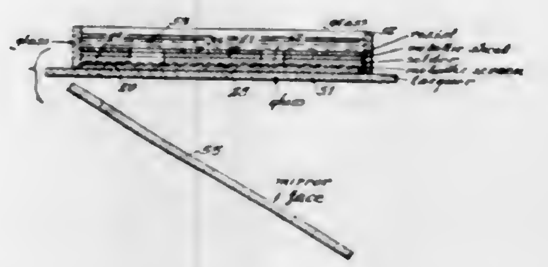
2. In a signaling system, an electronic self-timing stop-start apparatus comprising a series of normally non-conductive electronic discharge devices in the form of dual triode vacuum tubes, each having a pair of separate anode circuits and common grid and cathode circuits, one anode circuit of each tube constituting a signaling work circuit and the other anode circuit being inductively coupled to the grid circuit of the next succeeding tube in the series, the coupling means for said anode circuits comprising a closed iron core transformer having a primary winding and a secondary winding, said primary winding being disposed in the anode circuit of a preceding tube and said secondary winding being disposed in the common grid circuit of a succeeding tube, the sole external path between the terminals of said secondary winding being through said succeeding tube, and a variable resistance disposed in series with the secondary winding of each transformer.

2,421,607
METHOD OF MAKING METALLIC PRINTING SCREENS

Harwood B. Fowler, Wayne, Pa.

Application April 3, 1942, Serial No. 437,543

3 Claims. (Cl. 101—128.4)



1. The process of producing a printing screen having a design, which comprises laminating together a metallic screen and a metallic sheet by a uniting layer of a solder of different metallic composition, covering the exposed face of the screen with a transparent resist, blocking out the areas around the design by a resist applied to the exposed face of the metallic sheet, etching through the metallic sheet, finishing by an etchant preferentially attacking the metallic sheet and etching through the uniting layer, finishing by an etchant preferentially attacking the uniting layer, said transparent resist functioning to permit observation of the etching of the uniting layer by inspection therethrough.

2,421,608
METHOD OF PREPARING AMINES

Edwin J. Gohr, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 11, 1943, Serial No. 501,921

1 Claim. (Cl. 260—580)

A method of continuously reducing aromatic nitro compounds which comprises maintaining a reaction zone containing a plurality of spaced beds of a catalyst consisting essentially of molybdenum sulfide on charcoal, introducing into one of said beds of catalyst in said reaction zone, a mixture of aromatic nitrocompounds, a heavy oil diluent which is sufficiently high-boiling to remain in the liquid state and hydrogen, causing said mixture to flow through the said bed of catalyst whereby at least a portion of the aromatic nitro compound is reduced to the corresponding amine, injecting a mixture of heavy oil and aromatic nitro compound into the reaction zone at points between the spaced beds of catalyst, causing the latter-introduced mixture of heavy oil and aromatic nitro compound to flow through the beds of catalyst at a temperature between 350 and 600° F. and pressures between 500 and 5000 lbs./sq. in. to cause reduction of the nitro aromatic compound to the corresponding amine, maintaining sufficient heavy oil in said reaction zone by the injection of said oil to prevent the temperature prevailing in the reaction zone from exceeding a desired maximum and recovering amino aromatics from said reaction zone.

2,421,609
THIRD-DIMENSIONAL PICTURES AND THIRD-DIMENSIONAL PORTRAYAL OF ANATOMY AND SURGERY

Louis P. Good, Texarkana, Ark.

No Drawing. Application February 22, 1944, Serial No. 523,478

11 Claims. (Cl. 35—17)

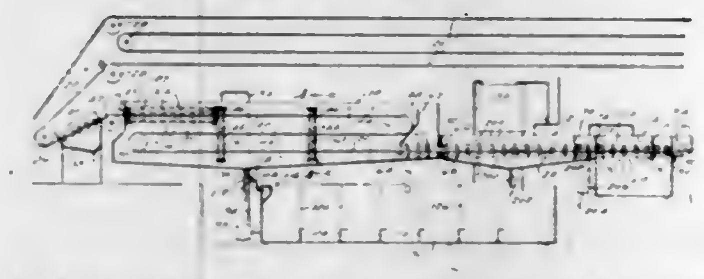
1. The method of portraying anatomical and surgical specimens which consists in producing on a substantially flat sheet a composite third-dimensional picture by superimposing views in complementary colors of inner parts of the human body, said views depicting said parts as seen respectively by the right and left eyes of an observer, and applying to a selected area of said composite picture a color observable as such through a color screen of one of said complementary colors, said composite picture thus colored being viewable through screens of said complementary colors as a colored third dimensional picture of said parts.

2,421,610
APPARATUS FOR RUSTPROOFING OR THE LIKE

Robert H. Gordon, Detroit, Mich., assignor to Parker Rust-Proof Company, Detroit, Mich., a corporation of Michigan

Application May 29, 1942, Serial No. 445,037

12 Claims. (Cl. 91—29)



3. Apparatus for use in the chemical coating of metal strips comprising a tank, a plurality of relatively closely adjacent pairs of rolls positioned in said tank for receiving a work strip introduced into said tank therebetween, additional pairs of rolls in said tank for receiving and guiding said strip during its passage through said tank and spaced from one another by a distance greater than the spacing of the first-mentioned rolls, a chemical solution storage tank, and pumping means associated with said storage tank for withdrawing solution therefrom and applying it to said strip during its passage through the first-mentioned tank, and means for draining solution from said first-mentioned tank into said storage tank for re-circulation therefrom.

2,421,611
PREPARATION OF 2-KETO GULONIC ACID AND ITS SALTS

Byron E. Gray, Alton, Ill.

Application May 4, 1945, Serial No. 591,878

4 Claims. (Cl. 195—47)

2. The process for the production of a material from the group consisting of 2-keto gulonic acid and its calcium salt which comprises inoculating an aqueous nutrient medium comprising a substance from the group consisting of idonic acid and calcium idonate in the presence of the bacteria *Pseudomonas mildenbergii*, and agitating and aerating the solution.

2,421,612
PREPARATION OF 2-KETO GULONIC ACID AND ITS SALTS

Byron E. Gray, Alton, Ill.

Application May 4, 1945, Serial No. 591,879

4 Claims. (Cl. 195—47)

4. The process for the production of a material from the group consisting of 2-keto gulonic acid and its calcium salt, which comprises inoculating an aqueous solution of the calcium salt of gulonic acid with the bacteria *Acetobacter suboxydans* and oxidatively fermenting said inoculated solution.

2,421,613
PLASTIC LINER FOR CONTAINERS

Reid Berry Gray, Dundalk, and Joseph C. De Weese, Essex, Md., assignors to The Glenn L. Martin Company, Baltimore, Md.

Application December 15, 1941, Serial No. 423,108

4 Claims. (Cl. 154—43.5)

1. A hydrocarbon fluid container having an outer supporting and retaining structure, a flexible lining cell comprising a plurality of layers secured together positioned within the structure to contain said liquid but transmit the pressure load of said liquid to the retaining structure, said cell having an inner lining in contact with said liquid, consisting of a low permeability, synthetic linear condensation polymer preferably formed by the condensation of a diprimary diamine and a dibasic carboxylic acid.

2,421,614
TREATING HYDROCARBON FLUIDS

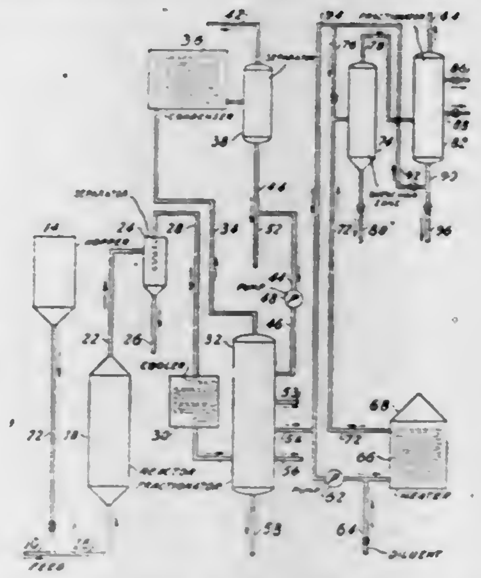
Homer J. Hall, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 15, 1943, Serial No. 514,334

2 Claims. (Cl. 196—52)

1. A method of producing aviation gasoline blending stock which comprises catalytically

cracking a relatively high boiling hydrocarbon fraction at a temperature of about 900° F. to about 1000° F. to produce lower boiling constituents containing aromatic constituents and paraffins, separating from the cracked products an aviation gasoline fraction and a heavy naphtha fraction higher boiling than the end point of the aviation gasoline fraction and containing aromatic constituents too high boiling for inclusion in aviation gasoline, said heavy fraction boiling between about 320° F. and 450° F., thermally cracking the said heavy fraction at a temperature of at least 1200° F. for a period of time not in excess of a few seconds to crack high boiling aromatic constituents to lower boiling aromatic constituents and separating from the products of the last cracking step a fraction within the aviation gasoline boiling range and containing substantially only aromatic constituents.

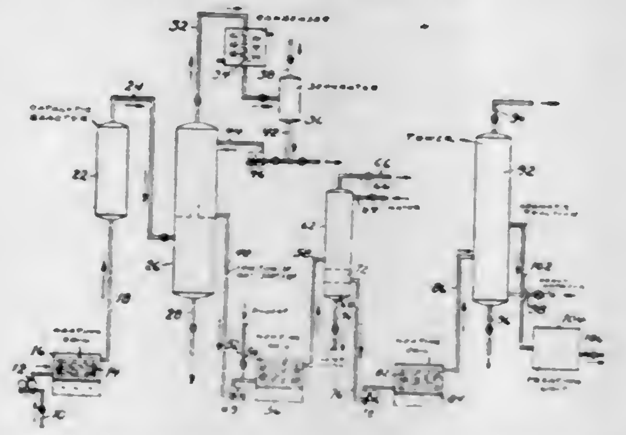


2,421,615
TREATING HYDROCARBON FLUIDS

Robert M. Shepardson, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 28, 1943, Serial No. 515,898

1 Claim. (Cl. 196—49)



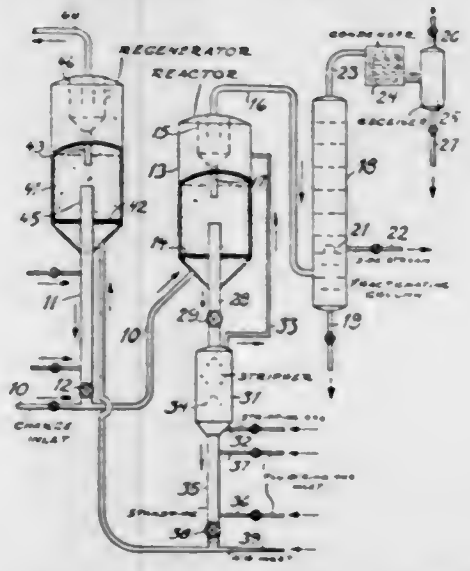
A method of treating hydrocarbons which comprises charging a relatively high boiling hydrocarbon fraction in the gas oil boiling range to a catalytic cracking zone and maintaining it therein at a temperature in the range of 800° F. to 1050° F. to cause substantial cracking thereof, removing the resulting products from said catalytic cracking zone, separating from the removed products a gasoline fraction boiling between about 225° F. and 350° F., passing said last mentioned fraction to a thermal cracking zone maintained at a temperature of about 1400° F. and maintaining the fraction in said thermal cracking zone for a time of about 1 second to cause cracking of the fraction, removing the resulting products from said thermal cracking zone and fractionating the last mentioned removed products to separate a gasoline fraction boiling in the aviation gasoline boiling range.

2,421,616
CATALYTIC TREATMENT OF HYDROCARBON OILS

Charles E. Hemminger, Westfield, and Edwin J. Gohr, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 28, 1944, Serial No. 570,188

7 Claims. (Cl. 196—52)



1. In a process for cracking hydrocarbon oils wherein the oil is cracked in the presence of a catalyst which continuously circulates through a cracking zone and wherein oils of different coking characteristics are passed through said cracking zone at different times. the improvement which comprises controlling the amount of catalyst in said cracking zone to convert a substantially uniform and predetermined amount of the oil into coke irrespective of the coke-forming characteristics of said oil.

2,421,617
METHOD OF REMOVING COATINGS FROM METALLIC CONDUCTORS

Phyllis Holmes, Stretford, England, assignor to Metropolitan-Vickers Electrical Company Limited, a company of Great Britain

No Drawing. Application December 3, 1943, Serial No. 512,843. In Great Britain February 3, 1943

3 Claims. (Cl. 134—38)

1. The method of removing an electrically insulating coating comprising a polyvinyl acetal resin from an electrical conductor which comprises immersing the coated conductor in a bath of molten potassium iodide maintained at a temperature between 700° C. to 750° C. and for a time sufficient to effect removal of the coating from the conductor and removing any excess potassium iodide remaining on the conductor after the immersion.

2,421,618
TOY PARACHUTE

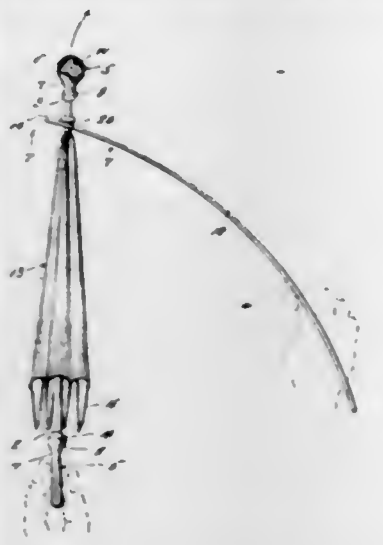
Charlie A. Hornbeck, Chandler, Okla.

Application June 15, 1945, Serial No. 599,602

4 Claims. (Cl. 46—86)

1. A toy parachute comprising a hollow rod carrying a collapsible bulb at the upper end and

another collapsible bulb at the lower end, abutment means for launching on the rod near the upper bulb, an umbrella-like web secured to the rod near the abutment means and open at the lower peripheral margin, means secured to the margin in spaced intervals and attached to the rod for limiting the extent of opening, a liquid filling the lower bulb, and a flipper rod for engaging the abutment means.



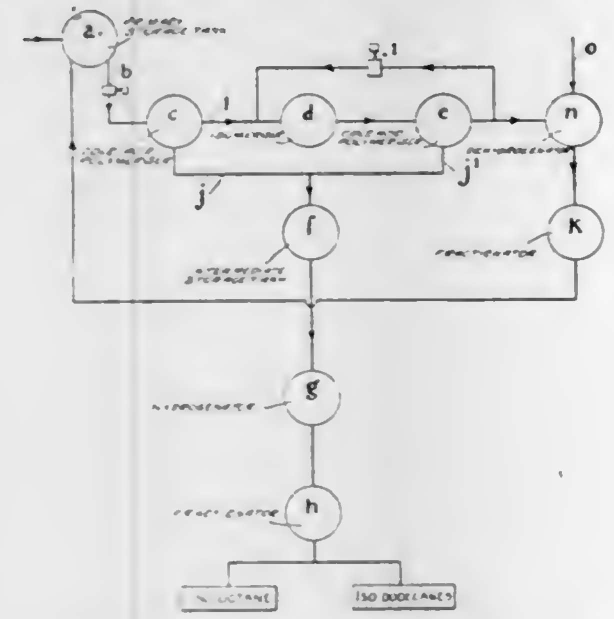
2,421,619
PRODUCTION OF MOTOR OR AVIATION FUELS

Donald Albert Howes, Sunbury-on-Thames, England, assignor to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation

Application February 11, 1942, Serial No. 430,331

In Great Britain February 7, 1941

4 Claims. (Cl. 260—683.15)



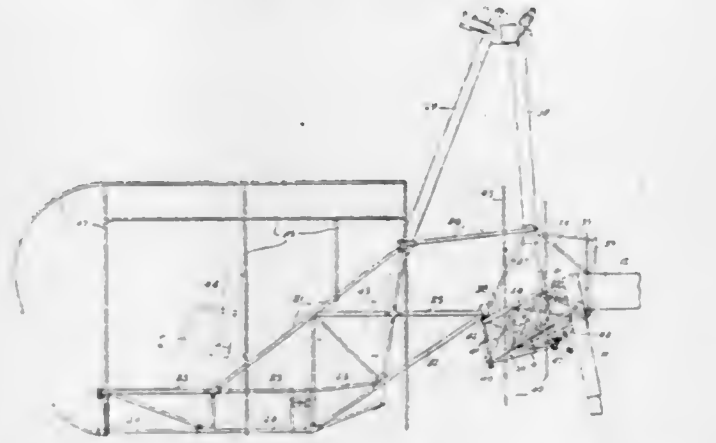
1. A process for the production of a high grade motor or aviation fuel or constituent from C_4 hydrocarbons containing olefines, such as are derived from the distillation and stabilization of crude oil and from cracking operations, consisting in subjecting the hydrocarbons to cold acid polymerisation in a preliminary liquid phase absorption stage carried out at a low temperature at about 0°–40° C., in which stage the hydrocarbons and sulphuric acid of 55–65% strength are cooled before admixture and maintained cool during reaction, the absorption continuing until the specific gravity of the acid liquor has been reduced to a degree substantially short of that at which the total water content of the acid has been used, the isobutylene being absorbed by the acid with the formation of tertiary butyl alcohol, whereby on settlement an acid layer then separates from a supernatant layer of the unreacted hydrocarbons, whereupon the acid liquor is heated at a temperature of about 150–200° C. whereby the tertiary butyl alcohol is polymerized into a mixture of diisobutylene and triisobutylene; treating the unreacted hydrocarbons for isomerization of their normal butylene content to isobutylene; subjecting the isomerization products to polymerization in a further polymerization stage and under the same conditions of cold acid polymerization specified, for the production of a further mixture of diisobutylene and triisobutylene; and, subjecting the mixtures of diisobutylene and triisobutylene derived from both stages of cold acid polymerization to hydrogenation.

2,421,620
FUSELAGE SKELETON FOR ROTATIVE WING AIRCRAFT

John Richard Huber, Warrington, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application August 31, 1942, Serial No. 456,766

3 Claims. (Cl. 244—119)



1. For an aircraft having a sustaining rotor, a fuselage structure of which the primary structural skeleton is relatively shallow in a forward portion as compared with a rearward portion thereof, structural members of said skeleton toward the top of said rearward portion thereof being arranged for support of a rotor mount, structural members of said rearward portion being arranged for support of an engine, a unitary cantilever beam constituting structure in addition to that of said primary structure of the fuselage and connected with the skeleton in the rear portion thereof in the region of the engine location, and having relatively short stub ends projecting laterally at each side of the skeleton, primary alighting elements for the aircraft connected with the stub ends of said beam adjacent the outer ends thereof, and empennage supporting booms also connected with the stub ends of said beam adjacent the outer ends thereof.

2,421,621
ICE REMOVING COVERING FOR AIRCRAFT

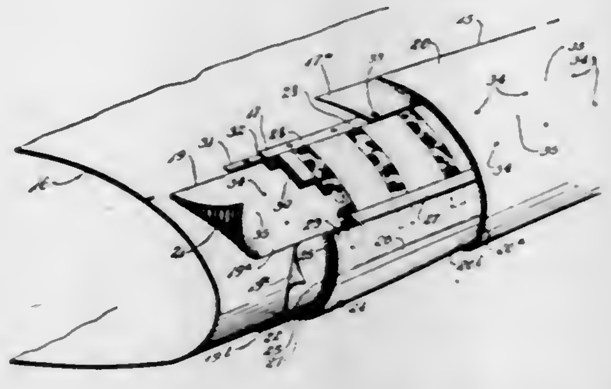
Willson H. Hunter and William C. Green, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application April 10, 1943, Serial No. 482,536

17 Claims. (Cl. 244—134)

1. A protective covering for preventing accumulation of ice upon a structure in a flow of

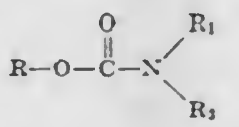
air under ice-forming conditions across the covering, said covering comprising flexible material and including means for distorting the outer face of the covering and a corrugated surface beneath said outer face, said surface being movable relative to said structure under the distortion and having a multiplicity of lands in side-by-side and spaced-apart relation to one another defining channels in said surface, each channel being relatively small in cross-section as compared to its length, and a venting zone extending substantially unidirectionally in a direction in which a margin of the covering extends and being in communication with said flow of air, each said lands and channels extending to said zone with said channels in communication with said zone for venting air at said surface to the atmosphere.



2,421,622
ALKYL CARBAMATES IN COLOR COMPOSITIONS

Roy Herman Kienle and Chester Albert Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 1, 1943, Serial No. 493,129
12 Claims. (Cl. 8—70)

1. A color composition comprising a vat dye and a crystallizable alkyl carbamate having the structural formula:



$$R-O-\overset{\overset{O}{\|}}{C}-N\begin{matrix} R_1 \\ R_2 \end{matrix}$$

in which R is a member selected from the group consisting of the primary and secondary alkyl radicals of from 3–12 carbon atoms, and R_1 and R_2 are members selected from the group consisting of hydrogen and the alkyl radicals of from 1–4 carbon atoms, R_1 and R_2 being identical when both are alkyl radicals.

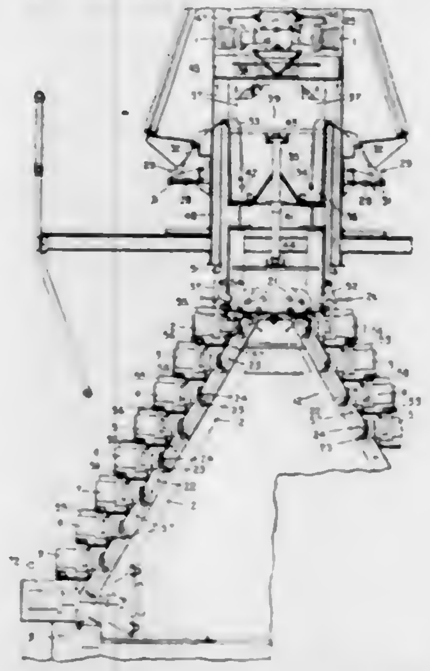
2,421,623
IMPREGNATED ABRASIVE WHEEL

Samuel S. Kistler, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application December 21, 1944, Serial No. 569,261
11 Claims. (Cl. 51—295)

1. An abrasive article comprising abrasive grains bonded as an integral porous body by a vitrified ceramic material and a two-phase filler comprising essentially a saturated aliphatic straight chain polymer containing chlorine which is suspended in and held in place within the pores by means of a solid resin matrix.

2,421,624
METHOD OF CONDITIONING ARTIFICIAL SILK THREAD

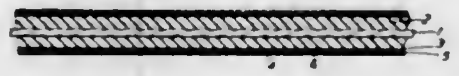
Hayden B. Kline and Kenneth M. McLellan, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Ohio
Original application October 9, 1941, Serial No. 414,325. Divided and this application July 13, 1944, Serial No. 544,720
4 Claims. (Cl. 117—7)



2. The method of processing regenerated cellulose artificial silk thread comprising applying a liquid to the thread, continuously but temporarily storing the wet thread on a first thread store device in a pluraltiy of substantially helical turns, passing the wet thread to a second thread store device upon which the thread is continuously but temporarily stored in a plurality of generally helical turns, rotating the second thread store device at a peripheral speed less than the peripheral speed of said first thread store device, passing the moist thread to a thread store device adapted to store the thread continuously but temporarily during drying thereof; and rotating the drying device at a peripheral speed greater than that of said second thread store device, said steps being performed in a continuous sequence of operations.

2,421,625
MANUFACTURE OF VULCANISED RUBBER ARTICLES

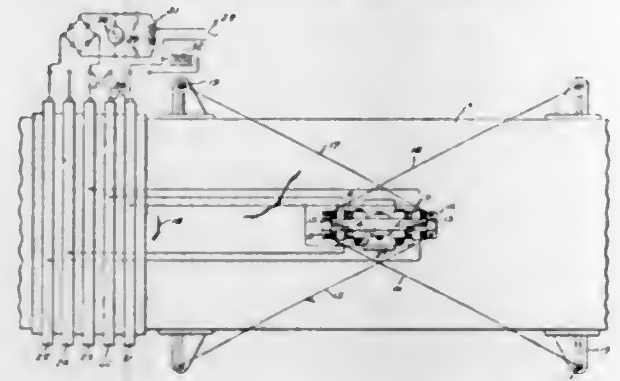
Herbert Emanuel Kretschmer, London, England, assignor, by mesne assignments, to British Insulated Callender's Cables Limited, London, England, a company of Great Britain
Application February 11, 1944, Serial No. 521,919
In Great Britain February 15, 1943
5 Claims. (Cl. 18—53)



1. A method of vulcanising rubber, comprising enclosing a body of unvulcanized rubber compound in a composite covering consisting of superimposed layers which are alternately unvulcanised rubber compound and vulcanised rubber compound, the innermost layer being unvulcanised, and subjecting the whole to a heat treatment which vulcanises the body and unvulcanised portion of the covering, the covering supporting the enclosed body during vulcanisation.

2,421,626
TORQUE MEASUREMENT

Hans P. Kuehni, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 2, 1945, Serial No. 602,734
6 Claims. (Cl. 73—136)



1. Apparatus for measuring relative displacement at the surface of a body along a given axis comprising a pair of variable reactance devices adapted to be secured to the surface of such body at a given point, anchors also adapted to be secured to the surface of said body at other points on its surface such that said other points are at the extremities of the base of a triangle which is parallel to said given axis and with the variable reactance devices located at the apex of the triangle, said reactance devices each having a magnetic circuit containing an air gap, resilient means common to both reactance devices for determining said air gaps and movable under force along said given axis so that as one air gap is increased the other air gap is decreased and vice versa, and wires in the nature of piano wires stretched between said two anchors and the resilient air gap determining means of said reactances tending to bias said resilient means in opposite directions along said given axis, and a measuring circuit responsive to the differential variation of said reactances.

2,421,627
RUBBERLIKE SUBSTANCES AND COMPOUNDING MATERIAL

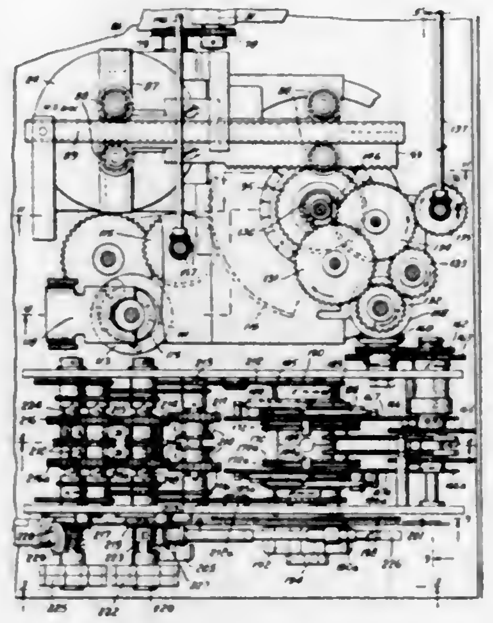
Clifford Granville La Crosse, Baltimore, Md.
No Drawing. Application February 10, 1944, Serial No. 521,821
5 Claims. (Cl. 260—23)

1. A reinforcing compounding material that is solid at room temperature and that comprises a combination of tall oil and a polymerized cut of coal tar type solvent naphtha which contains polymers of styrene, polymers of the various isomeric forms of methyl styrene, and in addition contains polymers of coumarone and indene, with the polymers of styrene predominating in said cut of coal tar, and in which the ratio of tall oil to the polymerized cut of coal tar type solvent naphtha is between one to two and two to one.

2,421,628
ODOGRAPH

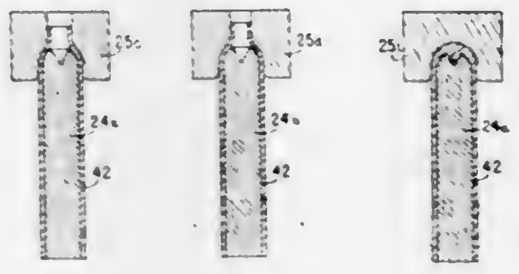
Clair D. Lake, Binghamton, and George F. Daly, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 2, 1943, Serial No. 481,546
11 Claims. (Cl. 74—125.5)

1. In a navigating instrument for a vehicle, a set of four coaxial ratchets, one for each of the cardinal points of the compass, a gear coaxial with said ratchets, a driving pawl for each ratchet carried by said gear, means for operating said gear and pawls continuously in the same direction in accordance with the speed of the vehicle, shielding mechanism coaxial with said ratchets for controlling the extent of engagement of the related ratchets and pawls, and compass controlled means for selectively positioning said shielding mechanism and for oscillating the said shielding mechanism within a predetermined angle at its selected position to enable rotation of the ratchet or ratchets related to the direction of movement of the vehicle and to control the extent of movement of each.



2,421,629
METHOD FOR CLOSING THE ENDS OF METAL TUBES

Otto A. Langos, Chicago, Ill.
Application February 10, 1943, Serial No. 475,368
3 Claims. (Cl. 29—148.2)

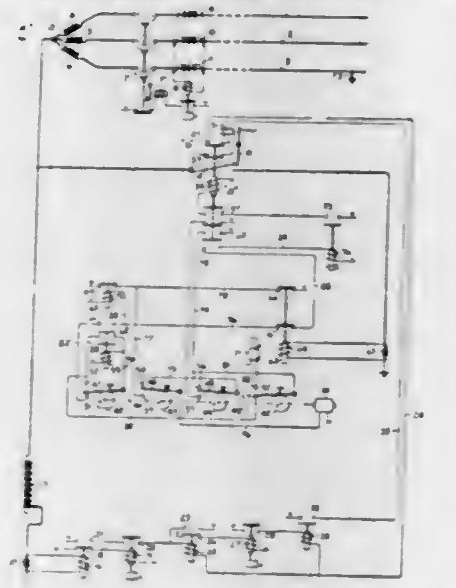


1. The method of closing the end of a cold hard metal tube about the end of an anvil disposed within the tube which comprises extruding the end side wall metal of the tube to provide a bearing surface between the extruded metal and the end of said anvil, and progressively crowding the extruded metal of the tube inward and against the end of said anvil by a series of pressure applications and in a manner such that the bearing surface of the metal against the end of said anvil is increased upon each pressure application to offset the increase in pressure required to crowd the metal upon the next pressure application, whereby deformation of the tube along its length during the pressure applications is prevented.

2,421,630
PROTECTION OF ALTERNATING CURRENT ELECTRIC POWER SYSTEMS

Philip H. Light, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application October 16, 1945, Serial No. 622,605
9 Claims. (Cl. 171—97)



9. In an alternating current electric system of the type wherein a fault to ground on one phase conductor of the system substantially increases the capacitive current to ground of the ungrounded phase conductors of the system and wherein a neutral point of the system is grounded through an impedance having an inductive reactance such that the zero phase sequence inductive reactance of the system is substantially equal to the zero phase sequence capacitive reactance of the system and wherein the impedance is arranged to be by-passed by closing a switch in response to a flow in the impedance of current above a predetermined value for a predetermined time on the occurrence of an open phase conductor of the system or a ground on a phase conductor of the system and wherein fault responsive means are provided for effecting an interruption of the system phase conductors in response to a sustained ground fault, normally inoperative timing means arranged to be set into operation when the by-pass switch closes, relay means controlled by said timing means for reopening the by-pass switch a predetermined number of times at predetermined intervals within a given time, means adapted to be connected to respond to the current flowing in the by-pass switch for preventing an opening of the switch when such current exceeds a predetermined value, and coordinating relay means controlled by the timing means and said preventing means for stopping the operation of the timing means when the current through the switch exceeds a predetermined value.

2,421,631
LUBRICATING OIL

Bert H. Lincoln, Ponca City, Okla., and Gordon D. Byrkit, Niagara Falls, N. Y.

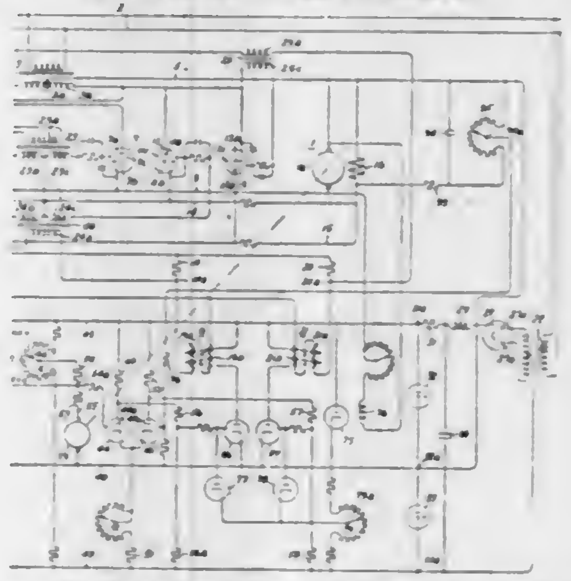
No Drawing. Original application August 2, 1941, Serial No. 405,213. Divided and this application May 16, 1945, Serial No. 594,162
15 Claims. (Cl. 252—33.6)

1. A lubricant comprising in combination a major proportion of oil of lubricating viscosity and a minor proportion, sufficient to stabilize said oil against oxidation, of a salt of a sulfurized relatively high molecular weight carboxylic acid, said carboxylic acid being unsaturated and being sulfurized by reaction with sodium pentasulfide.

2,421,632
APPARATUS FOR CONTROLLING ELECTRIC MOTORS

Orrin W. Livingston, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application June 16, 1945, Serial No. 599,911
22 Claims. (Cl. 172—239)

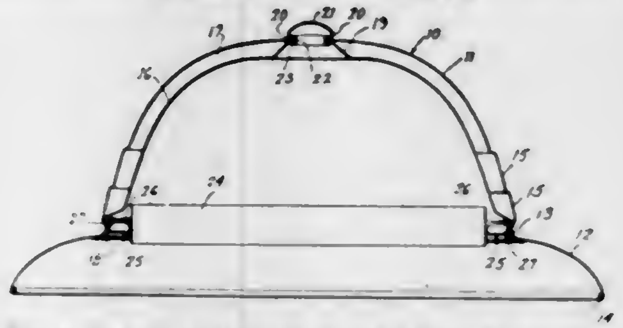


1. A control system for an electric motor comprising electric valve means for controlling the supply of current to the armature of said motor, a source of reference voltage, means responsive to said armature current for producing a signal voltage, and means responsive to the difference of said reference voltage and said signal voltage for controlling said electric valve means to maintain said armature current substantially constant, additional electric valve means for controlling the supply of current to the field winding of said motor, and means for maintaining an operating characteristic of said motor substantially constant at a predetermined value comprising a second source of reference voltage, means responsive to said operating characteristic of said motor for producing a second signal voltage and means responsive to a change in the difference of said second reference voltage and said second signal voltage for controlling said additional electric valve means to counteract said change.

2,421,633
HELMET CONSTRUCTION

George Albert Lyon, Allenhurst, N. J.

Application January 8, 1943, Serial No. 471,664
8 Claims. (Cl. 2—3)

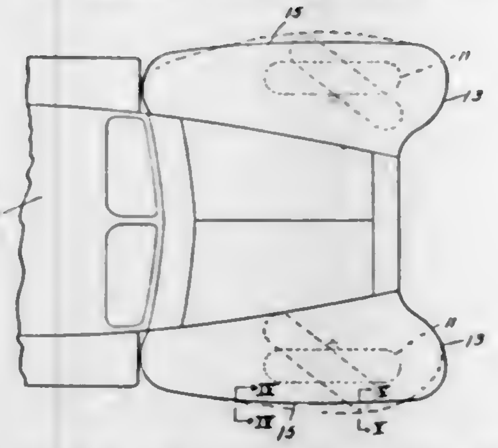


8. In a head gear construction, a crown portion having a lower part provided with an oversize dimension, a shell-like part in and spaced throughout the major portion of its area from the inner surface of said crown portion and including means for receiving head engaging means of different head dimensions and shapes, and head engaging means including a sweat band construction having a part for retainingly engaging said first mentioned means, said shell-like part defining an insulating chamber between said crown portion and the head of the wearer.

2,421,634
FENDER CONSTRUCTION

George Albert Lyon, Allenhurst, N. J.

Application October 14, 1943, Serial No. 506,171
5 Claims. (Cl. 280—153)

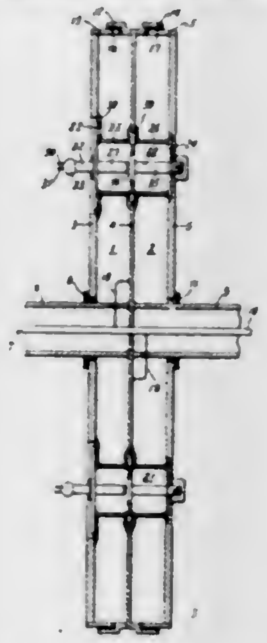


1. In a vehicle including a pivotal wheel, a hollow fender for the wheel of plastic material, said fender having a skirt portion extending downwardly below the center of the wheel so as to cover a substantial part of the side of the wheel and being arranged so close to the side of the wheel that the wheel contacts the same upon pivoting of the wheel and deflects and bulges said skirt portion laterally outwardly, said skirt portion of its own accord springing back to its normal position after the wheel is moved out of contact therewith.

2,421,635
ULTRA HIGH FREQUENCY SPACE RESONANT SYSTEM

Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application March 20, 1943, Serial No. 479,924
8 Claims. (Cl. 315—6)

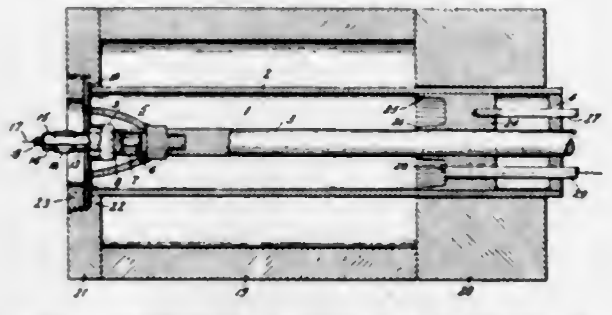


1. An ultra high frequency space resonant system comprising a cavity resonator defined by a substantially closed conductive member having a plurality of predetermined points corresponding to an anti-node of a standing potential wave in said resonator at a desired operating frequency of said system, an electric discharge device positioned within said cavity resonator, said electric discharge device having electrodes each connected to one of said points of said member, and tuning means within said cavity resonator physically displaced from said electric discharge device but positioned at another of said points.

2,421,636
TUNABLE MAGNETRON

Elmer D. McArthur, Schenectady, and Ralph J. Bondley, Scotia, N. Y., assignors to General Electric Company, a corporation of New York

Application May 29, 1944, Serial No. 537,804
8 Claims. (Cl. 315—39)

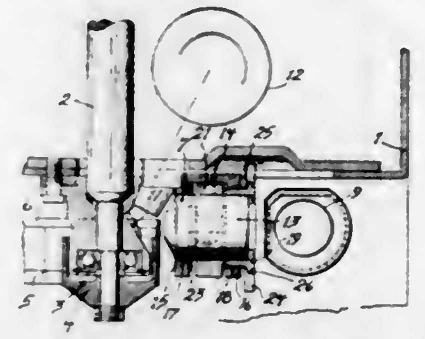


7. High frequency electrical apparatus comprising an electric discharge device including a cathode, a plurality of anode segments positioned in generally cylindrical array around said cathode, a magnetic member positioned at one end of said array supporting selected ones of said segments, a longitudinal magnetic member positioned at the other end of said array supporting the others of said segments, means constituting a part of said device forming an hermetically sealed enclosure for said cathode and anode segments, a tubular conductor conductively connected to said first mentioned member and concentrically surrounding said longitudinal member forming therewith a cavity resonator, said members defining a magnetic path for magnetic fields directed parallel to the axis of said array and between said cathode and said anode segments.

2,421,637
PREFOCUSED, QUICKLY ADJUSTABLE LIGHT SLIT FOR PHOTOELECTRIC SOUND HEADS

Louis A. McNabb, Glenview, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois

Application August 30, 1944, Serial No. 551,992
7 Claims. (Cl. 179—100.31)



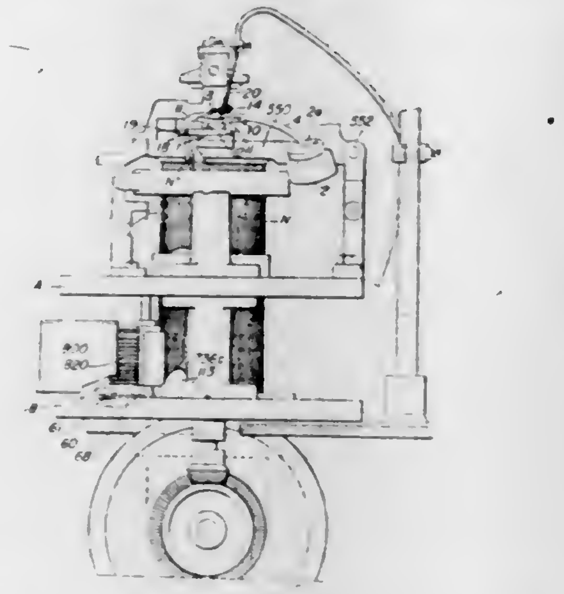
1. In a photoelectric sound translating device, the combination with an optical slit projecting unit axially adjustable relative to a cooperating sound record film guide means and having an axially extending concentric external cylindrical surface, of positioning means operative for predeterminately positioning said slit unit relative to said guide means at either extremity of a fixed extent of said axitl adjustment and comprising a stationary part provided with a threaded bore disposed concentrically of said slit unit, an externally threaded concentrically bored annular adjusting member threadedly engaged in said threaded bore and having its bore engaged on said cylindrical surface for angular and axial movement thereof relative to said slit unit, thrust bearing means operative between said adjusting member and said slit unit to axially fix the same,

and oppositely acting stop means operative to position said adjusting member at opposite extremities of a fixed extent of angular movement thereof.

2,421,638
MACHINE FOR MARKING CIRCULAR KNIT HOSIERY FOR BOARDING

Robert J. Moody and John E. Taylor, Franklin, N. H., assignors to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts

Application April 16, 1946, Serial No. 662,536
1 Claim. (Cl. 66—1)



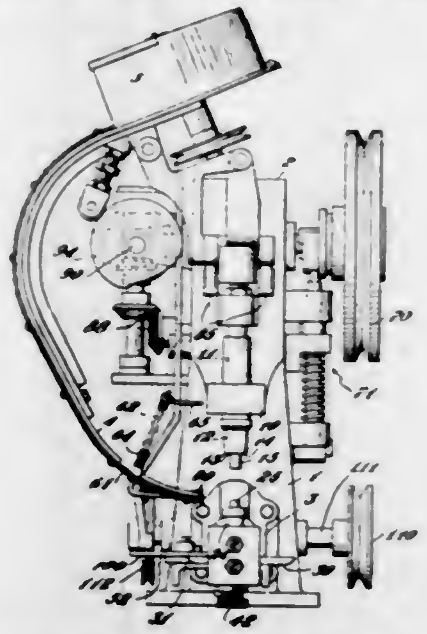
In a marking device for circular knitting machines having means for differentiating selected needles, a container for a fluid color, a wick having one end in said container and the other end arranged for engagement by a differentiated selected needle, tubing attached to said container and enclosing said wick, supporting means engaging said tubing, means pivotally mounting said supporting means and means for operating said supporting means to shift said wick to and from its position for engaging said selected needle.

2,421,639
MACHINE FOR FORMING AND REINFORCING CUTOUTS

Lorenz F. Muther, Newton Center, and Frederick S. Glines, East Lynn, Mass.; said Glines assignor to said Muther

Application October 5, 1943, Serial No. 505,010
4 Claims. (Cl. 218—15)

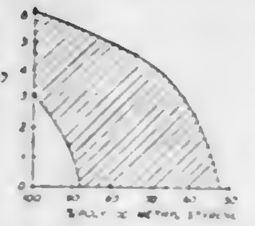
1. In a machine of the type having a fixed support, a movable support operative to move toward and away from said fixed support and operating mechanism for moving said movable support toward and away from said fixed support, operating instrumentalities comprising male and female punches carried by the fixed and movable supports and operative to form a cutout in a piece of sheet material during the first operating cycle, cooperating dies associated with said punches and operative during the second operating cycle to clench a reinforcing element about the marginal portions of the cutout, a slide carried by said fixed support and formed with a cam-like element engaging the lower end of the punch and associated die carried by said fixed support so as to support and selectively position said punch and associated die, and connections between said operating mechanism and slide effective to move the last-mentioned punch and associated die from a retracted position to an advanced position between the completion of the first and second operating cycles and then back to retracted position after the completion of the second operating cycle.



2,421,640
ELECTRIC INSULATING TAPE

Archibald Alan New, Stanley George Foord, and Dudley Robert Beckwith, London W. C. 2, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application September 16, 1942, Serial No. 458,599
In Great Britain November 28, 1941
3 Claims. (Cl. 117—122)

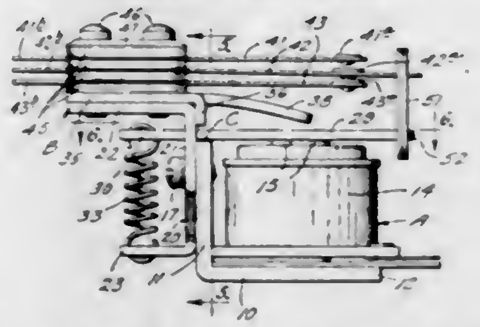


1. An insulating tape permanently sticky at room temperature comprising a body impregnated with polymerized alpha methyl styrene having a viscosity between 10^3 and 10^6 poises at 20° C.

2,421,641
RELAY

Thedore Obszarny, Chicago, Ill., assignor to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois

Application May 20, 1943, Serial No. 487,729
7 Claims. (Cl. 200—87)

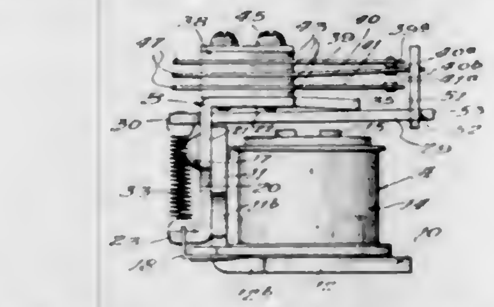


1. In an electro-magnetic relay including a coil and a core; the combination of a field piece of ferrous metal having an upright leg disposed adjacent the coil, a bracket of non-ferrous metal including an upright leg adapted to be connected to said leg of the field piece, a shelf portion extending horizontally from the upper end of the leg of the bracket, an armature hingedly connected at one end to said upright leg of the bracket and extending over the upper end of the upright leg of the field piece, and disposed in registration with the core, a stack switch mounted on the shelf portion and including a plurality of yieldable elongated conductor fingers extending over and out of range of movement of the armature, and an insulating member connected to the free end of the armature and operably connected to one or more of said switch fingers for controlling the make-and-break of said fingers incident to the movement of the armature.

2,421,642
ELECTROMAGNET RELAY CONSTRUCTION

Thedore Obszarny, Chicago, Ill., assignor to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois

Application June 15, 1944, Serial No. 540,373
3 Claims. (Cl. 200—87)

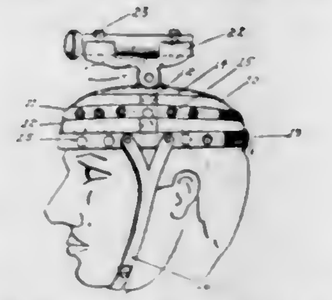


2. In a sub-assembly of an electro-magnetic relay, the combination of an armature, a mounting bracket of non-magnetic material including an upright leg formed with a rocking mounting seat for the rear end of the armature, said leg terminating at its upper end in a forwardly projecting shelf adapted to be extended over the main portion of the armature, the lower end of said leg being provided with an anchor lug, a spring connecting said lug and the rear end of the armature, a switch device seated on the shelf, screws for securing said switch device to the shelf and projecting therebelow at a position above the armature to confine the latter in seating relation to said bracket, and means on the free end of the armature, operably connected to the switch device for actuating the latter incident to movement of the armature.

2,421,643
SAFETY HELMET

Arnold J. Ostli, Chicago, Ill.

Application July 8, 1944, Serial No. 544,095
2 Claims. (Cl. 240—59)

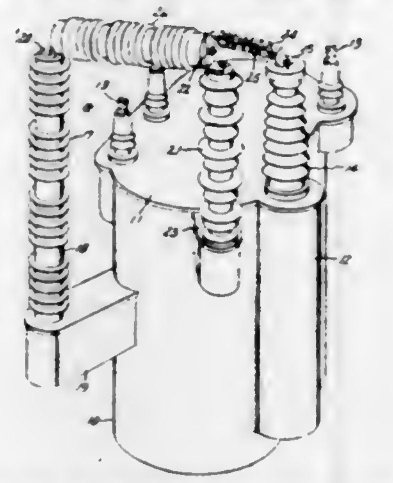


1. In flashlight supporting headgear, the combination, which comprises, a plurality of spaced substantially parallel headbands, a centrally disposed inverted saucer-like element forming a headrest spaced from the uppermost of said headbands, transverse and longitudinally extending strips connecting said headbands and headrest, a centrally disposed tongue extending upward from the upper surface of the headrest, a flashlight supporting saddle U-shaped in cross section having downwardly extending ears intermediate of the ends, straps on the upwardly extending ends of the saddle for holding the flashlight in place, a pin pivotally mounting the saddle through the ears thereof on the tongue of the headrest, and a spring on the pin frictionally holding the saddle in relation to the headrest.

2,421,644
TANK MOUNTED LIGHTNING ARRESTER

Konstantin K. Paluev, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application January 5, 1945, Serial No. 571,521
5 Claims. (Cl. 175—30)

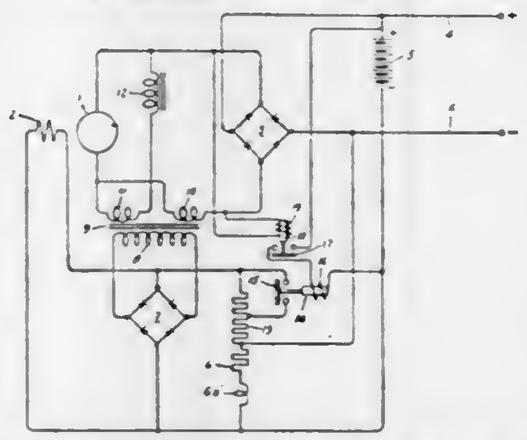


1. An electric apparatus including a normally grounded metallic casing, a bushing mounted on the top of said casing, said bushing having a stud adapted to be connected to an electrical line, a lightning arrester including a plurality of units providing one section disposed parallel with and spaced from said bushing and a second section perpendicular to said first section, and an electrical conductor connecting said stud with said second section of said arrester, said bushing, lightning arrester and electrical conductor being so proportioned and positioned with respect to each other that the capacity therebetween combines with the shunt capacitance to ground of said arrester so as to provide a uniform normal potential distribution on the units of said arrester.

2,421,645
REGULATING SYSTEM

Walter Partington, Sheffield, England, assignor to Metropolitan-Vickers Electrical Company Limited, London, England, a company of Great Britain

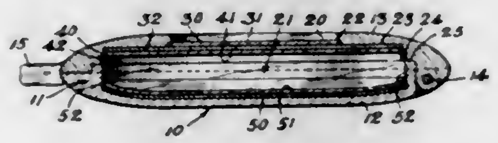
Application May 29, 1945, Serial No. 596,477
In Great Britain June 14, 1944
10 Claims. (Cl. 320—32)



1. In combination, a variable speed alternating current dynamoelectric machine having an

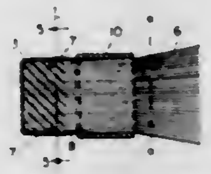
armature circuit and a field exciting winding, means including a reactor associated with said armature circuit and connected effectively in series circuit relation with said field exciting winding for energizing said winding inversely in accordance with the speed of said machine, and regulating means including a battery and arranged to reduce the energization of said field exciting winding directly in accordance with the voltage difference between said machine and said battery.

2,421,646
DECORATED CONTAINER
Joseph Pepin, Chicago, Ill.
Application February 9, 1945, Serial No. 577,047
8 Claims. (Cl. 132—83)



2. A container having a chambered body portion having at least a section of the outer surface thereof transparent and including a bottom and a closure hingedly mounted thereon; a window in the closure extending therethrough; an outwardly facing mirror closing the window and overlapping its edges; a sheet of decorative material larger than said mirror, having a portion beneath said mirror and a portion beneath said transparent section and visible therethrough; an inwardly facing mirror immediately beneath the decorative sheet retaining it in position; and means for retaining the mirror within the closure.

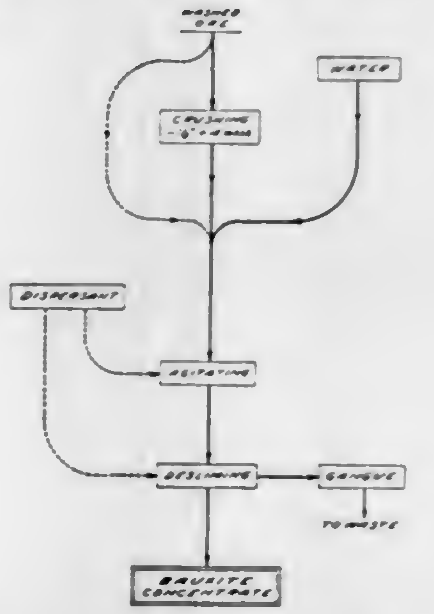
2,421,647
END BRUSH
Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 22, 1943, Serial No. 483,982
2 Claims. (Cl. 15—180)



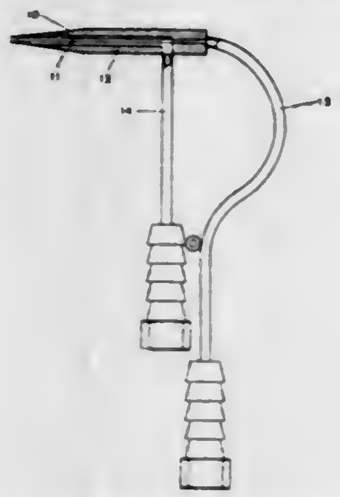
1. As a new article of manufacture, an end brush component comprising a cup-shaped base, a bundle of brush material, arranged in substantial parallelism, secured at one end in said base, the outer edge of the latter being turned inwardly, and a removable bridle enclosing the portion of such bundle adjacent said base and constituting a rigid support for such portion said bridle being formed to slightly overlap such inturned edge of said base.

2,421,648
BAUXITE BENEFICIATION BY HYDRATION OF GANGUE
Roy Alderson Pickens, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application February 13, 1943, Serial No. 475,801
3 Claims. (Cl. 241—21)

1. A method of beneficiating low grade bauxite ores, which ores comprise bauxite-minerals particles aggregated with an excess of firmly-attached hydratable silica-bearing gangue, to produce a high grade bauxite concentrate suitable for the production of metallic aluminum and assaying not more than 7% silica, which comprises: crushing the ore to from about minus ½ inch to plus 14 mesh under such conditions as to produce a minimum of minus 14 bauxite mesh fines; forming the crushed ore particles into an aqueous pulp, whereby the hydratable gangue on the particles surfaces is wetted and transformed to a hydrated water-dispersible form; agitating the aqueous pulp under conditions producing essentially self-attrition only, whereby the hydrated gangue is detached and dispersed immediately hydration is complete without producing excessive size-reduction of the bauxite particles; continuing the agitation and self-attrition in the presence of water until a major portion of the hydratable gangue becomes hydrated and dispersed; and desliming the treated pulp in the presence of water.



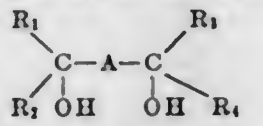
2,421,649
METHOD OF WELDING OR CUTTING METAL BY HYDROGEN-FLUORINE FLAME
Homer F. Priest, New York, and Aristid V. Grosse, Bronxville, N. Y., assignors to the United States of America, as represented by the Director of the Office of Scientific Research and Development
Application February 13, 1943, Serial No. 475,854
10 Claims. (Cl. 113—112)



10. A method of welding or cutting metal comprising heating the metal with a flame formed by the combustion of hydrogen and fluorine under pressure, the pressure of the fluorine being greater than the pressure of the hydrogen.

2,421,650
PROCESS OF PRODUCING PYRROLES AND HYDROGENATED PYRROLES
Walter Reppe, Curt Schuster, and Emil Weiss, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 24, 1939, Serial No. 263,902. In Germany March 28, 1938
1 Claim. (Cl. 260—313)

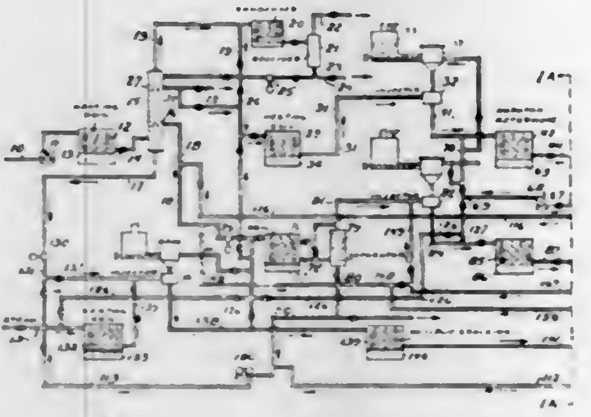
A process for producing pyrroles and hydrogenated pyrroles which comprises passing a stream of ammonia containing a vaporous 1.4-dihydroxyalkyl compound of the general formula:



$$\begin{matrix} R_1 & & & & R_3 \\ & C & -A- & C & \\ R_2 & OH & & OH & R_4 \end{matrix}$$

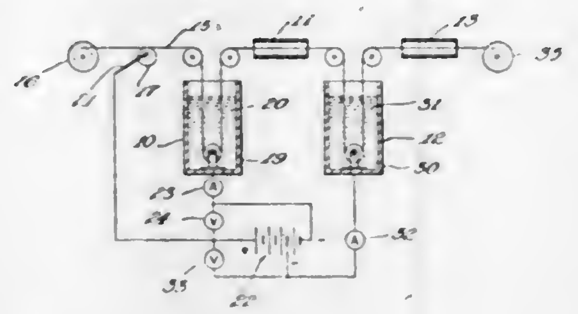
(wherein A represents a member selected from the class consisting of $—CH_2—CH_2—$, $—CH{=}CH—$ and $—C{\equiv}C—$ and R_1, R_2, R_3 and R_4 represent a member of the class consisting of hydrogen atoms and alkyl groups) over a catalyst selected from the class consisting of the oxides, phosphates and borates of the metals of the third and fourth groups of the Periodic Table, at a temperature between about 200° and 400° C.

2,421,651
CONVERSION OF HYDROCARBON OILS
Edward D. Reeves, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Original application February 16, 1939, Serial No. 256,630. Divided and this application October 14, 1942, Serial No. 461,916
3 Claims. (Cl. 196—52)



1. A process for the conversion of heavy residual oils to convert the same into lower boiling hydrocarbons which comprises intermixing with said heavy residual oil a solid absorbent contact material, passing the resulting mixture through a conversion zone maintained at a temperature sufficient to convert a portion of said oil into lower boiling hydrocarbons, maintaining said oil within said zone for a period sufficient to convert a substantial portion thereof into lower boiling hydrocarbons, thereafter removing conversion products from said conversion zone, fractionating the conversion products to segregate a light condensate fraction boiling above the motor fuel boiling range, an intermediate condensate fraction and a heavy condensate fraction, combining at least a portion of said light condensate fraction with said heavy condensate fraction, returning said mixture to said conversion zone, and subjecting said intermediate condensate fraction to separate cracking treatment in the presence of a finely divided cracking catalyst.

2,421,652
ELECTRICAL CONDUCTOR
Preston Robinson, Williamstown, and Stanley O. Dorst, North Adams, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
Application August 2, 1943, Serial No. 496,978
8 Claims. (Cl. 117—128.4)



1. A durable, highly flexible, abrasion resistant, electrically insulated conductor which comprises an electrical conductor to which is permanently attached a sintered refractory dielectric material, substantially all the pores of said dielectric material being impregnated with a synthetic resinous material.

2,421,653
PREPARATION OF POLYORGANOHALOGENOPOLYSILOXANES
Robert O. Sauer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application July 1, 1944, Serial No. 543,207
19 Claims. (Cl. 260—607)

1. The process which comprises effecting reaction, at a temperature which is at least room temperature, between (1) a hydrocarbon-substituted polysiloxane and (2) a halogenosilane corresponding to the formula R_nSiX_{4-n}, where R represents a monovalent hydrocarbon radical, X represents a halogen atom, and *n* has a value equal to one of the following: 0, 1, 2, 3.

2,421,654
HAT
Rosa Severin, Forest Hills, N. Y.
Application August 21, 1945, Serial No. 611,833
3 Claims. (Cl. 2—198)

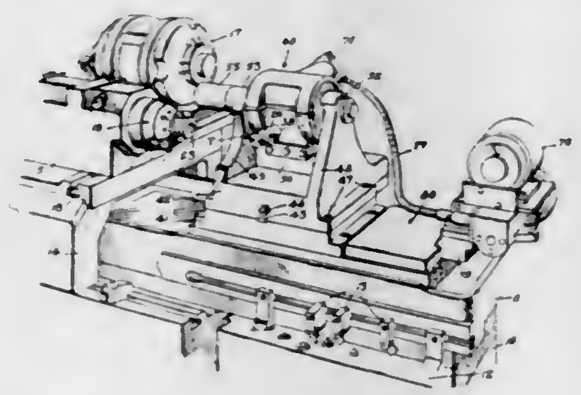
1. A hat comprising a four-edged piece of fabric, a rectangular portion of which is adapted to form a head covering, means for gathering three sides of the rectangular head covering portion of the fabric into a compact gathered unit to form the base of a head encircling portion, the fourth side of said rectangular portion forming the major part of the head encircling portion.

2,421,655
BORING MACHINE

Harold N. Seyferth, East Detroit, and Gilbert Stewart, Detroit, Mich., assignors to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan

Application May 25, 1943, Serial No. 488,374

9 Claims. (Cl. 77—3)



1. A boring machine comprising, in combination, a main frame, a rotary spindle mounted on said frame in a fixed axial position and adapted to support the work to be bored, a table slidable on said frame longitudinally of said spindle, and a boring tool fixture mounted on said table for movement thereby toward and from said spindle, said tool fixture comprising a sub-base secured to said table, a base mounted on said sub-base for adjustment transversely of said spindle, and having longitudinally spaced bearings, a carrier slide mounted on said base for translation longitudinally of said spindle, an operating shaft rotatably journaled in said slide for translation therewith, and being slidably guided at opposite ends in said bearings, a lead nut fixed on said base, a lead screw on one end of said shaft and in threaded engagement with said nut, spring means acting between said nut and screw to take up backlash therebetween constantly in one direction, a tool holder mounted in said carrier slide for translation therewith and for movement therein transversely of said spindle, a rotary contour cam fixed on said shaft, a cam follower fixed on said holder for adjustment transversely of said spindle, spring means acting to maintain said follower in coacting engagement with said cam, reversible drive means for rotating said shaft in forward and reverse directions, a boring tool bar mounted on said holder and extending longitudinally of said spindle, and a laterally projecting tool on said bar.

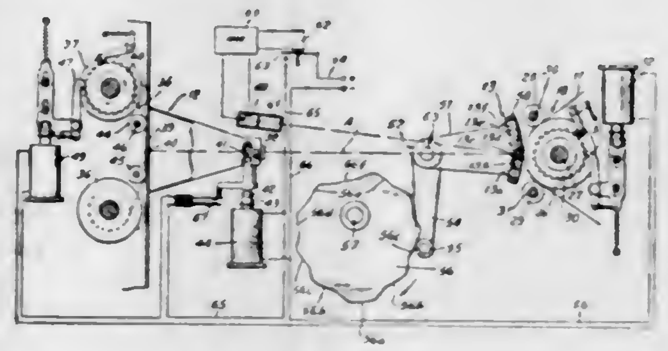
2,421,656
PHOTOGRAPHIC JUSTIFYING APPARATUS

Clarence C. Smith, Flushing, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application October 27, 1944, Serial No. 560,547

11 Claims. (Cl. 95—4.5)

7. Apparatus for photographically reproducing typewritten copy line-by-line in justified form and comprising a device for holding a copy sheet having a plurality of lines of typewriting thereon arranged with an even left-hand margin and the line varying in length from a predetermined maximum to a minimum, and a control spot at the right-hand end of each line and the spots being spaced equal distances from the last character in their respective lines; line-spacing means for successively moving said lines into a photographing position; a camera for photographing the lines of copy in succession on a light-sensitive medium; lens means mounted for movement along a path extending transversely of the optical axis and between said copy sheet and said camera and said lens means being so constructed that as it is so moved the line of copy in photographing position appears through said lens means, from a point adjacent the camera, to vary progressively in length with its left-hand margin remaining fixed and with its right-hand end character and related control spot moving to the right or left depending upon the direction of movement of said lens means; means for moving said lens means along said path; a light-sensitive control element; fixed collimating means restricting the light rays affecting said element to those flowing through said lens means and emanating from a part of the copy beyond the right-hand end of the line in photographing position, and said collimating means being so adjusted that when the lens means is moved to a position where the control spot for the line in photographing position varies the flow of light rays to said element, such line when photographed on said medium will be at a predetermined justified length; means responsive to a control spot varying with light flow to said element for rendering said lens moving means ineffective and for effecting a photographing operation of said camera.



10. Apparatus for photographically reproducing typewritten copy line-by-line in justified form and comprising a copyholder for moving each line of the copy into a photographing position; a camera for photographing the lines of copy in succession on a light sensitive medium; lens means movable along a path extending transversely of the optical axis and between the line of copy in photographing position and said camera, and said lens means comprising a plurality of cylindrical lenses mounted in side-by-side relation and being formed, respectively, with curved surfaces having different degrees of curvature and being arranged so that as each lens is moved into a position between the line of copy in photographing position and the camera lens, the curved surface of such lens extends in the same general direction as the said line of copy; and means for selectively positioning said cylindrical lenses along said path so that the lines may be photographed on said medium at a predetermined justified length.

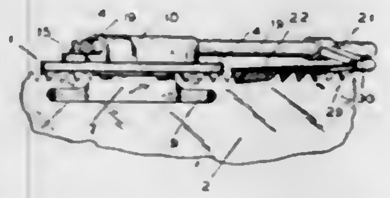
2,421,657
HANDSAW FILING GUIDE

James H. Speed, Portland, Oreg., assignor to Speed Corporation, a corporation of Oregon

Application April 22, 1946, Serial No: 664,004

2 Claims. (Cl. 76—36)

2. A saw filing device, comprising a clamp, said clamp including a top plate to fit over the edges of the saw teeth, an integral rib depending from the plate and having an inclined face to avoid the saw teeth and a flat surface to engage one face of the saw below the teeth, a resilient element opposite the rib, said element having its ends bowed toward the saw, said bowed ends engaging the opposite face of the saw, an adjustably mounted guide mounted on the plate, and a file carrying frame reciprocally mounted in the guide.

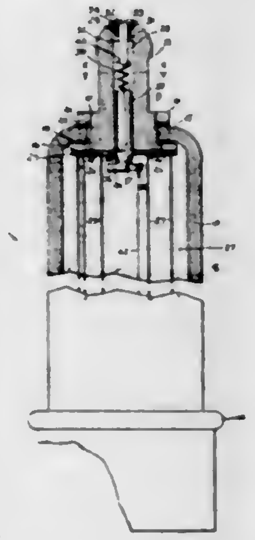


2,421,658
CIRCUIT INTERRUPTING DEVICE

Harold E. Strang, Ardmore, and Alric H. Powell, Yeadon, Pa., assignors to General Electric Company, a corporation of New York

Application April 28, 1943, Serial No. 484,842

6 Claims. (Cl. 200—121)



3. In a device adapted to be used as a conductor stud on electric switchgear through which connections with an associated electric circuit may be completed by a simple plugging operation, the combination of a tubular insulating casing having an inturned shoulder on one end thereof, a conducting member having a hollow elongated portion in the form of a plug type contact, said member having a shoulder adapted to engage the shoulder of the casing on the inside thereof means for clamping said member to said shoulder of the casing with the elongated portion of the member extending from the casing, a terminal fastened to the other end of said casing, a fusible element interconnecting said conducting member and said terminal, and indicating means including a floating spring biased plunger mounted in said hollow elongated portion to indicate by the position of said plunger whether or not said fusible element has operated to interrupt the circuit through said device, said plugging operation comprising movement in the direction of the axis of said casing.

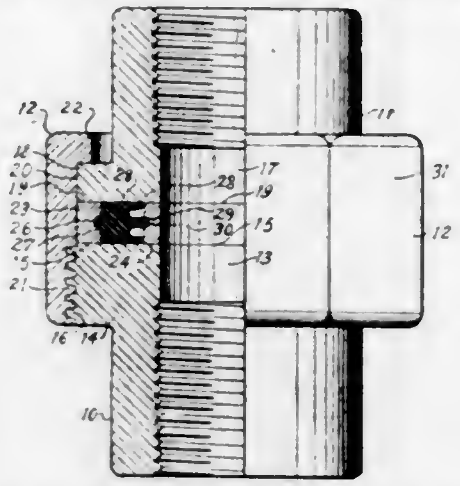
2,421,659
SEAL FOR PIPE JOINTS

William J. Sutton and Benjamin C. Simpson, Houston, Tex., assignors to Wilson Supply Company, Houston, Tex., a corporation of Texas

Application October 6, 1945, Serial No. 620,706

4 Claims. (Cl. 288—24)

1. As a sub-combination in a union, a seal ring having a medial annular bead on its outer periphery and an inwardly extending annular medial rib in its bore, and inwardly directed annular sealing lips on each side of said rib.

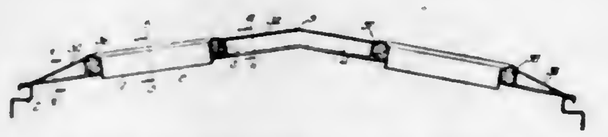


2,421,660
HATCH CONSTRUCTION FOR RAILWAY CAR ROOFS

James S. Swann, Homewood, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application October 10, 1945. Serial No. 621,487

5 Claims. (Cl. 108—5.4)



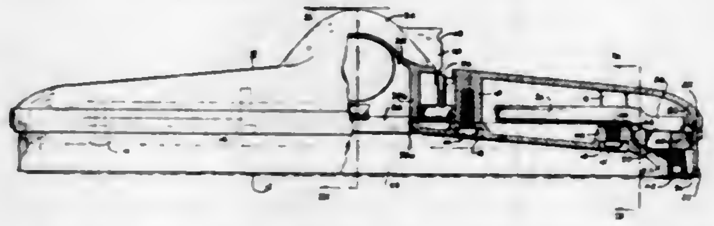
1. A hatch construction for a railway car having spaced walls, said construction comprising spaced carlines adapted to extend between and be secured to said walls, a hatch frame remote from each car wall which is positioned between and secured to both of the carlines, an upper roof sheet positioned in the plane of the upper parts of the carlines extending between and secured to said hatch frames and extending between and secured to said carlines, and an end roof sheet positioned in the plane of the upper parts of the carlines extending between each hatch frame and the adjacent wall and secured thereto and extending between and secured to the carlines, whereby the upper roof sheet, the end roof sheets and the hatch frames cooperate to form a continuous integral member between the walls of the car to strengthen the upper parts of the carlines in beam action.

2,421,661
SUCTION CLEANING NOZZLE

Charles H. Taylor, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 16, 1945, Serial No. 583,144

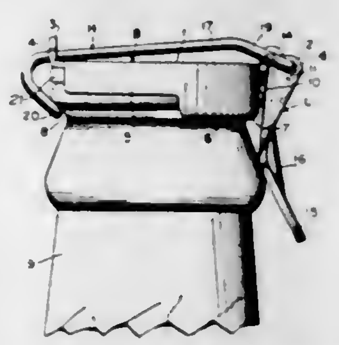
2 Claims. (Cl. 15—158)



1. In a suction cleaner, a nozzle construction including upper and lower members and fasten-

ing means for connecting the members in abutment relation, the lower member including an inner wall bounding the suction opening and an outer wall spaced from the inner wall to define a brush slot, said upper member covering the lower member and having inner and boundary abutment portions cooperating with abutment portions of the latter, the abutment portion of the lower member cooperating with said boundary abutment portion of the upper member being constituted by the adjacent edge of said outer wall, said inner abutment portions including abutting wall elements defining a suction passage communicating with the nozzle opening, a brush in the slot, stops for limiting outward movement of the brush in the slot, a shaft having end crank portions, means for positioning the shaft with the crank portions thereof disposed above the brush and including cooperating bearing portions provided on the upper and lower members, and means for turning the shaft to engage the crank portions with the brush to confine the latter in place with respect to said stops and to disengage the crank portions from the brush.

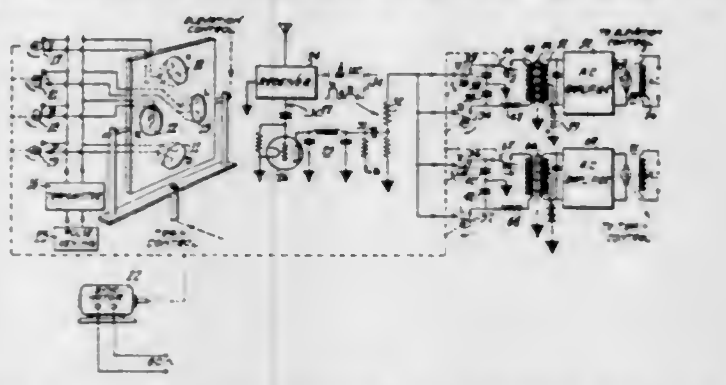
2,421,662
BOTTLE CAP
John C. Terry, Hollywood, Calif.
Application July 2, 1946, Serial No. 681,001
6 Claims. (Cl. 215—45)



1. A cap for a container having a neck with an exterior bead around the outer end of said neck, said cap comprising a head, marginal flanges carried by the head, said flanges having portions to engage under the external bead of the container, a lever engaged with a marginal portion of the head for swinging movement, and a hook member extending across the head and operatively engaged with the lever, said hook member having an inwardly disposed bill to engage the external bead of the container when the lever is swung in one direction.

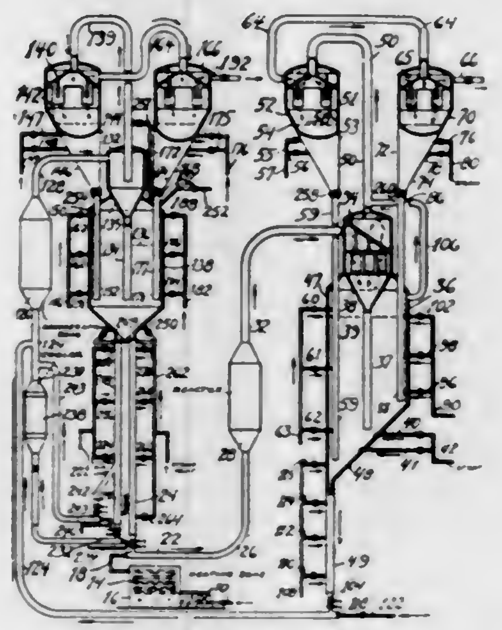
2,421,663
CONTROL OF SERVO MECHANISM
William A. Tolson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1942, Serial No. 470,692
6 Claims. (Cl. 250—1.54)

1. In a system for effecting a control or indication in accordance with the amplitudes of successively recurring voltage pulses, a pair of capacitors, means for charging said capacitors in accordance with the amplitudes of said successively recurring pulses, respectively, means for discharging said capacitors periodically in opposition through a comparatively low impedance circuit to obtain a periodic control voltage, a reversible alternating current motor, and means for driving said motor in accordance with said control voltage.



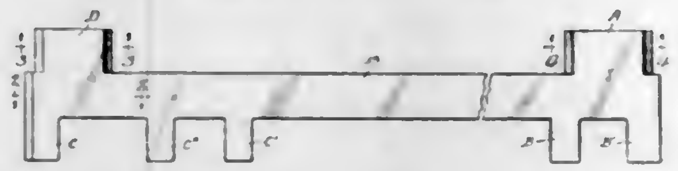
2. A receiver for a radio pulse-echo system which includes directive antennas having overlapping radiation patterns, each radiation pattern including a group of pulses which groups of pulses have been radiated in succession, means for demodulating the received pulses, a pair of vacuum tubes connected in push-pull relation, a pair of capacitors, means for connecting said demodulating means successively to said capacitors and in synchronism with the radiation of said patterns, respectively, to charge each of said capacitors to a voltage which is a measure of the amplitude of the group of said received pulses applied thereto, means for discharging said capacitors periodically in opposition through a low impedance circuit to obtain a periodic control voltage, means for applying said control voltage to said pair of vacuum tubes, and means for utilizing the output of said vacuum tubes for control or indication purposes.

2,421,664
CONTACTING FLUIDS WITH SOLID PARTICLES
Charles W. Tyson, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 28, 1940, Serial No. 372,050
23 Claims. (Cl. 196—52)



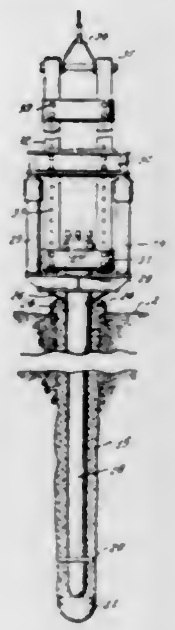
1. In the contacting of powdered solid particles and fluids, wherein the powdered solid particles and fluid are passed through a reaction zone and maintained therein for a time sufficient to effect a desired reaction and the solid particles are separated from reaction products in a plurality of separation stages and the separated solid particles are collected in a closed hopper, the step of returning the solid particles separated in each of said stages as separate confined streams to said hopper below the level of solid particles therein.

2,421,665
STEEL BARREL PLUG WRENCH
George B. Umbdenstock, Prairie View, Ill.
Application September 1, 1943, Serial No. 500,777
1 Claim. (Cl. 81—119)



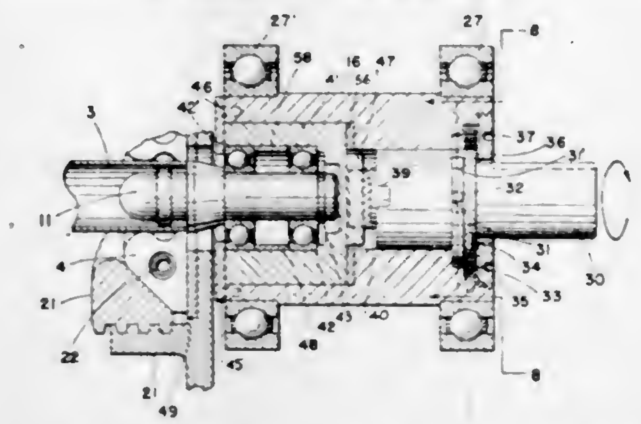
A wrench comprising an elongated arm having a substantially uniform rectangular cross section and an elongated unobstructed straight edge, a pair of tangs extending transversely outwardly from said straight edge adjacent one end thereof, said tangs lying in a straight line and in the plane determined by flat dimensions of said arm, each of said pair of tangs having a pair of exterior work-engaging surfaces, and a third tang extending transversely outwardly from said straight edge in between said two tangs and lying in said plane, the lengths of each of said tangs being equal to each other, said third tang being spaced unequal distances from each of said pair of tangs and having at least three exterior work-engaging surfaces, each work-engaging surface of said third tang cooperating with a different one of the work-engaging surfaces of said two tangs.

2,421,666
METHOD OF AND APPARATUS FOR MAKING CONCRETE PILES
Maxwell M. Upson, Englewood, and Edward A. Smith, Chatham, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey
Application October 18, 1944, Serial No. 559,168
11 Claims. (Cl. 61—57)



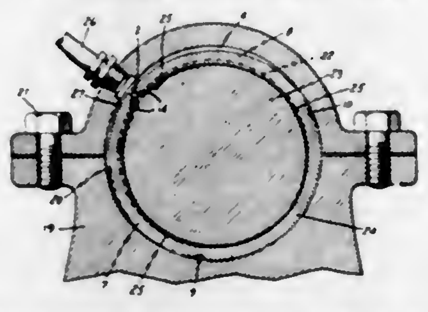
1. Method of forming a concrete mold in the ground which comprises sinking a tubular casing into the ground, lowering into said casing a hollow watertight form of appreciably smaller diameter than said casing, filling the space between said casing and said form with concrete, removing said casing, admitting water into the hollow interior of said form, introducing live steam into said water to heat same and thereby assist in solidifying said concrete, and then removing said form.

2,421,667
APPARATUS FOR BEADING OR FLARING METAL TUBING
Hermann E. Veit, Towson, and Weldon C. Miles, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application March 10, 1945, Serial No. 582,008
8 Claims. (Cl. 153—81)



1. In a machine for forming a bead or flare on a tubular member, a driving shaft, a tool cylinder driven by said shaft through a coupling providing limited angular motion of the tool cylinder with respect to the axis of the shaft, said tool cylinder having a cavity eccentric of the shaft axis, a tool holder rotatably mounted in said cavity, a metal working tool mounted in said tool holder, a die to receive a tubular member arranged over the end of said metal working tool, means to frictionally engage the tool cylinder and retard rotation of said tool cylinder with respect to the shaft and move the metal working tool from a position co-axial with the driving shaft into a progressively increasing circular path about said shaft axis to engage the interior wall of the tube.

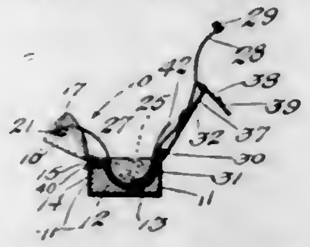
2,421,668
BEARING CONSTRUCTION
David H. Ware, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 12, 1945, Serial No. 572,535
9 Claims. (Cl. 308—240)



1. A bearing member for a substantially cylindrical supported member including a substantially cylindical mounting portion for supporting and securing said bearing member in position and having a larger inner diameter than said supported member, said bearing member being arranged around said supported member and having a pair of bearing pad portions resiliently secured to a third bearing portion formed to the same diameters as said bearing mounting portions and each arranged to support said supported member on a central relatively small section thereof, and said bearing portions of said bearing having internal surfaces formed on arcs of the same diameter as said bearing cylindrical mounting portion and normally biased inwardly to a diameter less than the diameter of said bearing cylindrical mounting portions and said sup-

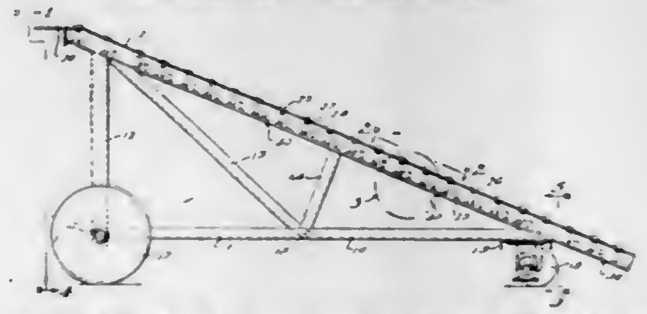
ported member and adapted to be biased outwardly by said supported member for providing relieved portions forming lubricant wedge spaces between said bearing and said supported member.

2,421,669
CIGARETTE MAKER
Maurice Warner, Los Angeles, Calif.
Application July 20, 1945, Serial No. 606,044
5 Claims. (Cl. 131—47)



1. A cigarette maker comprising a box, a filler block having a semi-cylindrical trough, means for rolling a cigarette within said trough upon closing of the box, said means including a cover member for the block and a flexible tape connected therewith, and a spindle carried by the cover to which the tape is connected.

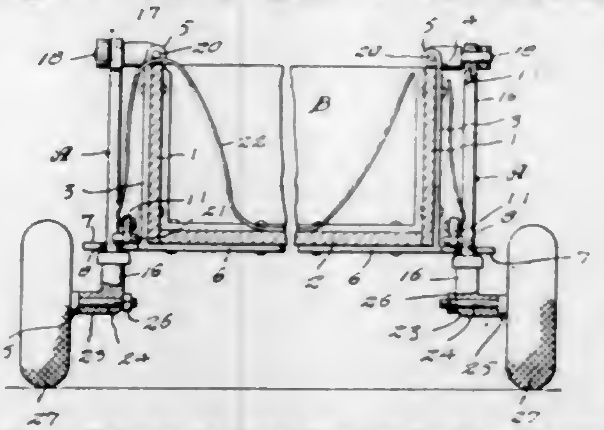
2,421,670
ROLLERWAY SKID
Jervis B. Webb, Bloomfield Township, Oakland County, Mich., assignor to Jervis B. Webb Company, Detroit, Mich., a corporation of Michigan
Application October 14, 1944, Serial No. 558,623
3 Claims. (Cl. 193—35)



1. A loading skid comprising a wheeled supporting frame, a pair of laterally spaced inclined roller supports, each having a plurality of spaced inclined elongated slots therein, the major axes of said slots being substantially parallel to the inclined plane of the load bearing portion of the skid, a plurality of rollers mounted between said roller supports and having journals rotatably received within said elongated slots, and braking means for each of said rollers consisting of a pair of angle brackets secured one to each of said roller supports below the elongated slot therein for said roller, each of said brackets having a substantially horizontally extending web located below the inclined elongated slot in which the journal of its respective roller is mounted, and a pad of brake lining material secured to the horizontal web of said bracket for engagement by the periphery of said roller when the journals of said roller move towards the lowermost ends of elongated slots in which said journals are mounted.

2,421,671
WHEEL ATTACHMENT FOR BOATS
William A. West, Pine Bluff, Ark.
Application October 25, 1944, Serial No. 560,264
5 Claims. (Cl. 9—1)

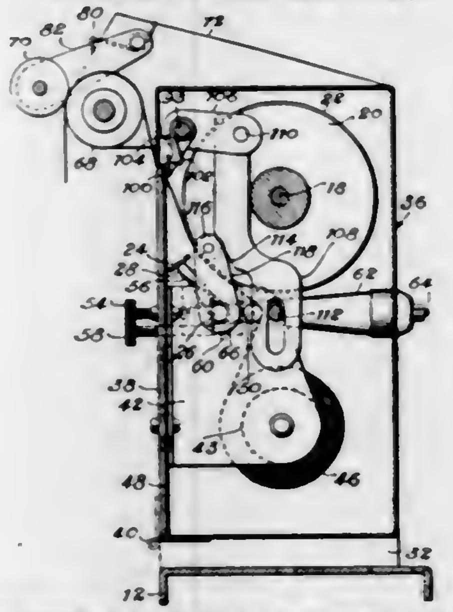
1. In combination with a side wall of a boat, a member movably mounted on said side wall for position at either side of the side wall and substantially at right angles thereto, a relatively long arm having an end pivotally joined to said member for swinging movement lengthwise of the side wall when said member is in either of its two positions with respect to the wall, a ground engaging member carried by the opposite end of the arm and extending below the boat when the arm is swung downwardly upon the outer side of the side wall, a flange carried by the boat adjacent to the bottom of the boat and extending outwardly with respect to the boat side wall, said flange having an open slot in which the arm enters when swung downwardly and means carried by the flange and operatively engaging the arm after entering the slot to hold the arm against upward swinging movement.



2,421,672
RUST PREVENTIVE COMPOSITION
Chester E. Wilson, San Pedro, and Mary Louise Dodge, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application January 21, 1944, Serial No. 519,202
21 Claims. (Cl. 106—14)

15. An anti-rust composition comprising between about 5% and 95% by weight of an oil-soluble metal soap of a semi-drying oil and between about 3% and 85% by weight of an oil-soluble metal soap of synthetic organic acids produced by the liquid phase oxidation of a petroleum hydrocarbon.

2,421,673
FACSIMILE RECEIVER
Charles J. Young, Ardmore, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application November 29, 1941, Serial No. 420,917
5 Claims. (Cl. 234—70)

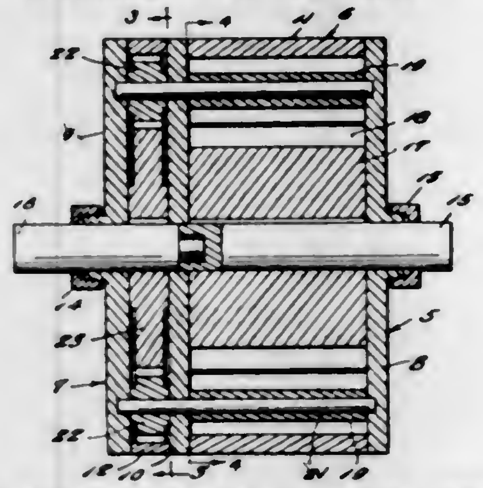


2. A facsimile receiving apparatus wherein potential variations are used to produce a facsimile recording on a sheet of record-receiving material comprising means for supporting a supply roll of record-receiving material, a rotatable recording drum, a cooperating printer bar, means for passing the record-receiving material between the printer bar and the drum comprising a traction roller mechanically coupled to the rotatable recording drum, means for retracting the printer bar from its normal operative position, and means for disengaging the mechanical coupling between the traction roller and the recording drum, said printer bar retracting means and said mechanical coupling disengaging means being operated by a single remotely operable member.

2,421,674
PREPARATION OF ISOPARAFFINS AND REACTIVATION OF THE CATALYST USED THEREIN
George W. Ayers, Chicago, Erskine E. Harton, Evanston, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application April 30, 1943, Serial No. 485,170
6 Claims. (Cl. 260—683.5)

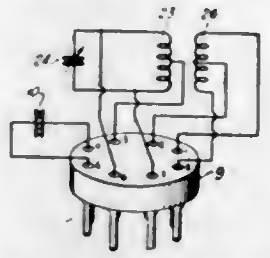
1. A process for converting straight chain hydrocarbons within the gasoline boiling range into branched chain hydrocarbons within the gasoline boiling range which comprises passing a stream of straight chain hydrocarbons containing from 4 to 10 carbon atoms per molecule through a Friedel-Crafts type catalyst in a reaction chamber under conditions suitable for converting straight chain to branched chain hydrocarbons, until the catalyst has formed a hydrocarbon complex and the yield of branched chain hydrocarbons has dropped to a predetermined amount, discontinuing the stream of straight chain hydrocarbons and substituting therefor a stream containing substantially only branched chain paraffins selected from the group consisting of isobutane and isopentante, passing the stream of branched chain paraffins through the catalyst under conditions suitable for reaction between the branched chain paraffins and the hydrocarbons in the catalyst complex, continuing the passage of the branched chain hydrocarbons through the catalyst until the catalyst is at least partially reactivated and then discontinuing the charge of branched chain paraffins and resuming the charge of straight chain paraffins.

2,421,675
COMBINATION FLUID DRIVE AND AUTOMATIC TORQUE MULTIPLIER
Chester R. Bacon, Los Angeles, Calif.
Application May 24, 1944, Serial No. 537,177
3 Claims. (Cl. 74—189.5)



1. In a fluid clutch of the class described, a housing comprising spaced end plates and a partition therebetween defining individual chambers, one constituting a gear housing and the other a fluid and multiple rotor compartment, a drive shaft mounted for rotation in the last-named compartment, a bladed rotor keyed on said drive shaft and located in said compartment, the marginal portion of said last-named compartment being provided with radial circumferentially spaced pockets, individual bladed rotors mounted for rotation in said pockets and operatively surrounding and mechanically coacting with the bladed peripheral portion of said main rotor, and gearing in the remaining gear housing together with a power take-off shaft in said housing and connected with said gearing, said gearing being driven by said second-named individual rotors.

2,421,676
OSCILLATOR
Joseph G. Beard, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 7, 1944, Serial No. 529,987
2 Claims. (Cl. 250—36)

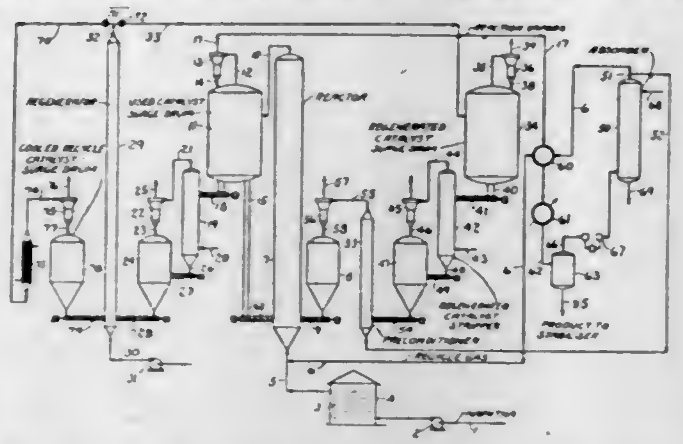


1. A crystal oscillator plug-in unit comprising a metallic housing member having electrical terminals, a piezo-electric crystal within said housing member, said crystal being connected to certain of said terminals and the grid cathode circuit of an electron discharge device, a variable condenser within said housing member, a coupling device having input and output coils each one of which has a center tap within said housing member, the outer ends of said input coil being connected to said terminals and said condenser and to the anode cathode circuit of said electron discharge device, the center tap of said input coil being connected to the excitation terminals of a following stage, the outer ends of the output coil being connected to the terminals of a detector stage and the center tap of said output coil being connected to a terminal, and means for maintaining said terminal at ground potential.

2,421,677
CATALYTIC CONVERSION OF HYDROCARBONS
Arnold Belchetz, Kew Gardens, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application July 31, 1940, Serial No. 348,605
8 Claims. (Cl. 260—673.5)

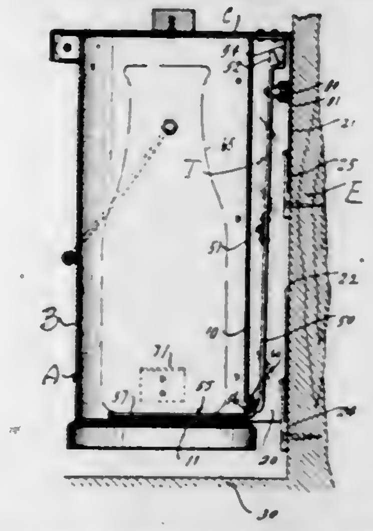
1. A process for the conversion of aliphatic hydrocarbons to aromatic hydrocarbons which comprises suspending a powdered dehydrogenating and cyclicizing catalyst of sufficient fineness that most of it passes a 200-mesh screen previously heated to a temperature approximating the conversion temperature in vapors of the aliphatic hydrocarbons, passing the suspension upwardly through a conversion zone at a velocity within the range of about 1 to 3 feet per second under superatmospheric pressure and at elevated temperatures suitable to largely dehydrogenate and cyclicize the aliphatic hydrocarbons to aromatic compounds, and maintaining the proportions of

heated catalyst and hydrocarbons introduced to the conversion zone within limits in terms of catalyst-to-hydrocarbons, by weight, of about



2-20 to 1 so as to supply the endothermic heat of reaction without supplying extraneous heat to the reaction mixture to any substantial extent.

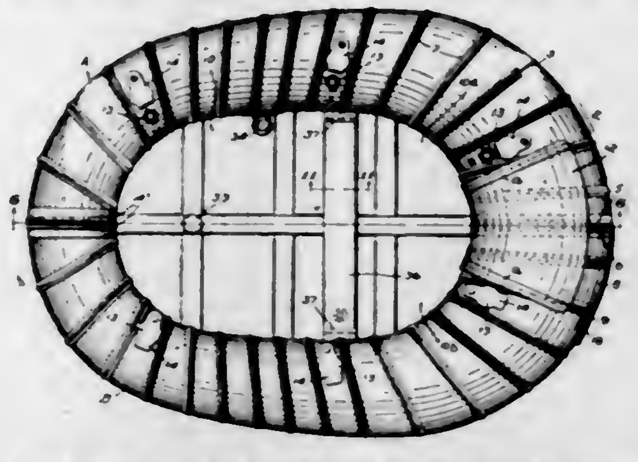
2,421,678
SAFETY CONTAINER FOR MERCHANDISE
John A. Bentz, Harrisburg, Pa.
Application April 17, 1945, Serial No. 588,787
4 Claims. (Cl. 232—41)



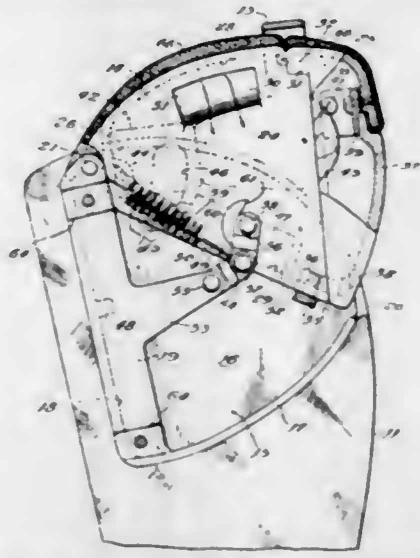
4. In a holding receptacle for receiving articles of merchandise such as milk bottles and the like, the combination of a container having an article receiving compartment therein, a closure for the container, an elongated locking member pivotally mounted upon the container and extending longitudinally thereof, means at the upper end of said locking member for locking the closure against opening, and a control member movably mounted upon the container within the compartment having a cam extension for releasably holding the locking member inoperative, said control member mounting being such that the control member will normally assume a position to permit the locking member to assume a closure locking position and having a portion adapted to rest against an article of merchandise when placed within the container to position the cam extension in engagement with the locking member to hold the latter inoperative.

2,421,679
LIFESAVING BOAT
George H. Bingham, Jr., Lincoln, Mass., assignor to The Cambridge Rubber Company, Cambridge, Mass., a corporation of Maryland
Application May 1, 1944, Serial No. 533,463
15 Claims. (Cl. 9—2)

4. An inflatable boat comprising a tubular body substantially encircling a cockpit, one or more coiled springs in said body for expanding it both laterally and longitudinally, and one or more check valves in the wall of said body through which air is drawn to inflate it as it is so expanded.



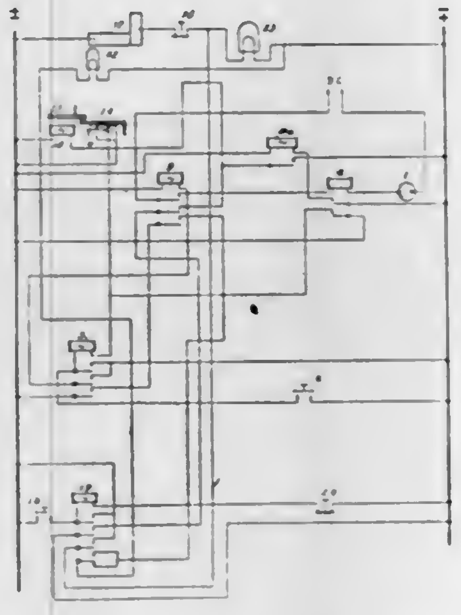
2,421,680
VEHICLE LIGHTING SYSTEM
James E. Candlin, Jr., Chicago, and Harry L. Howe, Riverdale, Ill., assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application July 13, 1944, Serial No. 544,657
11 Claims. (Cl. 240—7.1)



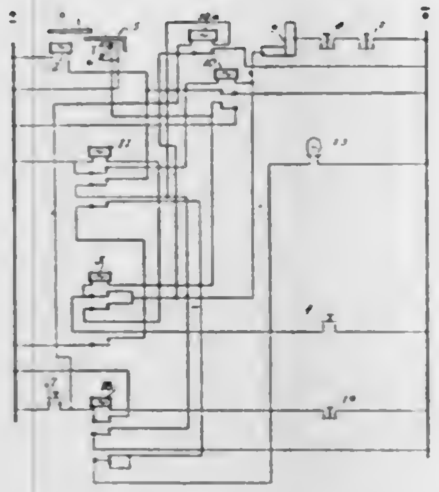
6. A vehicle having a seat including a backrest having a recess, a retractible light fixture pivotally mounted in said recess and normally disposed flush with the surface of the backrest, a light source in the fixture, said fixture being movable from a retracted position within the recess to an extended light projecting position above the surface of the backrest, mechanism limiting pivotal movement of the fixture comprising a pair of folding link members pivotally connected to the fixture and anchored in said recess respectively, and a spring connected to said link members intermediate the connections to said fixture and the recess, said links being disposed at an angle to said spring and in such relation to each other as to maintain the housing in retracted or extended positions under the force exerted by the spring.

2,421,681
TYPEWRITER WORD COUNTER
Harold Chaskin, New York, N. Y.
Application February 12, 1944, Serial No. 522,099
11 Claims. (Cl. 235—102)

1. In a typewriting machine having type-keys operatively connected to a counting machine having a counting lever, the combination with main and auxiliary electric circuits associated with said counting lever, of a main switch controlling said circuits, a movable frame on said typewriting machine depressible by certain of said keys to close said main switch for initiating movement of the counting lever for cocking the counting mechanism and a photoelectrically actuated circuit breaker operable by a movable part of said typewriting machine to open the circuits for permitting said counting mechanism to complete its counting movement and for restoring the parts to normal condition.

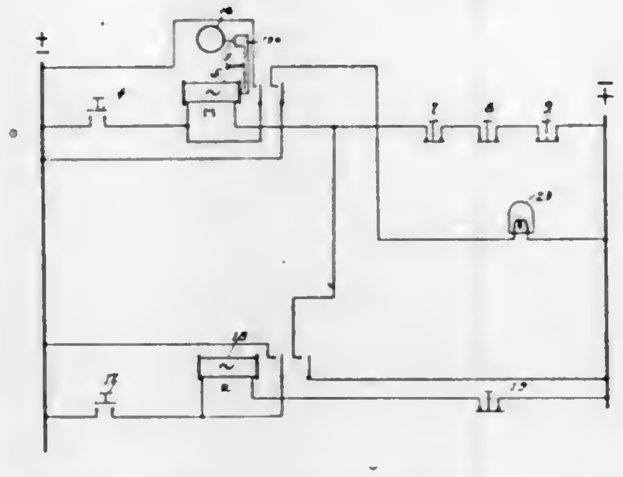


2,421,682
TYPEWRITER WORD COUNTER
Harold Chaskin, New York, N. Y.
Application February 26, 1944, Serial No. 524,021
3 Claims. (Cl. 235—102)



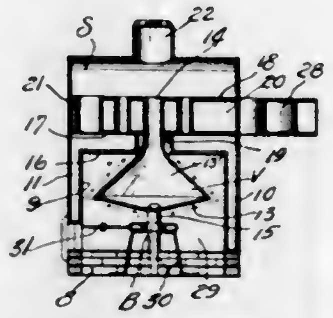
1. The combination with a typewriting machine and a word counter device having a counting actuator, a source of electromotive force, main and auxiliary circuits connected thereto, means actuated by the depression of any letter key of the machine to break one of said auxiliary circuits for moving said actuator to a position preparatory to registering the count, means for retaining the actuator inactive when subsequent letter keys are depressed and means subsequently actuated by the carriage of the machine for moving said actuator to complete the count including a switch device in another of said auxiliary circuits having a movable contact in the path of movement of the line spacing lever carried by said carriage.

2,421,683
TYPEWRITER WORD COUNTER
Harold Chaskin, New York, N. Y.
Application March 20, 1944, Serial No. 527,181
3 Claims. (Cl. 235—102)



1. Means for automatically operating a counter machine having a counter actuator from a standard typewriting machine having letter keys and a spacer bar including a main line circuit and an independent circuit arranged in parallel, a relay device of the solenoid magnet type in said independent circuit having a plunger, switching means in circuit with said relay device actuated by movement of a letter key of the typewriting machine for energizing said relay device to actuate its plunger for moving the counter actuator to a position preparatory to registering the count, means for maintaining said relay device energized for holding the counter actuator in moved position and inactive when subsequent letter keys are moved and a main line switch actuated by movement of the spacer bar of the typewriting machine for opening the circuit through said relay device thereby deenergizing the independent circuit for moving the counter actuator to complete the count.

2,421,684
BOILER
George A. Close, Bay City, Mich.
Application August 6, 1945, Serial No. 609,063
1 Claim. (Cl. 122—146)



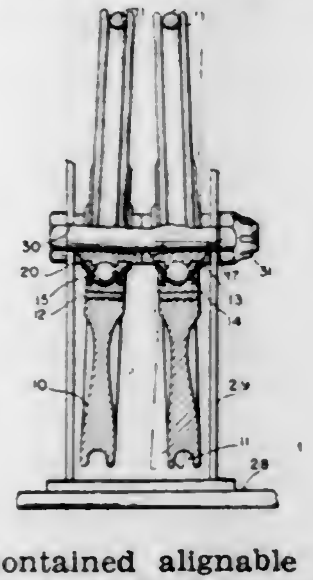
A heating boiler of the class described comprising, inner and outer shells forming a water chamber therebetween, with the inner shell curved inwardly to form a crown sheet, vertically spaced tube sheets above the crown sheet, vertical water tubes between the tube sheets, partitions between the said tube sheets to form horizontally disposed smoke passages therebetween, a centrally disposed smoke flue projecting from said crown sheet and opening into the central passage, a centrally disposed, substantially pear-shaped water vessel suspended from the upper tube sheet and passing through the said smoke flue, and vertical tubes between said tube sheets.

2,421,685
ALIGNABLE PULLEY

André Crot, North Hollywood, and Robert R. Richolt, Tujunga, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.

Application July 26, 1944, Serial No. 546,685

9 Claims. (Cl. 308—18)



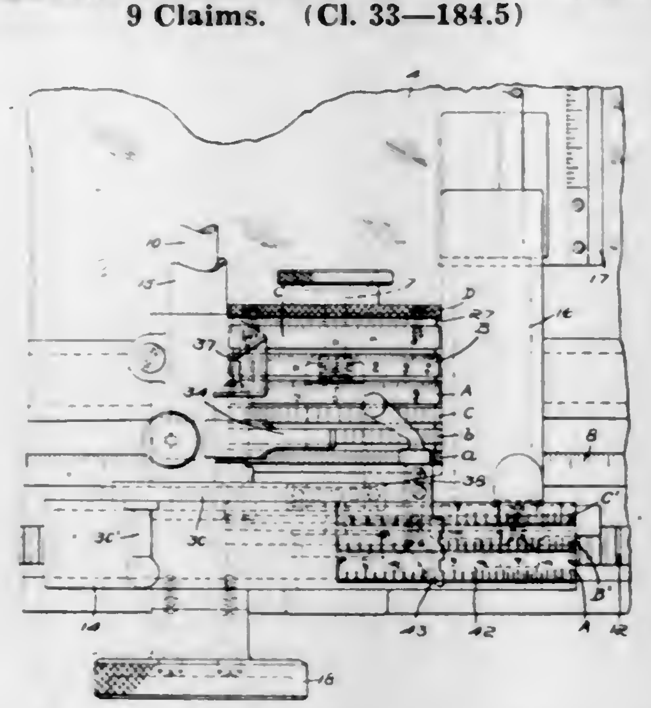
1. A self-contained alignable pulley for arrangement on a support comprising a body, bearing means on the body capable of angular adjustment on the support, clamp members for acting on the bearing means to preserve the angular adjustment thereof, and retaining rings operatively securing the clamp members to the bearing means to form elements of the self-contained pulley..

2,421,686
SPACING MECHANISM FOR LINE-UP AND REGISTER TABLES

Floyd L. Dodge, Waltham, Mass., assignor to Craftsman Line-up Table Corporation, Waltham, Mass., a corporation of Massachusetts

Application April 17, 1945, Serial No. 588,802

9 Claims. (Cl. 33—184.5)



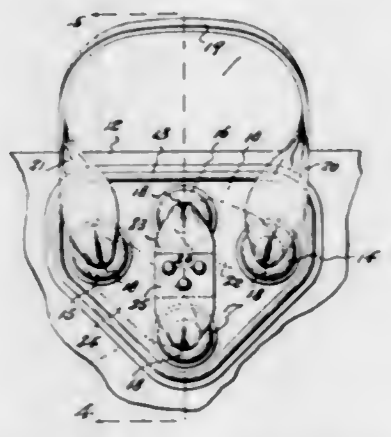
1. A spacing mechanism for a line-up table having a top, a carriage mounted for movement across said top, a straight edge mounted on said carriage, and racks supporting said carriage for said movement, said carriage having gears meshing with said racks, said spacing mechanism comprising a pinion positively geared to one of said racks, bearings in said carriage supporting said pinion for rotation around its own axis, a plurality of dials graduated in different units of length mounted for rotation in unison around said axis, a corresponding number of ratchet rings also mounted for rotation around said axis, means connecting said disks with said rings to revolve in unison with them but also permitting independent rotation of said rings, a lever mounted adjacent to said ratchet rings to rock about said axis, and means carried by said lever for operating said ratchet rings selectively.

2,421,687
PORTABLE CONTAINER HANDLE STRUCTURE

Henry Gordon Donnelly, Baltimore, Md., assignor to C. R. Daniels, Inc., Newark, N. J., a corporation of New York

Application December 12, 1944, Serial No. 567,854

1 Claim. (Cl. 150—12)



A handle structure for portable containers and the like comprising an external anchor plate and an internal anchor plate respectively superposed upon exterior and interior faces of an interposed container wall in registered opposed relation one to the other, a plurality of spaced grommets for securing said anchor plates and container wall in assembled relation, said grommets comprising a pair of horizontally aligned laterally spaced grommets and a pair of intermediate vertically aligned and spaced grommets, a flexible handle element arranged to provide a freely extending loop member, the side sections of which terminate in end portions, one of said end portions being laced from the outer side inwardly through one of said first pair of grommets to pass thence to and outwardly through one of said second pair of grommets, and the other said end portion being laced from the outer side inwardly through the other of said first pair of grommets to pass thence to and outwardly through the other of said second pair of grommets, and terminal parts of said end portions respectively emergent from said second pair of grommets being joined and secured together, whereby to provide a succession of interconnected snubbed bights adapted to anchor said loop member to the anchor plate container wall assembly and so as to offset said loop member outwardly from the exterior side of the container wall.

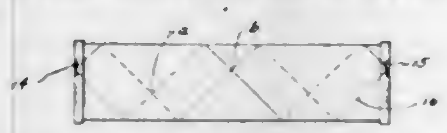
2,421,688
NONINDUCTIVE RESISTANCE ELEMENT

Stanley O. Dorst, North Adams, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts

Application January 16, 1945, Serial No. 572,993

6 Claims. (Cl. 201—67)

1. A resistor comprising a core upon which is wound two pairs of superposed resistance wires covered with a thin coating of insulating material, said wires being connected in parallel, the wires of each pair being wound in opposite directions, and one pair of wires being radially displaced approximately 180° from the other pair.

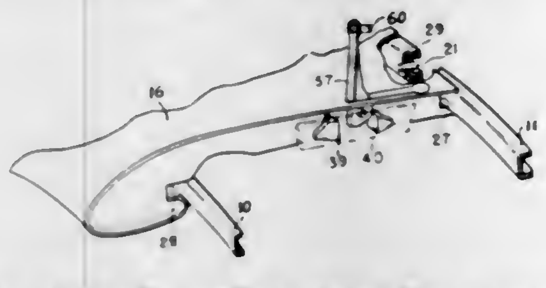


2,421,689
COWLING ARRANGEMENT

Hugh W. Elkin, Pasadena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application October 9, 1944, Serial No. 557,752

8 Claims. (Cl. 244—130)



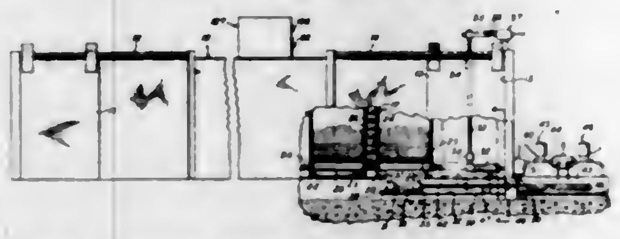
1. An aircraft cowling assembly comprising a supporting structure including an axially extending beam and a circumferentially extending member, a removable cowl panel having a channel for receiving said member for the transmission of radial loads between the panel and said structure, and means on the panel and said structure for shifting the panel axially to move the channel into and out of engagement with said member, said means including abutments on the beam and a rotatable cam on the panel for cooperating with the abutments.

2,421,690
RECIPROCABLE MEANS FOR AUTOMATICALLY MOVING A SERIES OF ARTICLES IN TANDEM THROUGH A DRYING CHAMBER

Vernon C. Ensor, Woodlawn, and Fred D. Johnston, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 8, 1944, Serial No. 553,186

7 Claims. (Cl. 34—53)



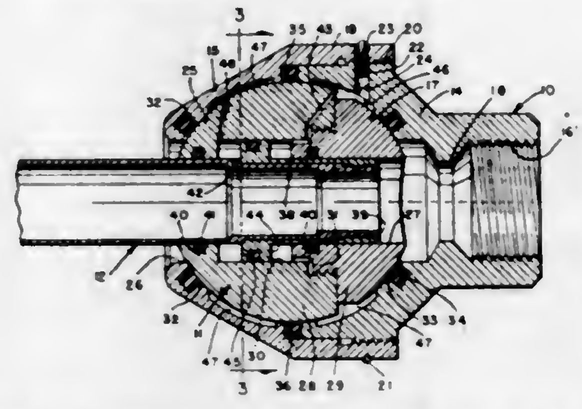
1. In a drying apparatus including an elongated enclosure having an entrance and an exit, reciprocable means movable from a starting position to a forward position for moving a series of articles arranged in tandem through the enclosure, means for driving the moving means and means for preventing movement of articles moved by the moving means except by the moving means, means for controlling the operation of the driving means which comprises a starting solenoid for causing the driving means to drive the reciprocable means from its starting position to its forward position to move a series of articles toward the exit end of the enclosure, a reversing solenoid for causing the driving means to drive the reciprocable means from its forward position to its starting position, and a limit switch positioned near the exit of the enclosure and serving when engaged by an article moved by the reciprocable means to the exit to de-energize the starting solenoid and to energize the reversing solenoid.

2,421,691
UNIVERSAL JOINT

Elgen B. Gibson, Jr., North Hollywood, and Donald W. Blakeman, Altadena, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.

Application September 4, 1943, Serial No. 501,222

3 Claims. (Cl. 285—95)



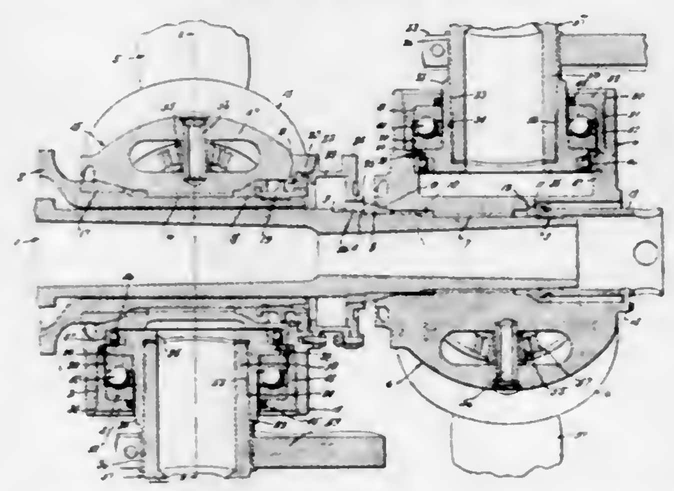
1. A fluid conducting joint including a socket unit, a ball unit in the socket unit, the two units being related for relative universal movement, a tubular fluid conducting member related to one of said units for relative axial movement, the assembly of the two units having a fluid passage in communication with the interior of the member, means dividing the ball surface into substantially equal and opposed areas subjected respectively to internal fluid and external atmospheric pressures and oppositely disposed relative to normal pressures acting on the ball, means for substantially balancing the axial fluid pressures on the member including walls in the ball defining a chamber having one end in communication with the atmosphere through the space on the ball subjected thereto and one end in communication with the interior of the member and with the surface of the ball subjected to internal fluid pressure, and a piston on the member operable in the chamber.

2,421,692
PROPULSION DEVICE

Paul F. Hackethal, Cockeysville, Md., assignor to Everel Propeller Corporation, Baltimore, Md., a corporation of Maryland

Application July 20, 1942, Serial No. 451,601

2 Claims. (Cl. 170—135.6)



1. A propulsion device for aircraft comprising a pair of tandem hubs rotatable in opposite direc-

tions about a common axis, a plurality of radial sockets in each hub, a sleeve mounted in each socket and adapted for free pivotal movement about the axis thereof, a bore in each sleeve, the axis of said bore defining an angle with and intersecting the axis of the socket, a propeller blade secured in each bore, and a plurality of synchronizing means disposed circumferentially around the propeller and interconnecting the blades of each individual propeller to maintain the pitch of the blades of that propeller uniform for all pitch variations.

2,421,693

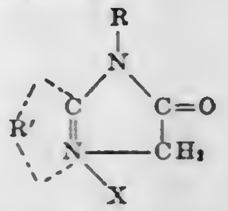
IMIDAZOLONE COLOR FORMERS

Benjamin Ramage Harriman, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 16, 1944, Serial No. 554,541

11 Claims. (Cl. 95—6)

1. A photographic element comprising a silver halide photographic emulsion containing as a color forming development component an imidazolone of the formula



wherein R′ represents the residue of a member of the group consisting of pyridine, quinoline and isoquinoline radicals, R represents a member of the group consisting of H, alkyl, aryl, aralkyl and acyl, and X is a negative ion of a quaternary ammonium salt.

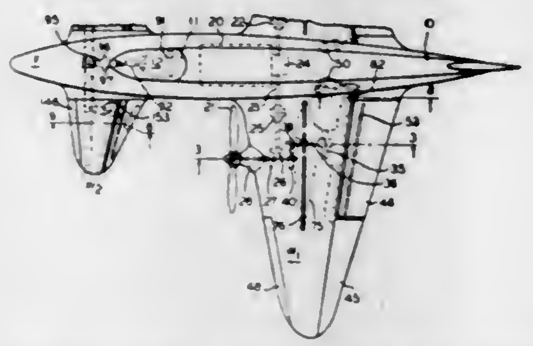
2,421,694

AIRPLANE CONTROL SURFACE

Willis M. Hawkins, North Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application July 2, 1942, Serial No. 449,431

3 Claims. (Cl. 244—75)



1. In an airplane, the combination comprising: a fuselage, a main supporting wing rigidly attached to said fuselage, a forward wing having an area and aspect ratio substantially less than said main wing and located a substantial distance ahead of said main wing, means providing a forwardly-located, spanwise wing axis about which said forward wing may turn to vary its angle of incidence, a pilot operated control lever, means operably connecting said lever to said forward wing for positively controlling the angle of incidence of the latter, means for disconnecting said connecting means so that said forward wing may freely turn about said axis and thereby enable the angle of incidence of said forward wing to be automatically varied with respect to said fuselage by the relative air stream to maintain a substantially constant angle of attack, and means to vary the position of the effective center of lift of said forward wing with respect to the pivotal support whereby the angle of attack of said forward wing may be varied.

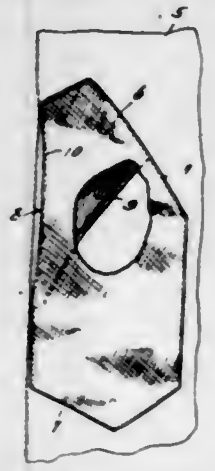
2,421,695

SAFETY POCKET

Charles W. Henson, Lawrenceville, Ga.

Application November 16, 1945, Serial No. 629,027

2 Claims. (Cl. 2—254)



1. A safety pocket for apparel, comprising a main pocket embodying an outer pocket section secured to the apparel, along the upper, lower, and one side edge only of the outer pocket section, providing a side entrance opening for the main pocket, an inner pocket secured within the main pocket, the open side of the inner pocket being disposed within the main pocket, said inner pocket being of a width greater than the width of the main pocket, whereby said inner pocket bulges and extends across the main pocket, closing the entrance opening thereof, and the open side of the inner pocket lying within the path of travel of articles moving by gravity from the pocket, when the pocket is inverted.

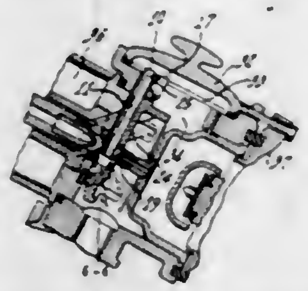
2,421,696

SPECIMEN HOLDER ASSEMBLY

James Hillier, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 1, 1945, Serial No. 580,406

7 Claims. (Cl. 250—49.5)



1. A specimen holder for electron microscopes consisting of an elongated member arranged to be fixed and having an arcuate groove extending lengthwise thereof, a second member having an arcuate groove complemental to the arcuate face of said fixed member and arranged to turn about the axis of said groove, means for mounting a specimen on said movable member with the plane of the specimen coincident with said axis, and means permitting turning of said movable member relative to said fixed member while maintaining said arcuate groove and face in contact.

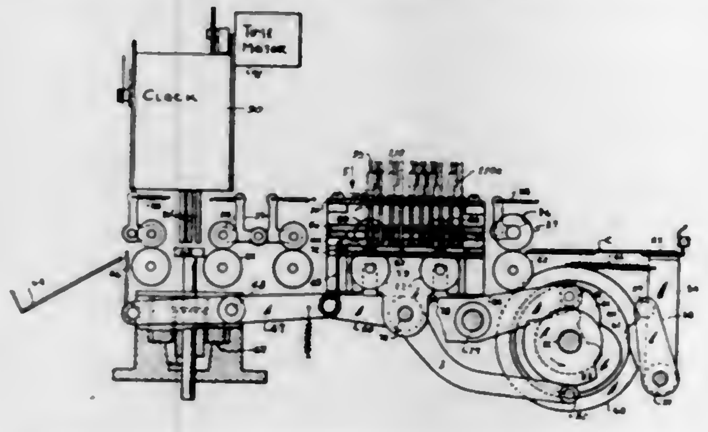
2,421,697

CARD TIME PRINTING AND PUNCHING RECORDER

Harold E. Hobby, Gardner, Mass., assignor to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts

Application April 16, 1945, Serial No. 588,527

7 Claims. (Cl. 234—43)



1. In a time recorder, in combination, card-punching mechanism, time printing devices, means to feed a card to said punching mechanism and to said printing devices, gates to stop said card in punching position and in printing position, and means to render said gates alternately and reversely operative.

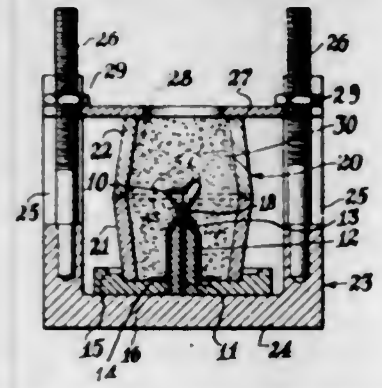
2,421,698

APPARATUS FOR CASTING DENTAL RESTORATIONS

Irving Hordes, Yonkers, N. Y.

Application January 4, 1946, Serial No. 639,078

2 Claims. (Cl. 18—5.7)



1. In apparatus of the character described, cavity and sprue forming devices consisting of a hollow metal cylindrical member having a restricted opening at one end, a cylindrical member inside of said hollow member and having a central passage and a restricted neck portion projecting outwardly through said restricted opening, a pin detachably mounted in said passage and projecting outwardly thereof and a wax pattern on the projecting end of said pin.

2,421,699

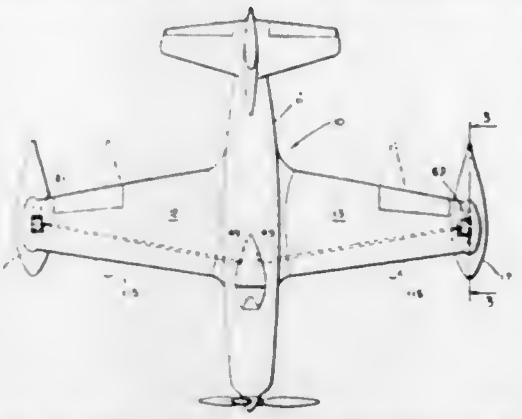
AUXILIARY FUEL TANK

Clarence L. Johnson, Encino, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application May 12, 1944, Serial No. 535,307

7 Claims. (Cl. 244—135)

2. In combination in an airplane, a wing, and a separate jettisonable external tank of streamlined form having a maximum diameter substantially greater than the thickness of the wing adjacent thereto, said tank being supported in substantial axial parallelism with the line of flight of the airplane and adjoinment with the tip of said wing, the surface contour of said wing tip and said tank being in substantial mergence.



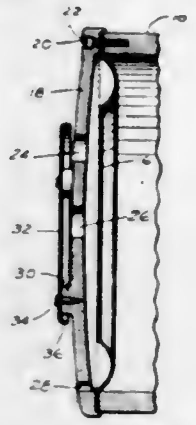
2,421,700

DIAPHRAGM COVER FOR OXYGEN REGULATORS

James P. Johnson, Cleveland, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio

Application November 23, 1944, Serial No. 564,866

2 Claims. (Cl. 137—156)



1. In a diaphragm cover of the character disclosed, a primary cover plate secured to the housing of an oxygen regulator over the diaphragm thereof, a plurality of bosses extending outwardly from said primary cover plate, and a secondary cover plate secured to said bosses and having a peripheral inturned flange terminating in closely spaced relation from said primary cover plate, said primary cover plate having air entrance openings within the outline of said secondary cover plate and spaced inwardly from said flange.

2,421,701

DUMP RECEPTACLE

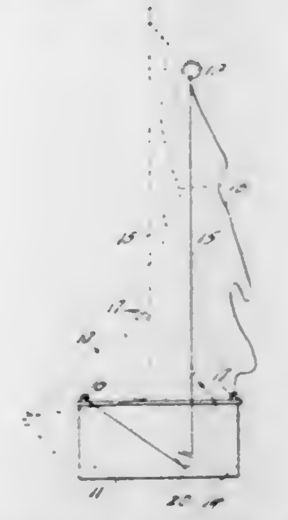
Samuel W. Johnson, Panama City, Fla., assignor of one-half to L. M. Gilbert, Panama City, Fla.

Application June 23, 1945, Serial No. 601,169

8 Claims. (Cl. 294—73)

1. In a device of the character described, a dump receptacle having its top portion open to permit introduction and removal of material, a pair of cables each having one end thereof secured to the receptacle on one side of a normal vertical center line of the receptacle, said cable ends being spaced so that they are on opposite sides of a normal horizontal center line of the receptacle, at least one additional cable having one end thereof secured to the receptacle on the opposite side of said normal vertical center line from the other cable ends, and a pair of cable engaging projections, one on each side of

said horizontal center line, said projections being located on the opposite side of said normal vertical center line from the first mentioned cable end.

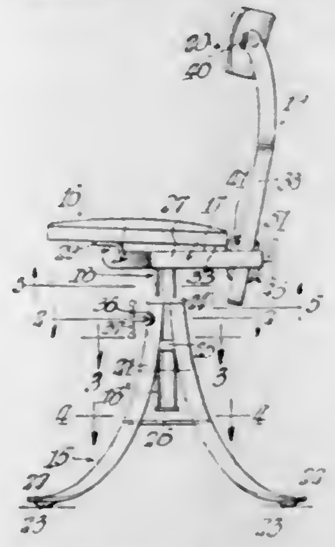


2,421,702
ADJUSTABLE CHAIR BACK

Arthur E. Jones, Elkhart, Ind., assignor to Posture Research Corporation, Elkhart, Ind., a corporation of Indiana

Application November 13, 1944, Serial No. 563,192

9 Claims. (Cl. 155—157)



1. A chair embodying therein a seat, means secured to the seat and defining an opening having laterally spaced sides, a back rest supporting member having a portion disposed in said opening and including laterally spaced side parts engaged with the sides of said opening, a shoe for each side part on the inner side thereof and having a longitudinal groove in its outer surface and in which the associated side part has sliding guided engagement, and means disposed between and having portions engaged with said shoes and supporting the same and including parts operative to impart a lateral outward movement to said shoes to force said side parts of said back rest supporting member into supporting engagement with the spaced sides of the first mentioned means.

2,421,703
DETERGENT PASTE

Jonas Kamlet, New York, N. Y., assignor to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 14, 1945, Serial No. 605,186

7 Claims. (Cl. 252—110)

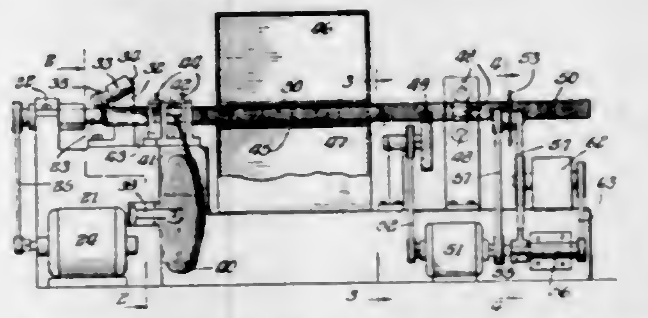
1. A detergent paste comprising from about 22% to about 33% trisodium phosphate calculated as the anhydrous salt, the trisodium phosphate being in a solid, finely divided, uniformly dispersed form, devoid of harsh abrasive properties, a surface-active material capable of solubilizing alkali-earth metal compounds under detergent conditions and chosen from the group of compounds consisting of sulfonated and sulfated non-soap detergents, an emulsifying agent chosen from the group of compounds consisting of the salts of aliphatic acids containing from 7 to 22 carbon atoms with the alkali metals and the primary, secondary and tertiary hydroxyalkylamines in an amount sufficient to maintain the ingredients of the mixture in dispersed state, and water in an amount insufficient to dissolve all the trisodium phosphate in the mixture at room temperature but sufficient to impart to the mixture a pasty consistency.

2,421,704
FILTER PACK AND ITS MANUFACTURE

Walter Kasten, Franklin, Mich., assignor to Ralph L. Skinner, Detroit, Mich.

Application February 16, 1943, Serial No. 476,080

8 Claims. (Cl. 210—169)



1. In the method of making a hollow edge-filtration filter-unit, stable against the action of the fluid to be filtered thereby and of its one or more contaminants, including the known steps of helically-winding a ribbon with transverse rugosities into a hollow cylindrical body with the successive convolutions of the coiled ribbon in face-to-face contact with one another and with shallow spaces between said convolutions, and advancing said body longitudinally during the winding relatively to the unwound portion of the ribbon, the novel combination of features being the steps (*a*) of elongating the ribbon lengthwise prior to its winding by reducing the heights of its transverse rugosities from one edge of the ribbon inwardly in substantially uniformly increasing degree thereby curving the ribbon laterally, and, (*b*) while helically winding the elongated curved ribbon, maintaining its convolutions and the spaces between them at an oblique-angle to the axis of the body being formed, and with the other edge of the ribbon at such position that it is at the outer surface of the finished body.

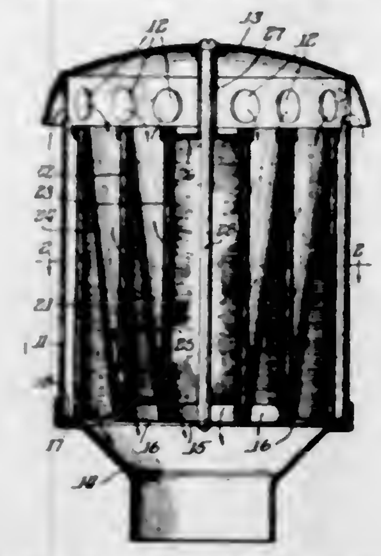
2,421.705
FILTER

Walter Kasten, Franklin, Mich., assignor to Ralph L. Skinner, Detroit, Mich.

Application February 16, 1943, Serial No. 476,081

4 Claims. (Cl. 183—73)

1. For use in a filter-housing between an inlet and an outlet thereof, a filter-member including the novel combination of a plurality of separate, independent, hollow, edge-filtration elements each having parallel filter-spaces therethrough at an oblique-angle to the axis of such element for the flow of the filtrate therethrough, said filter-elements being of different transverse sizes and located inside of, and in spaced-apart relation with, one another, and a closed partition-wall between, and attached fixedly to ends of, each two adjacent filter-elements, thereby blocking the passage between such filter-elements and forming a single unitary structure.



2,421,706
BASIC LEAD SALICYLATES AND PROCESS FOR PREPARING SAME

Leonard M. Kebrich, Brooklyn, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 15, 1946, Serial No. 654,801

10 Claims. (Cl. 260—435)

1. A process for preparing a basic lead salicylate selected from the group consisting of pentabasic lead salicylate, monobasic lead salicylate, and mixtures thereof, which comprises forming an aqueous slurry of lead monoxide, PbO, and while agitating the same, gradually adding thereto salicylic acid in an amount between about 20.6% and about 62.0% based upon the weight of PbO in said slurry.

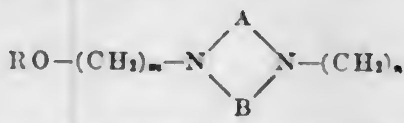
2,421,707
MONO-SUBSTITUTED DIALKANOL PIPERAZINES

John David Malkemus, Allendale, N. J.

No Drawing. Application December 29, 1945, Serial No. 638,471

15 Claims. (Cl. 260—268)

1. A piperazine derivative represented by the structural formula:



$$RO-(CH_2)_m-N\begin{matrix}A\\ \\ B\end{matrix}N-(CH_2)_n-OH$$

where R is a member of the group consisting of alkyl and acyl radicals having about five to about twenty-three carbon atoms; A and B are members of the group consisting of the ethylene radical and alkyl derivatives thereof wherein any number of hydrogens in the ethylene radical are replaced by alkyl radicals; and m and n are integers of 2 to about 5.

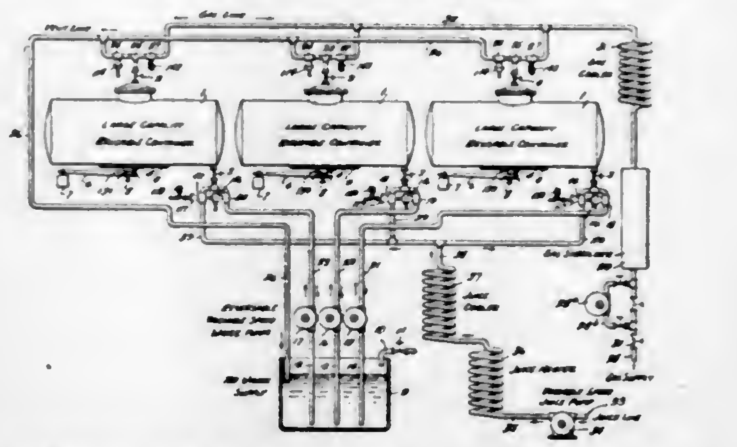
9. A process for preparing surface-active compositions which comprises heating a N,N′-dialkanol piperazine with a member of the group consisting of carboxylic acids and their lower alkyl esters wherein the carboxylic acid radical has about eight to about eighteen carbon atoms in the proportion of about 2 to about 5 mols of the dialkanol piperazine to 1 mol of the other reactant, removing unreacted dialkanol piperazine, and recovering a monoester of dialkanol piperazine.

2,421,708
APPARATUS FOR FILLING CONTAINERS

Ronald B. McKinnis, Winter Haven, Fla.

Application October 15, 1941, Serial No. 415,123

10 Claims. (Cl. 226—68)



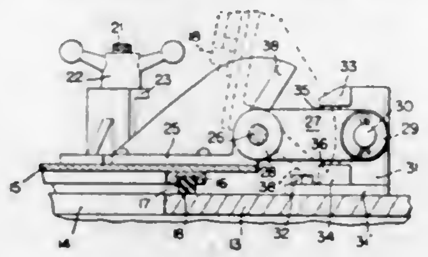
1. Apparatus for filling a container with a charging liquid comprising sources of a flushing liquid and the charging liquid, conduits respectively connecting said sources with the container, a pump associated with each conduit for effecting flow of liquid therethrough, a normally closed valve in each conduit, an actuator responsive to the application of fluid pressure thereto for opening the flushing valve, a second actuator for opening the charging valve, and means responsive to the pressure of fluid applied to the flushing valve actuator rendering the charging valve actuator inoperative to prevent opening of the charging valve while the flushing valve is open.

2,421,709
CENTRIFUGAL MACHINE

Edward L. Miller, Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware

Application April 28, 1944, Serial No. 533,115

6 Claims. (Cl. 210—63)



1. In a centrifugal extractor, in combination, a casing top having an opening therein, an external cover that is adapted to close said opening, a shaft on which the cover swings, means to clamp the cover when closed to the casing top, links pivoted to the casing top which support the shaft in a manner permitting movement normal to the casing top, stops carried by the casing top limiting the movement of a link to that required to allow the shaft to move far enough away from the casing to permit the cover to be swung around the shaft to open without dragging on the casing top.

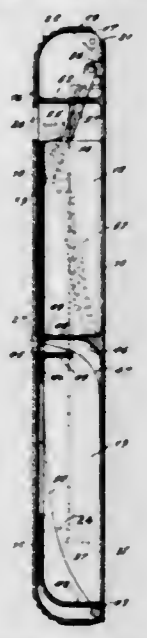
2,421,710
SUGGESTION CABINET

Le Roy G. Mills, Bronxville, N. Y.

Application December 21, 1944, Serial No. 569,238

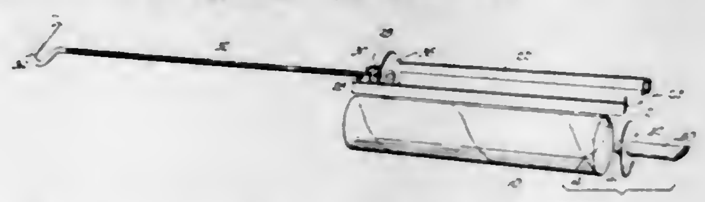
1 Claim. (Cl. 232—1)

A suggestions cabinet which comprises a base, a cover having a wall spaced from said base and having edge flanges extending to, and enclosing, the edge of said base, a partial receptacle forming element having side and bottom flanges extending to said base to form therewith a receptacle, a forward projection from said base into said element to divide it into an upper pocket and a lower receptacle, said element having a rearwardly extending ledge below said projection to form with said projection a passageway into said receptacle and said cover and element having aligned openings into said passageway, said cover having a slot above said edge of said element to provide an opening into said pocket.



2,421,711
EXTRUDING APPLICATOR FOR CALKING COMPOUND CARTRIDGES

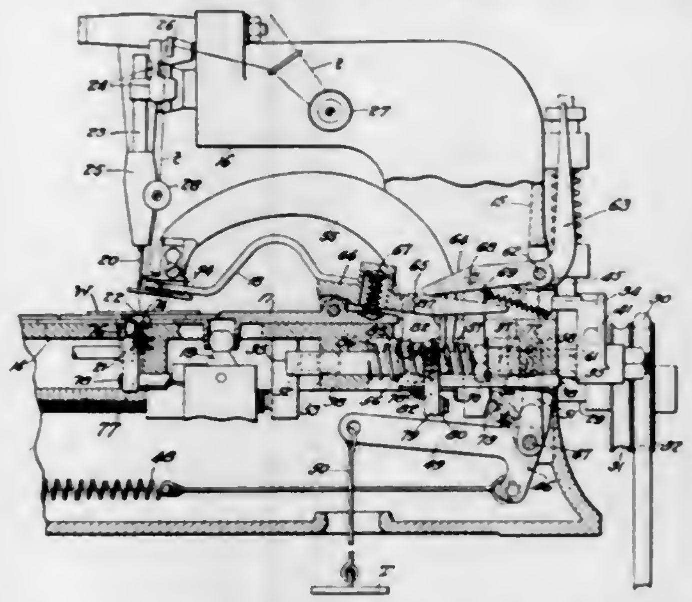
Clark Moots and Robert C. Hooker, Kansas City, Mo., assignors to Battenfeld Grease & Oil Corp., Kansas City, Mo., a corporation of Missouri
Application September 27, 1944, Serial No. 555,960
2 Claims. (Cl. 222—82)



1. An extruding applicator for caulking compound cartons having a fixed perforated end wall and an end wall movable upon application of pressure to force compound through the perforation of the fixed end wall, said applicator comprising a substantially U-shaped tie member having an offset portion at the bight thereof to present a pair of opposed shoulders, and having an opening therein through said offset portion; a manually operable, pressure exerting rod slidably mounted in said opening; a head on one end of said rod engageable with said movable end wall; a nut on the rod for driving the head into the carton upon rotation of said rod when the nut is between said shoulders; and a flanged nozzle fitted into the perforation of the fixed end wall, the free ends of the legs of said tie member being inturned, the carton being disposed between said inturned ends and the bight of said tie member, said ends holding the flanged portion of the nozzle against the fixed end of the carton when said head is against the movable end thereof, the legs of said tie member being longer than the carton to present a space between the bight of the member and the proximal end of the carton to permit access to the nut when the same is moved out of engagement with said shoulders by sliding the rod within said opening and toward said movable end of the carton.

2,421,712
BUTTONHOLE SEWING MACHINE

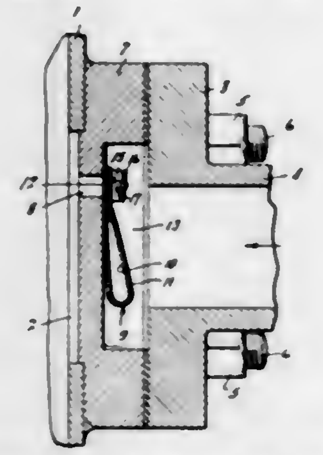
Walter E. Nichols, Milton, Mass., assignor to The Reece Corporation, a corporation of Maine
Application January 9, 1943, Serial No. 471,843
3 Claims. (Cl. 112—252)



1. In a straight-hole button-hole sewing machine having a single cycle of operation during which the sewing is done and the button-hole is cut and the thread is severed, in combination, a button-hole cutter, a work clamp, clamp raising means, a thread trimmer, means operative during the formation of the last stitch to depress the button-hole cutter to cut a slit in the work, means operative thereafter to retract said button-hole cutter, a releasable connection between said button-hole cutter and said work clamp raising means, means for releasing the connection when the machine is started, means for re-establishing the connection when the button-hole cutter is depressed, and means connecting the clamp raising means and the trimmer, said releasable connection after the button-hole cutter is depressed being operative during the rise of the cutter to transmit force derived from the cutter retracting means directly to the clamp raising means and acting through said last named means to move the trimmer to sever the thread.

2,421,713
THERMOSTATIC ORIFICE CONTROL

Roscoe C. Porter, Arlington, Va., assignor, by mesne assignments, to The Briggs Filtration Company, Bethesda, Md., a corporation of Maryland
Application September 30, 1942, Serial No. 460,261
4 Claims. (Cl. 138—46)

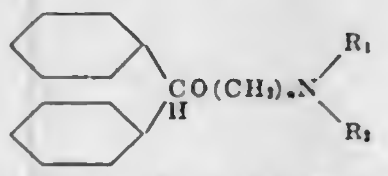


1. A temperature responsive orifice control comprising a bi-metallic strip having an opening in a portion thereof, said portion being displaceable upon deformation of the strip in response to temperature changes to and from positions to cover the orifice, and means positioned to enter and remove particles from the opening when the portion of the strip containing the same is moved away from said orifice.

2,421,714
DIALKYLAMINOALKYL BENZHYDRYL ETHERS AND SALTS THEREOF

George Rieveschl, Jr., Grosse Pointe Woods, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application April 18, 1944, Serial No. 531,639
11 Claims. (Cl. 260—570)

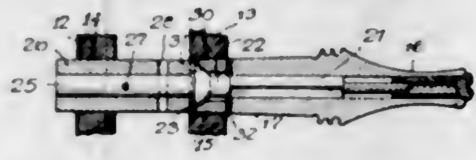
1. A compound of the class consisting of a free base and its salts, said free base having the formula



where n is an integer from 2 to 6 and R_1 and R_2 are each alkyl containing not more than four carbon atoms.

2,421,715
PEG FOR STRINGED INSTRUMENTS

Traugott Rohner, Evanston, Ill.
Application August 11, 1944, Serial No. 549,019
2 Claims. (Cl. 84—305)

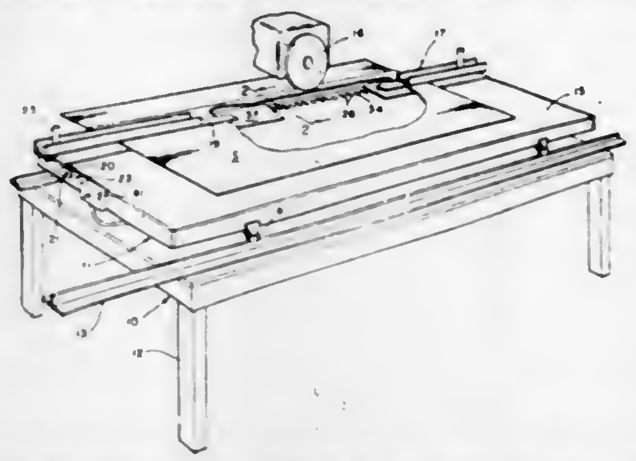


1. A tuning peg for stringed instruments, a bushing adapted to be fixed in one wall of a peg box, and having a conical integral surface, a finger piece having an inner shank arranged for endwise abutting engagement with the proximate end of said bushing, a rotatable peg member comprising a spindle having its outer end arranged for rotatable bearing engagement with the other wall of the peg box, said spindle being provided with an intermediate integral tapered portion affording frictional engagement with the conical surface of said bushing and also having a portion extending through said bushing into non-rotative but endwise sliding engagement in said shank, and a screw rotatably mounted in the outer end of said finger piece having threaded engagement with the outer end of said spindle to adjust the friction effective between said bushing and said rotatable peg member.

2,421,716
MACHINE WORKTABLE HAVING MAGNETIC CLAMP MEANS

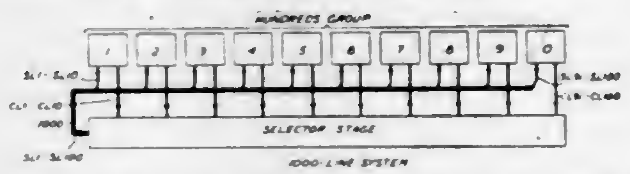
George W. Rose, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application February 8, 1944, Serial No. 521,530
4 Claims. (Cl. 219—4)

1. In a machine of the character described, a table supported for movement and adapted to carry a work piece, means for acting on the work piece along a given elongate zone thereof to move the table, and means for releasably clamping the workpiece to the table comprising hinge means carried by the table, a ferro magnetic clamp member attached to the table by said hinge means for engaging downwardly against the work piece adjacent and parallel to said zone thereof and electromagnetic means on the under side of the table for attracting the clamp member downwardly to clamp the work piece to the table.



2,421,717
AUTOMATIC TELEPHONE SYSTEM

Norman H. Saunders, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application April 28, 1943, Serial No. 484.886
22 Claims. (Cl. 179—18)



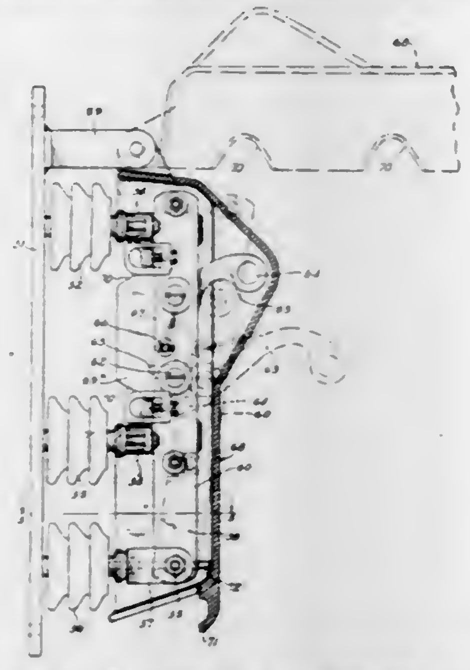
1. In a switching system, a group of lines having a group of primary switching devices associated therewith; a group of trunk lines having a group of secondary switching devices associated therewith; a group of line links interconnecting said primary switching devices with said secondary switching devices; said lines, said primary switching devices, and the primary end of said line links being divided into subgroups; the primary switching devices of any subgroup being effective to interconnect any line in such subgroup with any line link in the same subgroup; the secondary switching devices being effective to interconnect any line link with any trunk line; said lines having call numbers assigned respectively thereto; each such number including a subgroup digit indexing the subgroup containing the line to which it is assigned, and followed immediately by a line digit indexing the line in that subgroup; and means responsive to the calling of any one of said numbers for operating one of said secondary switching devices to connect one of said trunk lines to an idle line link extending to the indexed subgroup, and for operating a primary switching device therein to connect such line link to the indexed called line.

2,421,718
PROTECTIVE EQUIPMENT FOR CIRCUIT MAKERS AND BREAKERS

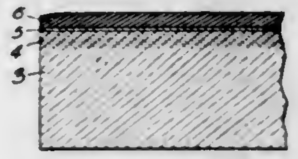
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application May 20, 1944, Serial No. 536,521
5 Claims. (Cl. 200—162)

1. In a circuit maker and breaker comprising a supporting structure including a pair of spaced insulators and a pair of fixed contacts individually carried by each of said insulators, said contacts normally bridged by a hinged conductive member,

a protective housing comprising a box-like cover of non-conductive material pivotally carried by said supporting structure, independent of said contacts and conductive member, said cover being recessed to receive said contacts and conductive member, whereby said recessed cover shelters said contacts and conductive member and shields them from accidental contact, the hinges of said member and cover being relatively positioned at opposite ends of said structure and affording movement of said member and cover to open positions in relatively opposite directions.

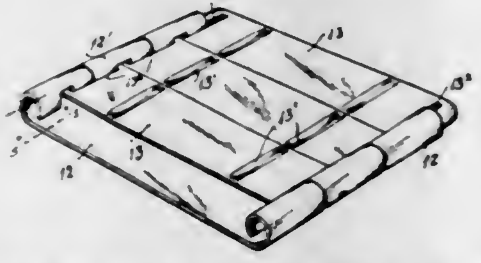


2,421,719
VITREOUS ENAMELLED ARTICLE
Glen R. Simmons, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 6, 1942, Serial No. 446,117
3 Claims. (Cl. 117—70)



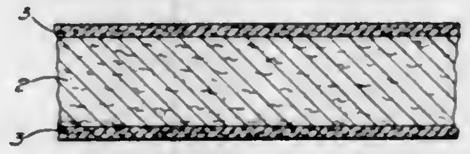
3. A method of making an enamelled article which comprises applying an aqueous solution of sodium silicate to a ferrous metal base having an aluminum coating, heating the article to a high temperature to alloy aluminum with the base material, form aluminum oxide and dehydrate the sodium silicate, coating the article with vitrifiable enamel, and then heating the article to a lower temperature to vitrify the enamel.

2,421,720
LINK BRACELET OR THE LIKE
Phillip S. Singer, Great Neck, N. Y.
Application May 11, 1946, Serial No. 669,146
4 Claims. (Cl. 59—80)



1. A linked bracelet or the like, the links of which each comprise an upper and lower member, each upper member being formed with hook end portions and each lower member having transversal slits at its ends, the hooked portions of each upper member being adapted to engage the slits of two adjacent lower members.

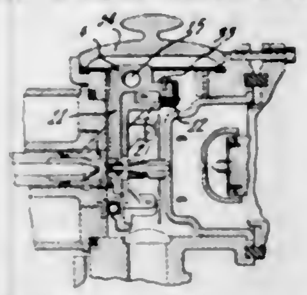
2,421,721
MOLDED FIBER-CEMENT COMPOSITION PRODUCT
Fred Wilson Smith, Cincinnati, Harold W. Greider, Wyoming, and Lloyd K. Becker, Cincinnati, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Application June 13, 1944, Serial No. 540,010
10 Claims. (Cl. 106—86)



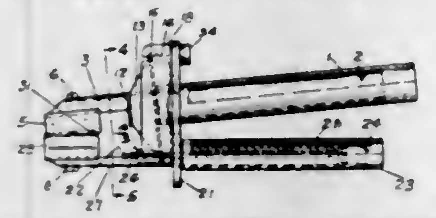
1. A molded composition product of hardened cementitious material having a density of the order of 10 to 33 lbs. per cubic foot and having a minimum modulus of rupture that varies proportionally between about 50 and about 150 lbs. per sq. inch for densities between 10 and 33 lbs. per cubic foot and characterized by its being formed of water-insoluble and heat-resistant solid materials consisting essentially of the following combination of bonding ingredients constituting from about 75% to 100% by weight of said solid materials and low bulk density filler constituting from about 25% to 0% by weight of said solid materials with the maximum content of said low bulk density filler ranging proportionally from about 10% to about 25% by weight of said solid materials for densities of the product ranging from 10 to 33, and said bonding ingredients comprising in combination lime-silica binder, Portland cement, reinforcing asbestos fiber, and montmorillonitic type clay, the weight ratio of the lime-silica binder to said cement being between about 1:1 and about 6:1, the weight ratio of the combined lime-silica binder and cement to said reinforcing asbestos fiber being between about 0.5:1 and about 8:1, the reinforcing asbestos fiber containing a minimum amount of asbestos fiber of the No. 3 classification or longer that is at least 10% by weight of the total solid materials, and the montmorillonitic type clay being present in an amount ranging from a minimum of about 2% to a maximum that varies from about 25% to about 10% by weight of the total solids in inverse proportion for densities ranging from 10 to 33 lbs. per cubic foot of the product.

2,421,722
SPECIMEN HOLDER ASSEMBLY
Perry C. Smith, Moorestown, Frank E. Runge, Haddon Heights, and Edmund G. Dornfeld, Audubon, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application December 30, 1944, Serial No. 570,660
7 Claims. (Cl. 250—49.5)

2. In an electron microscope of the type having a column with its axis alined with the electron beam of an electron gun, the combination of a stage having an opening arranged in coincidence with said axis, said stage having an arcuate groove therein, a specimen holder slidably mounted in said groove and normally positioning a specimen opposite said stage opening, said holder having a face complementally curved both to ride linearly in said groove and to turn angularly about its longitudinal axis, and yielding means for removably attaching one end of said holder to said stage.

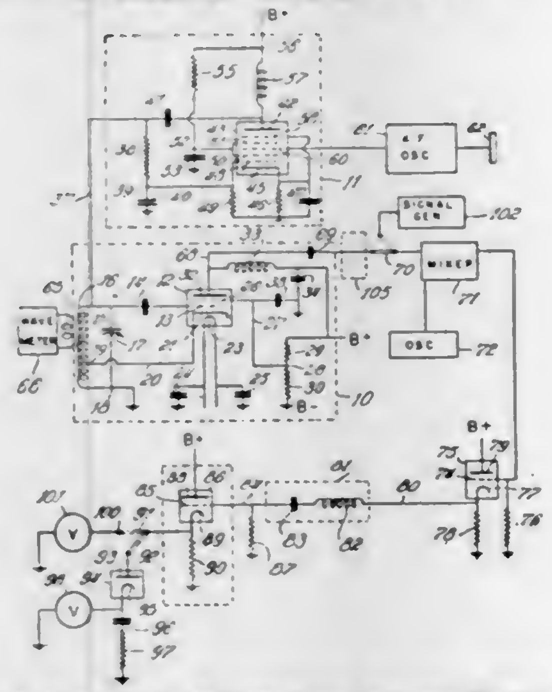


2,421,723
WELDING ELECTRODE HOLDER
Donald Trentham Smout and Donald Dupree Smout, Darlington, England
Application June 14, 1945, Serial No. 599,424
In Great Britain January 20, 1944
11 Claims. (Cl. 219—8)



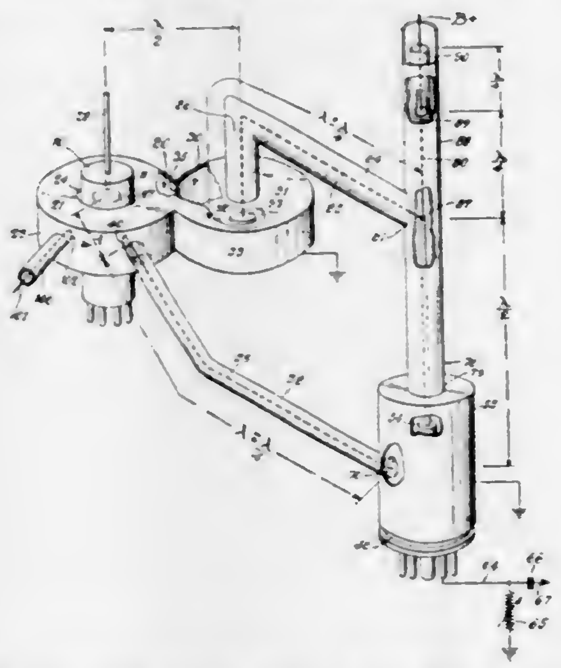
1. A holder for arc-welding electrodes, comprising a pair of metallic tubular members terminating in similarly formed ends with electrode-gripping contacts fastened to these ends, each tubular member having fastened thereto a support piece, one piece being pivotally mounted within and on the other, a bolt and cooperative spring carried in one of said tubular members and operatively connected to said pivoted piece, a guard member of insulating material fastened to the other of said pieces, and insulating tubes positioned over said metallic tubular members and extending at least up to the guard member.

2,421,724
METHOD AND MEANS FOR MEASURING POWER OUTPUT OF HIGH-FREQUENCY SIGNAL GENERATORS
William A. Stewart, Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation, a corporation of Pennsylvania
Application October 13, 1944, Serial No. 558,493
12 Claims. (Cl. 171—34)



1. A method of calibrating an oscillator which comprises feeding a known amount of power at a definite frequency, passing said frequency through a circuit sharply resonant thereo, obtaining a meter indication at the output of said resonant circuit as a standard reading, supplying an unknown amount of power at a variable frequency to said resonant circuit with the variable frequency including as a part thereof the frequency to which said circuit is resonant, determining the portion of unit time during which said unknown power is delivered at the frequency to which said circuit is resonant, measuring the power passed by said sharply critical circuit, and including the proportionality factor to determine the true power generated by the unknown source.

2,421,725
VARIABLE FREQUENCY CAVITY RESONATOR OSCILLATOR
William A. Stewart, Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application November 23, 1944, Serial No. 564,841
15 Claims. (Cl. 250—36)

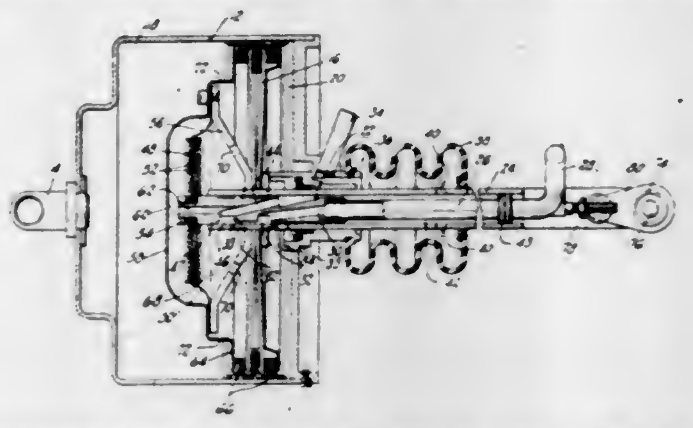


1. A variable ultra high frequency oscillating system comprising an element having one sharply resonant frequency peak, means for maintaining continuous oscillations in said element, a pair of transmission lines, means for coupling said lines to said element at points having a phase difference equivalent to an integral number of half wave lengths, said transmission lines each having an odd number of quarter wavelengths and differing in length by an odd number of half wave lengths, and an amplifier coupled to said two lines, said amplifier having an input and output connected respectively to said lines.

2,421,726
PRESSURE FLUID SERVOMOTOR
Thomas H. Thomas, South Bend, Ind.
Application November 21, 1945, Serial No. 629,956
3 Claims. (Cl. 121—41)

3. In a power device having a casing and a pressure responsive movable member therein dividing said casing into two chambers, manually operable valve means movable in one direction to cause a pressure differential over said pressure responsive movable member tending to move it in a given direction and movable in the other direction to cause a pressure differential over said pressure responsive movable member tending to move it in a direction opposite to said given

direction, and a smaller pressure responsive movable member mounted in the first pressure responsive movable member and connected to the manually operable valve means to exert a reactive force thereon, the second pressure responsive movable member being controlled by a constant unit pressure acting on one side and a variable unit pressure acting on the other side and corresponding to the unit pressure in one of the chambers of the power device.

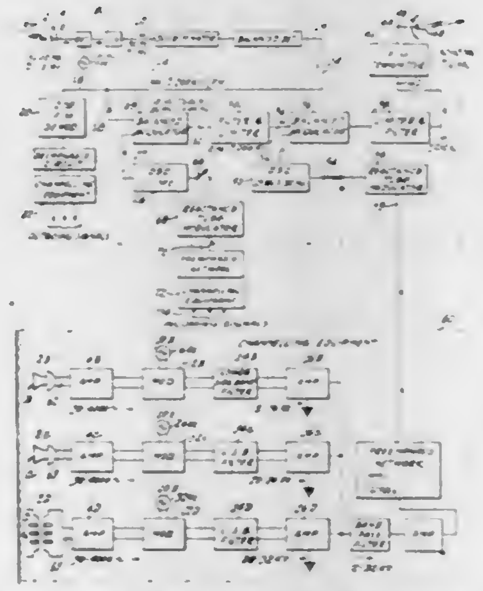


2,421,727
MULTIPLEX SYSTEM HAVING CHANNELS ADDED AT A RELAY STATION

Leland E. Thompson, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 9, 1945, Serial No. 587,250

20 Claims. (Cl. 179—15)



7. The method of relaying a signal carrying, doubly frequency modulated wave and adding one or more signal channels to the wave to be relayed which includes subjecting the doubly frequency modulated wave to a single frequency demodulation, heterodyning the waves derived from the frequency demodulation with a wave which has been frequency modulated with one or more signaling channels to be added, filtering the heterodyned waves, generating a high frequency carrier, and frequency modulating the high frequency carrier with the filtered waves.

2,421,728
HYDRAULIC BRAKE AND LIKE APPARATUS

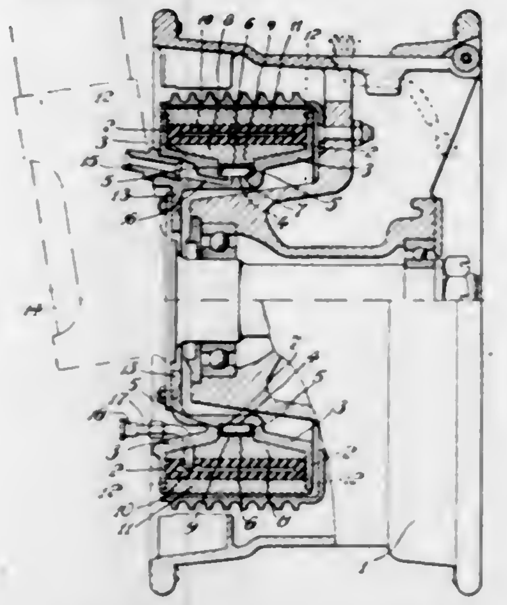
Henry Trevaskis, Birmingham, England, assignor to Dunlop Rubber Company Limited, London, England, a British company

Application January 4, 1946, Serial No. 638,938

In Great Britain February 6, 1945

9 Claims. (Cl. 188—152)

1. Brake apparatus for a vehicle wheel, comprising brake shoes movable towards the brake drum, an annular member for the location of the said brake shoes said member having a channelled recess in the centre thereof, an hydraulic packing located in the said channelled recess, a plurality of thrust members contiguous to the said hydraulic packing, and a distensible tube of resilient material having an inlet pipe said distensible tube being interposed between said thrust members and the said brake shoes.



2,421,729
PRODUCTION OF 3-ARYL-1,5-DIBROMPENTANE-3-CARBOXYLIC ACID

Eric Walton, Otford, and Maurice Berkeley Green, Crouch Hill, England, assignors to Burroughs Wellcome & Co. (U. S. A.) Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application April 14, 1944, Serial No. 531,122. In Great Britain May 20, 1943

2 Claims. (Cl. 260—515)

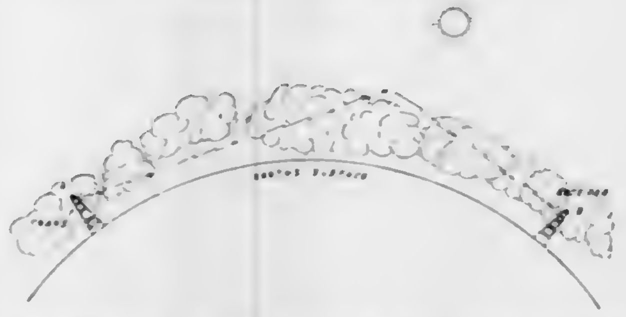
1. The process of forming a 3-aryl-1:5-dihalopentane-3-carboxylic acid which comprises reacting upon a 4-aryl-tetrahydropyrane-4-nitrile with a strong hydrohalogen acid.

2,421,730
WEATHER PREDICTION WITH ULTRA HIGH FREQUENCY RADIO WAVES

Gilbert S. Wickizer, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application March 20, 1944, Serial No. 527,165

1 Claim. (Cl. 73—170)



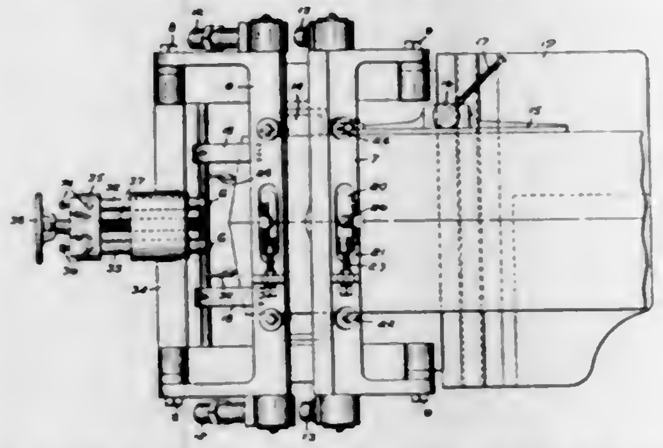
The method of predicting an improvement in the weather between a pair of spaced points located beyond the optical horizon from each other and between which there is a region of high humidity adjacent the earth, which comprises directively transmitting from one of said points toward the other a sharp beam of radio waves having a frequency higher than the order of 300 megacycles, making continuous observations of the intensity of the receiving signals, and determining from a sudden increase in the intensity of the signals at the receiving point that there will be an improvement in the weather within a short space of time after the receipt of said signals of increased intensity.

2,421,731
MACHINE FOR CUTTING SHOE SOLE TAPS

Parker Williams, Weston, Mass., assignor to Williams Cut Sole Co., Boston, Mass., a corporation of Massachusetts

Original application January 21, 1944, Serial No. 519,110. Divided and this application December 8, 1944, Serial No. 567,204

6 Claims. (Cl. 164—19)



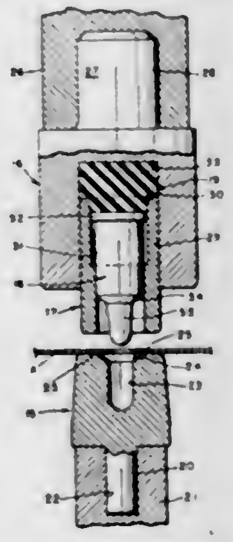
1. In a shoe tap cutting machine, the combination of a cutting block, means for guiding into cutting position across said block a strip of sole leather having a width equal to twice the over-all width of a pair of right and left taps positioned end to end, supports for two cutting knives, mechanism for moving said knives alternately to cut through said strip and against said block, and two knives mounted in said respective supports, one shaped to cut the forward edge of a sole leather section containing a right and a left tap disposed end to end and the other knife being shaped to cut the rear edge of said section, whereby a pair of said right and left taps will be severed from the strip at each cut after the first one.

2,421,732
TOOL FOR DIMPLING

Orrin W. Albert and David A. Webster, Burbank, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif., a corporation of California

Application November 19, 1943, Serial No. 510,978

6 Claims. (Cl. 153—21)



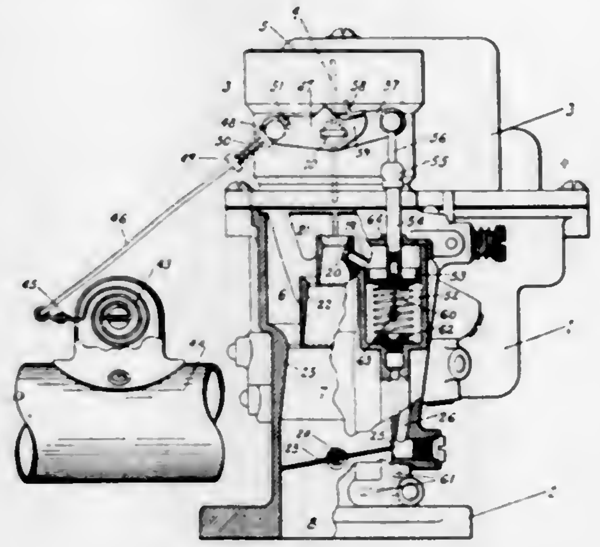
6. A dimpling tool for use with a die having an end surface adapted to engage a work piece comprising a holder, a sleeve movably carried by the holder and having a work engaging surface opposing said surface of the die, a body of flowable material between the holder and sleeve for transmitting movement from the holder to the sleeve, and a dimpling element movable in the sleeve and contacted by said flowable material to be actuated by pressure transmitted from the holder through said flowable material when movement of the sleeve is prevented by engagement of the sleeve with the work piece.

2,421,733
INTERNAL-COMBUSTION ENGINE

Otto Henning, St. Louis, Mo., assignor, by mesne assignments, to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application November 17, 1931, Serial No. 575,577

28 Claims. (Cl. 123—119)



1. In a carburetor for internal combustion engines, a downdraft air passage, a throttle valve at the lower end thereof, a choke valve at the upper end thereof, said choke valve comprising a suction operated portion and a solid portion, a shaft rigidly fixed to said solid portion, a piston connecting with said shaft, a cylinder for said piston, a connection for conveying suction to said cylinder from a point in said air passage below said throttle, and a heat responsive device constructed and arranged to act in opposition to the opening of the choke valve when the temperature is low.

2,421,734
TEXTILE SPINDLE

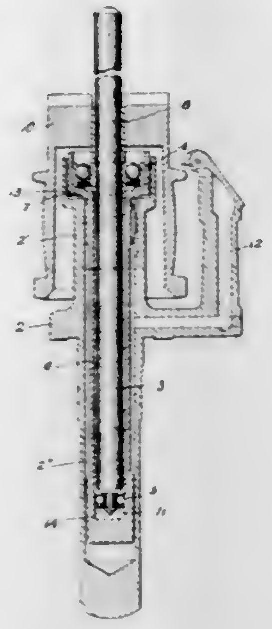
John A. Kennedy, Saco, Maine, assignor to Saco-Lowell Shops, Boston,, Mass., a corporation of Maine

Application October 24, 1944, Serial No. 560,118

5 Claims. (Cl. 308—228)

1. In a spindle for spinning and twister frames, the combination of a spindle base provided with an oil well extending downward therefrom, a bolster supported in said well for limited swinging movement, enabling it to adjust itself automatically to the running requirements of the blade and its load, bearings spaced widely apart axially of the blade and supporting it in said bolster for rapid rotation around its own axis, said bolster being oil-tight, means cooperating with said bearings to seal the lubricant for the bearings in the bearing structures themselves, whereby the entire portion of said blade between said bearings is maintained out of contact with the lubricating material, and a liquid in said well

serving to dampen the swinging movements of said bolster, said bearings connecting said bolster and said blade for limited swinging movement in unison.

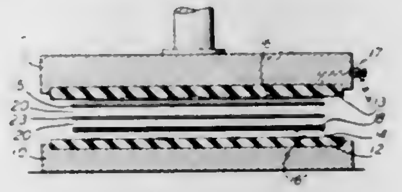


2,421,735
METHOD OF ELECTROLYTICALLY REPRODUCING PRINTS OR DESIGNS

Clarence O. Prest, Burbank, Calif.

Application December 22, 1941, Serial No. 423,997

5 Claims. (Cl. 204—18)



1. A method of reproducing a design which comprises forming a layer of insulation upon the surface of a first member of electrically conducting material which constitutes a cathode, removing portions of said insulation and thereby exposing the surface of said electrically conductive material in an outline corresponding to the form of said design, transferring said design to the surface of a second member by wetting said second member with a solution of an alkali metal salt of the group consisting of the nitrates, sulphates, and acetates of the alkali metal, said second member being of non-conductive, fibrous material and being pervious to said solution, pressing said second member containing said solution between the surface of said first member carrying the design and a third member constituting an anode and having a silver surface of contact with said second member, and passing an electric current through said second pervious member between said first and third members at the points where said insulating layer is removed from said first member.

2,421,736
DRESS CONSTRUCTION AND SHOULDER PAD THEREFOR

Frank Wein, New York, N. Y., assignor of one-half to I. Saul Klemes, Forest Hills, N. Y.

Application September 5, 1946, Serial No. 694,879

12 Claims. (Cl. 2—268)

1. In a dress, having attached thereto a shoulder pad comprising a fabric envelope and a padding filler comprising batting, a stay joined to said pad comprising a moldable strip which may be shaped by the fingers to a new contour lying across the same whereby the shoulder portion of the garment may be predeterminedly shaped and adjusted therefrom and set to new contours.

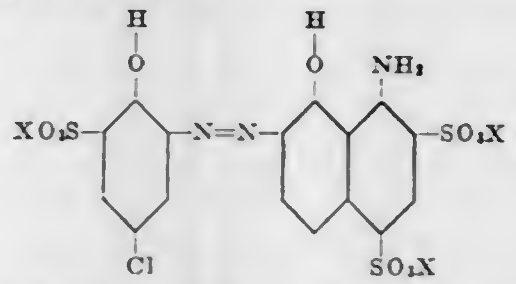
2,421,737
CHROME MONAZO COMPLEX

Byron L. West, Plainfield, and Charles Edward Lewis, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 16, 1943, Serial No. 491,050

1 Claim. (Cl. 260—151)

Chromium complex of an azo dye having the following formula:



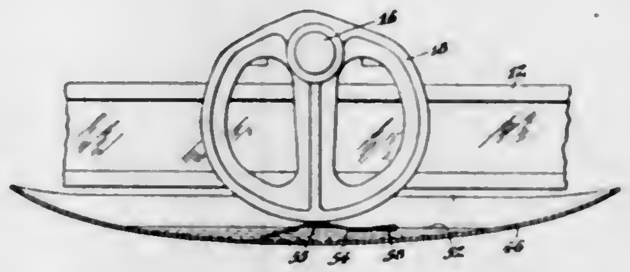
in which X is a member of the group consisting of hydrogen and metals.

2,421,738
LUBRICATING DEVICE

Le Roy White, Shillington, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Application December 24, 1943, Serial No. 515,621

1 Claim. (Cl. 184—14)



The combination with a coulier cam of a flat knitting machine mounted to revolve above and out of contact with the surface of an oil pool in a container, of lubricating means for said cam comprising a resilient strip mounted below and generally in the plane of said cam, said strip supported at one end, biased toward a position generally above the oil, and having a bend therein intermediate its ends and tapering from said bend toward its free end, said bend cooperating with said cam during a portion of its revolution to force said free end beneath the oil, the strip when in normal raised position having a wiping contact with a portion of the surface of the cam to transfer oil thereto, and the width of the tapered portion of said strip being proportioned relatively to the throw and width of the cam so as to supply sufficient oil to the cam.

DESIGNS

JUNE 3, 1947

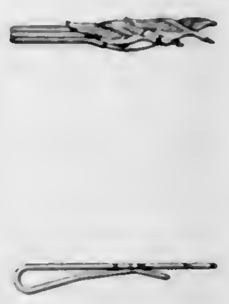
146,842
DESIGN FOR A TIE HOLDER

Olof V. Anderson, Cowesett, R. I.

Application June 29, 1946, Serial No. 131,186

Term of patent 3½ years

(Cl. D17—10)



The ornamental design for a tie holder, substantially as shown.

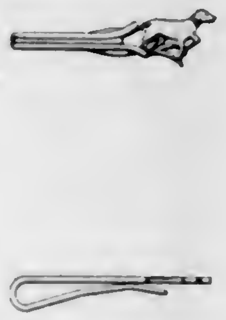
146,843
DESIGN FOR A TIE HOLDER

Olof V. Anderson, Cowesett, R. I.

Application June 29, 1946, Serial No. 131,187

Term of patent 3½ years

(Cl. D17—10)



The ornamental design for a tie holder, substantially as shown.

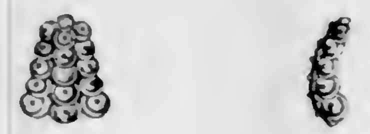
146,844
DESIGN FOR A JEWELRY FINDING

Claude Arpels, New York, N. Y.

Application April 5, 1946, Serial No. 128,323

Term of patent 3½ years

(Cl. D45—1)



The ornamental design for a jewelry finding, substantially as shown.

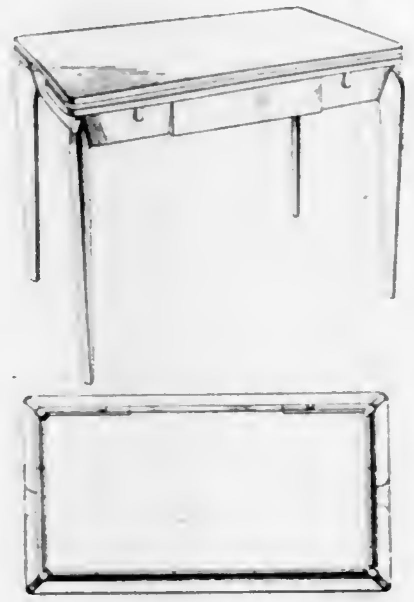
146,845
DESIGN FOR A KITCHEN TABLE

Alfons Bach, Stamford, Conn., assignor to National Manufacturing Corporation, New York, N. Y., a corporation of Connecticut

Application February 7, 1946, Serial No. 126,364

Term of patent 14 years

(Cl. D33—14)



The ornamental design for a kitchen table, substantially as shown.

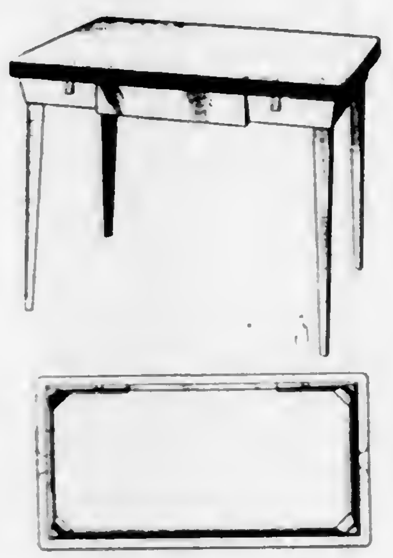
146,846
DESIGN FOR A KITCHEN TABLE

Alfons Bach, Stamford, Conn., assignor to National Manufacturing Corporation, New York, N. Y., a corporation of Connecticut

Application February 7, 1946, Serial No. 126,365

Term of patent 14 years

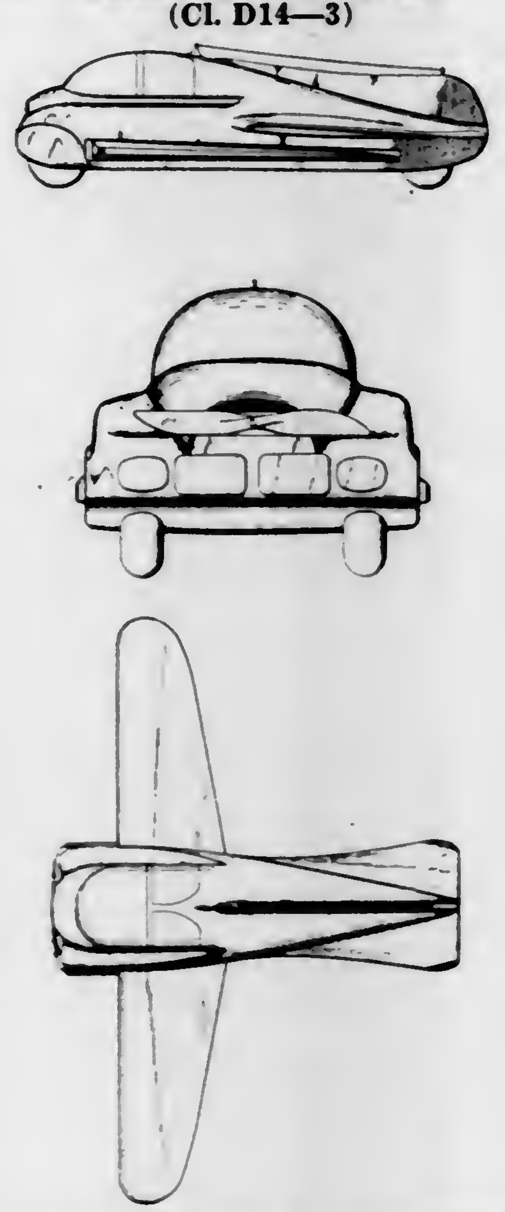
(Cl. D33—14)



The ornamental design for a kitchen table, substantially as shown.

146,847
DESIGN FOR A COMBINATION AUTOMOBILE AND AIRPLANE

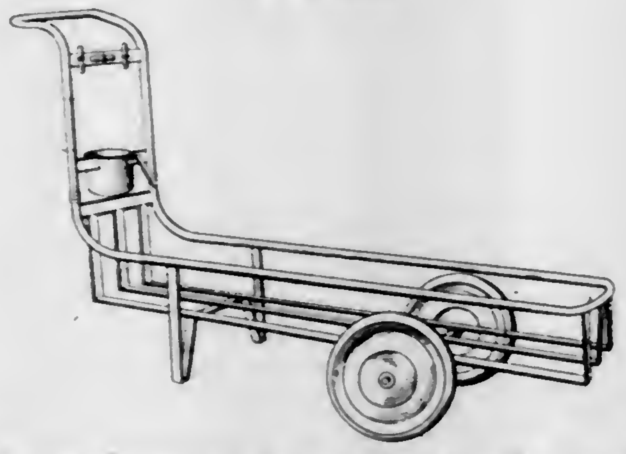
Aaron Braeman, Minneapolis, Minn.
Application August 2, 1945, Serial No. 121,183
Term of patent 7 years
(Cl. D14—3)



The ornamental design for a combination automobile and airplane, as shown.

146,848
DESIGN FOR A MILK TRUCK OR SIMILAR ARTICLE

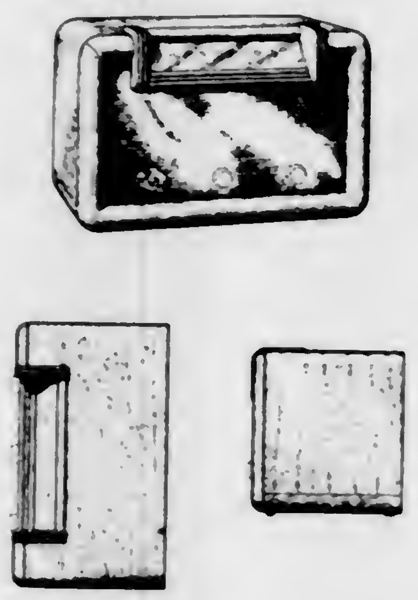
Obert H. Brickson, Madison, Wis., assignor of one-third to G. F. Albrecht, one-third to P. K. Albrecht, and one-third to A. A. Kreutzer, all of Madison, Wis.
Application April 3, 1945, Serial No. 118,846
Term of patent 7 years
(Cl. D14—3)



The ornamental design for a milk truck or similar article, as shown.

146,849
DESIGN FOR A RADIO CABINET OR THE LIKE

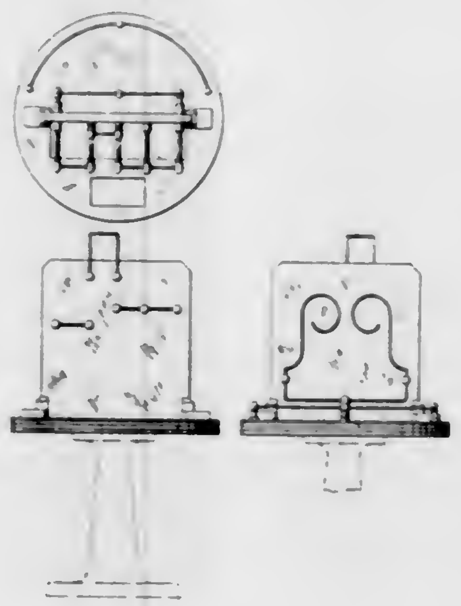
Frank C. Burton, Grand Rapids, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 29, 1946, Serial No. 128,090
Term of patent 3½ years
(Cl. D56—4)



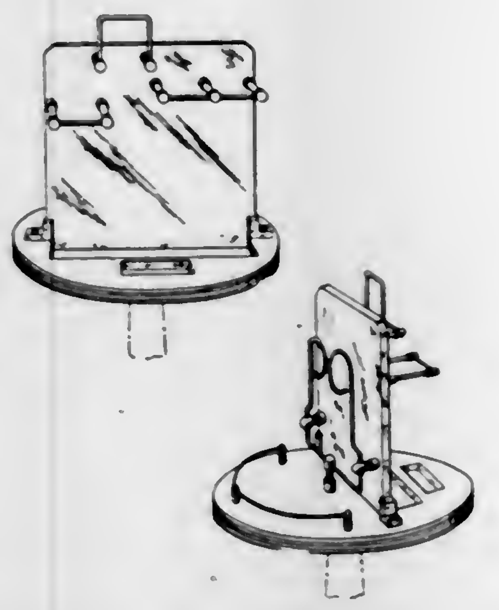
The ornamental design for a radio cabinet or the like, as shown and described.

146,850
DESIGN FOR A TABLE CASTER

Louis Chazin, Brooklyn, N. Y.
Application October 29, 1945, Serial No. 123,279
Term of patent 7 years
(Cl. D44—24)



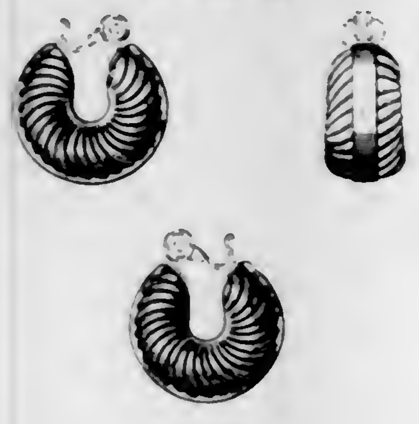
146,850—Continued



The ornamental design for a table caster, substantially as shown and described.

146,851
DESIGN FOR AN EARRING OR SIMILAR ARTICLE

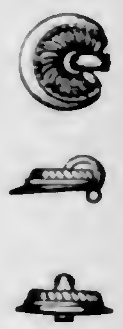
Michael Chernow, New York, N. Y.
Application May 24, 1946, Serial No. 130,051
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown and described.

146,852
DESIGN FOR A JEWELRY FINDING

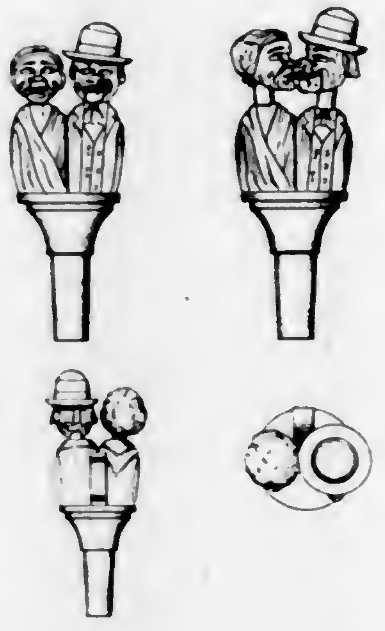
Michael Chernow, New York, N. Y.
Application May 24, 1946, Serial No. 130,053
Term of patent 7 years
(Cl. D45—1)



The ornamental design for a jewelry finding, substantially as shown and described.

146,853
DESIGN FOR A BOTTLE STOPPER

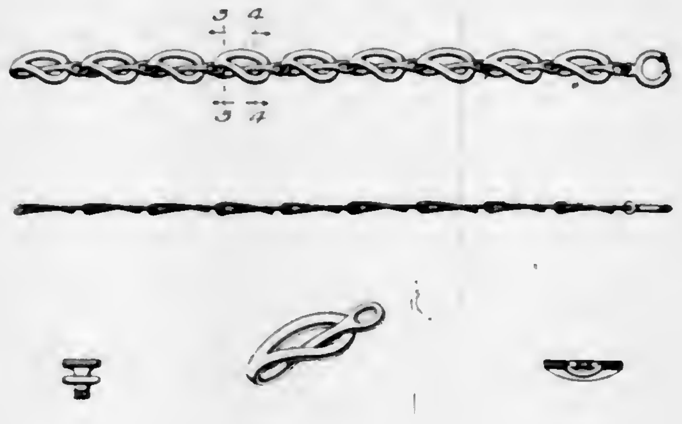
Sydney Farbstein, Union, N. J.
Application March 5, 1946, Serial No. 127,106
Term of patent 7 years
(Cl. D58—10)



The ornamental design for a bottle stopper, substantially as shown.

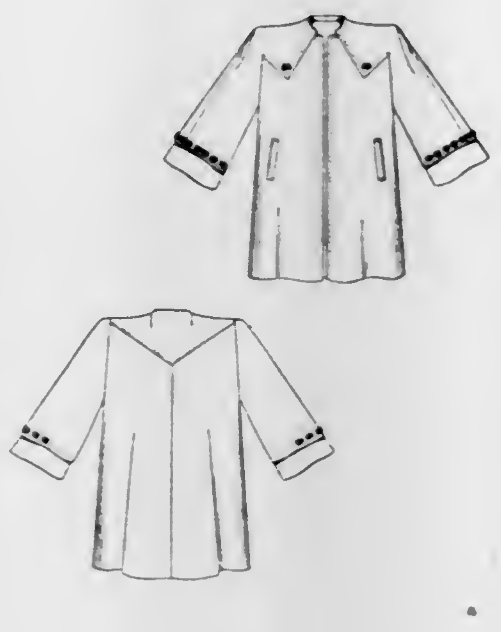
146,854
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE

George E. Fournier, Pawtucket, R. I.
Application May 16, 1946, Serial No. 129,737
Term of patent 14 years
(Cl. D45—4)



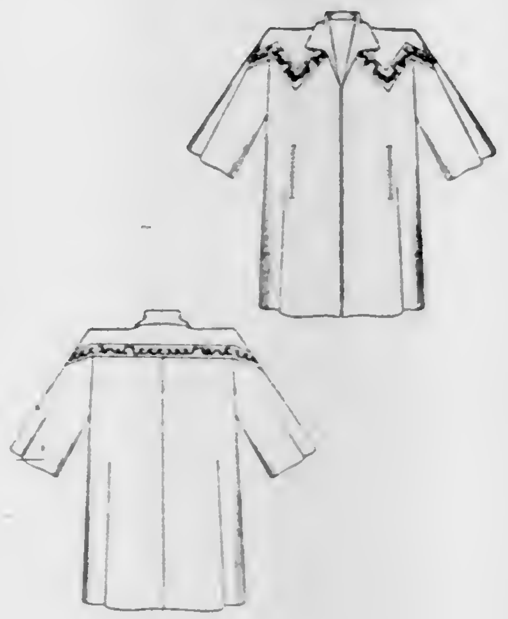
The ornamental design for a link chain for a bracelet or similar article, as shown.

146,855
DESIGN FOR A COAT
Mario Frascino, New York, N. Y.
Application November 13, 1946, Serial No. 134,763
Term of patent 3½ years
(Cl. D3—4)



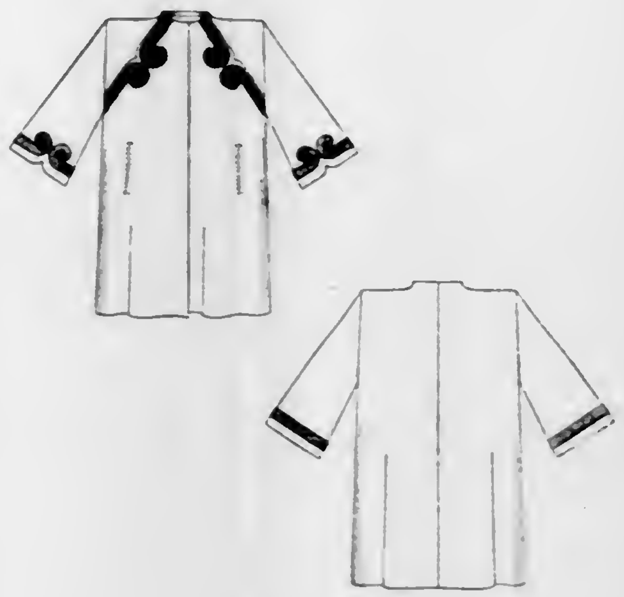
The ornamental design for a coat, substantially as shown.

146,856
DESIGN FOR A COAT
Jules Freedman, New York, N. Y.
Application December 5, 1946, Serial No. 135,294
Term of patent 3½ years
(Cl. D3—4)



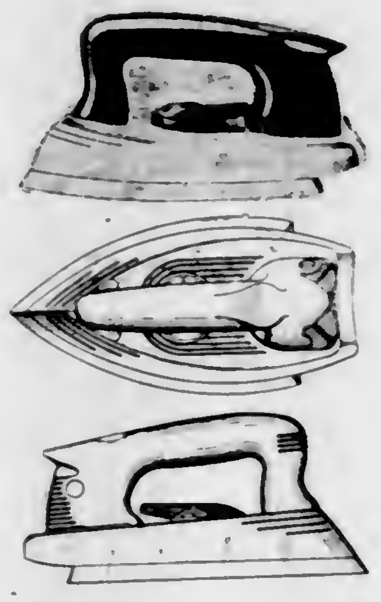
The ornamental design for a coat, substantially as shown.

146,857
DESIGN FOR A COAT
Irving Goldstein, New York, N. Y.
Application December 5, 1946, Serial No. 135,288
Term of patent 3½ years
(Cl. D3—4)



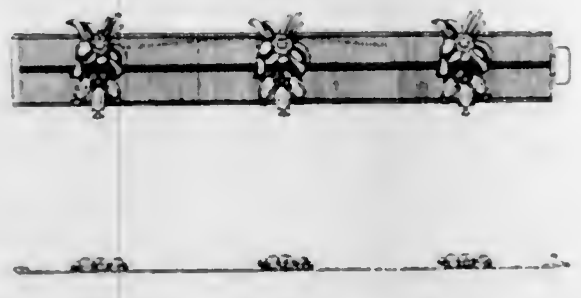
The ornamental design for a coat, substantially as shown.

146,858
DESIGN FOR AN ELECTRIC IRON
Clarence Karstadt, Glen Ellyn, Ill., assignor to Noblitt-Sparks Industries, Incorporated, Columbus, Ind., a corporation of Indiana
Application October 29, 1945, Serial No. 123,266
Term of patent 7 years
(Cl. D49—6)



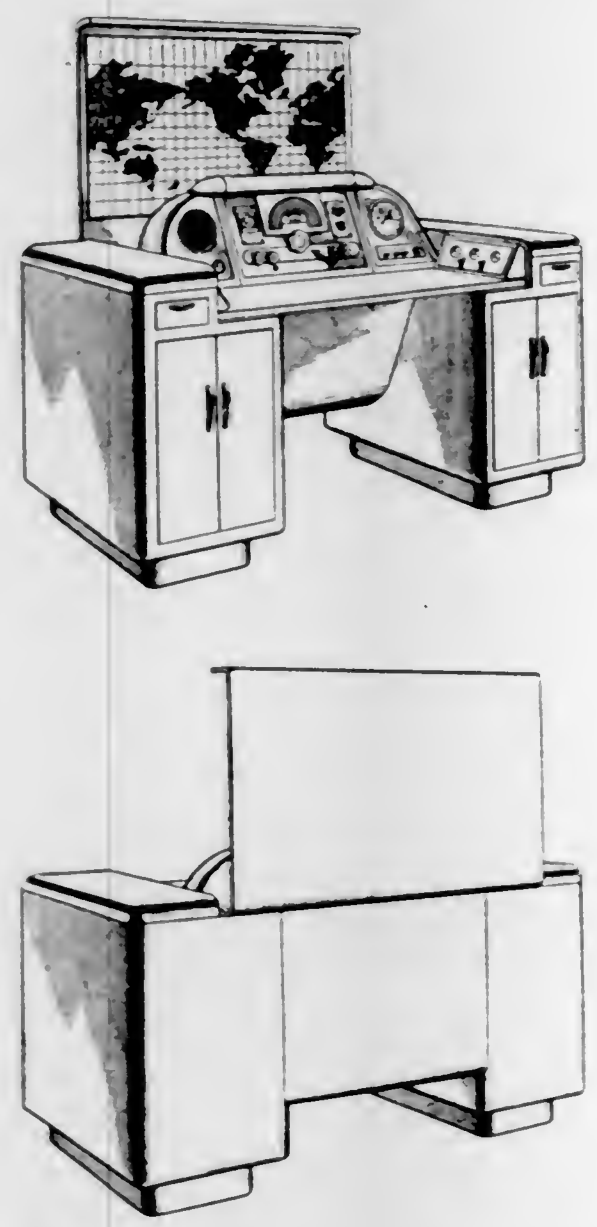
The ornamental design for an electric iron, as shown.

146,859
DESIGN FOR A BRACELET
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 13, 1946, Serial No. 127,466
Term of patent 7 years
(Cl. D45—4)



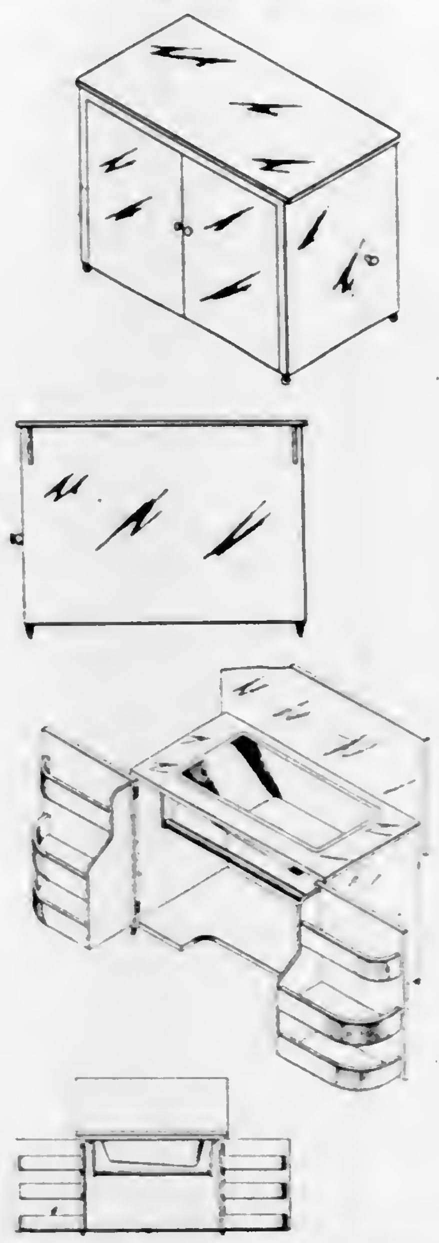
The ornamental design for a bracelet, substantially as shown.

146,860
DESIGN FOR A RADIO TRANSMITTER CABINET
Myron E. Kluge, Los Angeles, Calif.
Application March 21, 1946, Serial No. 127,761
Term of patent 3½ years
(Cl. D56—4)



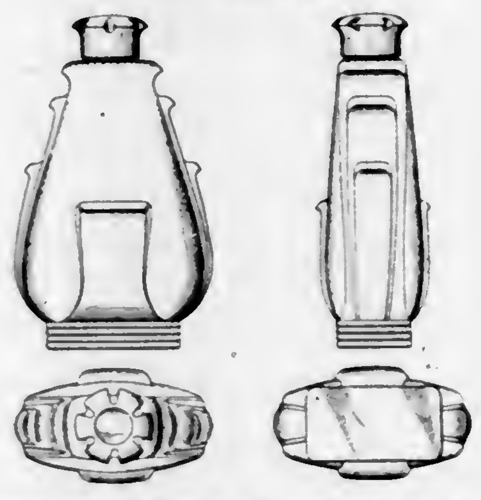
The ornamental design for a radio transmitter cabinet, as shown.

146,861
DESIGN FOR A COMBINED INFANT WARDROBE AND BATH UNIT
Lena B. Kneeland, Kenmore, N. Y.
Application July 27, 1945, Serial No. 121,013
Term of patent 14 years
(Cl. D4—4)



The ornamental design for a combined infant wardrobe and bath unit, as shown.

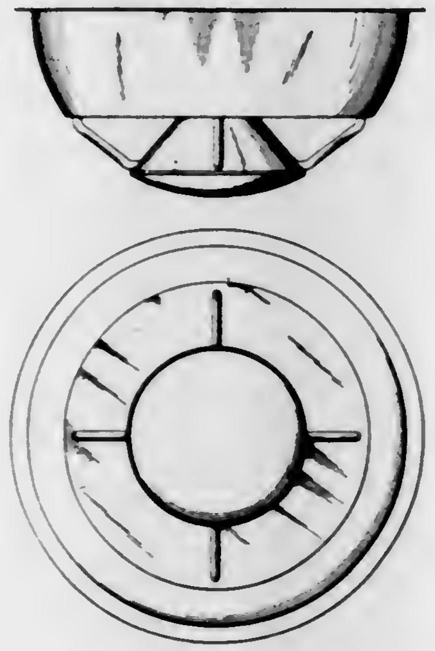
146,862
DESIGN FOR A BOTTLE
Benjamin Lewis, New York, N. Y., assignor to Lionel Rothchild, Dallas, Tex.
Application December 14, 1945, Serial No. 124,735
Term of patent 14 years
(Cl. D58—9)



The ornamental design for a bottle, as shown.

146,863
DESIGN FOR A SPEAKER HOUSING

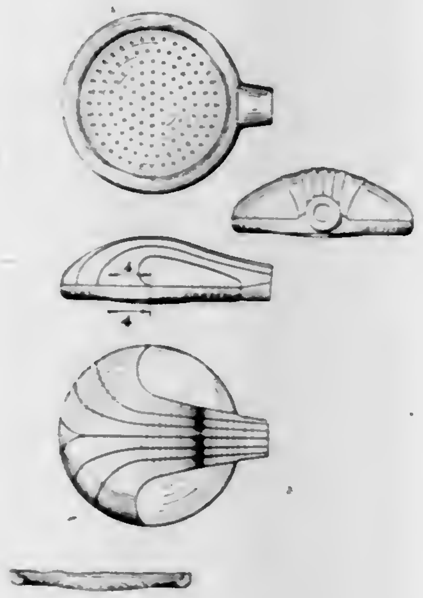
Benjamin W. Lowell, Jr., Richmond Heights, Mo.
Application December 29, 1945, Serial No. 125,211
Term of patent 14 years
(Cl. D26—14)



The ornamental design for a speaker housing, substantially as shown.

146,864
DESIGN FOR A BATH SPRAY HEAD

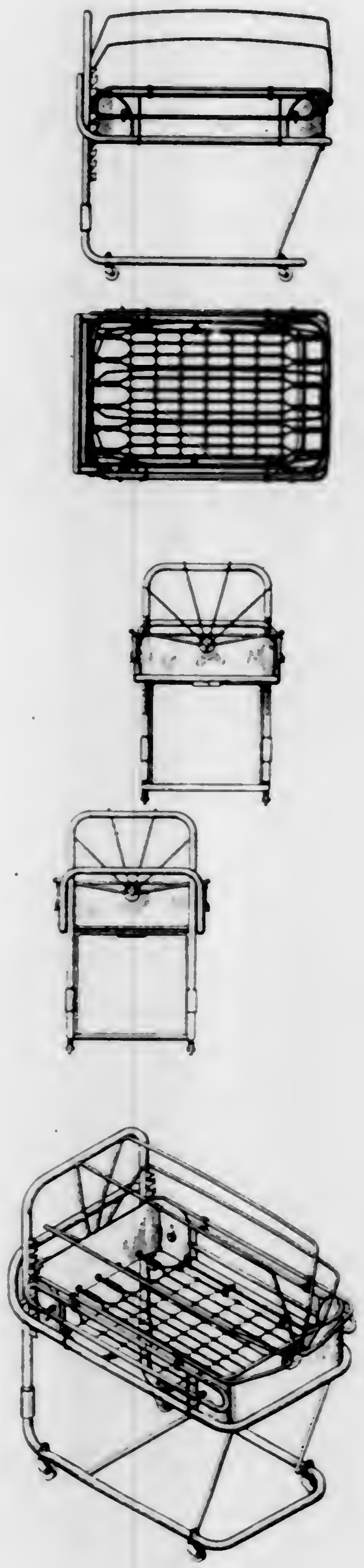
Charles T. Manville, Woodbury, and Paul S. Madsen, Bethany, Conn., assignors to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application February 21, 1946, Serial No. 126,822
Term of patent 14 years
(Cl. D91—1)



The ornamental design for a bath spray head, substantially as shown.

146,865
DESIGN FOR A BASSINET

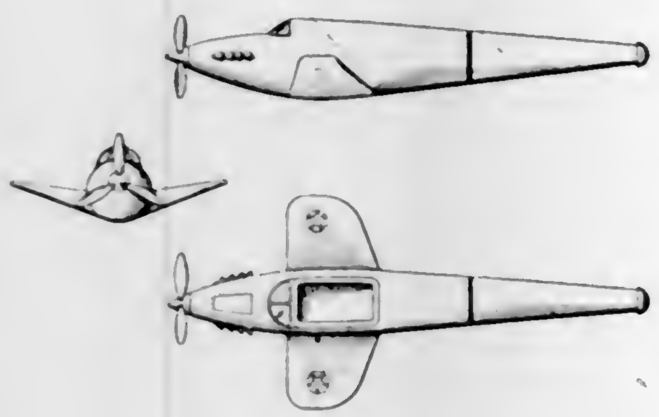
William Maxwell, Hawthorne, Calif., assignor of one-half to Robert L. Hankins
Application February 1, 1946, Serial No. 126,155
Term of patent 14 years
(Cl. D5—5)



The ornamental design for a bassinet, as shown.

146,866
DESIGN FOR A SMOKING PIPE

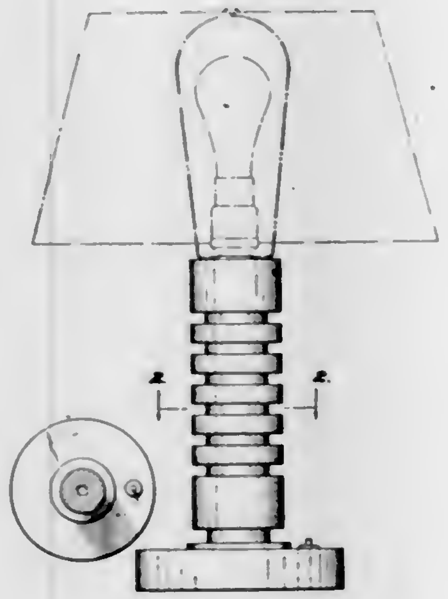
Adrien R. Mellor, Loma Linda, Calif.
Application March 30, 1945, Serial No. 118,788
Term of patent 14 years
(Cl. D85—8)



The ornamental design for a smoking pipe, as shown.

146,867
DESIGN FOR A LAMP OR SIMILAR ARTICLE

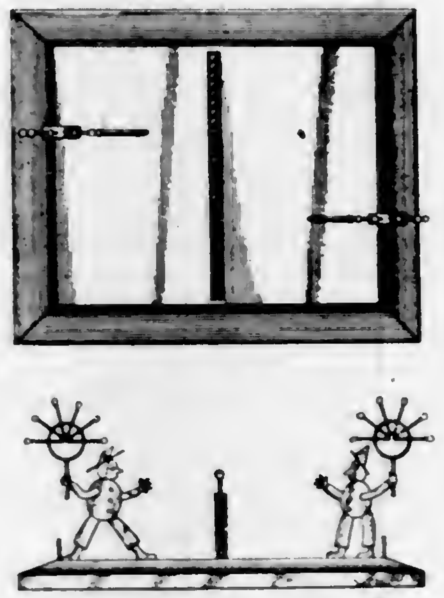
Arthur G. Miller, Long Beach, Calif., assignor of one-third to Delbert D. Grant and one-third to Johnnie W. Miller, both of Long Beach, Calif.
Application November 7, 1945, Serial No. 123,532
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for a lamp or similar article, as shown and described.

146,868
DESIGN FOR A HOLDER FOR WOOD MATCHES

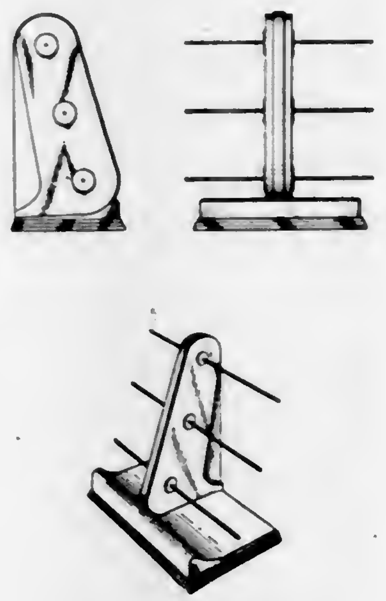
Francis J. Murphy, Syracuse, N. Y.
Application October 8, 1945, Serial No. 122,622
Term of patent 3½ years
(Cl. D48—28)



The ornamental design for a holder for wood matches, as shown and described.

146,869
DESIGN FOR A SPOOL DISPLAY RACK OR SIMILAR ARTICLE

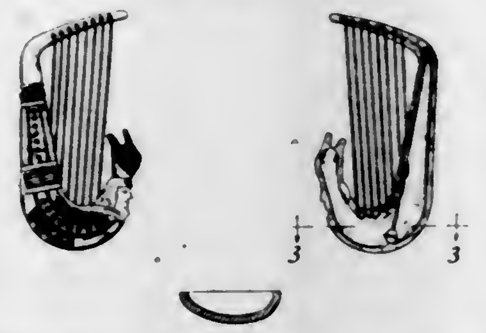
Clarence S. Olsen, Chicago, Ill., assignor to Chicago Printed String Co., Chicago, Ill., a copartnership
Application December 6, 1945, Serial No. 124,403
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a spool display rack or similar article, substantially as shown.

146,870
DESIGN FOR A PIN OR SIMILAR ARTICLE

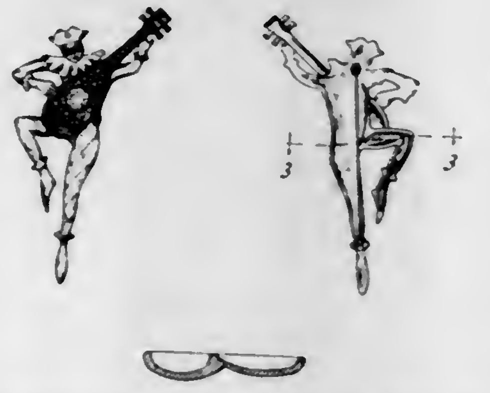
Morris Paschman, New York, N. Y.
Application June 19, 1946, Serial No. 130,855
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

146,871
DESIGN FOR A PIN OR SIMILAR ARTICLE

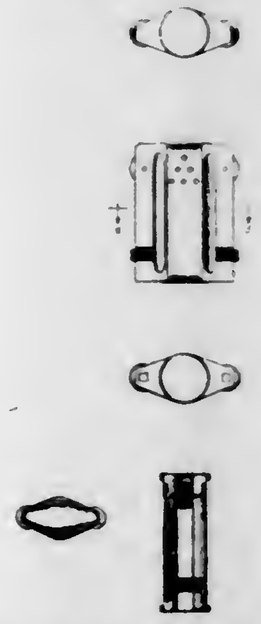
Morris Paschman, New York, N. Y.
Application June 19, 1946, Serial No. 130,856
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

146,872
DESIGN FOR A CIGAR AND CIGARETTE LIGHTER

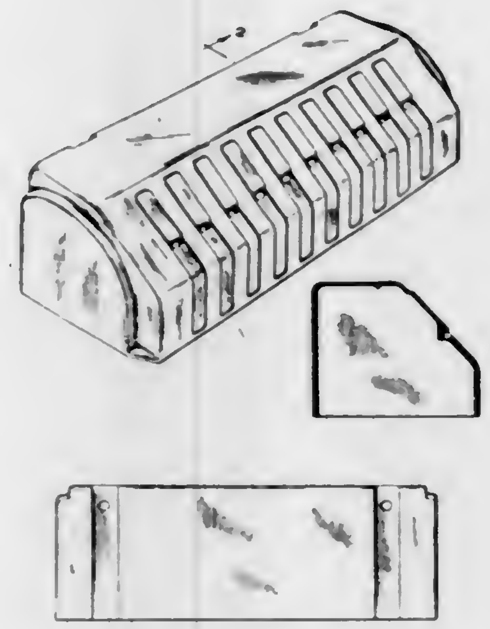
Edward W. Rector, Melrose Park, Ill.
Application December 22, 1945, Serial No. 125,001
Term of patent 7 years
(Cl. D48—27)



The ornamental design for a cigar and cigarette lighter, substantially as shown.

146,873
DESIGN FOR A LAMP SHADE OR SIMILAR ARTICLE

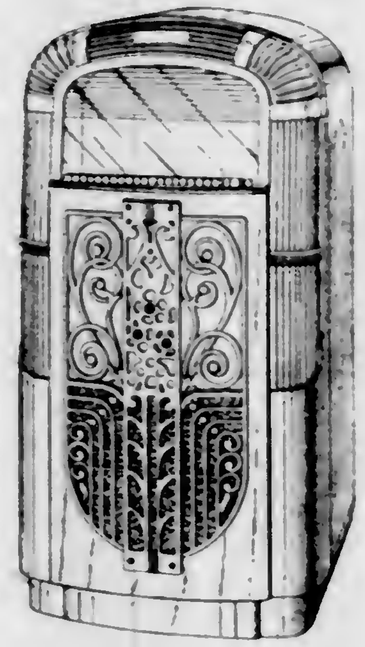
Arthur Rigolo, Clifton, N. J., assignor to Natalie Lampshades Co., Paterson, N. J., a firm
Application March 28, 1946, Serial No. 128,019
Term of patent 7 years
(Cl. D48—16)



The ornamental design for a lamp shade or similar article, as shown.

146,874
DESIGN FOR A PHONOGRAPH CABINET

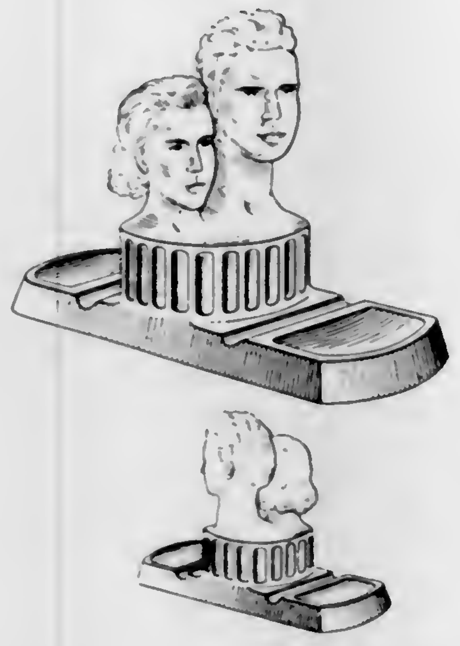
David C. Rockola, Chicago, Ill., assignor, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application November 13, 1945, Serial No. 123,705
Term of patent 14 years
(Cl. D56—4)



The ornamental design for a phonograph cabinet, substantially as shown and described.

146,875
DESIGN FOR A COMBINATION PEN RACK AND DESK UNIT

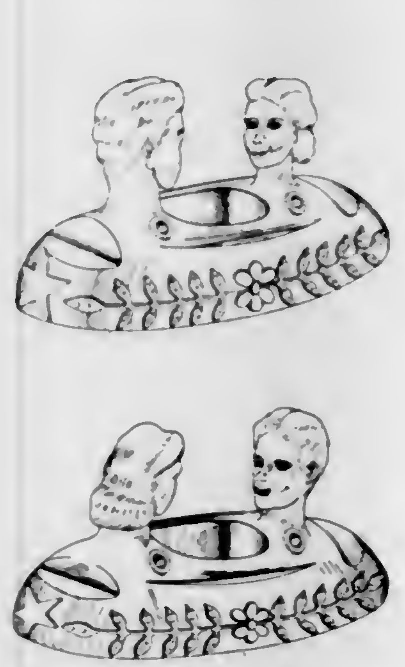
Paul Rossi, Warren, Ohio
Application July 9, 1946, Serial No. 131,425
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a combination pen rack and desk unit, as shown and described.

146,876
DESIGN FOR A COMBINATION PEN RACK AND DESK UNIT

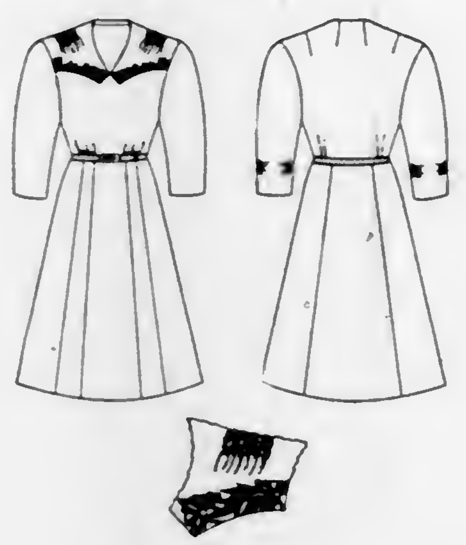
Paul Rossi, Warren, Ohio
Application February 10, 1947, Serial No. 136,809
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a combination pen rack and desk unit, as shown.

146,877
DESIGN FOR A DRESS

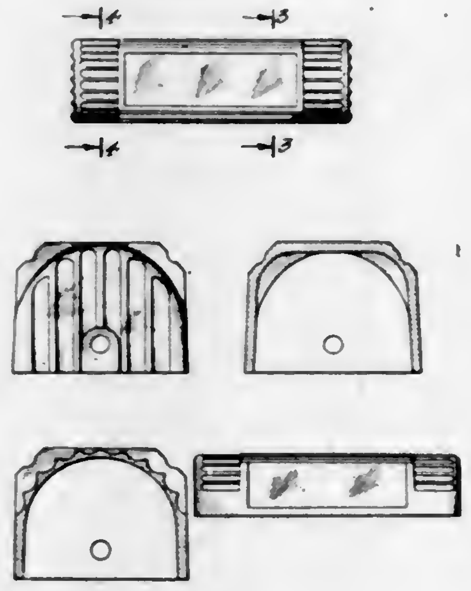
Katheryn Rost, New York, N. Y.
Application October 18, 1946, Serial No. 134,050
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

146,878
DESIGN FOR A LAMP GLOBE

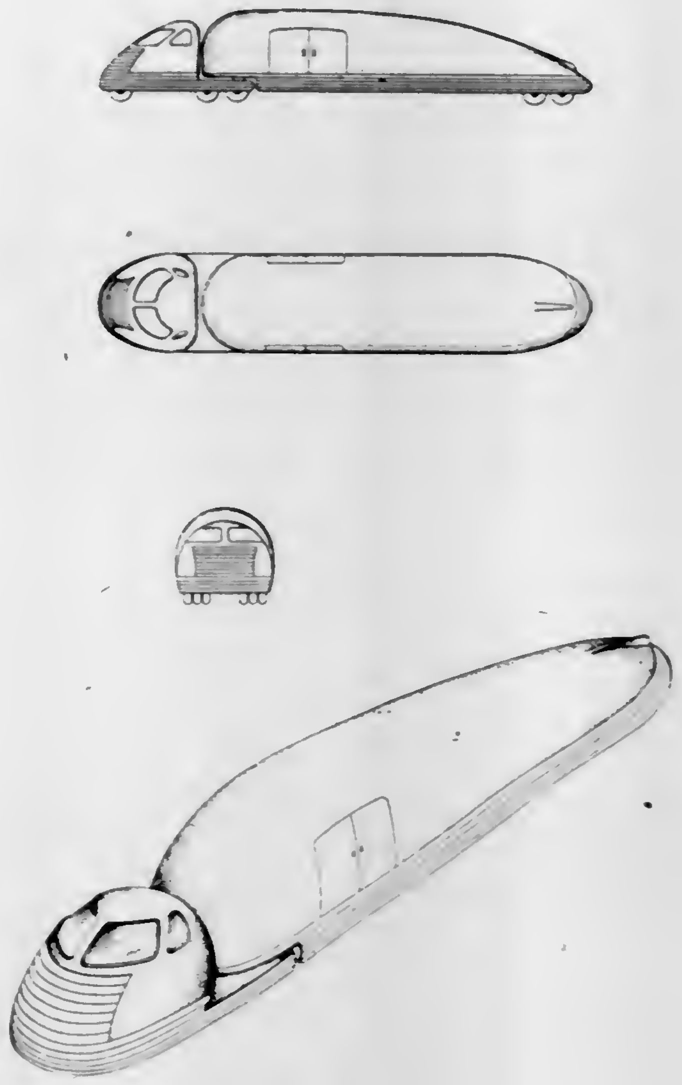
James V. Schraig, Central Valley, N. Y.
Application March 9, 1946, Serial No. 127,314
Term of patent 7 years
(Cl. D48—16)



The ornamental design for a lamp globe, as shown.

146,879
DESIGN FOR A ROAD VEHICLE

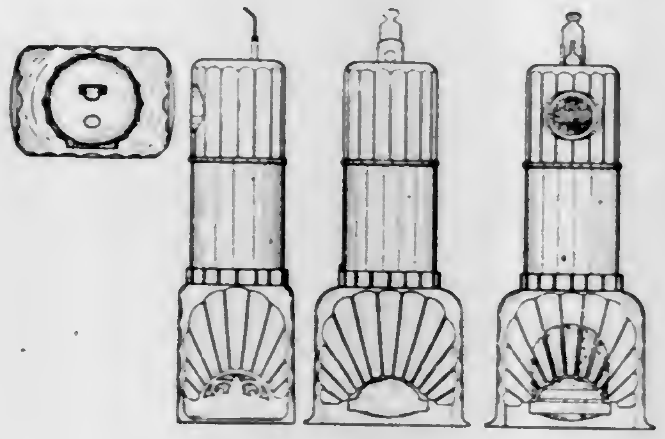
Theodore W. Sebern, Burbank, Calif.
Application February 26, 1945, Serial No. 118,149
Term of patent 7 years
(Cl. D14—3)



The ornamental design for road vehicle, as shown.

146,880
DESIGN FOR A MUSIC BOX

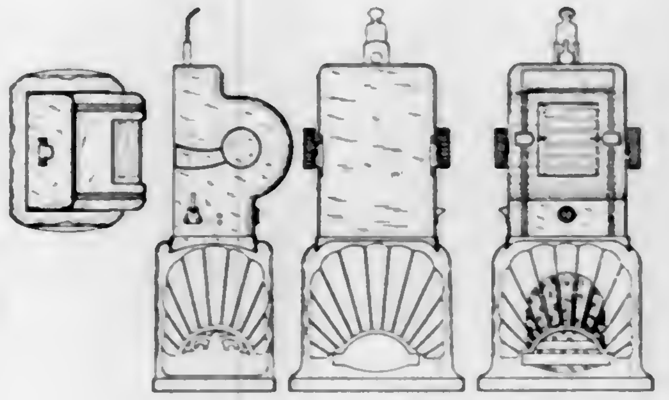
Kenneth C. Shyvers, Seattle, Wash.
Application February 8, 1946, Serial No. 126,380
Term of patent 14 years
(Cl. D56—4)



The ornamental design for a music box, as shown.

146,881
DESIGN FOR A MUSIC BOX

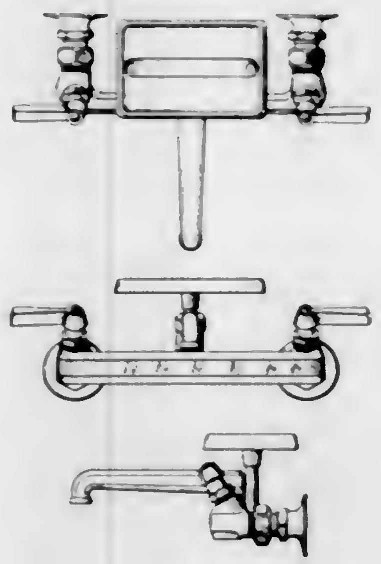
Kenneth C. Shyvers, Seattle, Wash.
Application February 8, 1946, Serial No. 126,381
Term of patent 14 years
(Cl. D56—4)



The ornamental design for a music box, as shown.

146,882
DESIGN FOR A COMBINED FAUCET AND SOAP DISH

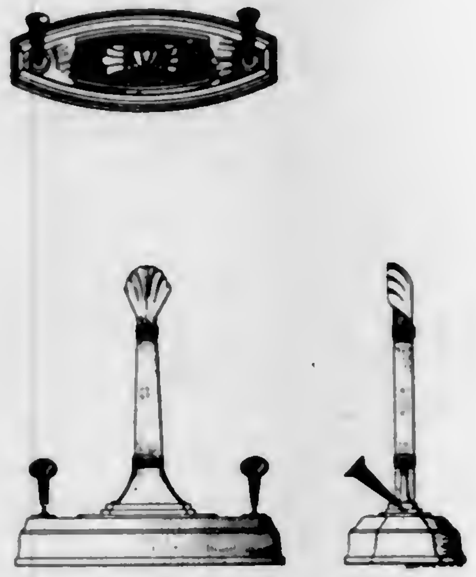
Albert G. Smolensky, Cleveland, Ohio
Application October 31, 1945, Serial No. 123,341
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a combined faucet and soap dish, as shown.

146,883
DESIGN FOR A COMBINED DESK SET AND LAMP STANDARD

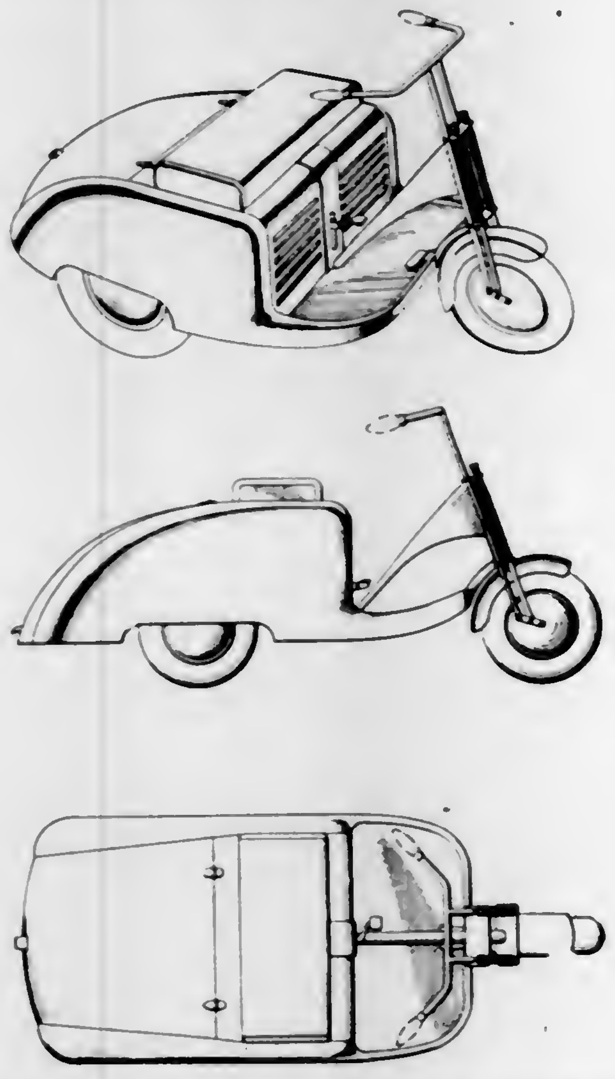
Jerome H. Steinberg, Brooklyn, N. Y.
Application February 1, 1946, Serial No. 126,165
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for a combined desk set and lamp standard, substantially as shown.

146,884
DESIGN FOR AN AUTOMOTIVE VEHICLE

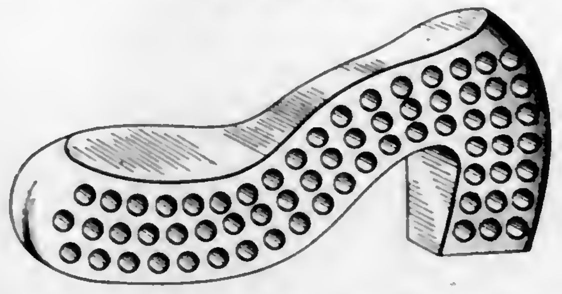
Russell P. Sweger, Rockford, Ill.
Application February 8, 1946, Serial No. 126,376
Term of patent 7 years
(Cl. D14—3)



The ornamental design for an automotive vehicle, substantially as shown.

146,885
DESIGN FOR A SHOE CLOG

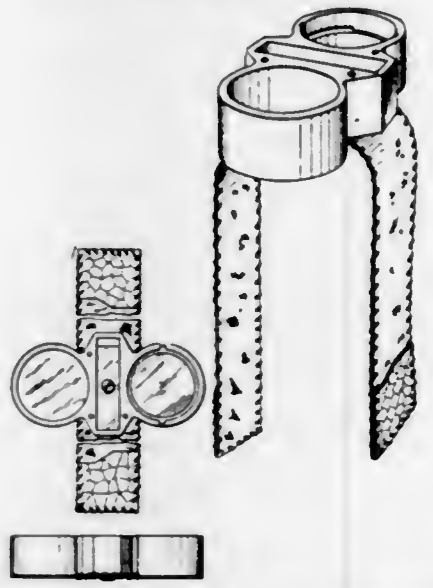
Lester Carl Tullgren, Minneapolis, Minn., and Joseph S. Bonkiewicz, Jr., Lodgepole, Nebr.
Application September 5, 1946, Serial No. 133,060
Term of patent 7 years
(Cl. D7—5)



The ornamental design for a shoe clog, as shown.

146,886
DESIGN FOR A COMBINED SERVING UTENSIL AND ASH TRAY

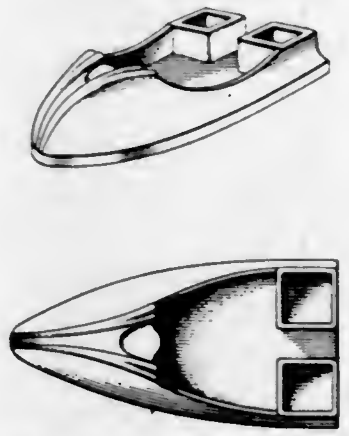
Charles Ralph Vigars, Bellflower, Calif.
Application December 29, 1945, Serial No. 125,142
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a combined serving utensil and ash tray, substantially as shown.

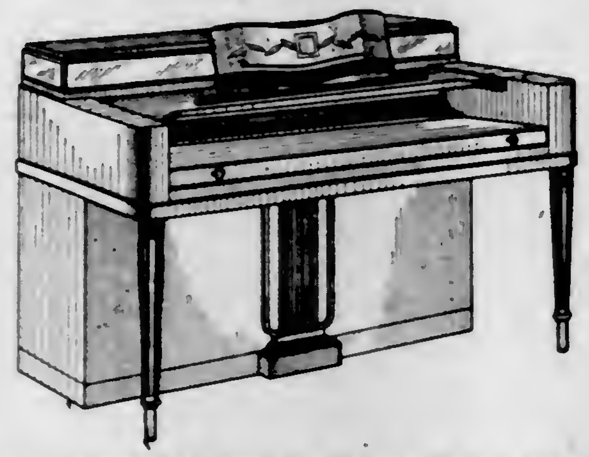
146,887
DESIGN FOR A STAND FOR HOLDING COSMETICS AND SIMILAR ARTICLES

James W. Wheeler, Cincinnati, Ohio
Application September 7, 1945, Serial No. 121,920
Term of patent 14 years
(Cl. D58—26)



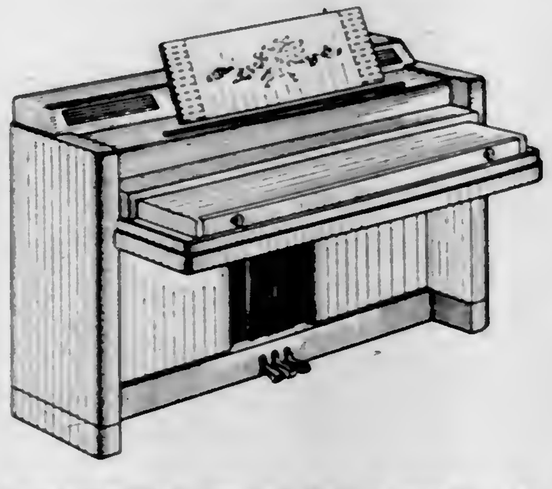
The ornamental design for a stand for holding cosmetics and similar articles, as shown.

146,888
DESIGN FOR A PIANO
William Zaiser, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Application January 24, 1946, Serial No. 125,913
Term of patent 14 years
(Cl. D56—9)



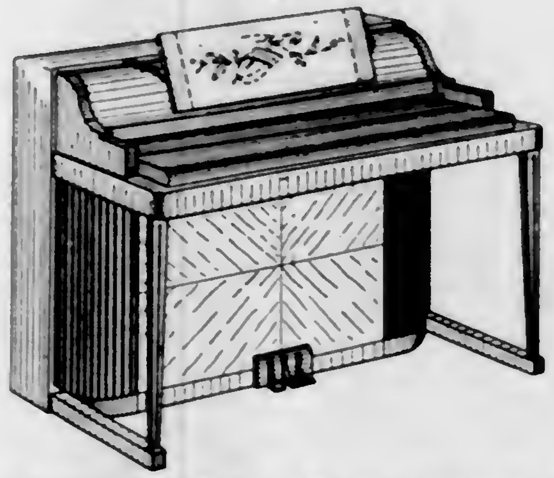
The ornamental design for a piano, as shown and described.

146,889
DESIGN FOR A PIANO
William Zaiser, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Application January 24, 1946, Serial No. 125,915
Term of patent 14 years
(Cl. D56—9)



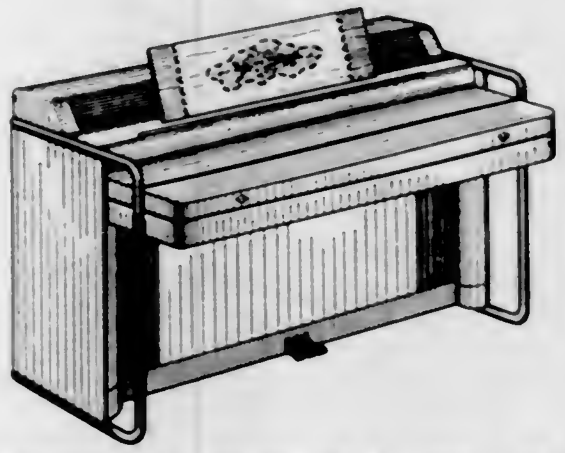
The ornamental design for a piano, as shown and described.

146,890
DESIGN FOR A PIANO
William Zaiser, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Application January 24, 1946, Serial No. 125,916
Term of patent 7 years
(Cl. D56—9)



The ornamental design for a piano, as shown and described.

146,891
DESIGN FOR A PIANO
William Zaiser, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Application January 24, 1946, Serial No. 125,917
Term of patent 7 years
(Cl. D56—9)



The ornamental design for a piano, as shown and described.

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

W. AVERELL HARRIMAN, *Secretary*

U. S. Patent Office

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Patents	435—No.	2,421,739 to No.	2,422,173, inclusive
Designs	42—No.	146,892 to No.	146,933, inclusive
Total	1,078		

Patents expiring: Patent Numbers 1,762,139 to 1,763,635, inclusive, issued June 10, 1930, expire June 10, 1947

Condition of Applications Under Examination at Close of Business May 23, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 146,509; Trade-Mark Division, 13,517. Oldest new case, August 6, 1945; oldest amended, July 30, 1945.)
(The dates given are 1945 except where * indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Oct. 8	Nov. 30	2,902
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 18	Oct. 26	3,553
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus)	Dec. 5	Nov. 23	1,779
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	*Jan. 8	*Jan. 19	3,014
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	Aug. 6	July 30	4,246
6. SURLE, H., Carbon Chemistry (part)	*Apr. 26	*Mar. 14	1,874
7. HANLIN, GEORGE, Optics, Photography	*May 27	*June 6	2,030
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	Dec. 10	Dec. 12	2,760
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 27	Oct. 26	2,161
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Dec. 17	*Jan. 31	1,441
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 29	*Aug. 16	809
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	*Jan. 5	*Jan. 7	2,682
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Oct. 2	Oct. 10	2,234
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	*Mar. 11	*Mar. 13	1,395
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	Nov. 5	*Apr. 11	1,010
16. LOVEWELL, N. N., Telegraphy; Telephony	*Jan. 24	*Mar. 16	1,306
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	*Jan. 29	*Jan. 24	1,312
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 25	Sept. 22	1,712
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	*Mar. 22	*Feb. 23	1,775
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Oct. 31	Nov. 7	2,254
21. THOMPSON, T. J., Textiles	*July 8	*Sept. 5	911
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Dec. 18	Dec. 14	1,873
23. LEWIS, J. B., Cash Registers; Calculators (part)	*Mar. 15	*Feb. 15	231
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	*Sept. 23	*Oct. 3	1,676
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	*Jan. 2	*Jan. 4	1,791
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 26	Dec. 3	2,193
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	*Jan. 25	*Jan. 5	2,458
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	Oct. 11	Oct. 8	1,271
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	*Jan. 12	*Jan. 16	2,678
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	*Feb. 7	*Feb. 7	2,525
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons; Halogenated Hydrocarbons; Hydrogenation of Carbon Oxides.	*May 1	*Mar. 14	992
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	*Jan. 4	Dec. 26	2,481
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.	Oct. 29	Nov. 2	3,730
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	*Jan. 3	*Jan. 3	1,362
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Dec. 29	*Feb. 15	2,339
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 24	Nov. 15	1,884
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	*Mar. 6	*Mar. 4	1,595
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions; Rubber; Ornamentation	*Apr. 10	*Apr. 2	1,383
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Sept. 18	Sept. 17	2,655
40. DRUMMOND, E. J., Receptacles (part); Packages	*Feb. 5	*Jan. 18	2,844
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	Nov. 28	Dec. 17	1,206
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	*June 11	*July 10	1,081
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	*June 8	*June 6	1,079
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 31	Oct. 8	1,414
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 6	Dec. 3	2,404
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	*Feb. 4	*Mar. 14	1,780
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	*Feb. 18	*Mar. 8	2,924
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Oct. 30	Nov. 23	1,900
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	*Feb. 23	*Feb. 27	1,547
50. LEVIN, SAMUEL, Synthetic Resins	*Apr. 1	*Apr. 1	2,623
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	*Jan. 15	*Jan. 11	2,059
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	*Mar. 11	*Feb. 28	3,464
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Sept. 24	Sept. 14	4,433
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	*Jan. 31	*Feb. 2	2,119
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Nov. 19	Nov. 6	1,949
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Acetylene; Gas Mixing	*Mar. 23	*Apr. 10	1,440
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Nov. 1	*Jan. 11	3,204
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	*Mar. 19	*Apr. 25	1,368
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Nov. 3	Oct. 16	2,167
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Nov. 20	*Mar. 15	2,036
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys, Ships and Marine Propulsion.	Dec. 14	Dec. 27	2,825
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Sept. 19	Sept. 13	4,117
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	*Feb. 1	*Jan. 8	2,145
64. NASH, P. M., Compositions—Coating or Plastic (part), Fuel and Miscellaneous	*Mar. 26	*Feb. 7	1,687
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Oct. 19	Oct. 19	2,266
Trade-Marks: MERCHANT, J. H	*July 27	*Nov. 16	13,517
Designs: BREHM, G. L. (Acting)	*Feb. 25	*Nov. 5	9,151

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. House publication. Serial No. 503,033 ; June 10. Class 38.

Acme Backing Corporation, Brooklyn, N. Y. Laminated metal and plastic flat yarn. Serial No. 516,047 ; June 10. Class 43.

Aeronautical Company, The, Kansas City, Mo. Game consisting of a playing board and cards. Serial No. 496,060 ; June 10. Class 22.

Agency Paper Company, New York, N. Y. Air mail writing paper, air mail envelopes, printing paper, etc. Serial No. 488,984 ; June 10. Class 37.

Airkem, Inc., New York, N. Y. Liquid composition. Serial No. 504,147 ; June 10. Class 6.

Alco Valve Company, University City, Mo. Refrigerant control valves. Serial No. 500,512 ; June 10. Class 26.

Allemann & Gisiger, New York, N. Y. Watches and parts thereof. Serial Nos. 511,920–1 ; June 10. Class 27.

American Cyanamid Company, New York, N. Y. Diuretic preparation. Serial No. 509,387 ; June 10. Class 6.

American Cyanamid Company, New York, N. Y. Multivitamin capsule. Serial No. 509,388 ; June 10. Class 6.

American Medical Glass Company, Washington, D. C. Impregnated glass fabric for fabrication of orthopedic appliances. Serial No. 497,835 ; June 10. Class 50.

Anchor Rubber Products, Inc., Cleveland, Ohio. Automobile floor mats. Serial No. 501,950 ; June 10. Class 50.

Armour and Company, Chicago, Ill. Commercial fertilizer. Serial No. 494,415 ; June 10. Class 10.

Ashe Laboratories Limited, London and Westminster, London, England. Shampoos. Serial No. 509,128 ; June 10. Class 6.

Associated Press, The, New York, N. Y. Series of cartoons. Serial No. 502,873 ; June 10. Class 38.

Austin, Charles, Inc., Cincinnati, Ohio. Optical apparatus. Serial No. 507,873 ; June 10. Class 26.

Avon Products, Inc., New York, N. Y. Perfume, toilet water, and cologne. Serial No. 508,203 ; June 10. Class 6.

Back, Frank G., doing business as Research and Development Laboratory, New York, N. Y. Varifocal camera lenses. Serial No. 509,258 ; June 10. Class 26.

Bailey, E. M., & Co. Inc., assignee: *See*—
Bell, Peter.

Bell Drug Co.: *See*—
Bell, Peter.

Bell, Peter, doing business as Bell Drug Co., assignor to E. M. Bailey & Co. Inc., New York, N. Y. Pharmaceutical and medicinal preparation. Serial No. 505,332 ; June 10. Class 6.

Berkeley Bags, Inc., Mauch Chunk, Pa. Ladies' handbags. Serial No. 515,855 ; June 10. Class 3.

Berland, Joseph, New York, N. Y. Finger rings. 513,233 ; June 10. Class 28.

Bernard Perfumer, Incorporated, St. Louis, Mo. Hand cleaner. Serial No. 503,183 ; June 10. Class 4.

Boston Manufacturing Company, Boston, Mass. Window boxes. Serial No. 494,811 ; June 10. Class 2.

Botany Worsted Mills, Passaic, N. J. Lipsticks. Serial No. 506,500 ; June 10. Class 6.

Botany Worsted Mills, Passaic, N. J. Powder for the toilette and lipsticks. Serial No. 506,501 ; June 10. Class 6.

Calgon, Incorporated, Pittsburgh, Pa. Detergent chemical compound. Serial No. 507,042 ; June 10. Class 4.

Calgon, Incorporated, Pittsburgh, Pa. Chemical compound. Serial No. 507,798 ; June 10. Class 6.

Caltone Corporation, Anaheim, Calif. Canned citrus fruit juices. Serial No. 510,877 ; June 10. Class 46.

Campana Corporation, Batavia Ill. Astringent-impregnated pads. Serial Nos. 506,918–20 ; June 10. Class 6.

Chem-L-Co Industries: *See*—
Lawley, Charles F.

Ciba Limited, Basel, Switzerland. Pharmaceutical preparation. Serial No. 505,803 ; June 10. Class 6.

Ciba Limited, Basel, Switzerland. Chemotherapeutic agent. Serial No. 505,806 ; June 10. Class 6.

Ciba Limited, Basel, Switzerland. Synthetically prepared estrogen. Serial No. 505,807 ; June 10. Class 6.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Liquid hand cream. Serial No. 509,398 ; June 10. Class 6.

Colgate-Palmolive-Peet Company, Jersey City, N. J. After shave lotion. Serial No. 509,563 ; June 10. Class 6.

Collins, D. R., Limited, London, England. Perfumery. Serial No. 509,139 ; June 10. Class 6.

Consolidated Cosmetics, Chicago, Ill. Perfume, cologne, face powder, etc. Serial No. 501,828 ; June 10. Class 6.

Cooper, Lillian, Cosmetics, Ltd., New City, N. Y. Talcum powder, baby oil, face and hand creams, etc. Serial No. 502,273 ; June 10. Class 6.

Coro, Inc., New York, N. Y. Necklaces, bracelets, finger rings, etc. Serial No. 509,756 ; June 10. Class 28.

Creed G. L., & Sons, Pineville, La. Brooms and mops. Serial No. 513,297 ; June 10. Class 29.

Dermetics, Inc., Seattle, Wash. Toilet preparations. Serial No. 470,902 ; June 10. Class 6.

Diamond Abrasive Tool Corp., New York, N. Y. Diamond dental burrs. Serial No. 500,797 ; June 10. Class 44.

Distillation Products, Inc., Rochester, N. Y. High boiling point hydrocarbon oils, and greases. Serial No. 493,595 ; June 10. Class 15.

D'Orsay Sales Company, New York, N. Y. Perfumes and toilet waters. Serial No. 508,275 ; June 10. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Window shades. Serial No. 510,072 ; June 10. Class 32.

Endo Products Inc., New York, N. Y. Medicinal preparation. Serial No. 501,725 ; June 10. Class 6.

Extruded Plastics, Inc., Norwalk, Conn. Plastic containers. Serial No. 500,296 ; June 10. Class 2.

Fashioncraft Cloth Products, Inc., Brooklyn, N. Y. Cosmetic bags and cosmetic kits. Serial No. 514,600 ; June 10. Class 3.

Fibrcan Corporation, New York, N. Y. Material or waste cans of plastic, paper or base metal. Serial No. 502,959 ; June 10. Class 2.

Fidelity System, Inc., Newark, N. Y. Insecticide. Serial No. 507,049 ; June 10. Class 6.

Fisch & Company, Los Angeles, Calif. Men's sport shirts and sport jackets. Serial No. 509,212 ; June 10. Class 39.

Flents Products Co., Inc., New York, N. Y. Analgesic nasal jelly. Serial No. 506,660 ; June 10. Class 6.

Folker Fabrics Corp., New York, N. Y. Textile fabrics in the piece. Serial No. 504,543 ; June 10. Class 42.

Fox, Emmett L., Brooks, W. Va. Fungicide. Serial No. 508,037 ; June 10. Class 6.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Fungicides and horticultural spray adjuvants. Serial No. 507,901 ; June 10. Class 6.

Grand Products Co., Chicago, Ill. Perfume dispensers. Serial No. 513,411 ; June 10. Class 28.

Greil Drug and Chemical Company, assignee: *See*—
Greil, Terry T.

Greil, Terry T., assignor to Greil Drug and Chemical Company, Pittsburgh, Pa. After shave lotion. Serial No. 505,409 ; June 10. Class 6.

Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Electroplating anodes. Serial No. 505,055 ; June 10. Class 14.

Harcourt-Harris, Inc., New York, N. Y. Motion picture films, photographic transparencies, unexposed light sensitized films, etc. Serial No. 506,105 ; June 10. Class 26.

Heller, Henry B., Corp., New York, N. Y. Spot remover. Serial No. 506,598 ; June 10. Class 4.

Heller, Henry B., Corp., New York, N. Y. Soapless cleaner. Serial No. 506,599 ; June 10. Class 4.

Hemisphere Fabrics Corporation, New York, N. Y. Piece goods of silk, wool, cotton, etc. Serial No. 496,702 ; June 10. Class 42.

Hemisphere Fabrics Corporation, New York, N. Y. Piece goods of silk, wool, cotton, etc. Serial No. 498,518 ; June 10. Class 42.

Hemisphere Fabrics Corporation, New York, N. Y. Piece goods of silk, wool, cotton, etc. Serial No. 498,520 ; June 10. Class 42.

Hicks, Frank H., doing business as The Mothimune Co., Los Angeles, Calif. Liquid used for preventing moth damage. Serial No. 507,528 ; June 10. Class 6.

Horton and Converse, Los Angeles, Calif. Toilet lanolin cream. Serial No. 508,114 ; June 10. Class 6.

Ideal Industries Inc., Sycamore, Ill. Abrasive resurfacer stones. Serial No. 500,542 ; June 10. Class 4.

Innis, Speiden & Co., New York, N. Y. Soil fumigation. Serial No. 507,826 ; June 10. Class 6.

International Business Machines Corporation, New York, N. Y. Typewriter ribbons and carbon paper. Serial No. 493,777 ; June 10. Class 11.

Joseph Manufacturing Co.: *See*—
Rosenblum, Joseph I.

Kinetic Chemicals, Inc., Wilmington, Del. Monochlorotrifluoromethane. Serial Nos. 509,349–50 ; June 10. Class 6.

Kinetic Chemicals, Inc., Wilmington, Del. Carbontetrafluoride. Serial No. 509,351 ; June 10. Class 6.

La Boiteaux Company, The, Cincinnati, Ohio. Sulphate paperboard. Serial No. 507,260 ; June 10. Class 37.

Lakeside Laboratories, Inc., Milwaukee, Wis. Combination of crude liver extract with pure crystalline B-vitamins. Serial No. 505,592; June 10. Class 6.
Lakeside Laboratories, Inc., Milwaukee, Wis. Tablets which provide all of the water soluble vitamins of therapeutic importance. Serial No. 505,594; June 10. Class 6.
Lakeside Laboratories, Inc., Milwaukee, Wis. Capsules and solutions. Serial No. 505,595; June 10. Class 6.
Lakeside Laboratories, Inc., Milwaukee, Wis. Preparation used as a diluent with penicillin. Serial No. 505,596; June 10. Class 6.
Lakeside Laboratories, Inc., Milwaukee, Wis. Tablets containing salicylates, mendione and ascorbic acid. Serial No. 505,597; June 10. Class 6.
Lakeside Laboratories, Inc., Milwaukee, Wis. Solution used in the treatment of arthritis, neuritis, myalgia, etc. Serial No. 505,598; June 10. Class 6.
Lakeside Laboratories, Inc., Milwaukee, Wis. Preparation combining pyridoxin hydrochloride and thiamine hydrochloride. Serial No 505,599; June 10. Class 6.
Lakeside Laboratories, Inc., Milwaukee, Wis. Multivitamin capsules. Serial No. 505,601; June 10. Class 6.
Lawley, Charles F., doing business as Chem-L-Co Industries, Pompton Lakes, N. J. Shuffle-board anti-friction powder. Serial No. 492,062; June 10. Class 4.
Lee, Frank H., Company, The, Danbury, Conn. Men's hats. Serial No. 510,324; June 10. Class 39.
Lehman, Charles H., New York, N. Y. Hearing aids. Serial No. 498,234; June 10. Class 44.
Lime Cola Company, Inc., Montgomery, Ala. Non-alcoholic maltless beverages sold as a soft drink and syrup, extract and concentrate for making the same. Serial No. 510,326; June 10. Class 45.
Lowell and Grayson Manufacturing Company, Monrovia, Calif. Thermostatically controlled gas valves and thermostatic valves. Serial No. 506,606; June 10. Class 26.
Mainville, Leo E., doing business as Stemz Company, Northville, Mich. Horse liniment. Serial No. 507,986; June 10. Class 6.
Martini Frocks, New York, N. Y. Clothing. Serial No. 494,226; June 10. Class 39.
Meyer, Joseph H., Bros., Brooklyn, N. Y. Necklaces, bracelets, finger rings, etc. Serial No. 511,887; June 10. Class 28.
Miami Products and Chemical Company, Dayton, Ohio. Cleaning preparation. Serial No. 506,886; June 10. Class 4.
Micro-Bilt, Incorporated, New York, N. Y. Miniature internal combustion engines. Serial No. 500,686; June 10. Class 23.
Morrow, Frank, Company, Inc., Providence, R. I. Jewelry findings. Serial No. 510,267; June 10. Class 28.
Mothimune Co., The: *See—*
Hicks, Frank H.
Myers, Walter M., New York, N. Y. Costume jewelry. Serial No. 507,138; June 10. Class 28.
National Carbon Company, Inc., New York, N. Y. Lubricating oil. Serial No. 489,978; June 10. Class 15.
North Brothers Manufacturing Company, Philadelphia, Pa. Ice cream freezers. Serial No. 518,094; June 10. Class 31.
Ohio-Apex, Inc., Nitro, W. Va. Bulk chemical. Serial No. 503,527; June 10. Class 6.
Pakula and Company, Chicago, Ill. Imitation pearls. Serial No. 513,198; June 10. Class 28.
Parfum L'Orle, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 494,518; June 10. Class 6.
Parfum L'Orle, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 494,520; June 10. Class 6.
Parfums Verlayne, Société à Responsabilité Limitée, Paris, France. Perfumes, toilet waters, rouge, etc. Serial No. 507,841; June 10. Class 6.
Parke, Davis & Company, Detroit, Mich. Vitamin preparation. Serial No. 507,747; June 10. Class 6.
Parker, Felix B., Los Angeles, Calif. Chemically treated cleaning cloths. Serial No. 505,314; June 10. Class 4.
Patek and Co., San Francisco, Calif. Wet cleaning aid of the neutral detergent type. Serial No. 505,913; June 10. Class 4.
Peerless Laboratories, Dallas, Tex. Medicinal preparation or vaporizing compound. Serial No. 509,365; June 10. Class 6.
Polan Industries, also doing business as Zenith Optical Company, Huntington, W. Va. Glass polishing compounds. Serial No. 493,620; June 10. Class 4.
Polarad Electronics Company, New York, N. Y. Potentiometer apparatus. Serial No. 500,411; June 10. Class 26.
Precision Scientific Co., Chicago, Ill. Unitary apparatus. Serial No. 505,164; June 10. Class 26.
Prior Clothes, Inc., Brooklyn, N. Y. Men's and boys' suits, topcoats, overcoats, etc. Serial No. 509,033; June 10. Class 39.
Pritchard & Schwarz, Niles, Mich. Toy magical track tubes, and toy magical card frames. Serial No. 482,118; June 10. Class 22.
Rabell, Miriam E., Waterbury, Conn. Tampons. Serial No. 518,853; June 10. Class 44.
Research and Development Laboratory: *See—*
Back, Frank G.
Ronson Art Metal Works, Inc., Newark, N. J. Pyrophoric lighters intended primarily for lighting cigarettes, etc. Serial No. 506,204; June 10. Class 34.
Rosenblum, Joseph E., doing business as Joseph Manufacturing Co., New York, N. Y. Carriage cover sets. Serial No. 502,900; June 10. Class 42.
Sagner's, A., Son, Baltimore, Md. Men's suits, coats, leisure jackets, etc. Serial No. 510,116; June 10. Class 39.
Scott, Charles W., Butte, Mont. Waterproofing compound. Serial No. 504,585; June 10. Class 4.
Shillman, A. & H., Company, Inc., Baltimore, Md. Yarns and threads for needle work. Serial No. 516,319; June 10. Class 43.
Smith, Albert D., & Co. Inc., New York, N. Y. Book cloth. Serial No. 507,860; June 10. Class 42.
Societe Anonyme Parfumerie Violet, Paris, France. Perfume, toilet waters, rouge, etc. Serial No. 508,317; June 10. Class 6.
Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris and Asnieres, France. Toilet soap. Serial No. 506,781; June 10. Class 4.
Stabelan Chemical Company, Toledo, Ohio. Stabilizers for synthetic resins. Serial No. 504,456; June 10. Class 6.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Petroleum sulfonates, viscous oil-soluble liquide. Serial No. 500,583; June 10. Class 6.
Stemz Company: *See—*
Mainville, Leo E.
Sterling Drug Inc., Wilmington, Del. Lighter fluid. Serial No. 503,769; June 10. Class 6.
Street & Smith Publications, Inc., New York, N. Y. Column in a periodical. Serial No. 507,349; June 10. Class 38.
Swift & Company, Chicago, Ill. Fertilizers. Serial No. 507,083; June 10. Class 10.
Tennessee Eastman Corporation, Kingsport, Tenn. Hydroquinone. Serial No. 505,867; June 10. Class 6.
Thayer Company, Gardner, Mass. High chairs; youth chairs; chairs and tables in sets, etc. Serial No. 509,378; June 10. Class 32.
Tobias, Robert D., New Rochelle, N. Y. Developed motion picture films. Serial No. 504,136; June 10. Class 26.
Uniline Manufacturing Corporation, Dallas, Tex. Fish lures. Serial No. 501,292; June 10. Class 22.
Unique Art Manufacturing Company, Inc., Newark, N. J. Toy. Serial No. 503,143; June 10. Class 22.
United Frozen Food Distributors, Incorporated, New York, N. Y. Quick frozen citrus fruit and vegetable juices. Serial No. 500,333; June 10. Class 46.
United Piece Dye Works, The, Lodi, N. J. Chemical preparation. Serial No. 505,931; June 10. Class 6.
Universal Camera Corporation, New York, N. Y. Cameras. Serial No. 509,055; June 10. Class 26.
Universal Camera Corporation, New York, N. Y. Cameras, camera lenses, optical view finders, etc. Serial No. 510,552; June 10. Class 26.
Victoria, Ltd., New York, N. Y. Liquid soap, toilet soap and bath soap. Serial No. 505,370; June 10. Class 4.
Weisbrod, M.: *See—*
Weisbrod, Morris.
Weisbrod, Morris, doing business as M. Weisbrod, New York, N. Y. Watches. Serial No. 508,135; June 10. Class 27.
Wernet Dental Mfg. Co., Inc., Jersey City, N. J. Ointment. Serial No. 501,700; June 10. Class 6.
White-Haines Optical Company, The, Columbus, Ohio. Lenses for optical purposes. Serial No. 509,807; June 10. Class 26.
Wilber, Bernard M., doing business as Wilber & Son, San Francisco, Calif. Life saving equipment. Serial No. 492,753; June 10. Class 22.
Wilber & Son: *See—*
Wilber, Bernard M.
Wurzburg Brothers, Memphis, Tenn. Gummed sealing tape. Serial No. 519,111; June 10. Class 5.
Zenith Optical Company: *See—*
Polan Industries.

LIST OF REGISTRANTS OF TRADE-MARKS

A. B. T. Manufacturing Corp., Chicago, Ill. Air rifles. 430,437; June 10. Class 22.
A. P. W. Products Company, Inc., Albany, N. Y. Paper for toilet purposes. 430,163; June 10; Serial No. 496,679; published Mar. 25, 1947. Class 37.
Abbott Laboratories, North Chicago, Ill. Antacid preparation. 430,356–7; June 10; Serial Nos. 505,027–8; published Mar. 11, 1947. Class 6.
Accles & Shelvoke Limited, Aston, Birmingham, England. Pistols. 430,126; June 10; Serial No. 491,147; published Mar. 4, 1947. Class 9.

Accurate Parts Manufacturing Company, Cleveland, Ohio. Automotive clutches and parts thereof, clutch plates, clutch facings, etc. 430,469; June 10. Class 23.
Ace-Lectric Heating Company: *See—*
Taylor, Riley H.
Acromatic Tool Company, Detroit, Mich. High-speed tools. 430,162; June 10; Serial No. 496,592; published Oct. 1, 1946. Class 23.
Adco, Inc.: *See—*
American Disinfecting Company.
Addressograph-Multigraph Corporation: *See—*
American Muligraph Company, The.
Affiliated Engineering Products: *See—*
Ford, John R.
Affiliated Retailers, Inc., New York, N. Y. Lawn mowers. 430,470; June 10. Class 23.
Agricultural Petroleum Equipment Corporation, Chicago, Ill. Service units consisting of metal drums and/or tanks. 430,365; June 10; Serial No. 505,329; published Apr. 1, 1947. Class 2.
Air Reduction Sales Company, New York, N. Y. Electric arc welding machines, parts, and accessories therefor. 430,277; June 10; Serial No. 502,362; published Mar. 11, 1947. Class 21.
Al-K-Co Manufacturers: *See—*
Kurtzon, Albert.
Alexander Marketing Company, San Benito, Tex. Fresh vegetables, fresh deciduous fruits. 226,096; renewed Mar. 29, 1947. O. G. June 10. Class 46.
Algene Mfg. Co., New York, N. Y. Radio receiving sets. 430,386; June 10; Serial No. 507,180; published Apr. 1, 1947. Class 21.
Alkco Manufacturing Co., assignee: *See—*
Kurtzon, Albert.
Allert, Carl G., doing business as The Chicago Broach Company, Chicago, Ill. Broaches. 430,088; June 10; Serial No. 482,663; published Feb. 25, 1947. Class 23.
Allied Laboratories, Inc.: *See—*
Pitman-Myers Company.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash.; Dey Brothers & Company, Syracuse, N. Y.; and Quackenbush Company, Paterson, N. J. Radio receiving sets and radio phonograph combinations. 430,272; June 10; Serial No. 502,249; published Apr. 1, 1947. Class 21.
Althouse, Charles S., doing business as The Althouse Chemical Company, Reading, Pa. Dyes and dyestuffs. 430,236; June 10; Serial No. 500,720; published Feb. 25, 1947. Class 6.
Althouse Chemical Company, The: *See—*
Althouse, Charles S.
Amerex Electronic Corp., assignor to Amperex Electronic Corporation, New York, N. Y. Electrical devices. 430,140; June 10; Serial No. 493,309; published May 28, 1946. Class 21.
American Associated Companies, Inc.: *See—*
American Mills Company.
American Bird Products, Inc., Chicago, Ill. Dog food. 430,540; June 10. Class 46.
American Brake Shoe Company, New York, N. Y. Bare and coated welding rods. 430,079; June 10; Serial No. 470,552; published Apr. 1, 1947. Class 14.
American Cyanamid Company, assignee: *See—*
Lederle Laboratories, Inc.
American Disinfecting Company, to Adco, Inc., Sedalia, Mo. Insecticides. 226,042; renewed Mar. 29, 1947. O. G. June 10. Class 6.
American Disinfecting Company, to Adco, Inc., Sedalia, Mo. Insecticides and disinfectants. 226,043; renewed Mar. 29, 1947. O. G. June 10. Class 6.
American Disinfecting Company, to Adco, Inc., Sedalia, Mo. Preparations for polishing wood floors, linoleums, oilcloths, etc. 226,044; renewed Mar. 29, 1947. O. G. June 10. Class 16.
American Disinfecting Company, to Adco, Inc., Sedalia, Mo. Disinfectants and germicides. 226,045; renewed Mar. 29, 1947. O. G. June 10. Class 6.
American Disinfecting Company, to Adco, Inc., Sedalia, Mo. Insecticides. 226,047; renewed Mar. 29, 1947. O. G. June 10. Class 6.
American Disinfecting Company, to Adco, Inc., Sedalia, Mo. Disinfectants and germicides. 226,048; renewed Mar. 29, 1947. O. G. June 10. Class 6.
American Dyewood Company, Philadelphia, Pa. Dyestuffs. 61,191; re-renewed Mar. 5, 1947. O. G. June 10. Class 6.
American Dyewood Company, New York, N. Y. Dyestuffs. 220,874; renewed Nov. 16, 1946. O. G. June 10. Class 6.
American Engineering Company, Philadelphia, Pa. Pumps, hydraulic power transmissions, steering gears, etc. 430,212; June 10; Serial No. 499,885; published Mar. 25, 1947. Class 23.
American Greeting Publishers Incorporated, Cleveland, Ohio. Note paper. 430,481; June 10. Class 37.
American Handicrafts Company—California, Los Angeles, Calif. Polysoluble leather dye. 430,210; June 10; Serial No. 499,814; published Feb. 18, 1947. Class 6.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y., to American Manufacturing Company, Brooklyn, N. Y. Rope, cord, and twine. 222,647; renewed Jan. 4, 1947. O. G. June 10. Class 7.

American Mayonnaise Corporation, to Pompeian Olive Oil Corporation, Baltimore, Md. Mayonnaise and salad dressings. 222,485; renewed Jan. 4, 1947. O. G. June 10. Class 46.
American Metalcraft Corporation, Detroit, Mich. Toy wagons. 430,549; June 10. Class 22.
American Mills Company, to American Associated Companies, Inc., Atlanta, Ga. Laundry nets. 217,017; renewed Aug. 24, 1946. O. G. June 10. Class 2.
American Mills Company, to American Associated Companies, Inc., Atlanta, Ga. Laundry nets. 217,992; renewed Sept. 14, 1946. O. G. June 10. Class 2.
American Multigraph Company, The, to Addressograph-Multigraph Corporation, Cleveland, Ohio. Ink and inked ribbons. 57,904; re-renewed Dec. 4, 1946. O. G. June 10. Class 11.
American Octanator Corporation, Providence, R. I. Accessory for internal combustion engines. 430,273; June 10; Serial No. 502,250; published Apr. 1, 1947. Class 23.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. 223,213–14; renewed Jan. 18, 1947. O. G. June 10. Class 17.
Amperex Electronic Corporation: *See—*
Amerex Electronic Corp.
Anders, Ernest O., doing business as Fluorescent Fixtures of California, San Francisco, Calif. Electrical lighting fixtures. 430,501; June 10. Class 21.
Anheuser-Busch, Inc., St. Louis, Mo. Bouillon powder and food flavoring material. 430,380; June 10; Serial No. 506,632; published Mar. 25, 1947. Class 46.
Ansehl, Benjamin, doing business as Benjamin Leland & Company, to The Benjamin Ansehl Company, St. Louis, Mo. Toilet articles, preparations, and products. 225,570; renewed Mar. 22, 1947. O. G. June 10. Class 6.
Ansehl, Benjamin, Company, The: *See—*
Ansehl, Benjamin.
Anthony, C. R. Co., Oklahoma City, Okla. Men's and boys' hats. 430,539; June 10. Class 39.
Applied Chemical Corporation, New York, N. Y. Aluminum acetate. 430,214; June 10; Serial No. 499,938; published Feb. 18, 1947. Class 6.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Lip balm. 430,477; June 10. Class 6.
Ariston, Incorporated, New York, N. Y. Natural and cultivated foliage and plants. 430,269; June 10; Serial No. 502,115; published Mar. 18, 1947. Class 1.
Arkwright, Incorporated, New York, N. Y. Lawnmowers, lawn sprayers, spray-guns, etc. 430,114; June 10; Serial No. 489,706; published Mar. 25, 1947. Class 23.
Arnold, Howard, Company, Chicago, Ill. Finger nail clippers, manicure scissors, manicure files, etc. 430,173; June 10; Serial No. 497,097; published Mar. 25, 1947. Class 44.
Associated Merchandising Corporation, New York, N. Y. Window curtains. 430,246; June 10; Serial No. 501,154; published Apr. 1, 1947. Class 42.
Associated Products, Inc., Chicago, Ill. Manicure implement sets, manicure scissors, nail files, etc. 430,179; June 10; Serial No. 497,362; published Mar. 25, 1947. Class 44.
Atkins, E. C., and Company: *See—*
Atkins, E. C., & Company.
Atkins, E. C., & Company, Indianapolis, Ind.; New York, N. Y.; Memphis, Tenn.; Atlanta, Ga.; Minneapolis, Minn.; Portland, Oreg.; etc.: to E. C. Atkins and Company, Indianapolis, Ind. Saws. 57,749; re-renewed Nov. 27, 1946. O. G. June 10. Class 23.
Atkins, E. C., & Company, Indianapolis, Ind.; New York, N. Y.; Memphis, Tenn.; Atlanta, Ga.; Minneapolis, Minn.; Portland, Oreg.; etc.: to E. C. Atkins and Company, Indianapolis, Ind. Saws. 58,946; re-renewed Dec. 25, 1946. O. G. June 10. Class 23.
Atkins, E. C., and Company, Indianapolis, Ind. Crosscut saws. 220,847; renewed Nov. 16, 1946. O. G. June 10. Class 23.
Ausherman, Harry S., Wichita, Kans. Portable auger machines. 430,205; June 10; Serial No. 499,370; published Apr. 1, 1947. Class 23.
Automatic Electric Mfg. Company, Mankato, Minn. Time switches, flashers, interval timers and relays, etc. 430,366; June 10; Serial No. 505,331; published Apr. 1, 1947. Class 21.
Automotive Specialty Corporation, The, Brooklyn, N. Y. Electric automotive ignition, starting, and lighting equipment. 430,249; June 10; Serial No. 501,356; published Apr. 1, 1947. Class 21.
Avon Products, Inc., New York, N. Y. Perfume. 430,312; June 10; Serial No. 503,696; published Feb. 25, 1947. Class 6.
Avon Products, Inc., New York, N. Y. Perfume. 430,319; June 10; Serial No. 503,966; published Mar. 11, 1947. Class 6.
Avon Products, Inc., New York, N. Y. Talcum powder, baby oil, and skin cream. 430,358; June 10; Serial No. 505,034; published Mar. 11, 1947. Class 6.
Avon Products, Inc., New York, N. Y. Talcum powder, baby oil, and skin cream. 430,359; June 10; Serial No. 505,036; published Mar. 11, 1947. Class 6.
Avon Products, Inc., New York, N. Y. Lipsticks. 430,523; June 10. Class 6.

Balcrank, Inc., Cincinnati, Ohio. Hand operated grease pumps. 430,134; June 10; Serial No. 492,417; published Mar. 25, 1947. Class 23.

Banks, Al A., doing business as Lyk-Nu Company, New York, N. Y. Automobile detergent, liquid surface cleaner, white tire cleaner, etc. 430,442; June 10. Class 4.

Banks & Shorr, New Rochelle, N. Y. Greaseless sun tan lotion. 430,458; June 10. Class 6.

Barnes-Hind Laboratories, San Francisco, Calif. Antiseptic wetting and cleansing solution. 430,333; June 10; Serial No. 504,527; published Mar. 11, 1947. Class 6.

Bates, C. J., & Son, Chester, Conn. Manicure sets, nail files, nail buffers, etc. 224,643; renewed Mar. 1, 1947. O. G. June 10. Class 44.

Bay State Thread Works, Springfield, Mass. Cotton thread. 226,638; renewed Apr. 12, 1947. O. G. June 10. Class 43.

Beard, Joseph D., doing business as Riverside Wood Products Company, Riverside, Calif. Playground equipment. 430,115; June 10; Serial No. 489,788; published Mar. 25, 1947. Class 22.

Beau Brummel Polish Corp., Brooklyn, N. Y. Shoe polish. 430,148; June 10; Serial No. 494,650; published Oct. 8, 1946. Class 4.

Bee Chemical Company, Chicago, Ill. Non-paint corrosion protective coatings and corrosion preventatives. 430,129; June 10; Serial No. 491,385; published Feb. 25, 1947. Class 6.

Belvedere Fabrics Inc., New York, N. Y. Piece goods of rayon, cotton, and mixtures of rayon and cotton, etc. 430,124; June 10; Serial No. 490,916; published Mar. 25, 1947. Class 42.

Bendel, Henri, Inc., New York, N. Y. Rouge and lipstick. 430,274; June 10; Serial No. 502,256; published Mar. 11, 1947. Class 6.

Bernheim, J., & Co., Timor Watch Co., La Chaux-de-Fonds, Switzerland. Watches, parts of watches, and watch cases. 430,440; June 10. Class 27.

Berton of California, Los Angeles, Calif. Men's shirts, sport coats, suits, etc., and women's suits and blouses. 430,529; June 10. Class 39.

Betty Brief, Inc., assignee: *See*—
Holsberg & Lasoff, Inc.

Bienvenu, René J., doing business as The Pronto Company, Alexandria, La. Deodorant cream. 430,367; June 10; Serial No. 505,388; published Mar. 11, 1947. Class 6.

Bilhuber, E., Inc., Orange, N. J. Cardiac stimulant. 430,218–19; June 10; Serial Nos. 500,048–9; published Feb. 18, 1947. Class 6.

Binney & Smith Company, New York, N. Y. Product composed of carbon black, artificial resin, and a plasticizer. 430,195; June 10; Serial No. 498,578; published Feb. 4, 1947. Class 16.

Bischoff, Ernst, Company, Inc., Ivoryton, Conn. Thermoplastic potting compound. 430,151; June 10; Serial No. 495,567; published Apr. 1, 1947. Class 1.

Birt, Dannie D., doing business as Dandee Manufacturing Company, Guymon, Okla. Agricultural loading machines. 430,145; June 10; Serial No. 494,255; published Mar. 11, 1947. Class 23.

Blocher, Clark V., San Luis Obispo, Calif. Bun encased frankfurter. 430,193; June 10; Serial No. 498,387; published Mar. 18, 1947. Class 46.

Blum, C., doing business as Chase Industrial Refrigerator Equipment & Engineering Co., Norwood, Ohio. Industrial refrigerator door fasteners. 430,548; June 10. Class 31.

Bogen, David, Company, Inc., New York, N. Y. Sound equipment. 430,087; June 10; Serial No. 481,938; published Mar. 25, 1947. Class 21.

Bon Marche, The: *See*—
Allied Stores Corporation.

Bootone Polish Company, Inc., Lindenhurst, N. Y. Shoe polish. 430,294; June 10; Serial No. 503,049; published Mar. 18, 1947. Class 4.

Borgenicht, Jack, Inc., Forest City, Pa. Women's and children's, and infants' dresses. 430,473; June 10. Class 39.

Botany Worsted Mills, Passaic, N. J. Lipsticks. 430,379; June 10; Serial No. 506,502; published Mar. 11, 1947. Class 6.

Bradley, Eugene V., doing business as Bradley Tool & Engineering, Toledo, Ohio. Tool holders. 430,141; June 10; Serial No. 493,589; published Apr. 1, 1947. Class 23.

Bradley Tool & Engineering: *See*—
Bradley, Eugene V.

Bretter & Levine, Inc., New York, N. Y. Misses' and juniors' dresses. 430,496; June 10. Class 39.

Brown, Clarence S., & Co., Inc., New York, N. Y. Piece goods. 430,512; June 10. Class 42.

Brown-Vaughan Pharmacal Co., San Francisco, Calif. Medicated soap compound. 430,143; June 10; Serial No. 493,914; published Mar. 11, 1947. Class 4.

Bruning Brothers, Baltimore, Md. Varnish. 430,262; June 10; Serial No. 501,712; published Mar. 11, 1947. Class 16.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Glue. 430,426; June 10; Serial No. 514,644; published Apr. 1, 1947. Class 5.

Burt, E. W., & Co., Inc., Boston, Mass., to The Selby Shoe Company, Portsmouth, Ohio. Men's, women's, and children's leather boots and shoes. 56,750; re-renewed Oct. 16, 1946. O. G. June 10. Class 39.

Calaveras Cement Company, San Francisco, Calif. Cement. 226,367; renewed Apr. 5, 1947. O. G. June 10. Class 12.

Calder, Caesar A., doing business as Time Savers, Montclair, N. J. Shirt collar supports. 430,099; June 10; Serial No. 485,901; published Apr. 1, 1947. Class 37.

California Canners Associates, Los Angeles, Calif. Canned fruit juices. 430,374; June 10; Serial No. 506,007; published Mar. 25, 1947. Class 46.

California Spray-Chemical Corporation, Wilmington, Del. Parasiticides. 430,225; June 10; Serial No. 500,278; published Mar. 11, 1947. Class 6.

California Spray-Chemical Corporation, Wilmington, Del. Parasiticides. 430,226–8; June 10; Serial Nos. 500,280–2; published Mar. 11, 1947. Class 6.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Parasiticides. 430,346–8; June 10; Serial Nos. 504,743–5; published Mar. 11, 1947. Class 6.

California Walnut Growers Association, Los Angeles, Calif. Walnuts. 225,244; renewed Mar. 15, 1947. O. G. June 10. Class 46.

Campbell, Edith M., Paris, Ky. Pile lotion. 430,378; June 10; Serial No. 506,292; published Mar. 11, 1947. Class 6.

Canter, George, doing business as Security Mfg. Co., New York, N. Y. Liquid cleaning preparation. 430,155; June 10; Serial No. 495,861; published Mar. 25, 1947. Class 4.

Caplin, Samuel: *See*—
Real Sport Clothing Company.

Carol, Jane, Cosmetics: *See*—
Friedman, Max.

Celanese Corporation of America: *See*—
Celluloid Company, The.

Celanese Corporation of America, New York, N. Y. Box covers, display boxes, containers, and fronts for containers. 430,184; June 10; Serial No. 497,702; published Mar. 25, 1947. Class 2.

Celluloid Company, The, New York, N. Y., and Newark, N. J., to Celanese Corporation of America, New York, N. Y. Plastics composed in part of pyroxylin or soluble cotton. 59,629; re-renewed Jan. 15, 1947. O. G. June 10. Class 1.

Celluloid Company, The, New York, N. Y., and Newark, N. J., to Celanese Corporation of America, New York, N. Y. Fibrous materials. 60,449; re-renewed Feb. 12, 1947. O. G. June 10. Class 1.

Central Coast Marketing Association, Inc., Watsonville, Calif. Fresh vegetables. 430,536; June 10. Class 46.

Century Lighting, Inc., New York, N. Y. Electric lighting fixtures. 430,328; June 10; Serial No. 504,326; published Mar. 18, 1947. Class 21.

Chase Industrial Refrigerator Equipment & Engineering Co.: *See*—
C. Blum.

Chase & Sanborn, Boston, Mass., to Standard Brands Incorporated, New York, N. Y. Tea. 61,050; re-renewed Mar. 5, 1947. O. G. June 10. Class 46.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 225,884; renewed Mar. 29, 1947. O. G. June 10. Class 42.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 226,061; renewed Mar. 29, 1947. O. G. June 10. Class 42.

Chicago Broach Company, The: *See*—
Allert, Carl G.

Chicago Printed String Company, Chicago, Ill. Tape and ribbon. 430,098; June 10; Serial No. 485,524; published Mar. 25, 1947. Class 7.

Chicago Printed String Company, Chicago, Ill. Wrapping string or tape. 430,415; June 10; Serial No. 509,920; published Mar. 25, 1947. Class 7.

Chipzels, Inc., Lansdale, Pa. Potato chips. 430,371; June 10; Serial No. 505,802; published Mar. 18, 1947. Class 46.

Christmas Club, New York, N. Y. Magazine. 225,139; renewed Mar. 15, 1947. O. G. June 10. Class 38.

Clarostat Mfg. Co. Inc., Brooklyn, N. Y. Resistors, fixed resistors, power resistors, etc. 430,308–9; June 10; Serial Nos. 503,634–5; published Mar. 25, 1947. Class 21.

Cle Products Company: *See*—
McJunkin, Herbert H.

Cleveland Retail Grocers Association, Cleveland, Ohio. Monthly magazine. 225,070; renewed Mar. 8, 1947. O. G. June 10. Class 38.

Clorox Chemical Co., Oakland, Calif. Liquid preparation. 430,265; June 10; Serial No. 501,825; published Mar. 11, 1947. Class 4.

Coastal Canning Corporation, Philadelphia, Pa. Canned dog food. 430,152; June 10; Serial No. 495,580; published July 16, 1946. Class 46.

Coddington, Earl L., doing business as Coddington Machine Co., Middletown, Ohio. Power operated machine for mowing grass and weeds. 430,314; June 10; Serial No. 503,799; published Mar. 18, 1947. Class 23.

Coddington Machine Co.: *See*—
Coddington, Earl L.

Codette Manufacturing Company, The, Baltimore, Md. Ladies' handbags. 430,403; June 10; Serial No. 508,575; published Apr. 1, 1947. Class 3.

Cohen, Felix, Co., The: *See*—
Cohen, Felix G.

Cohen, Felix G., doing business as The Felix Cohen Co., Oakland, Calif. Fresh citrus fruits, fresh deciduous fruits, fresh vegetables, etc. 430,375; June 10; Serial No. 506,009; published Apr. 1, 1947. Class 46.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Cosmetics and toilet preparations. 430,352; June 10; Serial No. 504,965; published Mar. 11, 1947. Class 6.

Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Ink repellent fluids for lithographic reproductions, lithographic inks, lithographic typewriting ribbons, etc. 430,108; June 10; Serial No. 488,508; published Feb. 25, 1947. Class 11.

Columbia Tool Steel Company, Chicago Heights, Ill. Tool steel. 430,286; June 10; Serial No. 502,621; published Mar. 18, 1947. Class 14.

Columbia Tool Steel Company, Chicago Heights, Ill. Tool steel. 430,289; June 10; Serial No. 502,689; published Mar. 4, 1947. Class 14.

Comet Envelope & Paper Co. Inc., New York, N. Y. Wrapping paper. 430,147; June 10; Serial No. 494,426; published Apr. 1, 1947. Class 37.

Comet Manufacturing Co., Inc., Minneapolis, Minn. Motor scooters. 430,305; June 10; Serial No. 503,554; published Feb. 25, 1947. Class 19.

Comfort Paper Corporation, San Francisco, Calif. Toilet tissue. 430,321; June 10; Serial No. 504,036; published Apr. 1, 1947. Class 37.

Commanditaire Vennootschap Chemische Fabriek Rids, Ijmuiden, Netherlands. Chemical products. 430,169; June 10; Serial No. 496,886; published Feb. 25, 1947. Class 6.

Commanditaire Vennootschap Chemische Fabriek Rids, Ijmuiden, Netherlands. Vanishing creams, cold creams, cleansing creams, etc. 430,170; June 10; Serial No. 496,888; published Feb. 25, 1947. Class 6.

Concord Chenille Co., New York, N. Y. Textile fabrics. 430,110; June 10; Serial No. 488,740; published Mar. 18, 1947. Class 42.

Cone Export & Commission Company, to Cone Export and Commission Co., Inc., New York, N. Y. Cotton drillings and shirtings. 221,826; renewed Dec. 14, 1946. O. G. June 10. Class 42.

Cone Export and Commission Co., Inc.: *See*—
Cone Export & Commission Company.

Consolidated Cosmetics, Chicago, Ill. Fountain pen ink, carbon paper, typewriter ribbon, and tattooing ink. 430,252; June 10; Serial No. 501,439; published Mar. 25, 1947. Class 11.

Consolidated Research Co., Cincinnati, Ohio. Cleaning preparation. 430,502; June 10. Class 4.

Consolidated Tea Company, Inc., New York, N. Y. Tea, coffee, and cocoa. 223,110; renewed Jan. 18, 1947. O. G. June 10. Class 46.

Continental-United Industries Co., Inc., assignee: *See*—
Sullivan, J., & Sons Manufacturing Company.

Corn Products Refining Company, New York, N. Y. Starch. 430,342; June 10; Serial No. 504,661; published Feb. 18, 1947. Class 6.

Cosmex Corp., New York, N. Y. Skin lotion or wash. 430,546; June 10. Class 6.

Cosmos Dental Products, Inc., New York, N. Y. Powder for use in making artificial stones used in preparation of denture models. 430,428; June 10; Serial No. 515,476; published Mar. 25, 1947. Class 44.

Coty, Inc., Wilmington, Del., and New York, N. Y., to Coty, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 219,711; renewed Oct. 19, 1946. O. G. June 10. Class 6.

Cowles Detergent Company, The, Cleveland, Ohio. Metal descaling preparation. 430,349; June 10; Serial No. 504,823; published Feb. 18, 1947. Class 6.

Crest Fabrics Corp., New York, N. Y. Thin, transparent or translucent vinyl type plastic sheeting. 430,516; June 10. Class 42.

Croasdale & De Angelis, Incorporated, Haverford Township, Delaware County, Pa. Floral vases, handkerchief boxes, face powder boxes, etc. 430,105; June 10; Serial No. 486,937; published Mar. 25, 1947. Class 2.

Curran Cushion & Textile Co., Downers Grove, Ill. Dolls. 430,137; June 10; Serial No. 492,763; published Mar. 25, 1947. Class 22.

Curtman Co., Inc., The, Providence, R. I. Bracelets, chains, brooches, etc. 430,547; June 10. Class 28.

Cutler-Hammer, Inc., Milwaukee, Wis. Electrical control apparatus, electrical machines, and electrical supplies. 430,190; June 10; Serial No. 498,118; published Apr. 1, 1947. Class 21.

Danbury Rubber Company, Inc., Danbury, Conn. Shoe soles and heels. 430,550; June 10. Class 39.

Dandee Manufacturing Company: *See*—
Birt, Dannie D.

Danmor Frocks, New York, N. Y. Ladies' dresses. 430,506; June 10. Class 39.

Dan River Mills, Incorporated: *See*—
Riverside & Dan River Cotton Mills, Inc.

Darsyn Laboratories, Inc., Paterson, N. J. Pharmaceutical chemical entitled 8-hydroxy-quinoline. 430,334; June 10; Serial No. 504,531; published Mar. 11, 1947. Class 6.

Darwin & Milner, Inc., Cleveland, Ohio. Iron and iron alloys. 430,189; June 10; Serial No. 497,921; published Apr. 1, 1947. Class 14.

Davidson, Carrie, Selma, Ala. Fig, strawberry, raspberry, etc. preserves, cookies, pickled and mustard relishes, etc. 430,517; June 10. Class 46.

Davis, H. B., Company, The, Baltimore, Md. Paints, paint enamels, japans, etc. 430,091; June 10; Serial No. 483,679; published Mar. 11, 1947. Class 16.

Davison Chemical Corporation, The, Baltimore, Md. Compound for dehumidification of the air. 430,511; June 10. Class 6.

Delex Products: *See*—
Peritz, Ernst.

Dempster Brothers, Incorporated, Knoxville, Tenn. Concrete block machines. 430,302; June 10; Serial No. 503,436; published Apr. 1, 1947. Class 23.

Dennis-Mitchell Industries, Philadelphia, Pa. Auto baby seats and hammocks. 430,185; June 10; Serial No. 497,705; published Apr. 1, 1947. Class 19.

Detroit Graphite Company, to Detroit Graphite Company, Detroit, Mich. Aluminum paint, aluminum-paint undercoater or primer. 224,320; renewed Feb. 22, 1947. O. G. June 10. Class 16.

Development Engineering Corporation, Newark, N. J. Plastic baby feeding set. 430,370; June 10; Serial No. 505,739; published Apr. 1, 1947. Class 2.

Dey Brothers & Company: *See*—
Allied Stores Corporation.

Diamond Wire & Cable Co., Chicago Heights, Ill. Insulated electrical wire. 430,407; June 10; Serial No. 508,982; published Apr. 1, 1947. Class 21.

Dictaphone Corporation, Bridgeport, Conn. Phonographs, machines for phonographically recording, machines for phonographically reproducing, etc. 219,360; renewed Oct. 19, 1946. O. G. June 10. Class 36.

Di Giorgio Fruit Corporation: *See*—
Earl Fruit Company.
Standard Growers Exchange.

Dill & Collins Co., Philadelphia, Pa., to The Mead Corporation, Chillicothe, Ohio. Printing-paper. 52,295; re-renewed May 8, 1946. O. G. June 10. Class 37.

Dill & Collins Co., Philadelphia, Pa., to The Mead Corporation, Chillicothe, Ohio. Printing and writing paper. 54,135; re-renewed June 19, 1946. O. G. June 10. Class 37.

Dill & Collins Co., Philadelphia, Pa., to The Mead Corporation, Chillicothe, Ohio. Certain named papers. 55,343; re-renewed Aug. 14, 1946. O. G. June 10. Class 37.

Dill & Collins Co., Philadelphia, Pa., to The Mead Corporation, Chillicothe, Ohio. Wrapping paper. 55,344; re-renewed Aug. 14, 1946. O. G. June 10. Class 37.

Dixon & Rippel, Inc., Kingston, N. Y. Scratch brushes, goblet brushes, end brushes, etc. 430,097; June 10; Serial No. 485,140; published Feb. 25, 1947. Class 23.

Doehler-Jarvis Corporation, New York, N. Y. Non-ferrous metal alloy and castings. 430,092; June 10; Serial No. 483,719; published Mar. 25, 1947. Class 14.

Doehler-Jarvis Corporation, New York, N. Y. Die-casting metal and die castings. 430,263; June 10; Serial No. 501,720; published Feb. 25, 1947. Class 14.

Dominion Electrical Manufacturing, Inc., Mansfield, Ohio. Electrical household appliances. 430,395; June 10; Serial No. 507,716; published Apr. 1, 1947. Class 21.

Dragon, Paul, Stockton, Calif. Nut shelling machines. 430,325; June 10; Serial No. 504,098; published Mar. 18, 1947. Class 23.

Dreyfus Co., Inc., New York, N. Y. Pickles, sauerkraut, mustard, and vinegar. 430,244; June 10; Serial No. 501,056; published Apr. 1, 1947. Class 46.

Dri-Shaker Products, Inc., Miami, Fla. Plastic condiment shakers. 430,492; June 10. Class 2.

Dri-Shaker Products, Inc., Miami, Fla. Condiment shaker made of glass. 430,493; June 10. Class 33.

Duffy-Mott Company, Inc., New York, N. Y. Cider vinegar, white vinegar, jellies, and marmalades. 430,408; June 10; Serial No. 509,080; published Mar. 18, 1947. Class 46.

Du-More Farm Equipment, Inc., Wichita, Kans. Blowers for conveyors. 430,449; June 10. Class 23.

Dunhill Mfg. & Distributors Corp., New York, N. Y. Electric table, floor, wall, and overhead lamps and fixtures, and parts thereof. 430,399; June 10; Serial No. 508,371; published Apr. 1, 1947. Class 21.

Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Gymnasium pads. 430,116; June 10; Serial No. 490,364; published Mar. 25, 1947. Class 22.

Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Pads for operating tables, examining tables, and treatment tables. 430,117; June 10; Serial No. 490,366; published Mar. 25, 1947. Class 44.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dry cleaning fluids. 430,290; June 10; Serial No. 502,691; published Mar. 18, 1947. Class 4.

Dustan, Frederick P., Buffalo, to Luminite Products Corporation, Salamanca, N. Y. Wall-paper print rollers and blocks. 218,823; renewed Oct. 5, 1946. O. G. June 10. Class 23.

Dutch Mill Candy Co., Chicago, Ill. Candies and bonbons. 430,507; June 10. Class 46.

Earl Fruit Company, to Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh fruits. 219,836; renewed Oct. 26, 1946. O. G. June 10. Class 46.

Eastern Stainless Steel Corporation, Baltimore, Md. Stainless steel sheet and plate. 430,220; June 10; Serial No. 500,066; published Feb. 25, 1947. Class 14.

Eaton-Clark Company, Detroit, Mich. Liquid designed for resizing materials. 430,211; June 10; Serial No. 499,829; published Feb. 18, 1947. Class 6.

Edouard, Charles, Parfumeur (Société à Responsabilité Limitée), Paris, France. Perfumes, toilet waters, rouge, etc. 430,343; June 10; Serial No. 504,663; published Mar. 11, 1947. Class 6.

Edouard, Charles, Parfumeur (Société à Responsabilité Limitée), Paris, France. Perfumes, toilet waters, rouge, etc. 430,344; June 10; Serial No. 504,664; published Mar. 11, 1947. Class 6.

Eggleton, Cecil E., Minneapolis, Minn. Liquid preparation for cleaning jewelry. 430,125; June 10; Serial No. 491,071; published Mar. 25, 1947. Class 4.

Electric Household Utilities Corporation: *See*—
Meadows Manufacturing Co., The.

Electrical Industries, Inc., Newark, N. J. Electronically heated bottle warmers. 430,083; June 10; Serial No. 477,498; published Apr. 1, 1947. Class 21.

Electrical Industries, Inc., Newark, N. J. Electrically heated food warmers and cookers, electrically heated bottle warmers, etc. 430,257; June 10; Serial No. 501,653; published Mar. 18, 1947. Class 21.

Electronic Water Treatment Corp., New York, N. Y., and Jersey City, N. J. Apparatus for the electrical treatment of water to prevent or diminish the effect of the hardness thereof. 430,376; June 10; Serial No. 506,235; published Mar. 25, 1947. Class 21.

El-Ee's Foundations, Inc., Newark, N. J. Foundation garments. 430,461; June 10. Class 39.

Elgin American Division of Illinois Watch Case Co.: *See*—
Illinois Watch Case Co.

Elmo Sales Corporation, Philadelphia, Pa. Deodorant, after shave lotion, hair tonic, etc. 430,491; June 10. Class 6.

Empire Twine & Yarn Co. Inc., New York, N. Y. Twine and cordage. 430,416; June 10; Serial No. 510,019; published Apr. 1, 1947. Class 7.

Emulsol Corporation, The, Chicago, Ill. Emulsifying egg product. 224,796; renewed Mar. 8, 1947. O. G. June 10. Class 46.

Enoz Chemical Company, Chicago, Ill. Insecticides. 430,100; June 10; Serial No. 486,092; published Feb. 25, 1947. Class 6.

Ergolyte Manufacturing Co., Philadelphia, Pa. Electric arc welding machines. 430,543; June 10. Class 21.

Eronel Industries, Los Angeles, Calif. Flameproofing of textiles and materials. 430,423; June 10; Serial No. 512,247; published Jan. 21, 1947. Class 6.

Faraday Electric Corporation, Adrian, Mich., and Boston, Mass. Visible and audible electric signals, indicators and alarms. 430,388–90; June 10; Serial Nos. 507,380–2; published Apr. 1, 1947. Class 21.

Farastan Company, The, Philadelphia, Pa. Vitamin D-iodine combination. 430,361; June 10; Serial No. 505,099; published Feb. 18, 1947. Class 6.

Ferncliff Feed & Grain Co., Louisville, Ky. Feeds and feedstuffs. 226,377; renewed Apr. 5, 1947. O. G. June 10. Class 46.

Ferro-Glo Corporation, Erie, Pa. Chemical compound. 430,525; June 10. Class 6.

Firan Co., The, Santa Monica, Calif. Electric space heaters. 430,394; June 10; Serial No. 507,524; published Mar. 18, 1947. Class 21.

Fleisher Chemical Company: *See*—
Fleisher, Harry.

Fleisher, Harry, doing business as Fleisher Chemical Company, Washington, D. C. Chemical indicator. 430,528; June 10. Class 6.

Fleurier Watch Co., Fleurier, Switzerland. Watches and parts of watches. 430,522; June 10. Class 27.

Fluid Fit Furs, Inc., New York, N. Y. Fur coats. 430,445; June 10. Class 39.

Fluorescent Fixtures of California: *See*—
Anders, Ernest O.

Folly Town Company, The, Chicago, Ill. Candy. 220,707; renewed Nov. 16, 1946. O. G. June 10. Class 46.

Ford, John R., doing business as Affiliated Engineering Products, Norfolk, Va. Preparation for removing grease. 430,245; June 10; Serial No. 501,125; published Mar. 25, 1947. Class 4.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 220,550; renewed Nov. 9, 1946. O. G. June 10. Class 42.

Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.

Fort Dodge Laboratories, Inc., Fort Dodge, Iowa. Vitamin supplement. 430,216; June 10; Serial No. 499,997; published Mar. 11, 1947. Class 6.

Fouch, James L., doing business as Universal Microphone Company, Inglewood, Calif. Microphones. 430,535; June 10. Class 21.

Franklin Photographic Industries, assignor to Franklin Photographic Industries, Inc., Chicago, Ill. Electric phonographs and reproducers. 430,397; June 10; Serial No. 508,153; published Apr. 1, 1947. Class 21.

Franklin Photographic Industries, Inc., assignee: *See*—
Franklin Photographic Industries.

Friedman, Max, doing business as Jane Carol Cosmetics, Rockaway, N. Y. Cosmetics. 430,081; June 10; Serial No. 474,893; published Feb. 25, 1947. Class 6.

Frye's Cigar Company, Brockton, Mass. Razor blades. 430,320; June 10; Serial No. 503,982; published Mar. 18, 1947. Class 23.

Gaba A. G., Basel, Switzerland. Voice and throat tablets. 215,324; renewed July 13, 1946. O. G. June 10. Class 6.

Gaba A. G., Basel, Switzerland. Voice and throat tablets. 215,331; renewed July 13, 1946. O. G. June 10. Class 6.

Gaddy, Robert L., Gainesville, Fla. Preparation for the relief of athlete's foot, ringworm, impetigo, etc. 430,432; June 10. Class 6.

Galen Laboratories, Pittsburgh, Pa. Foot powder. 430,082; June 10; Serial No. 475,203; published Mar. 11, 1947. Class 6.

Garcia, Faustino Rodriguez y, Habana, Cuba. Preparation for dyeing the hair. 430,441; June 10. Class 6.

Garfield Tea Co., New York and Brooklyn, N. Y., to Garfield Tea Co., Brooklyn, N. Y. Liniment. 59,225; re-renewed Jan. 1, 1947. O. G. June 10. Class 6.

Gaybrand Bags Inc., New York, N. Y. Ladies' handbags. 430,413; June 10; Serial No. 509,702; published Mar. 18, 1947. Class 3.

Gedney, M. A., Company: *See*—
Gedney, M. A., Pickling Co., The.

Gedney, M. A., Pickling Co., The, to M. A. Gedney Company, Minneapolis, Minn. Pickles, pickled onions, catsup, etc. 56,829; re-renewed Oct. 23, 1946. O. G. June 10. Class 46.

Gedney, M. A., Pickling Co., The, to M. A. Gedney Company, Minneapolis, Minn. Pickles, pickled onions, catsup, etc. 56,849; re-renewed Oct. 23, 1946. O. G. June 10. Class 46.

Gedney, M. A., Pickling Co., The, to M. A. Gedney Company, Minneapolis, Minn. Pickles, pickled onions, catsup, etc. 57,000; re-renewed Oct. 30, 1946. O. G. June 10. Class 46.

Geigy Company, Inc., New York, N. Y. Dyestuffs. 430,258; June 10; Serial No. 501,658; published Mar. 11, 1947. Class 6.

Geigy Company, Inc., New York, N. Y. Chemical agent. 430,259; June 10; Serial No. 501,662; published Mar. 11, 1947. Class 6.

General Cable Corporation, New York, N. Y. Bare and insulated electric wires and cables. 430,393; June 10; Serial No. 507,469; published Mar. 11, 1947. Class 21.

General Chemical Company, New York, N. Y. Insecticides. 430,217; June 10; Serial No. 500,002; published Oct. 29, 1946. Class 6.

General Products Co., Brooklyn, N. Y. Laundry cleaning fluid. 430,229; June 10; Serial No. 500,300; published Mar. 11, 1947. Class 6.

Gibbs & Company, Chicago, Ill. Permanent wave preparation. 430,084; June 10; Serial No. 479,710; published May 1, 1945. Class 6.

Gillam, Earnest O., doing business under the name of Gillam Soap Works, Fort Worth, Tex. Soap. 430,198; June 10; Serial No. 498,834; published Mar. 11, 1947. Class 4.

Gillam Soap Works: *See*—
Gillam, Earnest O.

Gilliam Candy Company, Paducah, Ky. Candy. 430,335; June 10; Serial No. 504,549; published Mar. 11, 1947. Class 46.

Glazebrock, Steel & Company Limited, Manchester, England. Yarn (for weaving) wholly of cotton. 430,418; June 10; Serial No. 510,836; published Apr. 1, 1947. Class 43.

Golden Bear Oil Co., Los Angeles, Calif. Chemical preparation. 430,362; June 10; Serial No. 505,102; published Mar. 11, 1947. Class 6.

Goldstein Millinery Company, Chicago, Ill. Ladies' hats. 430,542; June 10. Class 39.

Goldwag, Harry L., doing business as Pedinol Products Co., New York, N. Y. Chiropodists' supplies. 223,338; renewed Feb. 1, 1947. O. G. June 10. Class 6.

Goodrich, B. F., Company, The, Akron, Ohio. Chemicals for controlling vulcanization of natural or synthetic rubber. 430,221; June 10; Serial No. 500,077; published Feb. 18, 1947. Class 6.

Goodwill Industry J. Q. A. Martin, Incorporated, New Bern, N. C. Salve. 430,215; June 10; Serial No. 499,949; published Feb. 18, 1947. Class 6.

Gordon, Sophie R., doing business as Gordon Wheat Germ Co., New York, N. Y. Natural mixed tocopherols 430,482; June 10. Class 6.

Gordon Wheat Germ Co.: *See*—
Gordon, Sophie R.

Graceline Handbags, Inc.: *See*—
Lefkowitz, L. J. & M., Inc.

Grafe-Callahan Construction Co., Los Angeles, Calif. Cattle. 430,144; June 10; Serial No. 494,062; published Apr. 1, 1947. Class 1.

Graham, M. L., Salt Lake City, Utah, to M. L. Graham, Seattle, Wash. Special kind of chicken sandwich or chicken sandwich dinner. 226,343; renewed Apr. 5, 1947. O. G. June 10. Class 46.

Granat Bros., Inc., San Francisco, Calif. Finger rings. 430,436; June 10. Class 28.

Grand Rapids Paint and Enamel Company, Grand Rapids, Mich. Plastic varnish. 430,196; June 10; Serial No. 498,764; published Feb. 4, 1947. Class 16.

Greenberg, Sidney, doing business as The Tuf-Skin Company, New York, N. Y. Skin lotion. 430,484; June 10. Class 6.

Grover Photo Products, Los Angeles, Calif. Converter used for transforming electrical currents. 430,398; June 10; Serial No. 508,284; published Apr. 1, 1947. Class 21.

Gueux, Joseph J. M., Paris, to J. J. M. Gueux, Ivry (Seine), France. Liquid measuring and dispensing devices. 219,224; renewed Oct. 12, 1946. O. G. June 10. Class 26.

Guss, David, & Company, Philadelphia, Pa. Watchstraps. 430,368; June 10; Serial No. 505,494; published Mar. 18, 1947. Class 40.

Haas-Miller Corporation, Philadelphia, Pa. Compound for general cleaning. 430,254; June 10; Serial No. 501,573; published Mar. 4, 1947. Class 4.

Haft & Sons, Inc., Brooklyn, N. Y. Electric extension cords, sockets, plugs, etc. 430,545; June 10. Class 21.

Hance Bros. & White Co., Philadelphia, Pa. Liquid haemostatic, antiseptic, and disinfectant. 430,213; June 10; Serial No. 499,894; published Feb. 18, 1947. Class 6.

Hanson, Henry L., Company, North Attleboro, Mass. Threading tools. 430,132; June 10; Serial No. 492,044; published Mar. 25, 1947. Class 23.

Harris, A., Limited, Glasgow, Scotland. Cigars, cigarettes, chewing, smoking, and leaf tobacco. 219,817; renewed Oct. 26, 1946. O. G. June 10. Class 17.

Harte, Ralph S., San Francisco, Calif. Thin transparent or translucent sheets or films of polyvinyl resin. 430,447; June 10. Class 42.

Healey, Ernest, Foxton, Wellington, New Zealand, to E. Healey, Sydney, Australia. Medicinal preparations. 210,189; renewed Mar. 9, 1946. O. G. June 10. Class 6.

Hemphill, Edward C., doing business as Sleep Shade Co., San Francisco, Calif. Ear stops or plugs for deadening noises. 430,425; June 10; Serial No. 514,474; published Mar. 25, 1947. Class 44.

Hercules Corporation, The, doing business as The Hercules Gas Engine Co., Evansville, Ind., to Hercules Motors Corporation, Canton, Ohio. Gas engines. 219,321; renewed Oct. 19, 1946. O. G. June 10. Class 23.

Hercules Gas Engine Co., The: *See*—
Hercules Corporation, The.

Hercules Motors Corporation: *See*—
Hercules Corporation, The.

Heribert, Herbert J., New York, N. Y. Printing ink and printing lacquer. 430,160; June 10; Serial No. 496,139; published Mar. 4, 1947. Class 11.

Hershey Mfg. Co., Chicago, Ill. Electrically operated hair brushes. 430,384; June 10; Serial No. 506,871; published Mar. 11, 1947. Class 21.

Herskowitz, Abe, Oklahoma City, Okla. Hosiery. 225,569; renewed Mar. 22, 1947. O. G. June 10. Class 39.

Hester, George C., doing business as Janet Hester, Glendale, Calif. Perfumes. 430,181; June 10; Serial No. 497,608; published Oct. 15, 1946. Class 6.

Hester, Janet: *See*—
Hester, George C.

Hicks, W. Wesley, San Francisco, Calif. Electric space heater. 430,387; June 10; Serial No. 507,187; published Mar. 11, 1947. Class 21.

Higgins, Inc., New Orleans, La. Prefabricated, plasticized bonded plywood cabin units. 430,369; June 10; Serial No. 505,650; published Mar. 25, 1947. Class 19.

Hipsh, Incorporated, Kansas City, Mo. Men's toiletries. 430,455–6; June 10. Class 6.

Hipsh, Inc., Kansas City, Mo. Men's jackets. 430,459; June 10. Class 39.

Hirsch, Clement L., doing business as Packers Canning Company, assignor to Victory Packing Co., Los Angeles, Calif. Canned horse meat and gravy. 430,306; June 10; Serial No. 503,571; published Mar. 18, 1947. Class 46.

Hoffmann-La Roche, Inc., Nutley, N. J. Multi-vitamin preparation for therapeutic use. 430,209; June 10; Serial No. 499,784; published Feb. 25, 1947. Class 6.

Holland & McChesney, Freehold, N. J. Potatoes in their natural state. 430,208; June 10; Serial No. 499,709; published Mar. 11, 1947. Class 46.

Holloway, M. J., & Co., Chicago, Ill. Candy. 430,382; June 10; Serial No. 506,753; published Apr. 1, 1947. Class 46.

Holsberg & Lasoff, Inc., assignor to Betty Brief, Inc., Boston, Mass. Women's and misses' dresses. 430,452; June 10. Class 39.

Holyoke Belting Company, Holyoke, Mass. Belt cement and reducer therefor. 430,154; June 10; Serial No. 495,780; published Apr. 1, 1947. Class 5.

Home Style Foods, Inc., Philadelphia, Pa. Frozen fried chicken cutlets and chicken patties, lobster cutlets, scallops, etc. 430,532; June 10. Class 46.

Hope Products, Inc., St. Louis, Mo. Electric steam irons. 430,385; June 10; Serial No. 507,128; published Mar. 11, 1947. Class 21.

Hoppi-Copters, Inc., Seattle, Wash. Rotary wing aircraft. 430,303; June 10; Serial No. 503,517; published Mar. 25, 1947. Class 19.

Hospital Supply Company, The, New York, N. Y., to The Ohio Chemical & Mfg. Co., Cleveland, Ohio. Certain named surgical apparatus. 58,950; re-renewed Dec. 25, 1946. O. G. June 10. Class 44.

Hubinger Company, The, Keokuk, Iowa. Liquid starch for laundering. 430,350; June 10; Serial No. 504,899; published Mar. 11, 1947. Class 6.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Fire pumps, trombone, barrel and bucket pumps; sprayers and dusters, etc. 430,438; June 10. Class 23.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Litter carrier track and switches, hay track and switches, etc. 430,544; June 10. Class 23.

Hydroloc Syndicate, Chicago, Ill. Hydraulic transmissions. 430,474; June 10. Class 23.

Hydro-Power, Incorporated, Mount Gilead, Ohio. Hydraulic pumps, hydraulic presses, hydraulic control valves, etc. 430,200; June 10; Serial No. 498,994; published Apr. 1, 1947. Class 23.

Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Rouge, lipsticks, cake make-ups, etc. 430,089; June 10; Serial No. 482,803; published Feb. 25, 1947. Class 6.

Imperial Chemical Company, Shenandoah, Iowa. Fungicides, insecticide, and germicide. 430,284; June 10; Serial No. 502,516; published Mar. 11, 1947. Class 6.

Indian River Producers, Inc., Fort Pierce, Fla. Fresh citrus fruits. 430,336; June 10; Serial No. 504,554; published Mar. 11, 1947. Class 46.

Infantoy Products Co., New York, N. Y. Exercisers for infants. 430,086; June 10; Serial No. 480,868; published May 29, 1945. Class 22.

International Brotherhood of Electrical Workers, Washington, D. C. Letterheads, correspondence envelopes, and blank forms. 430,128; June 10; Serial No. 491,328; published Mar. 18, 1947. Class 37.

International Metal Polish Co., Inc., Indianapolis, Ind. Brake fluid, shock absorbent fluid, preparation for removing rust, etc. 430,090; June 10; Serial No. 483,322; published Feb. 25, 1947. Class 6.

International 3 Out of 5 Corporation, El Monte, Calif., assignor to S. J. Youcheff, New York, N. Y. Scalp preparation. 430,194; June 10; Serial No. 498,523; published Feb. 25, 1947. Class 6.

Irresistible, Inc., New York, N. Y. Perfume. 430,467; June 10. Class 6.

Irvington Varnish & Insulator Co., Irvington, N. J. Varnished cloth, paper, and silk. 224,199; renewed Feb. 22, 1947. O. G. June 10. Class 21.

Irwin Auger Bit Company, The, Wilmington, Ohio. Screw drivers. 430,177; June 10; Serial No. 497,312; published Mar. 11, 1947. Class 23.

Jacobs, Howard M., doing business as Jacobs Remedy Co., Louisville, Ky. Intestinal astringent. 430,260; June 10; Serial No. 501,668; published Mar. 11, 1947. Class 6.

Jacobs Remedy Co.: *See*—
Jacobs, Howard M.

Jamison, Edward S., doing business as James Jamison Company, New York, N. Y. Men's socks. 430,444; June 10. Class 39.

Jamison, James, Company: *See*—
Jamison, Edward S.

Janain Corporation, New York, N. Y. Perfume and cologne. 430,120; June 10; Serial No. 490,491; published Feb. 25, 1947. Class 6.

Janssen, Lee H., doing business as Michigan State Hatchery, Corunna, Mich. Live turkeys. 430,231; June 10; Serial No. 500,393; published Mar. 25, 1947. Class 46.

Johnston Export Publishing Co., New York, N. Y. Monthly publications. 226,592; renewed Apr. 12, 1947. O. G. June 10. Class 38.

Kalamazoo Sled Company, The, Kalamazoo, Mich. Hand sleds. 430,420–1; June 10; Serial Nos. 511,395–6; published Mar. 25, 1947. Class 22.

Karahadian, Kay, Los Angeles, San Francisco, and Thermal, Calif. Fresh grapes. 430,351; June 10; Serial No. 504,906; published Mar. 11, 1947. Class 46.

Katona Medicine Co., The: *See*—
Scott, Tommy.

Kayser, Julius, & Co., New York, N. Y., and elsewhere. Hosiery. 430,480; June 10. Class 39.

Kelco Company, San Diego, Calif. Algin product. 430,364; June 10; Serial No. 505,208; published Mar. 11, 1947. Class 6.

Kemet Laboratories Company, Inc., New York, N. Y. Electric wire of various alloys. 430,107; June 10; Serial No. 488,406; published Apr. 1, 1947. Class 21.

Kinetic Chemicals, Inc., Wilmington, Del. Trifluoromethane or fluoroform, being fluorinated hydrocarbons. 430,410; June 10; Serial No. 509,346; published Mar. 4, 1947. Class 6.

Kinetic Chemicals, Inc., Wilmington, Del. Carbontetrafluoride, being fluorinated hydrocarbons. 430,411; June 10; Serial No. 509,347; published Mar. 4, 1947. Class 6.

Kinetic Chemicals, Inc., Wilmington, Del. Trifluoromethane or fluoroform, being fluorinated hydrocarbons. 430,412; June 10; Serial No. 509,348; published Mar. 4, 1947. Class 6.

Kinghill Laboratories: *See*—
Koenigsberger, Franz.

King of Slacks, Inc., New York, N. Y. Slacks for women. 430,156; June 10; Serial No. 496,032; published Aug. 27, 1946. Class 39.

Knapp, Milton S., Havertown, Pa. Game. 430,255; June 10; Serial No. 501,576; published Mar. 25, 1947. Class 22.

Koch Chemical Co.: *See*—
Koch Products Company.

Koch Products Company, also doing business as Koch Chemical Co., Winona, Minn. Washing compound. 430,499; June 10. Class 4.

Koenigsberger, Franz, doing business as Kinghill Laboratories, New York, N. Y. Bath crystals, bubble bath, perfume, etc. 430,197; June 10; Serial No. 498,775; published Feb. 18, 1947. Class 6.

Krieger, Edward: *See*—
Krieger, Edward, & Co., Inc.

Krieger, Edward & Co., Inc., to E. Krieger, New York, N. Y. Ladies' outer coats. 217,768; renewed Sept. 7, 1946. O. G. June 10. Class 39.

Kroner Laboratories, New York, N. Y. Chemical preparation. 430,187; June 10; Serial No. 497,802; published Feb. 25, 1947. Class 4.

Kuchler-Huhn Company, Inc., Sharon Hill, Pa. Machinery bearings and bushings. 430,489; June 10. Class 23.

Kurtzon, Albert, doing business as Al-K-Co Manufacturers, assignor to Alkco Manufacturing Co., Chicago, Ill. Industrial, store, and household lighting fixtures. 430,381; June 10; Serial No. 506,673; published Mar. 11, 1947. Class 21.

La Paloma, Limitada, Lisbon, Portugal. Canned fish. 430,122–3; June 10; Serial Nos. 490,671–2; published Mar. 11, 1947. Class 46.

Lear Avia, Inc., Piqua, Ohio, now by change of name to Lear, Incorporated. Mechanical driving systems. 430,080; June 10; Serial No. 472,328; published Mar. 4, 1947. Class 23.

Lear, Incorporated: *See*—
Lear Avia, Inc.

Leavitt, John W., Company, Boston, Mass. Popcorn. 430,230; June 10; Serial No. 500,312; published Apr. 1, 1947. Class 46.

Lectrovision Inc., New Rochelle, N. Y. Cathode ray tubes. 430,391; June 10; Serial No. 507,407; published Mar. 11, 1947. Class 21.

Lederle Laboratories, Inc., assignor to American Cyanamid Company, New York, N. Y. Folic acid with iron. 430,268; June 10; Serial No. 502,071; published Feb. 18, 1947. Class 6.

Lee, Martha, Inc., Waco, Tex. Perfumed cream. 430,448; June 10. Class 6.

Lefkowitz, L. J. & M., Inc., to Graceline Handbags, Inc., New York, N. Y. Hand bags. 214,195; renewed June 15, 1946. O. G. June 10. Class 3.

Leland, Benjamin, & Company: *See*—
Anschl, Benjamin.

Le Riche-International, Inc., St. Louis, Mo. Automotive replacement parts. 430,304; June 10; Serial No. 503,519; published Apr. 1, 1947. Class 21.

Les Parfums Verchere (Parfums Jérome) Société à Responsabilité Limitée, St. Honore, Paris. Perfumes, toilet waters, rouge, etc. 430,287; June 10; Serial No. 502,646; published Mar. 4, 1947. Class 6.

Le Tourneau, R. G., Inc., Stockton, Calif. Portable, house form assembly. 430,275; June 10; Serial No. 502,307; published Mar. 11, 1947. Class 23.

Levy, Charles H., Company, New Orleans, La. Men's neckties. 430,478; June 10. Class 39.

Libby, McNeill & Libby, Chicago, Ill. Packaged frozen potatoes. 430,340; June 10; Serial No. 504,622; published Mar. 11, 1947. Class 46.

Lighter-Lite Products, Chicago, Ill. Electric extension cords. 430,133; June 10; Serial No. 492,064; published Mar. 4, 1947. Class 21.

Lilly, Eli, and Company: *See*—
Lilly, Eli & Company.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparations of thiamin chloride. 430,201; June 10; Serial No. 499,248; published Mar. 11, 1947. Class 6.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 430,202; June 10; Serial No. 499,251; published Mar. 11, 1947. Class 6.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 430,233; June 10; Serial No. 500,675; published Mar. 11, 1947. Class 6.

Lilly, Eli, & Company, to Eli Lilly and Company, Indianapolis, Ind. Medicinal fluid extracts, tinctures, solid extracts, etc. 61,924; re-renewed Apr. 9, 1947. O. G. June 10. Class 6.

Lincoln Engineering Company, St. Louis, Mo. Portable and stationary lubricating apparatus. 430,242; June 10; Serial No. 500,989; published Mar. 25, 1947. Class 23.

Lindemann, A. J., & Hoverson Company, Milwaukee, Wis. Electric stoves and ranges and electrical ovens. 430,373; June 10; Serial No. 505,966; published Mar. 25, 1947. Class 21.

Little Manufacturing Corporation, The, New York, N. Y. Young men's and boys' suits, coats, trousers, etc. 430,519; June 10. Class 39.

Live Longer Medicine Company: *See*—
McCandless, Henry L.

London, J., & Co., Philadelphia, Pa. Window curtains, draperies, and bedspreads. 430,157; June 10; Serial No. 496,034; published Mar. 18, 1947. Class 42.

Longo, Cosmo, doing business as The Lonquin Company, Toronto, Ontario, Canada. Hair tonic. 430,283; June 10; Serial No. 502,443; published Mar. 11, 1947. Class 6.

Lonquin Company, The: *See*—
Longo, Cosmo.

Lorraine Frocks, Chicago, Ill. Women's and girls' suits and dresses. 430,457; June 10. Class 39.

Luminite Products Corporation: *See*—
Dustan, Frederick P.

Lyk-Nu Company: *See*—
Banks, Al A.

MacCutcheon, George W., to John Wanamaker New York, New York, N. Y. Linen damasks. 58,243; re-renewed Dec. 11, 1946. O. G. June 10. Class 42.

MacGregor & Co.: *See*—
McGregor, Thorvald H.

Malt-Diastase Company, Brooklyn, N. Y. Malt extract. 61,995; re-renewed Apr. 16, 1947. O. G. June 10. Class 48.

Mandelbaum, Henry, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. Serial No. 430,541; June 10. Class 39.

Marchand, O., Inc., New York, N. Y. Watches and parts thereof. 430,534; June 10. Class 27.

Marie Richelieu Parfum Odesant, Inc., New York, N. Y. Toilet water and perfume. 430,119; June 10; Serial No. 490,454; published Feb. 25, 1947. Class 6.

Marks, Martin D., Elmira, N. Y. Pianos and organs. 58,725; re-renewed Dec. 25, 1946. O. G. June 10. Class 36.

Marshall Field & Company, Chicago, Ill. Cotton voile in the piece. 220,753; renewed Nov. 16, 1946. O. G. June 10. Class 42.

Marshall Field & Company, Chicago, Ill. Cotton voile in the piece. 220,838; renewed Nov. 16, 1946. O. G. June 10. Class 42.

Martini Frocks, New York, N. Y. Clothing for women, misses, and girls. 430,454; June 10. Class 39.

Mavest, Inc., New York, N. Y. Women's and men's suits, coats, and pants. 430,490; June 10. Class 39.

McCandless, Henry L., doing business as Live Longer Medicine Company, Longview, Tex. Liniment. 430,130; June 10; Serial No. 491,869; published Mar. 11, 1947. Class 6.

McCarthy & Simon, Inc., New York, N. Y. Piece goods. 430,497; June 10. Class 42.

McCormick & Co., Incorporated, Baltimore, Md. Insecticidal shampoo, flea and tick killer, wall and screen spray. 430,266; June 10; Serial No. 501,996; published Mar. 11, 1947. Class 6.

McDonald, Jesse D., Enid, Okla. Sandwiches. 430,310; June 10; Serial No. 503,658; published Apr. 1, 1947. Class 46.

McGill Manufacturing Company, Inc., Valparaiso, Ind. Electric-light switches. 218,361; renewed Sept. 28, 1946. O. G. June 10. Class 21.

McGregor, Thorvald H., doing business as MacGregor & Co., New York, N. Y. Cold cream, finishing and beautifying cream, vitamin D cream, etc. 430,472; June 10. Class 6.

McJunkin, Herbert H., doing business as Cle Products Company, Dallas, Tex. Dry compound for general washing and cleaning. 430,182; June 10; Serial No. 497,618; published Mar. 11, 1947. Class 4.

McJunkin, Herbert H., doing business as Cle Products Company, Dallas, Tex. Dry compound. 430,476; June 10. Class 4.

Mead Corporation, The: *See*—
Dill & Collins Co.

Meadows Manufacturing Co., The, Bloomington, to Electric Household Utilities Corporation, Chicago, Ill. Washing machines. 226,309; renewed Apr. 5, 1947. O. G. June 10. Class 24.

Melori Shoe Corp., Boston, Mass. Women's shoes. 430,527; June 10. Class 39.

Mendelson, L., Co., New York, N. Y. Face and body powders and creams and lipsticks. 430,475; June 10. Class 6.

Mendelson, Palmer C., Co., San Francisco, Calif. Fresh deciduous fruits and fresh vegetables. 430,329; June 10; Serial No. 504,374; published Apr. 1, 1947. Class 46.

Mennen Company, The, Newark, N. J. Hair dressing. 430,278–9; June 10; Serial Nos. 502,387–8; published Mar. 11, 1947. Class 6.

Metzner, Alfred S., doing business as National Products Company, Orlando, Fla. Insecticidal crayon. 430,510; June 10. Class 6.

Michigan State Hatchery: *See*—
Janssen, Lee H.

Micromatic Hone Corporation, Detroit, Mich. Honing stones. 430,078; June 10; Serial No. 468,620; published Mar. 18, 1947. Class 4.

Midland Company, The, South Milwaukee, Wis. Seeders, combination seeders, and cultivators, etc. 430,280; June 10; Serial No. 502,392; published Mar. 25, 1947. Class 23.

Mid-West Popcorn Company, Omaha, Nebr. Popcorn. 430,204; June 10; Serial No. 499,340; published Mar. 25, 1947. Class 46.

Miller, Charles N., Co., Boston, Mass. Candy. 225,038; renewed Mar. 8, 1947. O. G. June 10. Class 46.

Minnesota Valley Canning Company, Le Sueur, Minn. Canned peas. 430,186; June 10; Serial No. 497,733; published Apr. 1, 1947. Class 46.

Mittineague Paper Company, Mittineague, to Strathmore Paper Company, West Springfield, Mass. Writing papers. 29,613; re-renewed Mar. 2, 1947. O. G. June 10. Class 37.

Molassine Company Limited, The: *See*—
Molassine Company, Ld., The.

Molassine Company, Ld., The, to The Molassine Company Limited, London, England. Prepared food and compounds. 55,827; re-renewed Aug. 21, 1946. O. G. June 10. Class 46.

Mol-La Laboratories, New York, N. Y. Medicinal preparation. 430,135; June 10; Serial No. 492,508; published Feb. 25, 1947. Class 6.

Mol-La Laboratories, New York, N. Y. Medicinal preparation. 430,136; June 10; Serial No. 492,510; published Feb. 25, 1947. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Chemicals having fungicidal and preservative properties for use in textiles, etc. 430,253; June 10; Serial No. 501,523; published Feb. 18, 1947. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Chemical products. 430,377; June 10; Serial No. 506,252; published Mar. 11, 1947. Class 6.

Moran, R. J., Co., Boston, Mass. Vitamin tonic. 430,161; June 10; Serial No. 496,257; published July 2, 1946. Class 6.

Moto Products Co., Chicago, Ill. Hydraulic automobile jacks. 430,239; June 10; Serial No. 500,893; published Feb. 25, 1947. Class 23.

Mutual International Corporation, New York, N. Y. Toy phonographs. 430,430; June 10; Serial No. 515,720; published Mar. 25, 1947. Class 22.

N. V. Cigarettes Import Company (Sigaretten Import Maatschappij), The Hague, Netherlands. Cigarettes. 430,341; June 10; Serial No. 504,628; published Mar. 18, 1947. Class 17.

Narrow Fabric Co., Reading and West Reading, Pa. Narrow woven and braided elastics. 224,490; renewed Mar. 1, 1947. O. G. June 10. Class 40.

National Ignition Manufacturing Company, Inc., New York, N. Y. Distributor contact points, distributor rotors, distributor leads, etc. 430,409; June 10; Serial No. 509,097; published Apr. 1, 1947. Class 21.

National Industrial Service Association, Inc., St. Louis, Mo. Rebuilt electric motors. 430,330; June 10; Serial No. 504,503; published Mar. 11, 1947. Class 21.

National Metal Products Company, Kansas City, Mo. Power driven mowing machine. 430,331; June 10; Serial No. 504,504; published Mar. 25, 1947. Class 23.

National Model Railroad Association, Detroit, Mich. Model miniature railroads and parts thereof and accessories therefor. 430,104; June 10; Serial No. 486,327; published Mar. 25, 1947. Class 22.

National Products Company: *See*—
Metzner, Alfred S.

National Sportsman, Inc., Boston, Mass. Monthly magazine. 226,484; renewed Apr. 12, 1947. O. G. June 10. Class 38.

Naumkeag Steam Cotton Company, Salem, Mass. Cotton sheetings. 56,731; re-renewed Oct. 16, 1946. O. G. June 10. Class 42.

Naumkeag Steam Cotton Company, Salem, Mass. Cotton sheetings. 56,775; re-renewed Oct. 16, 1946. O. G. June 10. Class 42.

Navasky, Charles, & Co., Philipsburg, Pa. Men's and boys' shirts, suits, leisure jackets, etc. 430,494; June 10. Class 39.

Nebraska Clothing Company, Omaha, Nebr. Men's and boys' coats, suits, and hosiery. 223,765; renewed Feb. 8, 1947. O. G. June 10. Class 39.

Nelpin Manufacturing Co. Inc., Long Island City, N. Y. Electric soldering irons. 430,261; June 10; Serial No. 501,680; published Apr. 1, 1947. Class 21.

New England Carbide Tool Co., Inc., Cambridge, Mass. Carbide tipped rotary bits. 430,271; June 10; Serial No. 502,229; published Apr. 1, 1947. Class 23.

New England Confectionery Company, Cambridge, Mass. Candy. 430,127; June 10; Serial No. 491,168; published Mar. 25, 1947. Class 46.

Newton, Chambers & Company Limited, near Sheffield, England. Perfumed soaps, liquid soaps, medicated soaps, etc. 430,243; June 10; Serial No. 501,000; published Mar. 4, 1947. Class 4.

Nielco Products Co.: *See*—
Neilsen, Claudius.

Nielsen, Claudius, doing business as Nielco Products Co., Detroit, Mich. Cleansing compound. 221,657; renewed Dec. 7, 1946. O. G. June 10. Class 4.

Northrop Aircraft, Inc., Hawthorne, Calif. Airplanes and parts thereof. 430,131; June 10; Serial No. 491,877; published Mar. 18, 1947. Class 19.

Northrop Aircraft, Inc., Hawthorne, Calif. Airplanes. 430,434; June 10. Class 19.

Norton, Alfred, Ltd., New York, N. Y. Men's and women's suits, vests, coats, etc. 430,498; June 10. Class 39.

Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Anesthetics, chemotherapeutic agents, hypnotics, etc. 430,414; June 10; Serial No. 509,868; published Mar. 11, 1947. Class 6.

Nylosh Corporation, Boston, Mass. Washing compound for nylon articles. 430,288; June 10; Serial No. 502,661; published Mar. 18, 1947. Class 4.

Oakes & Company, also doing business as Tru-Test, assignor to Oakes & Company, Chicago, Ill. Tools. 430,085; June 10; Serial No. 480,616; published Feb. 25, 1947. Class 23.

Oakes & Company, assignor to Oakes & Company, Chicago, Ill. Axminster and Wilton broadloom and border rugs, wool broadloom rugs, etc. 430,199; June 10; Serial No. 498,923; published Mar. 18, 1947. Class 42.

O'Hanlon, Wm., & Co., Limited, Manchester, England. Cotton piece goods. 430,326; June 10; Serial No. 504,284; published Mar. 18, 1947. Class 42.

Ohio Chemical & Mfg. Co., The: *See*—
Hospital Supply Company, The.

Ohio Chemical & Mfg. Co., The, Cleveland, Ohio. Sterilizers, appliances, and dressings. 430,164; June 10; Serial No. 496,727; published Mar. 25, 1947. Class 44.

Oiltrol Company, Denver, Colo. Automatic pressure-actuated electric switch. 430,281; June 10; Serial No. 502,400; published Mar. 18, 1947. Class 21.

Okonite-Callender Cable Company, Incorporated, The, Paterson, N. J. Mineral oil. 225,457; renewed Mar. 22, 1947. O. G. June 10. Class 6.

Okonite Company, The, Passaic, N. J. Electric insulating tape. 430,256; June 10; Serial No. 501,588; published Mar. 25, 1947. Class 21.

Old Smoky Sales Co., Los Angeles, Calif. Salad dressings. 430,322; June 10; Serial No. 504,062; published Mar. 11, 1947. Class 46.

Oliver, E. L.: *See*—
Oliver, Emilia L.

Oliver, Emilia L., doing business as E. L. Oliver, Nogales, Ariz. Fresh vegetables. 430,165; June 10; Serial No. 496,729; published Nov. 12, 1946. Class 46.

Onyx Oil & Chemical Company, Jersey City, N. J. Disinfectant and also a substance having the property of promoting the dispersion of water in certain substances. 430,247; June 10; Serial No. 501,195; published Mar. 11, 1947. Class 6.

Ormont Drug & Chemical Co. Inc., Long Island City, N. Y. Rubbing alcohol, liniments, medicated ointments. 223,347; renewed Feb. 1, 1947. O. G. June 10. Class 6.

Osborn Manufacturing Company, The, Cleveland, Ohio. Wire brushes forming parts of industrial machines. 430,118; June 10; Serial No. 490,441; published Mar. 25, 1947. Class 23.

Packers Canning Company: *See*—
Hirsch, Clement L.

Pal Blade Co., Inc., New York, N. Y. Razor blades. 430,337; June 10; Serial No. 504,576; published Mar. 25, 1947. Class 23.

Pamar Manufacturing Co., Los Angeles and Arroyo Grande, Calif. Cleaning compounds. 430,174; June 10; Serial No. 497,191; published Mar. 11, 1947. Class 4.

Parfums Barroche, Inc., New York, N. Y. Perfumes. 430,300; June 10; Serial No. 503,385; published Feb. 25, 1947. Class 6.

Parfums Evyan Co.: *See*—
Westall, Evelyn.

Parfums Nattier S. A., Paris, France. Perfumes, toilet waters, rouge, etc. 430,112; June 10; Serial No. 489,482; published Feb. 25, 1947. Class 6.

Park, Tracy S., Houston, Tex. Golf clubs. 430,383; June 10; Serial No. 506,765; published Mar. 25, 1947. Class 22.

Parke, Davis & Company, Detroit, Mich. Vitamin preparation. 430,332; June 10; Serial No. 504,508; published Mar. 4, 1947. Class 6.

Parker Pipe Company, Limited, The, London, England. Tobacco pipes, tobacco pouches, ornamental tobacco boxes and jars, etc. 430,153; June 10; Serial No. 495,620; published Apr. 1, 1947. Class 8.

Parker House Sausage Co., Chicago, Ill. Sausage. 430,075; June 10; Serial No. 448,949; published Apr. 1, 1947. Class 46.

Parker House Sausage Co., Chicago, Ill. Sausage. 430,076; June 10; Serial No. 449,727; published Apr. 1, 1947. Class 46.

Patons & Baldwins, Limited, Alloa, Scotland, and Halifax, England, to Patons & Baldwins, Limited, Halifax, England. Yarns. 221,438; renewed Nov. 30, 1946. O. G. June 10. Class 43.

Pauson & Company, San Francisco, Calif. Men's and boys' suits, overcoats, and topcoats. 430,509; June 10. Class 39.

Pedinol Products Co.: *See*—
Goldwag, Harry L.

Peerless Confection Company, Chicago, Ill. Candy. 430,465; June 10. Class 46.

Peerless Products Co., Memphis, Tenn. Automobile jack. 430,495; June 10. Class 23.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Acids. 430,295; June 10; Serial No. 503,121; published Feb. 18, 1947. Class 6.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Misses', and girls' dresses, coats, skirts, and blouses. 430,479; June 10. Class 39.

Peppy Footwear, Inc., New York, N. Y. Shoes and slippers. 430,487; June 10. Class 39.

Perfecut Scissors Co., Oklahoma City, Okla. Scissors. 430,282; June 10; Serial No. 502,406; published Apr. 1, 1947. Class 23.

Peritz, Ernst, doing business as Delex Products, New York, N. Y. Concentrated mouth wash. 430,139; June 10; Serial No. 492,950; published June 18, 1946. Class 6.

Pharmaceutical Organics, Inc., New York, N. Y. Medicinal preparation. 430,353; June 10; Serial No. 505,002; published Mar. 11, 1947. Class 6.

Pictsweet Foods, Inc., Mount Vernon, Wash. Canned peas. 430,513–15; June 10. Class 46.

Pilot Radio Corporation, New York, N. Y. Condensers, jacks, plugs, etc. 430,431; June 10; Serial No. 517,795; published Apr. 1, 1947. Class 21.

Piper Aircraft Corporation, Lock Haven, Pa. Airplanes and structural parts thereof. 430,222; June 10; Serial No. 500,123; published Mar. 25, 1947. Class 19.

Piru Citrus Association, Piru, Calif. Fresh citrous fruits. 226,547; renewed Apr. 12, 1947. O. G. June 10. Class 46.

Pitman-Moore Co.: *See—*
Pitman-Myers Company.

Pitman-Myers Company, to Allied Laboratories, Inc., doing business as Pitman-Moore Co., Indianapolis, Ind. Ointments. 61,758; re-renewed Apr. 2, 1947. O. G. June 10. Class 6.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints, paint primers, paint enamels, etc. 430,248; June 10; Serial No. 501,197; published Mar. 11, 1947. Class 16.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints, paint primers, paint enamels, etc. 430,264; June 10; Serial No. 501,774; published Mar. 11, 1947. Class 16.

Plymouth Cordage Company, Plymouth, Mass. Binder twine. 430,291; June 10; Serial No. 502,840; published Mar. 25, 1947. Class 7.

Polaris Products, Inc., Milwaukee, Wis. Wrenches. 430,520; June 10. Class 23.

Pompeian Olive Oil Corporation: *See—*
American Mayonnaise Corporation.

Pond Garden Tractor Company: *See—*
Pond, Harold E.

Pond, Harold E., doing business as Pond Garden Tractor Company, Ravenna, Ohio. Rotary type garden tractors. 430,113; June 10; Serial No. 489,676; published Mar. 25, 1947. Class 23.

Porter Chemical Company, The, Hagerstown, Md. Airplane toys. 430,203; June 10; Serial No. 499,275; published Apr. 1, 1947. Class 22.

Pottgieser, Joseph, doing business as San Jose Ointment Co., San Jose, Calif. Massage oil. 430,531; June 10. Class 6.

Precision Diamond Tool Co.: *See—*
Taeyaerts, Jan.

Precision Diamond Tool Company, assignee: *See—*
Taeyaerts, Jan.

Precision Tool and Gage Co., Monterey Park, Calif. Scissor sharpening abrasive stone and holder therefor. 430,183; June 10; Serial No. 497,627; published Mar. 25, 1947. Class 4.

Premier Popcorn Association, doing business as Premier Popcorn Co., Maple Park, Ill. Popcorn. 430,111; June 10; Serial No. 488,773; published Mar. 25, 1947. Class 46.

Premier Popcorn Co.: *See—*
Premier Popcorn Association.

Primrose House, Inc., New York, N. Y. Lipstick, nail polish, rouge, etc. 430,318; June 10; Serial No. 503,937; published Mar. 11, 1947. Class 6.

Prince, Harry, doing business as Royal Chemical Products Co., Troy, N. Y. Rug shampoo and upholstery cleaner. 430,276; June 10; Serial No. 502,327; published Mar. 11, 1947. Class 4.

Priscilla Worsted Mills, Inc., Thornton, R. I. Worsted and wool yarn. 226,551–3; renewed Apr. 12, 1947. O. G. June 10. Class 43.

Pronto Company, The: *See—*
Bienvenu, René J.

Purex Corporation, Ltd., South Gate, Calif. Cleanser in powdered form. 430,422; June 10; Serial No. 511,831; published Feb. 4, 1947. Class 4.

Pushin Grease Dispenser Company, Chicago, Ill. Lubricating grease sold in a collapsible dispenser-container. 430,468; June 10. Class 15.

Quackenbush Company: *See—*
Allied Stores Corporation.

Quality Products, Inc., La Feria, Tex. Dried citrus pulp for use in stock feeds, and dried mixed stock feeds. 430,292; June 10; Serial No. 503,001; published Mar. 11, 1947. Class 46.

Radway & Company, to Radway & Co., Inc., New York, N. Y. Remedy for rheumatism, neuralgia, nervous complaints, etc. 61,955; re-renewed Apr. 9, 1947. O. G. June 10. Class 6.

Radway & Co. Inc.: *See—*
Radway & Company.

Raetsch, E. R., doing business as E. R. Raetsch and Assoc., Chicago, Ill. Paper cutting knives. 430,150; June 10; Serial No. 495,504; published Apr. 1, 1947. Class 23.

Raetsch, E. R., and Assoc.: *See—*
Raetsch, E. R.

Ranger-Tennere, Inc., New York, N. Y. Watch straps. 430,149; June 10; Serial No. 495,329; published Apr 1, 1947. Class 40.

Ravon Company, The, Tullahomo, Tenn. Buttons. 430,405; June 10; Serial No. 508,821; published Mar. 25, 1947. Class 40.

Rayell Co., Inc., The, New York, N. Y. Costume jewelry and precious metal jewelry. 430,504; June 10. Class 28.

Raymond Laboratories, Inc., St. Paul, Minn. Hair shampoos, hair rinses, and hair waving lotions. 430,109; June 10; Serial No. 488,669; published Sept. 10, 1946. Class 6.

Real Sport Clothing Company, to Samuel Caplin, doing business as Real Sport Clothing Company, Philadelphia, Pa. Coats, riding breeches, and knickerbockers, etc. 225,178; renewed Mar. 15, 1947. O. G. June 10. Class 39.

Reed, Roland, Oskland, Calif. Seed tubers. 430,433; June 10. Class 1.

Reine Inc., New York, N. Y. Perfume, toilet water, and colognes. 430,505; June 10. Class 6.

Remington Arms Company, New York and Ilion, N. Y., to Remington Arms Company, Inc., Bridgeport, Conn. Shot-guns, pistols, revolvers, etc. 60,248; re-renewed Jan. 29, 1947. O. G. June 10. Class 9.

Remington Arms Company, Inc.: *See—*
Remington Arms Company.

Republic Precision Mfg. Co., Chicago, Ill. Toy metal furniture sets. 430,138; June 10; Serial No. 492,791; published Mar. 25, 1947. Class 22.

Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic resinous materials and solutions thereof. 430,396; June 10; Serial No. 507,847; published Apr. 1, 1947. Class 5.

Ries, Jacob, to Jacob Ries Bottling Works, Inc., Shakopee, Minn. Mineral waters. 61,278; re-renewed Mar. 12, 1947. O. G. June 10. Class 45.

Ries, Jacob, Bottling Works, Inc.: *See—*
Ries, Jacob.

Riggs Optical Company-Consolidated, Omaha, Nebr., to Riggs Company-Consolidated, Chicago, Ill. Spectacles. 225,419; renewed Mar. 15, 1947. O. G. June 10. Class 26.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Oxford shirting fabrics. 430,327; June 10; Serial No. 504,296; published Mar. 18, 1947. Class 42.

Riverside Wood Products Company: *See—*
Beard, Joseph D.

Roesch and Rhodes, Clarence Center, N. Y. Live and dressed poultry. 430,354; June 10; Serial No. 505,009; published Mar. 18, 1947. Class 46.

Rolla Ball Pen Corporation, New York, N. Y. Fountain pens. 430,538; June 10. Class 37.

Rosenberg, David, New York, N. Y. Liquid plastic skin coating. 430,142; June 10; Serial No. 493,695; published June 25, 1946. Class 6.

Royal Chemical Products Co.: *See—*
Prince, Harry.

Royal Worcester Corset Co., to Royal Worcester Corset Co., Worcester, Mass. Corsets. 50,338–9; re-renewed Mar. 13, 1946. O. G. June 10. Class 39.

Rubenstein, Joseph, Chicago, Ill. Perfumes. 430,180; June 10; Serial No. 497,570; published Mar. 11, 1947. Class 6.

Rubinstein, Helena, Inc., New York, N. Y. Preparation for protecting, cleansing, bleaching, etc. 430,232; June 10; Serial No. 500,419; published Mar. 11, 1947. Class 6.

Russell Hosiery Mill, Star, N. C., and New York, N. Y. Hosiery. 430,450; June 10. Class 39.

Russell-Miller Milling Co., to Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour. 230,237–8; renewed July 19, 1947. O. G. June 10. Class 46.

Saco-Moc Shoe Corporation, Portland, Maine. Moccasins and shoes of leather or fabric or of combinations. 430,453; June 10. Class 39.

Sagona, Frank M., doing business as Scharmouché Parfum Labs., Chicago and Rockford, Ill. Perfumes, cologne, toilet water, etc. 430,167; June 10; Serial No. 496,864; published Feb. 25, 1947. Class 6.

St. Lawrence Chemical Company, Inc., Ogdensburg, N. Y. Wettable dispersing insecticide powder. 430,206; June 10; Serial No. 499,443; published Feb. 25, 1947. Class 6.

San Jose Ointment Co.: *See—*
Pottgieser, Joseph.

Sayles Finishing Plants, Inc.: *See—*
Sayles, Frank A.

Sayles, Frank A., Saylesville, R. I., to Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y. Finished cloths. 29,815; re-renewed Apr. 13, 1947. O. G. June 10. Class 42.

Scharmouché Parfum Labs.: *See—*
Sagona, Frank M.

Scherb Novelty Co., Huntington Park, Calif. Hair ornaments of non-precious metal or metals or non-precious stones or plastics. 430,240; June 10; Serial No. 500,905; published Mar. 18, 1947. Class 40.

Schnier, I. F., doing business as I. F. Schnier Company, San Francisco, Calif. Orange juice, canned sardines, coffee, etc. 430,093; June 10; Serial No. 483,743; published Mar. 18, 1947. Class 46.

Schnier, I. F., Company: *See—*
Schnier, I. F.

Schoen Brothers, Inc., Atlanta, Ga. Fertilizers. 226,521; renewed Apr. 12, 1947. O. G. June 10. Class 10.

Schrade-Walden Cutlery Corp., Walden, N. Y. Pen knives, pocket knives, paring knives, etc. 430,530; June 10. Class 23.

Scott, Tommy, doing business as The Katona Medicine Co., Toccoa, Ga. Laxative compound. 430,466; June 10. Class 6.

Security Mfg. Co.: *See—*
Canter, George.

Selby Shoe Company, The: *See—*
Burt, E. W., & Co., Inc.

Sensenbrenner, A., Sons, Los Angeles, Calif. Cigars. 430,296–7; June 10; Serial Nos. 503,223–4; published Apr. 1, 1947. Class 17.

Seven Seas Trading Corp., Los Angeles, Calif. Multiple vitamin product. 430,323; June 10; Serial No. 504,072; published Mar. 11, 1947. Class 6.

Sexauer, J. A., Mfg. Co., Inc., New York, N. Y. Nonmetallic faucet cushions and washers. 224,528; renewed Mar. 1, 1947. O. G. June 10. Class 35.

Sharma, J. N., Los Angeles, Calif. Chemically prepared ice. 430,234; June 10; Serial No. 500,706; published Mar. 18, 1947. Class 1.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation for use in the treatment of the circulatory system. 430,298; June 10; Serial No. 503,265; published Feb. 18, 1947. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antigenic preparation. 430,355; June 10; Serial No. 505,016; published Mar. 11, 1947. Class 6.

Sheldon, Edward E., New York, N. Y. Fluoroscopes. 430,172; June 10; Serial No. 496,990; published Apr. 1, 1947. Class 44.

Shell Oil Company, Incorporated, San Francisco, Calif. Insecticide. 430,462; June 10. Class 6.

Shepard Elevator Company, The, Cincinnati, Ohio. Elevator parts. 430,166; June 10; Serial No. 496,734; published Apr. 1, 1947. Class 21.

Shepherd, Imogene, Ltd., Chicago, Ill. Nail oil. 430,315; June 10; Serial No. 503,833; published Mar. 4, 1947. Class 6.

Sherman Paper Products Corporation, Newton, Mass. Paperboard packaging tube. 430,168; June 10; Serial No. 496,868; published Mar. 25, 1947. Class 2.

Shoes Associated, Inc., New York, N. Y. Shoes. 430,488; June 10. Class 39.

Shurebite Inc., Bronson, Mich. Fish lures. 430,419; June 10; Serial No. 511,248; published Mar. 25, 1947. Class 22.

Sitroux Inc., New York, N. Y. Hair rolls. 430,171; June 10; Serial No. 496,930; published Apr. 1, 1947. Class 40.

Slater Manufacturing Co., Inc.: *See—*
Slater, S., & Sons, Inc.

Slater, S., & Sons, Inc., Webster, Mass., to Slater Manufacturing Co., Inc., Slater, S. C., and Greensboro, N. C. Cotton piece goods. 216,101; renewed Aug. 3, 1946 O. G. June 10. Class 42.

Sleep Shade Co.: *See—*
Hemphill, Edward C.

Smith, Benjamin D., doing business as Smith Manufacturing Company, Utica, N. Y. Insecticides. 430,526; June 10. Class 6.

Smith Manufacturing Company: *See—*
Smith, Benjamin D.

Smoker, Isaac Z., Intercourse, Pa. Automatic bale loaders. 430,439; June 10. Class 23.

Snowdon, Inc., Des Moines, Iowa. Women's and children's play suits, sun suits, rompers, etc. 430,471; June 10. Class 39.

Societe Anonyme de Diffusion Internationale de Parfumerie, Paris, France. Perfumes, toilet creams, and dentifrices. 430,486; June 10. Class 6.

Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris and Asnieres, France. Perfumes. 430,427; June 10; Serial No. 515,201; published Feb. 25, 1947. Class 6.

Sock-It Company, The, High Point, N. C. Toy tops. 430,429; June 10; Serial No. 515,686; published Mar. 25, 1947. Class 22.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Composition for cleaning machinery. 430,188; June 10; Serial No. 497,884; published Feb. 25, 1947. Class 4.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Liquid petroleum gases. 430,345; June 10; Serial No. 504,707; published Mar. 11, 1947. Class 6.

Sorver, McEvoy & Co., Philadelphia, Pa. Coffee, tea, cocoa, and rice. 220,552; renewed Nov. 9, 1946. O. G. June 10. Class 46.

Sosin, Walter S., doing business as Walstan Co., New York, N. Y. Cologne. 430,483; June 10. Class 6.

Soundrite Corporation, Holyoke, Mass. Electric table lamps. 430,402; June 10; Serial No. 508,496; published Apr. 1, 1947. Class 21.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 430,250; June 10; Serial No. 501,415; published Mar. 25, 1947. Class 2.

Spalding, A. G., & Bros. Inc.: *See—*
Wright & Ditson.

Sparger, G. W., doing business as Puny Sparger, Ardmore, Okla. Salad dressing. 430,094; June 10; Serial No. 483,797; published Mar. 18, 1947. Class 46.

Sparger, Puny: *See—*
Sparger, G. W.

Spinnerin Yarn Co., Inc., New York, N. Y. Yarn. 430,404; June 10; Serial No. 508,674; published Mar. 18, 1947. Class 43.

Sprague Mfg. Co. Inc., The, Lyndhurst, N. J. Automatic music boxes and parts thereof. 430,508; June 10. Class 36.

Standard Brands Incorporated: *See—*
Chase & Sanborn.

Standard Brands Incorporated, New York, N. Y. Food flavoring or seasoning composition. 430,537; June 10. Class 46.

Standard Cap and Seal Corporation, Chicago, Ill. Flexible moisture proof composition bags. 430,178; June 10; Serial No. 497,345; published Mar. 25, 1947. Class 2.

Standard Growers Exchange, Orlando, Fla., to Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh oranges and grapefruit. 217,066–7; renewed Aug. 24, 1946. O. G. June 10. Class 46.

Standard Growers Exchange, Orlando, Fla., to Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh fruits and vegetables. 222,575; renewed Jan. 4, 1947. O. G. June 10. Class 46.

Standard Laboratories, Inc., assignor to Standard Laboratories, Inc., New York, N. Y. Hair dressings. 430,106; June 10; Serial No. 487,871; published Mar. 4, 1947. Class 6.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Plasticizers for rubber and other elastomers or plastics. 430,251; June 10; Serial No. 501,419; published Feb. 25, 1947. Class 6.

Stanley Industries: *See—*
Stanley, J. A.

Stanley, J. A., doing business as Stanley Industries, Seattle, Wash. Rodenticides. 430,224; June 10; Serial No. 500,257; published Feb. 4, 1047. Class 6.

Stanley Works, The, New Britain, Conn. Hand planes. 430,101–2; June 10; Serial Nos. 486,223–4; published Mar. 25, 1947. Class 23.

Stanley Works, The, New Britain, Conn. Unitary portable hand operated electric saws, drills, shears, etc. 430,103; June 10; Serial No. 486,228; published Mar. 11, 1947. Class 21.

Stapo Chemical Co., Los Angeles, Calif. Hand cleaner. 430,285; June 10; Serial No. 502,541; published Mar. 11, 1947. Class 4.

Steinberg, Alexander, New York, N. Y. Electrical heating apparatus. 430,235; June 10; Serial No. 500,710; published Mar. 18, 1947. Class 21.

Stenzel Pickle Products: *See—*
Stenzel, Rudolph J.

Stenzel, R., Pickle Products: *See—*
Stenzel, Rudolph J.

Stenzel, Rudolph J., doing business as Stenzel Pickle Products and as R. Stenzel Picgle Products, San Leandro, Calif. Sweet pickles, sweet mixed pickles, dill pickles, etc. 430,533; June 10. Class 46.

Stephens, O. B., doing business as United Oil & Grease Co., Abilene, Tex. Motor, engine, and chassis lubricating oils. 430,443; June 10. Class 15.

Stewart, Robert J., El Paso, Tex. Lubricating oils and greases. 430,521; June 10. Class 15.

Stix, Baer and Fuller Company, St. Louis, Mo. Wearing apparel. 226,306; renewed Apr. 5, 1947. O. G. June 10. Class 39.

Strathmore Paper Company: *See—*
Mittineague Paper Company.

Stuart Industries, Inc., Newton, Mass. Abrasive belt grinders. 430,096; June 10; Serial No. 484,603; published Feb. 25, 1947. Class 23.

Stumpf, Alvin T., doing business as John Stumpf's Son, Gretna, La. Chemical preparation. 430,485; June 10. Class 6.

Stumpf's, John, Son: *See—*
Stumpf, Alvin T.

Sturdimatic Tool Co., Detroit, Mich. Lathe centers. 430,121; June 10; Serial No. 490,511; published Mar. 25, 1947. Class 23.

Style Miss Dress Co., Inc., New York, N. Y. Ladies' and misses' dresses. 430,524; June 10. Class 39.

Sullivan, J., & Sons Manufacturing Company, Philadelphia, Pa., assignor to Continental-United Industries Co., Inc., New York, N. Y. Tapes and bindings. 430,313; June 10; Serial No. 503,771; published Mar. 25, 1947. Class 39.

Surpass Leather Company, Philadelphia, Pa. Shoe and glove leather. 59,625; re-renewed Jan. 15, 1947. O. G. June 10. Class 1.
Swain Nelson Company, Glenview, Ill. Non-telescopic gun sights. 430,175; June 10; Serial No. 497,276; published Feb. 25, 1947. Class 9.
Taeyaerts, Jan, doing business as Precision Diamond Tool Co., assignor to Precision Diamond Tool Company, Chicago, Ill. Abrasives in the form of wheels, disks, belts, etc. 430,077; June 10; Serial No. 460,010; published Mar. 4, 1947. Class 4.
Tanglefoot Company, The, Grand Rapids, Mich. Insecticides. 430,267; June 10; Serial No. 502,035; published Feb. 18, 1947. Class 6.
Taylor, Riley H., doing business as Ace-Lectric Heating Company, Portland, Oreg. Unitary electric air conditioning heating and circulating apparatus. 430,446; June 10. Class 21.
Time Savers: *See—*
    Calder, Caesar A.
Tishman, Lou, Co., Inc., New York, N. Y. Clothing for women. 430,500; June 10. Class 39.
Tradio, Inc., Deal, N. J. Radio and television receiving sets. 430,363; June 10; Serial No. 505,166; published Apr. 1, 1947. Class 21.
Troyke, Alfred A., doing business as Troyke Mfg. Co., Cincinnati, Ohio. Metal work holders and metal rotary tables. 430,191; June 10; Serial No. 498,184; published Apr. 1, 1947. Class 23.
Troyke Mfg. Co.: *See—*
    Troyke, Alfred A.
Trüb & Co., Uster, Zurich, Switzerland. Fibre-blended yarn of wool and cotton, raw or dyed. 430,406; June 10; Serial No. 508,941; published Mar. 18, 1947. Class 43.
Tru-Test: *See—*
    Oakes & Company.
Tuf-Skin Company, The: *See—*
    Greenberg, Sidney.
Tuvaché Co., New York, N. Y. Perfume and bath oil. 430,311; June 10; Serial No. 503,682; published Feb. 25, 1947. Class 6.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns. 430,417; June 10; Serial No. 510,298; published Apr. 1, 1947. Class 43.
Union Wire Rope Corporation, Kansas City, Mo. Wire rope and wire rope cables. 430,400–1; June 10; Serial Nos. 508,452–3; published Mar. 18, 1947. Class 7.
United Oil & Grease Co.: *See—*
    Stephens, O. B.
United States Rubber Company, New York, N. Y. Fungicides. 430,237; June 10; Serial No. 500,846; published Feb. 25, 1947. Class 6.
United States Rubber Company, New York, N. Y. Insecticides. 430,238; June 10; Serial No. 500,847; published Feb. 18, 1947. Class 6.
United States Rubber Company, New York, N. Y. Aromatic chemical perfume base. 430,360; June 10; Serial No. 505,088; published Mar. 11, 1947. Class 6.
U. S. Slicing Machine Company, La Porte, Ind. Bread and meat slicing machines, and mechanical meat tendering machines, etc. 430,451; June 10. Class 23.
Universal Microphone Company: *See—*
    Fouch, James L.
Urban, George, Milling Company, Buffalo, N. Y. Wheat-flour. 61,875–8; re-renewed Apr. 9, 1947. O. G. June 10. Class 46.
Vamos, Alfred, Inc., New York, N. Y. Laminated textile fabrics in the piece. 430,176; June 10; Serial No. 497,280; published Mar. 25, 1947. Class 42.
Van Gieson, David W., New York, N. Y. Electrical illuminated signs. 430,299; June 10; Serial No. 503,269; published Mar. 11, 1947. Class 21.
Vegetabilis Vapor Company, St. Augustine, Fla. Vegetable compound. 430,460; June 10. Class 6.
Ventura Citrus Association, Ventura, Calif. Fresh citrus fruits. 215,499; renewed July 20, 1946. O. G. June 10. Class 46.
Victory Packing Co., assignee: *See—*
    Hirsch, Clement L.
Viking Yarn Mills, Inc., Philadelphia, Pa. Yarn. 430,372; June 10; Serial No. 505,932; published Apr. 1, 1947. Class 43.
Village Green Trailer Company, The, Media, Pa. Trailers. 430,301; June 10; Serial No. 503,403; published Mar. 25, 1947. Class 19.
Virginia Specialty Corporation, Lynchburg, Va. Leg make-up. 430,338; June 10; Serial No. 504,590; published Feb. 18, 1947. Class 6.
Vita Var Corporation, Newark, N. J. Paint enamel. 430,207; June 10; Serial No. 499,677; published Feb. 25, 1947. Class 16.
Vivaudou, V., Inc., Long Island City, N. Y. Sachet. 430,192; June 10; Serial No. 498,362; published Apr. 1, 1947. Class 40.
Von Hausen, Arnold F., Portland, Oreg. Valve tappet screws. 430,324; June 10; Serial No. 504,081; published Mar. 18, 1947. Class 23.
Wallace & Co., New York, to Wallace & Co., Brooklyn, N. Y. Candy. 61,660; re-renewed Apr. 2, 1947. O. G. June 10. Class 46.
Walstan Co.: *See—*
    Sosin, Walter S.
Wanamaker, John, to John Wanamaker Philadelphia, Philadelphia, Pa. Broad silks, dress-silks, and piece silk. 61,493; re-renewed Mar. 26, 1947. O. G. June 10. Class 42.
Wanamaker, John, New York: *See—*
    MacCutcheon, George W.
Wanamaker, John, Philadelphia: *See—*
    Wanamaker, John.
Warren, S. D., Company, Boston, Mass. Printing paper. 226,322; renewed Apr. 5, 1947. O. G. June 10. Class 37.
Washington Iron Works, Seattle, Wash. Tractor-mounted loading crane. 430,551; June 10. Class 23.
Watson, L. S., Manuf'g. Co., to Watson-Williams Mfg. Co., Leicester, Mass. Cards for carding cotton. 59,484; re-renewed Jan. 8, 1947. O. G. June 10. Class 23.
Watson-Williams Mfg. Co.: *See—*
    Watson, L. S., Manuf'g. Co.
Weissberg, Emanuel, Newark, N. J. Fog proofing and cleansing preparation. 430,435; June 10. Class 4.
Wesson Company, Ferndale, Mich. Machine cutting tools and accessories. 430,095; June 10; Serial No. 483,881; published Feb. 25, 1947. Class 23.
Westall, Evelyn, doing business as Parfums Evyan Co., New York, N. Y. Perfume and toilet water. 430,223; June 10; Serial No. 500,154; published Feb. 25, 1947. Class 6.
Western Union Telegraph Company, The, New York, N. Y. Telegraph enciphering and deciphering apparatus. 430,146; June 10; Serial No. 494,379; published Mar. 18, 1947. Class 21.
Westin New Haven Company, Inc., Mount Carmel, Conn. Kayaks. 430,293; June 10; Serial No. 503,028; published Mar. 25, 1947. Class 19.
White, Murray Company, Boston, Mass. Misses' and ladies' dresses. 430,503; June 10. Class 39.
White & Sklar Inc., New York, N. Y. Women's and misses' dresses. 430,518; June 10. Class 39.
Windsor Wax Company, Inc., Hoboken, N. J. Floor wax. 430,241; June 10; Serial No. 500,920; published Mar. 4, 1947. Class 16.
Winthrop Chemical Company, Inc., New York, N. Y. Sulfonamide drug. 430,339; June 10; Serial No. 504,592; published Mar. 11, 1947. Class 6.
Wolf, Jacques, & Co., Clifton, N. J. Mixture of sodium formaldehyde sulfoxylate and leucotrope W for white discharge on indigo dyed goods in textile processing. 430,316; June 10; Serial No. 503,852; published Mar. 4, 1947. Class 6.
Wolf, Jacques, & Co., Clifton, N. J. Sulphonated oil with solvents used as a scouring agent. 430,317; June 10; Serial No. 503,853; published Mar. 4, 1947. Class 6.
Wolf & Klar Wholesale Supply Co., Fort Worth, Tex. Radio receiving sets. 430,463; June 10. Class 21.
Wolf & Klar Wholesale Supply Co., Fort Worth, Tex. Watches and watch movements. 430,464; June 10. Class 27.
Wolf and Scherer, Eatontown, N. J. Wheel dresser tool. 430,270; June 10; Serial No. 502,175; published Apr. 1, 1947. Class 23.
Woolelectra Blanket Mfg. Company, The, Piqua, Ohio. Electrically heated woolen blankets. 430,392; June 10; Serial No. 507,449; published Mar. 11, 1947. Class 21.
Wright & Ditson, Jersey City, N. J., and Boston, Mass., to A. G. Spalding & Bros. Inc., Chicopee, Mass. Implements, apparatus, and articles used in tennis, cricket, golf, etc. 57,086; re-renewed Oct. 30, 1946. O. G. June 10. Class 22.
Yale & Towne Manufacturing Company, The: *See—*
    Yale & Towne Mfg. Co.
Yale & Towne Mfg. Co., The, Stamford, Conn., to The Yale & Towne Manufacturing Company, New York, N. Y. Locks and parts thereof and keys. 61,834; re-renewed Apr. 9, 1947. O. G. June 10. Class 25.
Yale & Towne Mfg. Co., The, Stamford, Conn., to Yale & Towne Manufacturing Company, New York, N. Y. Locks and parts thereof and keys therefor. 61,837; re-renewed Apr. 9, 1947. O. G. June 10. Class 25.
Youcheff, Slav J., assignee: *See—*
    International 3 Out of 5 Corporation.
Youngs Rubber Corporation, New York, N. Y. Prophylactic ruber articles. 430,424; June 10; Serial No. 513,705; published Mar. 18, 1947. Class 44.
Zippo-Copter Company, Longmeadow, Mass. Toy. 430,158; June 10; Serial No. 496,058; published Mar. 25, 1947. Class 22.
Zippo-Coptor Company, Longmeadow, Mass. Toy. 430,159; June 10; Serial No. 496,059; published Mar. 25, 1947. Class 22.
Ziv Steel & Wire Co., Chicago, Ill. Tool steel in bars. 430,307; June 10; Serial No. 503,620; published Apr. 1, 1947. Class 14.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Cattle. Grafe-Callahan Construction Co. 430,144; June 10; Serial No. 494,062; published Apr. 1, 1947.
Fibrous materials. Celluloid Company. 60,449; re-renewed Feb. 12, 1947. O. G. June 10.
Foliage and plants, Natural and cultivated. Ariston, Incorporated. 430,269; June 10; Serial No. 502,115; published Mar. 18, 1947.
Ice, Chemically prepared. J. N. Sharma. 430,234; June 10; Serial No. 500,706; published Mar. 18, 1947.
Leather, Shoe and glove. Surpass Leather Company. 59,625; re-renewed Jan. 15, 1947. O. G. June 10.
Plastics composed in part of pyroxylin or soluble cotton. Celluloid Company. 59,629; re-renewed Jan. 15, 1947; O. G. June 10.
Seed tubers. R. Reed. 430,433; June 10.
Thermo-plastic potting compound. Ernst Bischoff Company, Inc. 430,151; June 10; Serial No. 495,567; published Apr. 1, 1947.

CLASS 2

Bags, Flexible moisture proof composition. Standard Cap and Seal Corporation. 430,178; June 10; Serial No. 497,345; published Mar. 25, 1947.
Bags, Paper. Southern Advance Bag & Paper Co. Inc. 430,250; June 10; Serial No. 501,415; published Mar. 25, 1947.
Box covers, display boxes, containers and fronts for containers. Celanese Corporation of America. 430,184; June 10; Serial No. 497,702; published Mar. 25, 1947.
Nets, Laundry. American Mills Company. 217,017; renewed Aug. 24, 1946. O. G. June 10.
Nets, Laundry. American Mills Company. 217,992; renewed Sept. 14, 1946. O. G. June 10.
Set, Plastic baby feeding. Development Engineering Corporation. 430,370; June 10; Serial No. 505,739; published Apr. 1, 1947.
Shakers, Plastic condiment. Dri-Shaker Products, Inc. 430,492; June 10.
Tube, Paperboard packaging. Sherman Paper Products Corporation. 430,168; June 10; Serial No. 496,868; published Mar. 25, 1947.
Units consisting of metal drums and/or tanks, Service. Agricultural Petroleum Equipment Corporation. 430,365; June 10; Serial No. 505,329; published Apr. 1, 1947.
Vases, handkerchief boxes, face powder boxes, etc., Floral. Croasdale & De Angelis, Incorporated. 430,105; June 10; Serial No. 486,937; published Mar. 25, 1947.

CLASS 3

Bags, Hand. L. J. & M. Lefkowitz, Inc. 214,195; renewed June 15, 1946. O. G. June 10.
Handbags, Ladies'. Codette Manufacturing Company. 430,403; June 10; Serial No. 508,575; published Apr. 1, 1947.
Handbags, Ladies'. Gaybrand Bags Inc. 430,413; June 10; Serial No. 509,702; published Mar. 18, 1947.

CLASS 4

Abrasive stone and holder therefor, Scissor sharpening. Precision Tool and Gage Co. 430,183; June 10; Serial No. 497,627; published Mar. 25, 1947.
Abrasives in the form of wheels, disks, belts, etc. J. Taeyaerts. 430,077; June 10; Serial No. 460,010; published Mar. 4, 1947.
Chemical preparation. Kroner Laboratories. 430,187; June 10; Serial No. 497,802; published Feb. 25, 1947.
Cleaner, Hand. Stapo Chemical Co. 430,285; June 10; Serial No. 502,541; published Mar. 11, 1947.
Cleaning compounds. Pamar Manufacturing Co. 430,174; June 10; Serial No. 497,191; published Mar. 11, 1947.
Cleaning fluids, Dry. E. I. du Pont de Nemours and Company. 430,290; June 10; Serial No. 502,691; published Mar. 18, 1947.
Cleaning preparation. Consolidated Research Co. 430,502; June 10.
Cleaning preparation, Liquid. G. Canter. 430,155; June 10; Serial No. 495,861; published Mar. 25, 1947.
Cleanser in powdered form. Purex Corporation, Ltd. 430,422; June 10; Serial No. 511,831; published Feb. 4, 1947.
Cleansing compound. C. Nielsen. 221,657; renewed Dec. 7, 1946. O. G. June 10, 1947.
Composition for cleaning machinery. Socony-Vacuum Oil Company, Incorporated. 430,188; June 10; Serial No. 497,884; published Feb. 25, 1947.
Compound for general cleaning. Haas-Miller Corporation. 430,254; June 10; Serial No. 501,573; published Mar. 4, 1947.
Detergent, liquid surface cleaner, white tire cleaner, etc., Automobile. A. A. Banks. 430,442; June 10.
Dry compound. H. H. McJunkin. 430,476; June 10.
Dry compound for general washing and cleaning. H. H. McJunkin. 430,182; June 10; Serial No. 497,618; published Mar. 11, 1947.
Fog proofing and cleansing preparation. E. Weissberg. 430,435; June 10.
Liquid preparation. Clorox Chemical Co. 430,265; June 10; Serial No. 501,825; published Mar. 11, 1947.
Liquid preparation for cleaning jewelry. C. E. Eggleton. 430,125; June 10; Serial No. 491,071; published Mar. 25, 1947.
Polish, Shoe. Beau Brummel Polish Corp. 430,148; June 10; Serial No. 494,650; published Oct. 8, 1946.
Polish, Shoe. Bootone Polish Company, Inc. 430,294; June 10; Serial No. 503,049; published Mar. 18, 1947.
Preparation for removing grease. J. R. Ford. 430,245; June 10; Serial No. 501,125; published Mar. 25, 1947.
Shampoo and upholstery cleaner, Rug. H. Prince. 430,276; June 10; Serial No. 502,327; published Mar. 11, 1947.
Soap. E. O. Gillam. 430,198; June 10; Serial No. 498,834; published Mar. 11, 1947.
Soap compound, Medicated. Brown-Vaughan Pharmacal Co. 430,143; June 10; Serial No. 493,914; published Mar. 11, 1947.
Soaps, liquid soaps, medicated soaps, etc. Perfumed. Newton, Chambers & Company Limited. 430,243; June 10; Serial No. 501,000; published Mar. 4, 1947.
Stones, Honing. Micromatic Hone Corporation. 430,078; June 10; Serial No. 468,620; published Mar. 18, 1947.
Washing compound. Koch Products Company. 430,499; June 10.
Washing compound for nylon articles. Nylosh Corporation. 430,288; June 10; Serial No. 502,661; published Mar. 18, 1947.

CLASS 5

Cement and reducer therefor, Belt. Holyoke Belting Company. 430,154; June 10; Serial No. 495,780; published Apr. 1, 1947.
Glue. Brunswick-Balke-Collender Company. 430,426; June 10; Serial No. 514,644; published Apr. 1, 1947.
Synthetic resinous materials and solutions thereof. Resinous Products & Chemical Company. 430,396; June 10; Serial No. 507,847; published Apr. 1, 1947.

CLASS 6

Acid with iron, Folic. Lederle Laboratories, Inc. 430,268; June 10; Serial No. 502,071; published Feb. 18, 1947.
Acids. Pennsylvania Salt Manufacturing Company. 430,295; June 10; Serial No. 503,121; published Feb. 18, 1947.
Alcohol, liniments, medicated ointments, Rubbing. Ormont Drug & Chemical Co. Inc. 223,347; renewed Feb. 1, 1947. O. G. June 10.
Algin product. Kelco Company. 430,364; June 10; Serial No. 505,208; published Mar. 11, 1947.
Aluminum acetate. Applied Chemical Corporation. 430,214; June 10; Serial No. 499,938; published Feb. 18, 1947.
Anesthetics, chemotherapeutic agents, hypnotics, etc. Novocal Chemical Mfg. Co., Inc. 430,414; June 10; Serial No. 509,868; published Mar. 11, 1947.
Antacid preparation. Abbott Laboratories. 430,356–7; June 10; Serial Nos. 505,027–8; published Mar. 11, 1947.
Antigenic preparation. Sharp & Dohme, Incorporated. 430,355; June 10; Serial No. 505,016; published Mar. 11, 1947.
Aromatic chemical perfume base. United States Rubber Company. 430,360; June 10; Serial No. 505,088; published Mar. 11, 1947.
Astringent, Intestinal. H. M. Jacobs. 430,260; June 10; Serial No. 501,668; published Mar. 11, 1947.
Balm, Lip. Elizabeth Arden Sales Corporation. 430,477; June 10.
Bath crystals, bubble bath, perfume, etc. F. Koenigsberger. 430,197; June 10; Serial No. 498,775; published Feb. 18, 1947.
Carbontetrafluoride, being fluorinated hydrocarbons. Kinetic Chemicals, Inc. 430,411; June 10; Serial No. 509,347; published Mar. 4, 1947.
Chemical agent. Geigy Company, Inc. 430,259; June 10; Serial No. 501,662; published Mar. 11, 1947.
Chemical compound. Ferro-Glo Corporation. 430,525; June 10.
Chemical indicator. H. Fleisher. 430,528; June 10.
Chemical preparation. Golden Bear Oil Co. 430,362; June 10; Serial No. 505,102; published Mar. 11, 1947.
Chemical preparation. A. T. Stumpf. 430,485; June 10.
Chemical products. Commanditaire Vennootschap Chemische Fabriek Rids 430,169; June 10; Serial No. 496,886; published Feb. 25, 1947.
Chemical products. Monsanto Chemical Company. 430,377; June 10; Serial No. 506,252; published Mar. 11, 1947.

Chemicals for controlling vulcanization of natural or synthetic rubber. B. F. Goodrich Company. 430,221; June 10; Serial No. 500,077; published Feb. 18, 1947.

Chemicals having fungicidal and preservative properties for use in textiles, etc. Monsanto Chemical Company. 430,253; June 10; Serial No. 501,523; published Feb. 18, 1947.

Chiropodists' supplies. H. L. Goldwag. 223,338; renewed Feb. 1, 1947. O. G. June 10.

Cleaning fluid, Laundry. General Products Co. 430,229; June 10; Serial No. 500,300; published Mar. 11, 1947.

Cologne. W. S. Sosin. 430,483; June 10.

Compound for dehumidification of the air. Davison Chemical Corporation. 430,511; June 10.

Cosmetics. M. Friedman. 430,081; June 10; Serial No. 474,893; published Feb. 25, 1947.

Cosmetics and toilet preparations. Colgate-Palmolive-Peet Company. 430,352; June 10; Serial No. 504,965; published Mar. 11, 1947.

Cream, finishing and beautifying cream, vitamin D cream, etc., Cold. T. H. McGregor. 430,472; June 10.

Creams, cold creams, cleansing creams, etc., Vanishing. Commanditaire Vennootschap Chemische Fabriek Rids. 430,170; June 10; Serial No. 496,888; published Feb. 25, 1947.

Deodorant, after shave lotion, hair tonic, etc. Elmo Sales Corporation. 430,491; June 10.

Deodorant cream. R. J. Bienvenu. 430,367; June 10; Serial No. 505,388; published Mar. 11, 1947.

Descaling preparation, Metal. Cowles Detergent Company. 430,349; June 10; Serial No. 504,823; published Feb. 18, 1947.

Disinfectant and also a substance having the property of promoting the dispersion of water in certain substances. Onyx Oil & Chemical Company. 430,247; June 10; Serial No. 501,195; published Mar. 11, 1947.

Disinfectants and germicides. American Disinfecting Company. 226,045; renewed Mar. 29, 1947. O. G. June 10.

Disinfectants and germicides. American Disinfecting Company. 226,048; renewed Mar. 29, 1947. O. G. June 10.

Dye, Polysoluble leather. American Handicrafts Company—California. 430,210; June 10; Serial No. 499,814; published Feb. 18, 1947.

Dyes and dyestuffs. C. S. Althouse. 430,236; June 10; Serial No. 500,720; published Feb. 25, 1947.

Dyestuffs. American Dyewood Company. 61,191; re-renewed Mar. 5, 1947. O. G. June 10.

Dyestuffs. American Dyewood Company. 220,874; renewed Nov. 16, 1946. O. G. June 10.

Dyestuffs. Geigy Company, Inc. 430,258; June 10; Serial No. 501,658; published Mar. 11, 1947.

Flameproofing of textiles and materials. Eronel Industries. 430,423; June 10; Serial No. 512,247; published Jan. 21, 1947.

Fluid, shock absorbent fluid, preparation for removing rust, etc., Brake. International Metal Polish Co., Inc. 430,090; June 10; Serial No. 483,322; published Feb. 25, 1947.

Fungicides. United States Rubber Company. 430,237; June 10; Serial No. 500,846; published Feb. 25, 1947.

Fungicides, insecticide and germicide. Imperial Chemical Company. 430,284; June 10; Serial No. 502,516; published Mar. 11, 1947.

Haemostatic, antiseptic, and disinfectant, Liquid. Hance Bros. & White Co. 430,213; June 10; Serial No. 499,894; published Feb. 18, 1947.

Hair dressing. Mennen Company. 430,278–9; June 10; Serial Nos. 502,387–8; published Mar. 11, 1947.

Hair dressings. Standard Laboratories, Inc. 430,106; June 10; Serial No. 487,871; published Mar. 4, 1947.

Insecticidal crayon. A. S. Metzner. 430,510; June 10.

Insecticide. Shell Oil Company, Incorporated. 430,462; June 10.

Insecticide powder, Wettable dispersing. St. Lawrence Chemical Company, Inc. 430,206; June 10; Serial No. 499,443; published Feb. 25, 1947.

Insecticides. American Disinfecting Company. 226,042; renewed Mar. 29, 1947. O. G. June 10.

Insecticides. American Disinfecting Company. 226,047; renewed Mar. 29, 1947. O. G. June 10.

Insecticides. Enoz Chemical Company. 430,100; June 10; Serial No. 486,092; published Feb. 25, 1947.

Insecticides. General Chemical Company. 430,217; June 10; Serial No. 500,002; published Oct. 29, 1946.

Insecticides. B. D. Smith. 430,526; June 10.

Insecticides. Tanglefoot Company. 430,267; June 10; Serial No. 502,035; published Feb. 18, 1947.

Insecticides. United States Rubber Company. 430,238; June 10; Serial No. 500,847; published Feb. 18, 1947.

Insecticides and disinfectants. American Disinfecting Company. 226,043; renewed Mar. 29, 1947. O. G. June 10.

Laxative compound. T. Scott. 430,466; June 10.

Leg make-up. Virginia Specialty Corporation. 430,338; June 10; Serial No. 504,590; published Feb. 18, 1947.

Liniment. Garfield Tea Co. 59,225; re-renewed Jan. 1, 1947. O. G. June 10.

Liniment. H. L. McCandless. 430,130; June 10; Serial No. 491,869; published Mar. 11, 1947.

Lipstick, nail polish, rouge, etc. Primrose House, Inc. 430,318; June 10; Serial No. 503,937; published Mar. 11, 1947.

Lipsticks. Avon Products, Inc. 430,523; June 10.

Lipsticks. Botany Worsted Mills. 430,379; June 10; Serial No. 506,502; published Mar. 11, 1947.

Liquid designed for resizing materials. Eaton-Clark Company. 430,211; June 10; Serial No. 499,829; published Feb. 18, 1947.

Liquid petroleum gases. Socony-Vacuum Oil Company, Incorporated. 430,345; June 10; Serial No. 504,707; published Mar. 11, 1947.

Lotion, Greaseless sun tan. Banks & Shorr. 430,458; June 10.

Lotion or wash, Skin. Cosmex Corp. 430,546; June 10.

Lotion, Pile. E. M. Campbell. 430,378; June 10; Serial No. 506,292; published Mar. 11, 1947.

Lotion, Skin. S. Greenberg. 430,484; June 10.

Massage oil. J. Pottgieser. 430,531; June 10.

Medicinal fluid extracts, tinctures, solid extracts, etc. Eli Lilly & Company. 61,924; re-renewed Apr. 9, 1947. O. G. June 10.

Medicinal preparation. Eli Lilly and Company. 430,202; June 10; Serial No. 499,251; published Mar. 11, 1947.

Medicinal preparation. Eli Lilly and Company. 430,233; June 10; Serial No. 500,675; published Mar. 11, 1947.

Medicinal preparation. Mol-La Laboratories. 430,135; June 10; Serial No. 492,508; published Feb. 25, 1947.

Medicinal preparation. Mol-La Laboratories. 430,136; June 10; Serial No. 492,510; published Feb. 25, 1947.

Medicinal preparation. Pharmaceutical Organics, Inc. 430,353; June 10; Serial No. 505,002; published Mar. 11, 1947.

Medicinal preparations. E. Healey. 210,189; renewed Mar. 9, 1946. O. G. June 10.

Medicinal preparations of thiamin chloride. Eli Lilly and Company. 430,201; June 10; Serial No. 499,248; published Mar. 11, 1947.

Mineral oil. Okonite-Callender Cable Company, Incorporated. 225,457; renewed Mar. 22, 1947. O. G. June 10.

Mouth wash, Concentrated. E. Peritz. 430,139; June 10; Serial No. 492,950; published June 18, 1946.

Multi-vitamin preparation for therapeutic use. Hoffmann-La Roche, Inc. 430,209; June 10; Serial No. 499,784; published Feb. 25, 1947.

Oil, Nail. Imogene Shepherd, Ltd. 430,315; June 10; Serial No. 503,833; published Mar. 4, 1947.

Oil with solvents used as a scouring agent, Sulphonated. Jacques Wolf & Co. 430,317; June 10; Serial No. 503,853; published Mar. 4, 1947.

Ointments. Pitman-Myers Company. 61,758; re-renewed Apr. 2, 1947. O. G. June 2.

Parasiticides. California Spray-Chemical Corporation. 430,225; June 10; Serial No. 500,278; published Mar. 11, 1947.

Parasiticides. California Spray-Chemical Corporation. 430,226–8; June 10; Serial Nos. 500,280–2; published Mar. 11, 1947.

Parasiticides. California Spray-Chemical Corporation. 430,346–8; June 10; Serial Nos. 504,743–5; published Mar. 11, 1947.

Perfume. Avon Products, Inc. 430,312; June 10; Serial No. 503,696; published Feb. 25, 1947.

Perfume. Avon Products, Inc. 430,319; June 10; Serial No. 503,966; published Mar. 11, 1947.

Perfume. Irresistible, Inc. 430,467; June 10.

Perfume and bath oil. Tuvaché Co. 430,311; June 10; Serial No. 503,682; published Feb. 25, 1947.

Perfume and cologne. Janain Corporation. 430,120; June 10; Serial No. 490,491; published Feb. 25, 1947.

Perfume and toilet water. E. Westall. 430,223; June 10; Serial No. 500,154; published Feb. 25, 1947.

Perfume, toilet water, and colognes. Reine Inc. 430,505; June 10.

Perfume, toilet water, face powder, etc. Coty, Inc. 219,711; renewed Oct. 19, 1946. O. G. June 10.

Perfumed cream. Martha Lee, Inc. 430,448; June 10.

Perfumes. G. C. Hester. 430,181; June 10; Serial No. 497,608; published Oct. 15, 1946.

Perfumes. Parfums Barroche, Inc. 430,300; June 10; Serial No. 503,385; published Feb. 25, 1947.

Perfumes. J. Rubenstein. 430,180; June 10; Serial No. 497,570; published Mar. 11, 1947.

Perfumes. Societe d'Etudes et d'Expansion de la Parfumerie de Luxe. 430,427; June 10; Serial No. 515,201; published Feb. 25, 1947.

Perfumes, cologne, toilet water, etc. F. M. Sagona. 430,167; June 10; Serial No. 496,864; published Feb. 25, 1947.

Perfumes, toilet creams, and dentifrices. Societe Anonyme de Diffusion Internationale de Parfumerie. 430,486; June 10.

Perfumes, toilet waters, rouge, etc. Charles Edouard, Parfumeur, (Société à Responsabilité Limitée). 430,343; June 10; Serial No. 504,663; published Mar. 11, 1947.

Perfumes, toilet waters, rouge, etc. Charles Edouard, Parfumeur, (Société à Responsabilité Limitée). 430,344; June 10; Serial No. 504,664; published Mar. 11, 1947.

Perfumes, toilet waters, rouge, etc. Les Parfums Verchere (Parfums Jérome) Société à Responsabilité Limitée. 430,287; June 10; Serial No. 502,646; published Mar. 4, 1947.

Perfumes, toilet waters, rouge, etc. Parfums Nattier S. A. 430,112; June 10; Serial No. 489,482; published Feb. 25, 1947.

Pharmaceutical chemical entitled 8-hydroxy-quinoline. Darsyn Laboratories, Inc. 430,334; June 10; Serial No. 504,531; published Mar. 11, 1947.

Plasticizers for rubber and other elastomers or plastics. Standard Oil Company. 430,251; June 10; Serial No. 501,419; published Feb. 25, 1947.

Powder, baby oil, and skin cream, Talcum. Avon Products, Inc. 430,358; June 10; Serial No. 505,034; published Mar. 11, 1947.

Powder, baby oil, and skin cream, Talcum. Avon Products, Inc. 430,359; June 10; Serial No. 505,036; published Mar. 11, 1947.

Powder, Foot. Galen Laboratories. 430,082; June 10; Serial No. 475,203; published Mar. 11, 1947.

Powders and creams and lipsticks, Face and body. L. Mendelson Co. 430,475; June 10.

Preparation for dyeing the hair. Faustino Rodriguez y Garcia. 430,441; June 10.

Preparation for protecting, cleansing, bleaching, etc. Helena Rubinstein, Inc. 430,232; July 10; Serial No. 500,419; published Mar. 11, 1947.

Preparation for the relief of athlete's foot, ringworm, impetigo, etc. R. L. Gaddy. 430,432; June 10.

Preparation for use in the treatment of the circulatory system. Sharp & Dohme, Incorporated. 430,298; June 10; Serial No. 503,265; published Feb. 18, 1947.

Protective coatings and corrosion preventatives, Non-paint corrosion. Bee Chemical Company. 430,129; June 10; Serial No. 491,385; published Feb. 25, 1947.

Remedy for rheumatism, neuralgia, nervous complaints, etc. Radway & Company. 61,955; re-renewed Apr. 9, 1947. O. G. June 10.

Rodenticides. J. A. Stanley. 430,224; June 10; Serial No. 500,257; published Feb. 4, 1947.

Rope and wire rope cables, Wire. Union Wire Rope Corporation. 430,400–1; June 10; Serial Nos. 508,452–3; published Mar. 18, 1947.

Rouge and lipstick. Henri Bendel, Inc. 430,274; June 10; Serial No. 502,256; published Mar. 11, 1947.

Rouge, lipsticks, cake make-ups, etc. Illinois Watch Case Co. 430,089; June 10; Serial No. 482,803; published Feb. 25, 1947.

Salve. Goodwill Industry J. Q. A. Martin, Incorporated. 430,215; June 10; Serial No. 499,949; published Feb. 18, 1947.

Scalp preparation. International 3 Out of 5 Corporation. 430,194; June 10; Serial No. 498,523; published Feb. 25, 1947.

Shampoo, flea and tick killer, wall and screen spray, Insecticidal. McCormick & Co., Incorporated. 430,266; June 10; Serial No. 501,996; published Mar. 11, 1947.

Shampoos, hair rinses, and hair waving lotions, Hair. Raymond Laboratories, Inc. 430,109; June 10; Serial No. 488,669; published Sept. 10, 1946.

Skin coating, Liquid plastic. D. Rosenberg. 430,142; June 10; Serial No. 493,695; published June 25, 1946.

Sodium formaldehyde sulfoxylate and leucotrope W for white discharge on indigo dyed goods in textile processing, Mixture of. Jacques Wolf & Co. 430,316; June 10; Serial No. 503,852; published Mar. 4, 1947.

Starch. Corn Products Refining Company. 430,342; June 10; Serial No. 504,661; published Feb. 18, 1947.

Starch for laundering, Liquid. Hubinger Company. 430,350; June 10; Serial No. 504,899; published Mar. 11, 1947.

Stimulant, Cardiac. E. Bilhuber, Inc. 430,218–19; June 10; Serial Nos. 500,048–9; published Feb. 18, 1947.

Sulfonamide drug. Winthrop Chemical Company, Inc. 430,339; June 10; Serial No. 504,592; published Mar. 11, 1947.

Tablets, Voice and throat. Gaba A. G. 215,324; renewed July 13, 1946. O. G. June 10.

Tablets, Voice and throat. Gaba A. G. 215,331; renewed July 13, 1946. O. G. June 10.

Tocopherols, Natural mixed. S. R. Gordon. 430,482; June 10.

Toilet articles, preparations, and products. B. Anschl. 225,570; renewed Mar. 22, 1947. O. G. June 10.

Toilet water and perfume. Marie Richelieu Parfum Odesant, Inc. 430,119; June 10; Serial No. 490,454; published Feb. 25, 1947.

Toiletries, Men's. Hipsh, Incorporated. 430,455–6; June 10.

Tonic, Hair. C. Longo. 430,283; June 10; Serial No. 502,443; published Mar. 11, 1947.

Tonic, Vitamin. R. J. Moran Co. 430,161; June 10; Serial No. 496,257; published July 2, 1946.

Trifluoromethane or fluoroform, being fluorinated hydrocarbons. Kinetic Chemicals, Inc. 430,410; June 10; Serial No. 509,346; published Mar. 4, 1947.

Trifluoromethane or fluoroform, being fluorinated hydrocarbons. Kinetic Chemicals, Inc. 430,412; June 10; Serial No. 509,348; published Mar. 4, 1947.

Vegetable compound. Vegetabilis Vapor Company. 430,460; June 10.

Vitamin D-iodine combination. Farastan Company. 430,361; June 10; Serial No. 505,099; published Feb. 18, 1947.

Vitamin preparation. Parke, Davis & Company. 430,332; June 10; Serial No. 504,508; published Mar. 4, 1947.

Vitamin product, Multiple. Seven Seas Trading Corp. 430,323; June 10; Serial No. 504,072; published Mar. 11, 1947.

Vitamin supplement. Fort Dodge Laboratories, Inc. 430,216; June 16; Serial No. 499,997; published Mar. 11, 1947.

Wave preparation, Permanent. Gibbs & Company. 430,084; June 10; Serial No. 479,710; published May 1, 1945.

Wetting and cleansing solution, Antiseptic. Barnes-Hind Laboratories. 430,333; June 10; Serial No. 504,527; published Mar. 11, 1947.

CLASS 7

Rope, cord, and twine. American Manufacturing Company. 222,647; renewed Jan. 4, 1947. O. G. June 10.

String or tape, Wrapping. Chicago Printed String Company. 430,415; June 10; Serial No. 509,920; published Mar. 25, 1947.

Tape and ribbon. Chicago Printed String Company. 430,098; June 10; Serial No. 485,524; published Mar. 25, 1947.

Twine and cordage. Empire Twine & Yarn Co. Inc. 430,416; June 10; Serial No. 510,019; published Apr. 1, 1947.

Twine, Binder. Plymouth Cordage Company. 430,291; June 10; Serial No. 502,840; published Mar. 25, 1947.

CLASS 8

Pipes, tobacco pouches, ornamental tobacco boxes and jars, etc., Tobacco. Parker Pipe Company Limited. 430,153; June 10; Serial No. 495,620; published Apr. 1, 1947.

CLASS 9

Gun sights, Non-telescopic. Swain Nelson Company. 430,175; June 10; Serial No. 497,276; published Feb. 25, 1947.

Pistols. Accles & Shelvoke Limited. 430,126; June 10; Serial No. 491,147; published Mar. 4, 1947.

Shot-guns, pistols, revolvers, etc. Remington Arms Company. 60,248; re-renewed Jan. 29, 1947. O. G. June 10.

CLASS 10

Fertilizers. Schoen Brothers, Inc. 226,521; renewed Apr. 12, 1947. O. G. June 10.

CLASS 11

Fluids for lithographic reproductions, lithographic inks, lithographic typewriting ribbons, etc., Ink repellent. Columbia Ribbon and Carbon Manufacturing Company, Inc. 430,108; June 10; Serial No. 488,508; published Feb. 25, 1947.

Ink and inked ribbons. American Multigraph Company. 57,904; re-renewed Dec. 4, 1946. O. G. June 10.

Ink and printing lacquer, Printing. H. J. Heribert. 430,160; June 10; Serial No. 496,139; published Mar. 4, 1947.

Ink, carbon paper, typewriter ribbon and tattooing ink, Fountain pen. Consolidated Cosmetics. 430,252; June 10; Serial No. 501,439; published Mar. 25, 1947.

CLASS 12

Cement. Calaveras Cement Company. 226,367; renewed Apr. 5, 1947. O. G. June 10.

CLASS 14

Die-casting metal and die castings. Doehler-Jarvis Corporation. 430,263; June 10; Serial No. 501,720; published Feb. 25, 1947.

Iron and iron alloys. Darwin & Milner, Inc. 430,189; June 10; Serial No. 497,921; published Apr. 1, 1947.

Metal alloy and castings, Non-ferrous. Doehler-Jarvis Corporation. 430,092; June 10; Serial No. 483,719; published Mar. 25, 1947.

Rods, Bare and coated welding. American Brake Shoe Company. 430,079; June 10; Serial No. 470,552; published Apr. 1, 1947.

Steel in bars, Tool. Ziv Steel & Wire Co. 430,307; June 10; Serial No. 503,620; published Apr. 1, 1947.

Steel sheet and plate, Stainless. Eastern Stainless Steel Corporation. 430,220; June 10; Serial No. 500,066; published Feb. 25, 1947.

Steel, Tool. Columbia Tool Steel Company. 430,286; June 10; Serial No. 502,621; published Mar. 18, 1947.

Steel, Tool. Columbia Tool Steel Company. 430,289; June 10; Serial No. 502,689; published Mar. 4, 1947.

CLASS 15

Grease sold in a collapsible dispenser-container, Lubricating. Pushin Grease Dispenser Company. 430,468; June 10.

Oils and greases, Lubricating. R. J. Stewart. 430,521; June 10.

Oils, Motor, engine and chassis lubricating. O. B. Stephens. 430,443; June 10.

CLASS 16

Enamel, Paint. Vita Var Corporation. 430,207 ; June 10 ; Serial No. 499,677 ; published Feb. 25, 1947.

Paint, aluminum-paint undercoater or primer, Aluminum. Detroit Graphite Company. 224,320 ; renewed Feb. 22, 1947. O. G. June 10.

Paints, paint enamels, japans, etc. H. B. Davis Company. 430,091 ; June 10 ; Serial No. 483,679 ; published Mar. 11, 1947.

Paints, paint primers, paint enamels, etc., Liquid and paste. Pittsburgh Plate Glass Company. 430,248 ; June 10 ; Serial No. 501,197 ; published Mar. 11, 1947.

Paints, paint primers, paint enamels, etc., Liquid and paste. Pittsburgh Plate Glass Company. 430,264 ; June 10 ; Serial No. 501,774 ; published Mar. 11, 1947.

Preparations for polishing wood floors, linoleums, oilcloths, etc. American Disinfecting Company. 226,044 ; renewed Mar. 29, 1947. O. G. June 10.

Product composed of carbon black, artificial resin, and a plasticizer. Binney & Smith Company. 430,195 ; June 10 ; Serial No. 498,578 ; published Feb. 4, 1947.

Varnish. Bruning Brothers. 430,262 ; June 10 ; Serial No. 501,712 ; published Mar. 11, 1947.

Varnish, Plastic. Grand Rapids Paint and Enamel Company. 430,196 ; June 10 ; Serial No. 498,764 ; published Feb. 4, 1947.

Wax, Floor. Windsor Wax Company, Inc. 430,241 ; June 10 ; Serial No. 500,920 ; published Mar. 4, 1947.

CLASS 17

Cigarettes. N. V. Cigarettes Import Company (Sigaretten Import Maatschappij). 430,341 ; June 10 ; Serial No. 504,628 ; published Mar. 18, 1947.

Cigars. A. Sensenbrenner Sons. 430,296–7 ; June 10 ; Serial Nos. 503,223–4 ; published Apr. 1, 1947.

Cigars, cigarettes, chewing, smoking, and leaf tobacco. A. Harris Limited. 219,817 ; renewed Oct. 26, 1946. O. G. June 10.

Tobacco and cigarettes, Smoking and chewing. American Tobacco Company. 223,213–14 ; renewed Jan. 18, 1947. O. G. June 10.

CLASS 19

Aircraft, Rotary wing. Hoppi-Copters, Inc. 430,303 ; June 10 ; Serial No. 503,517 ; published Mar. 25, 1947.

Airplanes. Northrop Aircraft, Inc. 430,434 ; June 10.

Airplanes and parts thereof. Northrop Aircraft, Inc. 430,131 ; June 10 ; Serial No. 491,877 ; published Mar. 18, 1947.

Airplanes and structural parts thereof. Piper Aircraft Corporation. 430,222 ; June 10 ; Serial No. 500,123 ; published Mar. 25, 1947.

Cabin units, Prefabricated, plasticized bonded plywood. Higgins, Inc. 430,369 ; June 10 ; Serial No. 505,650 ; published Mar. 25, 1947.

Kayaks. Westin New Haven Company, Inc. 430,293 ; June 10 ; Serial No. 503,028 ; published Mar. 25, 1947.

Motor scooters. Comet Manufacturing Co., Inc. 430,305 ; June 10 ; Serial No. 503,554 ; published Feb. 25, 1947.

Seats and hammocks, Auto baby. Dennis-Mitchell Industries. 430,185 ; June 10 ; Serial No. 497,705 ; published Apr. 1, 1947.

Trailers. Village Green Trailer Company. 430,301 ; June 10 ; Serial No. 503,403 ; published Mar. 25, 1947.

CLASS 21

Apparatus for the electrical treatment of water to prevent or diminish the effect of the hardness thereof. Electronic Water Treatment Corp. 430,376 ; June 10 ; Serial No. 506,235 ; published Mar. 25, 1947.

Bottle warmers, Electronically heated. Electrical Industries, Inc. 430,083 ; June 10 ; Serial No. 477,498 ; published Apr. 1, 1947.

Cloth, paper, and silk, Varnished. Irvington Varnish & Insulator Co. 224,199 ; renewed Feb. 22, 1947. O. G. June 10.

Condensers, jacks, plugs, etc. Pilot Radio Corporation. 430,431 ; June 10 ; Serial No. 517,795 ; published Apr. 1, 1947.

Contact points, distributor rotors, distributor leads, etc., Distributor. National Ignition Manufacturing Company. 430,409 ; June 10 ; Serial No. 509,097 ; published Apr. 1, 1947.

Converter used for transforming electrical currents. Grover Photo Products. 430,398 ; June 10 ; Serial No. 508,284 ; published Apr. 1, 1947.

Cords, sockets, plugs, etc., Electric extension. Haft & Sons, Inc. 430,545 ; June 10.

Electric air conditioning heating and circulating apparatus, Unitary. R. H. Taylor. 430,446 ; June 10.

Electrical control apparatus, electrical machines, and electrical supplies. Cutler-Hammer, Inc. 430,190 ; June 10 ; Serial No. 498,118 ; published Apr. 1, 1947.

Electrical devices. Amerex Electronic Corp. 430,140 ; June 10 ; Serial No. 493,309 ; published May 28, 1946.

Electrical insulating tape. Okonite Company. 430,256 ; June 10 ; Serial No. 501,588 ; published Mar. 25, 1947.

Elevator parts. Shepard Elevator Company. 430,166 ; June 10 ; Serial No. 496,734 ; published Apr. 1, 1947.

Enciphering and deciphering apparatus, Telegraph. Western Union Telegraph Company. 430,146 ; June 10 ; Serial No. 494,379 ; published Mar. 18, 1947.

Extension cords, Electric. Lighter-Lite Products. 430,133 ; June 10 ; Serial No. 492,064 ; published Mar. 4, 1947.

Hair brushes, Electrically operated. Hershey Mfg. Co. 430,384 ; June 10 ; Serial No. 506,871 ; published Mar. 11, 1947.

Heated woolen blankets, Electrically. Woolectra Blanket Mfg. Company. 430,392 ; June 10 ; Serial No. 507,449 ; published Mar. 11, 1947.

Heater, Electric space. W. W. Hicks. 430,387 ; June 10 ; Serial No. 507,187 ; published Mar. 11, 1947.

Heaters, Electric space. Firan Co. 430,394 ; June 10 ; Serial No. 507,524 ; published Mar. 18, 1947.

Heating apparatus, Electrical. A. Steinberg. 430,235 ; June 10 ; Serial No. 500,710 ; published Mar. 18, 1947.

Household appliances, Electrical. Dominion Electrical Manufacturing, Inc. 430,395 ; June 10 ; Serial No. 507,716 ; published Apr. 1, 1947.

Ignition, starting and lighting equipment, Electric automotive. Automotive Specialty Corporation. 430,249 ; June 10 ; Serial No. 501,356 ; published Apr. 1, 1947.

Irons, Electric soldering. Nelpin Manufacturing Co. Inc. 430,261 ; June 10 ; Serial No. 501,680 ; published Apr. 1, 1947.

Lamps and fixtures, and parts thereof, Electric table, floor, wall and overhead. Dunbill Mfg. & Distributors Corp. 430,399 ; June 10 ; Serial No. 508,371 ; published Apr. 1, 1947.

Lamps, Electric table. Soundrite Corporation. 430,402 ; June 10 ; Serial No. 508,496 ; published Apr. 1, 1947.

Lighting fixtures, Electric. Century Lighting, Inc. 430,328 ; June 10 ; Serial No. 504,326 ; published Mar. 18, 1947.

Lighting fixtures, Electrical. E. O. Anders. 430,501 ; June 10.

Lighting fixtures, Industrial, store and household. A. Kurtzon. 430,381 ; June 10 ; Serial No. 506,673 ; published Mar. 11, 1947.

Microphones. J. L. Fouch. 430,535 ; June 10.

Motors, Rebuilt electric. National Industrial Service Association, Inc. 430,330 ; June 10 ; Serial No. 504,503 ; published Mar. 11, 1947.

Phonographs and reproducers, Electric. Franklin Photographic Industries. 430,397 ; June 10 ; Serial No. 508,153 ; published Apr. 1, 1947.

Radio and television receiving sets. Tradio, Inc. 430,363 ; June 10 ; Serial No. 505,166 ; published Apr. 1, 1947.

Radio receiving sets. Algene Mfg. Co. 430,386 ; June 10 ; Serial No. 507,180 ; published Apr. 1, 1947.

Radio receiving sets. Wolf & Klar Wholesale Supply Co. 430,463 ; June 10.

Radio receiving sets and radio phonograph combinations. Allied Stores Corporation. 430,272 ; June 10 ; Serial No. 502,249 ; published Apr. 1, 1947.

Replacement parts, Automotive. Le Riche-International, Inc. 430,304 ; June 10 ; Serial No. 503,519 ; published Apr. 1, 1947.

Resistors, fixed resistors, power resistors, etc. Clarostat Mfg. Co. Inc. 430,308–9 ; June 10 ; Serial Nos. 503,634–5 ; published Mar. 25, 1947.

Saws, drills, shears, etc., Unitary portable hand operated electric. Stanley Works. 430,103 ; June 10 ; Serial No. 486,228 ; published Mar. 11, 1947.

Signals, indicators and alarms, Visible and audible electric. Faraday Electric Corporation. 430,388–90 ; June 10 ; Serial Nos. 507,380–2 ; published Apr. 1, 1947.

Signs, Electrical illuminated. D. W. Van Gieson. 430,299 ; June 10 ; Serial No. 503,269 ; published Mar. 11, 1947.

Sound equipment. David Bogen Company, Inc. 430,087 ; June 10 ; Serial No. 481,938 ; published Mar. 25, 1947.

Steam irons, Electric. Hope Products, Inc. 430,385 ; June 10 ; Serial No. 507,128 ; published Mar. 11, 1947.

Stoves and ranges and electrical ovens, Electric. A. J. Lindemann & Hoverson Company. 430,373 ; June 10 ; Serial No. 505,966 ; published Mar. 25, 1947.

Switch, Automatic pressure-actuated electric. Oiltrol Company. 430,281 ; June 10 ; Serial No. 502,400 ; published Mar. 18, 1947.

Switches, Electric-light. McGill Manufacturing Company, Inc. 218,361 ; renewed Sept. 28, 1946. O. G. June 10.

Switches, flashers, interval timers and relays, etc., Time. Automatic Electric Mfg. Company. 430,366 ; June 10 ; Serial No. 505,331 ; published Apr. 1, 1947.

Tubes, Cathode ray. Lectrovision Inc. 430,391 ; June 10 ; Serial No. 507,407 ; published Mar. 11, 1947.

Warmers and cookers, electrically heated bottle warmers, etc., Electrically heated food. Electrical Industries, Inc. 430,257 ; June 10 ; Serial No. 501,653 ; published Mar. 18, 1947.

Welding machines, Electric arc. Ergolyte Manufacturing Co. 430,543 ; June 10.

Welding machines, parts and accessories therefor, Electric arc. Air Reduction Sales Company. 430,277 ; June 10 ; Serial No. 502,362 ; published Mar. 11, 1947.

Wire, Insulated electrical. Diamond Wire & Cable Co. 430,407 ; June 10 ; Serial No. 508,982 ; published Apr. 1, 1947.

Wire of various alloys, Electric. Kemet Laboratories Company, Inc. 430,107 ; June 10 ; Serial No. 488,406 ; published Apr. 1, 1947.

Wires and cables, Bare and insulated electric. General Cable Corporation. 430,393 ; June 10 ; Serial No 507,469 ; published Mar. 11, 1947.

CLASS 22

Dolls. Curran Cushion & Textile Co. 430,137 ; June 10 ; Serial No. 492,763 ; published Mar. 25, 1947.

Exercisers for infants. Infantoy Products Co. 430,086 ; June 10 ; Serial No. 480,868 ; published May 29, 1945.

Fish lures. Shurebite Inc. 430,419 ; June 10 ; Serial No. 511,248 ; published Mar. 25, 1947.

Game. M. S. Knapp. 430,255 ; June 10 ; Serial No. 501,576 ; published Mar. 25, 1947.

Golf clubs. T. S. Park. 430,383 ; June 10 ; Serial No. 506,765 ; published Mar. 25, 1947.

Gymnasium pads. Dunlop Tire and Rubber Corporation 430,116 ; June 10 ; Serial No. 490,364 ; published Mar. 25, 1947.

Implements, apparatus, and articles used in tennis, cricket, golf, etc. Wright & Ditson. 57,086 ; re-renewed Oct. 30, 1946. O. G. June 10.

Miniature railroads and parts thereof, and accessories therefor, Model. National Model Railroad Association. 430,104 ; June 10 ; Serial No. 486,327 ; published Mar. 25, 1947.

Playground equipment. J. D. Beard. 430,115 ; June 10 ; Serial No. 489,788 ; published Mar. 25, 1947.

Rifles, Air. A. B. T. Manufacturing Corp. 430,437 ; June 10.

Sleds, Hand. Kalamazoo Sled Company. 430,420–1 ; June 10 ; Serial Nos. 511,395–6 ; published Mar. 25, 1947.

Toy. Zippo-Copter Company. 430,158 ; June 10 ; Serial No. 496,058 ; published Mar. 25, 1947.

Toy. Zippo-Coptor, Inc. 430,159 ; June 10 ; Serial No. 496,059 ; published Mar. 25, 1947.

Toy metal furniture sets. Republic Precision Mfg. Co. 430,138 ; June 10 ; Serial No. 492,791 ; published Mar. 25, 1947.

Toy phonographs. Mutual International Corporation. 430,430 ; June 10 ; Serial No. 515,720 ; published Mar. 25, 1947.

Toy tops. Socket-It Company. 430,429 ; June 10 ; Serial No. 515,686 ; published Mar. 25, 1947.

Toy wagons. American Metalcraft Corporation. 430,549 ; June 10.

Toys, Airplane. Porter Chemical Company. 430,203 ; June 10 ; Serial No. 499,275 ; published Apr. 1, 1947.

CLASS 23

Accessory for internal combustion engines. American Octanator Corporation. 430,273 ; June 10 ; Serial No. 502,250 ; published Apr. 1, 1947.

Auger machines, Portable. H. S. Ausherman. 430,205 ; June 10 ; Serial No. 499,370 ; published Apr. 1, 1947.

Automatic bale loaders. I. Z. Smoker. 430,439 ; June 10.

Automotive clutches and parts thereof, clutch plates, clutch facings, etc. Accurate Parts Manufacturing Company. 430,469 ; June 10.

Bearings and bushings, Machinery. Kuchler-Huhn Company, Inc. 430,489 ; June 10.

Belt grinders, Abrasive. Stuart Industries, Inc. 430,096 ; June 10 ; Serial No. 484,603 ; published Feb. 25, 1947.

Blades, Razor. Pal Blade Co., Inc. 430,337 ; June 10 ; Serial No. 504,576 ; published Mar. 25, 1947.

Block machines, Concrete. Dempster Brothers, Incorporated. 430,302 ; June 10 ; Serial No. 503,436 ; published Apr. 1, 1947.

Blowers for conveyors. Du-More Farm Equipment, Inc. 430,449 ; June 10.

Broaches. C. G. Allert. 430,088 ; June 10 ; Serial No. 482,663 ; published Feb. 25, 1947.

Brushes forming parts of industrial machines, Wire. Osborn Manufacturing Company. 430,118 ; June 10 ; Serial No. 490,441 ; published Mar. 25, 1947.

Brushes, goblet brushes, end brushes, Scratch, etc. Dixon & Rippel, Inc. 430,097 ; June 10 ; Serial No. 485,140 ; published Feb. 25, 1947.

Cards for carding cotton. L. S. Watson Manuf'g. Co. 59,484 ; re-renewed Jan. 8, 1947. O. G. June 10.

Crane, Tractor-mounted loading. Washington Iron Works. 430,551 ; June 10.

Engines, Gas. Hercules Corporation. 219,321 ; renewed Oct. 19, 1946. O. G. June 10.

Holders, Tool. E. V. Bradley. 430,141 ; June 10 ; Serial No. 493,589 ; published Apr. 1, 1947.

House form assembly, Portable. R. G. Le Tourneau, Inc. 430,275 ; June 10 ; Serial No. 502,307 ; published Mar. 11, 1947.

Hydraulic pumps, hydraulic presses, hydraulic valves, etc. Hydro-Power, Incorporated. 430,200 ; June 10 ; Serial No. 498,994 ; published Apr. 1, 1947.

Hydraulic transmissions. Hydroloc Syndicate. 430,474 ; June 10.

Jack, Automobile. Peerless Products Co. 430,495 ; June 10.

Jacks, Hydraulic automobile. Moto Products Co. 430,239 ; June 10 ; Serial No. 500,893 ; published Feb. 25, 1947.

Knives, Paper cutting. E. R. Raetsch. 430,150 ; June 10 ; Serial No. 495,504 ; published Apr. 1, 1947.

Knives, pocket knives, paring knives, etc., Pen. Schrade-Walden Cutlery Corp. 430,530 ; June 10.

Lathe centers. Sturdimatic Tool Co. 430,121 ; June 10 ; Serial No. 490,511 ; published Mar. 25, 1947.

Lawnmowers, lawn sprayers, spray-guns, etc. Arkwright, Incorporated. 430,114 ; June 10 ; Serial No. 489,706 ; published Mar. 25, 1947.

Loading machines, Agricultural. D. D. Birt. 430,145 ; June 10 ; Serial No. 494,255 ; published Mar. 11, 1947.

Machine for mowing grass and weeds, Power operated. E. L. Coddington. 430,314 ; June 10 ; Serial No. 503,799 ; published Mar. 18, 1947.

Mechanical driving systems. Lear Avia, Inc. 430,080 ; June 10 ; Serial No. 472,328 ; published Mar. 4, 1947.

Metal work holders and metal rotary tables. A. A. Troyke. 430,191 ; June 10 ; Serial No. 498,184 ; published Apr. 1, 1947.

Mowers, Lawn. Affiliated Retailers, Inc. 430,470 ; June 10.

Planes, Hand. Stanley Works. 430,101–2 ; June 10 ; Serial Nos. 486,223–4 ; published Mar. 25, 1947.

Portable and stationary lubricating apparatus. Lincoln Engineering Company. 430,242 ; June 10 ; Serial No. 500,989 ; published Mar. 25, 1947.

Power driven mowing machine. National Metal Products Company. 430,331 ; June 10 ; Serial No. 504,504 ; published Mar. 25, 1947.

Pumps, Hand operated grease. Balcrank, Inc. 430,134 ; June 10 ; Serial No. 492,417 ; published Mar. 25, 1947.

Pumps, hydraulic power transmissions, steering gears, etc. American Engineering Company. 430,212 ; June 10 ; Serial No. 499,885 ; published Mar. 25, 1947.

Pumps, trombone, barrel and bucket pumps ; sprayers and dusters, etc., Fire. H. D. Hudson Manufacturing Company. 430,438 ; June 10.

Razor blades. Frye's Cigar Company. 430,320 ; June 10 ; Serial No. 503,982 ; published Mar. 18, 1947.

Rollers and blocks, Wall-paper print. F. P. Dustan. 218,823 ; renewed Oct. 5, 1946. O. G. June 10.

Rotary bits, Carbide tipped. New England Carbide Tool Co., Inc. 430,271 ; June 10 ; Serial No. 502,229 ; published Apr. 1, 1947.

Saws. E. C. Atkins & Company. 57,749 ; re-renewed Nov. 27, 1946. O. G. June 10.

Saws. E. C. Atkins & Company. 58,946 ; re-renewed Dec. 25, 1946. O. G. June 10.

Saws, Crosscut. E. C. Atkins and Company. 220,847 ; renewed Nov. 16, 1946. O. G. June 10.

Scissors. Perfecut Scissors Co. 430,282 ; June 10 ; Serial No. 502,406 ; published Apr. 1, 1947.

Screw drivers. Irwin Auger Bit Company. 430,177 ; June 10 ; Serial No. 497,312 ; published Mar. 11, 1947.

Screws, Valve tappet. A. F. Von Hausen. 430,324 ; June 10 ; Serial No. 504,081 ; published Mar. 18, 1947.

Seeders, combination seeders and cultivators, etc. Midland Company. 430,280 ; June 10 ; Serial No. 502,392 ; published Mar. 25, 1947.

Shelling machines, Nut. P. Dragon. 430,325 ; June 10 ; Serial No. 504,098 ; published Mar. 18, 1947.

Slicing machines and mechanical meat tendering machines, etc., Bread and meat. U. S. Slicing Machine Company. 430,451 ; June 10.

Tool, Wheel dresser. Wolf and Scherer. 430,270 ; June 10 ; Serial No. 502,175 ; published Apr. 1, 1947.

Tools. Oakes & Company. 430,085 ; June 10 ; Serial No. 480,616 ; published Feb. 25, 1947.

Tools and accessories, Machine cutting. Wesson Company. 430,095 ; June 10 ; Serial No. 483,881 ; published Feb. 25, 1947.

Tools, High-speed. Acromatic Tool Company. 430,162 ; June 10 ; Serial No. 496,592 ; published Oct. 1, 1946.

Tools, Threading. Henry L. Hanson Company. 430,132 ; June 10 ; Serial No. 492,044 ; published Mar. 25, 1947.

Track and switches, hay track and switches, etc., Litter carrier. H. D. Hudson Manufacturing Company. 430,544 ; June 10.

Tractors, Rotary type garden. H. E. Pond. 430,113 ; June 10 ; Serial No. 489,676 ; published Mar. 25, 1947.

Wrenches. Polaris Products, Inc. 430,520 ; June 10.

CLASS 24

Washing machines. Meadows Manufacturing Co. 226,309 ; renewed Apr. 5, 1947. O. G. June 10.

CLASS 25

Locks and parts thereof and keys. Yale & Towne Mfg. Co. 61,834 ; re-renewed Apr. 9, 1947. O. G. June 10.

Locks and parts thereof and keys therefor. Yale & Towne Mfg. Co. 61,837 ; re-renewed Apr. 9, 1947. O. G. June 10.

CLASS 26

Measuring and dispensing devices, Liquid. J. J. M. Gueux. 219,224 ; renewed Oct. 12, 1946. O. G. June 10.

Spectacles. Riggs Optical Company-Consolidated. 225,419 ; renewed Mar. 15, 1947. O. G. June 10.

CLASS 27

Watches and parts of watches. Fleurier Watch Co. 430,522 ; June 10.

Watches and parts thereof. O. Marchand, Inc. 430,534 ; June 10.

Watches and watch movements. Wolf & Klar Wholesale Supply Co. 430,464 ; June 10.

Watches, parts of watches, and watch cases. J. Bernheim & Co., Timor Watch Co. 430,440 ; June 10.

CLASS 28

Bracelets, chains, brooches, etc. Curtman Co., Inc. 430,547 ; June 10.

Jewelry and precious metal jewelry, Costume. Rayell Co., Inc. 430,504 ; June 10.

Rings, Finger. Granat Bros., Inc. 430,436 ; June 10.

CLASS 31

Door fasteners, Industrial refrigerator. C. Blum. 430,548 ; June 10.

CLASS 33

Shaker made of glass, Condiment. Dri-Shaker Products, Inc. 430,493 ; June 10.

CLASS 35

Faucet cushions and washers, Nonmetallic. J. A. Sexauer Mfg. Co., Inc. 224,528 ; renewed Mar. 1, 1947. O. G. June 10.

CLASS 36

Music boxes and parts thereof, Automatic. Sprague Mfg. Co. Inc. 430,508 ; June 10.

Phonographs, machines for phonographically recording, machines for phonographically reproducing, etc. Dictaphone Corporation. 219,360 ; renewed Oct. 19, 1946. O. G. June 10.

Pianos and organs. M. D. Marks. 58,725 ; re-renewed Dec. 25, 1946. O. G. June 10.

CLASS 37

Collar supports, Shirt. C. A. Calder. 430,099 ; June 10 ; Serial No. 485,901 ; published Apr. 1, 1947.

Letterheads, correspondence envelopes, and blank forms. International Brotherhood of Electrical Workers. 430,128 ; June 10 ; Serial No. 491,328 ; published Mar. 18, 1947.

Paper for toilet purposes. A. P. W. Products Company, Inc. 430,163 ; June 10 ; Serial No. 496,679 ; published Mar. 25, 1947.

Paper, Note. American Greeting Publishers Incorporated. 430,481 ; June 10.

Paper, Printing. S. D. Warren Company. 226,322 ; renewed Apr. 5, 1947. O. G. June 10.

Paper, Printing and writing. Dill & Collins Co. 54,135 ; re-renewed June 19, 1946. O. G. June 10.

Paper, Wrapping. Comet Envelope & Paper Co. Inc. 430,147 ; June 10 ; Serial No. 494,426 ; published Apr. 1, 1947.

Paper, Wrapping. Dill & Collins Co. 55,344 ; re-renewed Aug. 14, 1946. O. G. June 10.

Papers, Certain named. Dill & Collins Co. 55,343 ; re-renewed Aug. 14, 1946. O. G. June 10.

Papers, Writing. Mittineague Paper Company. 29,613 ; re-renewed Mar. 2, 1947. O. G. June 10.

Pens, Fountain. Rolla Ball Pen Corporation. 430,538 ; June 10.

Printing-paper. Dill & Collins Co. 52,295 ; re-renewed May 8, 1946. O. G. June 10.

Toilet tissue. Comfort Paper Corporation. 430,321 ; June 10 ; Serial No. 504,036 ; published Apr. 1, 1947.

CLASS 38

Magazine. Christmas Club. 225,139 ; renewed Mar. 15, 1947. O. G. June 10.

Magazine, Monthly. Cleveland Retail Grocers Association. 225,070 ; renewed Mar. 8, 1947. O. G. June 10.

Magazine, Monthly. National Sportsman, Inc. 226,484 ; renewed Apr. 12, 1947. O. G. June 10.

Publications, Monthly. Johnston Export Publishing Co. 226,592 ; renewed Apr. 12, 1947. O. G. June 10.

CLASS 39

Boots and shoes, Men's, women's, and children's leather. E. W. Burt & Co., Inc. 56,750 ; re-renewed Oct. 16, 1946. O. G. June 10.

Clothing for women. Lou Tishman Co., Inc. 430,500 ; June 10.

Clothing for women, misses, and girls. Martini Frocks. 430,454 ; June 10.

Coats, Fur. Fluid Fit Furs, Inc. 430,445 ; June 10.

Coats, Ladies' outer. Edward Krieger & Co., Inc. 217,768 ; renewed Sept. 7, 1946. O. G. June 10.

Coats, riding breeches and knickerbockers, etc. Real Sport Clothing Company. 225,178 ; renewed Mar. 15, 1947. O. G. June 10.

Coats, suits, and hosiery, Men's and boys'. Nebraska Clothing Company. 223,765 ; renewed Feb. 8, 1947. O. G. June 10.

Coats, suits, jackets, etc., Ladies' and misses'. H. Mandelbaum. 430,541 ; June 10.

Corsets. Royal Worcester Corset Co. 50,338–9 ; re-renewed Mar. 13, 1946. O. G. June 10.

Dresses, coats, skirts, and blouses, Misses' and girls'. J. C. Penney Company. 430,479 ; June 10.

Dresses, Ladies'. Danmor Frocks. 430,506 ; June 10.

Dresses, Ladies' and misses'. Style Miss Dress Co., Inc. 430,524 ; June 10.

Dresses, Misses' and juniors'. Bretter & Levine, Inc. 430,496 ; June 10.

Dresses, Misses' and ladies'. Murray White Company. 430,503 ; June 10.

Dresses, Women's and misses'. Holsberg & Lasoff, Inc. 430,452 ; June 10.

Dresses, Women's and misses'. White & Sklar Inc. 430,518 ; June 10.

Dresses, Women's, children's and infants'. Jack Borgenicht, Inc. 430,473 ; June 10.

Garments, Foundation. El-Ee's Foundations, Inc. 430,461 ; June 10.

Hats, Ladies'. Goldstein Millinery Company. 430,542 ; June 10.

Hats, Men's and boys'. C. R. Anthony Co. 430,539 ; June 10.

Hosiery. A. Herskowitz. 225,569 ; renewed Mar. 22, 1947. O. G. June 10.

Hosiery. Julius Kayser & Co. 430,480 ; June 10.

Hosiery. Russell Hosiery Mill. 430,450 ; June 10.

Jackets, Men's. Hipsh, Inc. 430,459 ; June 10.

Moccasins and shoes of leather or fabric or of combinations. Saco-Moc Shoe Corporation. 430,453 ; June 10 ;

Neckties, Men's. Charles H. Levy Company. 430,478 ; June 10.

Shirts, sport coats, suits, etc., women's suits and blouses, Men's. Berton of California. 430,529 ; June 10.

Shirts, suits, leisure jackets, etc., Men's and boys'. Charles Navasky & Co. 430,494 ; June 10.

Shoe soles and heels. Danbury Rubber Company, Inc. 430,550 ; June 10.

Shoes. Shoes Associated, Inc. 430,488 ; June 10.

Shoes and slippers. Peppy Footwear, Inc. 430,487 ; June 10.

Shoes, Women's. Melori Shoe Corp. 430,527 ; June 10.

Slacks for women. King of Slacks, Inc. 430,156 ; June 10 ; Serial No. 496,032 ; published Aug. 27, 1946.

Socks, Men's. E. S. Jamison. 430,444 ; June 10.

Suits and dresses, Women's and girls'. Lorraine Frocks. 430,457 ; June 10.

Suits, coats, and pants, Women's and Men's. Mavest, Inc. 430,490 ; June 10.

Suits, coats, trousers, etc. Young men's and boys'. Little Manufacturing Corporation. 430,519 ; June 10.

Suits, overcoats, and topcoats, Men's and boys'. Pauson & Company. 430,509 ; June 10.

Suits, sun suits, rompers, etc., Women's and children's play. Snowdon, Inc. 430,471 ; June 10.

Suits, vests, coats, etc., Men's and women's. Alfred Norton Ltd. 430,498 ; June 10.

Wearing apparel. Stix, Baer and Fuller Company. 226,306 ; renewed Apr. 5, 1947. O. G. June 10.

CLASS 40

Buttons. Ravon Company. 430,405 ; June 10 ; Serial No. 508,821 ; published Mar. 25, 1947.

Elastics, Narrow woven and braided. Narrow Fabric Co. 224,490 ; renewed Mar. 1, 1947. O. G. June 10.

Hair ornaments of non-precious metal or metals or non-precious stones or plastic. Scherb Novelty Co. 430,240 ; June 10 ; Serial No. 500,905 ; published Mar. 18, 1947.

Rolls, Hair. Sitroux, Inc. 430,171 ; June 10 ; Serial No. 496,930 ; published Apr. 1, 1947.

Sachet. V. Vivaudou, Inc. 430,192 ; June 10 ; Serial No. 498,362 ; published Apr. 1, 1947.

Tapes and bindings. J. Sullivan & Sons Manufacturing Company. 430,313 ; June 10 ; Serial No. 503,771 ; published Mar. 25, 1947.

Watch straps. David Guss & Company. 430,268 ; June 10 ; Serial No. 505,494 ; published Mar. 18, 1947.

Watch straps. Ranger-Tennere, Inc. 430,149 ; June 10 ; Serial No. 495,329 ; published Apr. 1, 1947.

CLASS 42

Cloths, Finished. F. A. Sayles. 29,815 ; re-renewed Apr. 13, 1947. O. G. June 10.

Cotton drillings and shirtings. Cone Export & Commission Company. 221,826 ; renewed Dec. 14, 1946. O. G. June 10.

Cotton piece goods. Wm. O'Hanlon & Co. Limited. 430,326 ; June 10 ; Serial No. 504,284 ; published Mar. 18, 1947.

Cotton piece goods. S. Slater & Sons, Inc. 216,101 ; renewed Aug. 3, 1946. O. G. June 10.

Cotton voile in the piece. Marshall Field & Company. 220,753 ; renewed Nov. 16, 1946. O. G. June 10.

Cotton voile in the piece. Marshall Field & Company. 220,838 ; renewed Nov. 16, 1947. O. G. June 10.

Curtains, draperies and bedspreads, Window. J. London & Co. 430,157 ; June 10 ; Serial No. 496,034 ; published Mar. 18, 1947.

Curtains, Window. Associated Merchandising Corporation. 430,246 ; June 10 ; Serial No. 501,154 ; published Apr. 1, 1947.

Damasks, Linen. G. W. MacCutcheon. 58,243 ; re-renewed Dec. 11, 1946. O. G. June 10.

Fabrics in the piece, Woven, knitted, netted, textile and pile. Cheney Brothers. 225,884 ; renewed Mar. 29, 1947. O. G. June 10.

Fabrics in the piece, Woven, knitted, netted, textile, and pile. Cheney Brothers. 226,061 ; renewed Mar. 29, 1947. O. G. June 10.

Piece goods. Clarence S. Brown & Co., Inc. 430,512 ; June 10.

Piece goods. McCarthy & Simon, Inc. 430,497 ; June 10.

Piece goods of rayon, cotton, and mixtures of rayon and cotton, etc. Belvedere Fabrics Inc. 430,124 ; June 10 ; Serial No. 490,916 ; published Mar. 25, 1947.

Polyvinyl resin, Thin transparent or translucent sheets or films of. R. S. Harte. 430,447 ; June 10.

Rugs, wool broadloom rugs, etc., Axminster and Wilton broadloom and border. Oakes & Company. 430,199 ; June 10 ; Serial No. 498,923 ; published Mar. 18, 1947.

Sheeting, Thin, transparent or translucent vinyl type plastic. Crest Fabrics Corp. 430,516 ; June 10.

Sheetings, Cotton. Naumkeag Steam Cotton Company. 56,731 ; re-renewed Oct. 16, 1946. O. G. June 10.

Sheetings, Cotton. Naumkeag Steam Cotton Company. 56,775 ; re-renewed Oct. 16, 1946. O. G. June 10.

Shirting fabrics, Oxford. Riverside & Dan River Cotton Mills, Inc. 430,327 ; June 10 ; Serial No. 504,296 ; published Mar. 18, 1947.

Silks, dress-silks, and piece silk, Broad. J. Wanamaker. 61,493 ; re-renewed Mar. 26, 1947. O. G. June 10.

Textile fabric in the piece, Laminated. Alfred Vamos Inc. 430,176 ; June 10 ; Serial No. 497,280 ; published Mar. 25, 1947.

Textile fabrics. Concord Chenille Co. 430,110 ; June 10 ; Serial No. 488,740 ; published Mar. 18, 1947.

Woolen piece goods. Forstmann & Huffmann Company. 220,550 ; renewed Nov. 9, 1946. O. G. June 10.

CLASS 43

Thread, Cotton. Bay State Thread Works. 226,638 ; renewed Apr. 12, 1947. O. G. June 10.

Yarn. Spinnerin Yarn Co., Inc. 430,404 ; June 10 ; Serial No. 508,674 ; published Mar. 18, 1947.

Yarn. Viking Yarn Mills, Inc. 430,372 ; June 10 ; Serial No. 505,932 ; published Apr. 1, 1947.

Yarn (for weaving) wholly of cotton. Glazebrock, Steel & Company Limited. 430,418 ; June 10 ; Serial No. 510,836 ; published Apr. 1, 1947.

Yarn of wool and cotton, raw or dyed, Fibre-blended. Trüb & Co. 430,406 ; June 10 ; Serial No. 508,941 ; published Mar. 18, 1947.

Yarn, Worsted and wool. Priscilla Worsted Mills, Inc. 226,551–3 ; renewed Apr. 12, 1947. O. G. June 10.

Yarns. Patons & Baldwins, Limited. 221,438 ; renewed Nov. 30, 1946. O. G. June 10.

Yarns. Bernhard Ulmann Co. Inc. 430,417 ; June 10 ; Serial No. 510,298 ; published Apr. 1, 1947.

CLASS 44

Clippers, manicure scissors, manicure files, Finger nail. Howard Arnold Company. 430,173 ; June 10 ; Serial No. 497,097 ; published Mar. 25, 1947.

Ear stops or plugs for deadening noises. E. C. Hemphill. 430,425 ; June 10 ; Serial No. 514,474 ; published Mar. 25, 1947.

Fluoroscopes. E. E. Sheldon. 430,172 ; June 10 ; Serial No. 496,990 ; published Apr. 1, 1947.

Manicure implement sets, manicure scissors, nail files, etc. Associated Products, Inc. 430,179 ; June 10 ; Serial No. 497,362 ; published Mar. 25, 1947.

Manicure sets, nail files, nail buffers, etc. C. J. Bates & Son. 224,643 ; renewed Mar. 1, 1947. O. G. June 10.

Pads for operating tables, examining tables, and treatment tables. Dunlop Tire and Rubber Corporation. 430,117 ; June 10 ; Serial No. 490,366 ; published Mar. 25, 1947.

Powder for use in making artificial stones used in preparation of denture models. Cosmos Dental Products, Inc. 430,428 ; June 10 ; Serial No. 515,476 ; published Mar. 25, 1947.

Rubber articles, Prophylactic. Youngs Rubber Corporation. 430,424 ; June 10 ; Serial No. 513,705 ; published Mar. 18, 1947.

Sterilizers, appliances and dressings. Ohio Chemical & Mfg. Co. 430,164 ; June 10 ; Serial No. 496,727 ; published Mar. 25, 1947.

Surgical apparatus, Certain named. Hospital Supply Company. 58,950 ; re-renewed Dec. 25, 1946. O. G. June 10, 1947.

CLASS 45

Mineral waters. J. Reis. 61,278 ; re-renewed Mar. 12, 1947. O. G. June 10.

CLASS 46

Bouillon powder and food flavoring material. Anheuser-Busch, Inc. 430,380 ; June 10 ; Serial No. 506,632 ; published Mar. 25, 1947.

Candies and bonbons. Dutch Mill Candy Co. 430,507 ; June 10.

Candy. Folly Town Company. 220,707 ; renewed Nov. 16, 1946. O. G. June 10.

Candy. Gilliam Candy Company. 430,335 ; June 10 ; Serial No. 504,549 ; published Mar. 11, 1947.

Candy. M. J. Holloway & Co. 430,382 ; June 10 ; Serial No. 506,753 ; published Apr. 1, 1947.

Candy. Charles N. Miller Co. 225,038 ; renewed Mar. 8, 1947. O. G. June 10.

Candy. New England Confectionery Company. 430,127 ; June 10 ; Serial No. 491,168 ; published Mar. 25, 1947.

Candy. Peerless Confection Company. 430,465 ; June 10.

Candy. Wallace & Co. 61,660 ; re-renewed Apr. 2, 1947. O. G. June 10.

Canned dog food. Coastal Canning Corporation. 430,152 ; June 10 ; Serial No. 495,580 ; published July 16, 1946.

Canned fish. La Paloma, Limitada. 430,122–3 ; June 10 ; Serial Nos. 490,671–2 ; published Mar. 11, 1947.

Canned fruit juices. California Canners Associates. 430,374 ; June 10 ; Serial No. 506,007 ; published Mar. 25, 1947.

Canned horse meat and gravy. C. L. Hirsch. 430,306 ; June 10 ; Serial No. 503,571 ; published Mar. 18, 1947.

Canned peas. Minnesota Valley Canning Company. 430,186 ; June 10 ; Serial No. 497,733 ; published Apr. 1, 1947.

Canned peas. Pictsweet Foods, Inc. 430,513–15 ; June 10.

Chicken cutlets and chicken patties, lobster cutlets, scallops, etc., Frozen fried. Home Style Foods, Inc. 430,532 ; June 10.

Chicken sandwich or chicken sandwich dinner, Special kind of. M. L. Graham. 226,343 ; renewed Apr. 5, 1947. O. G. June 10.

Cider vinegar, white vinegar, jellies, marmalades. Duffy-Mott Company, Inc. 430,408 ; June 10 ; Serial No. 509,080 ; published Mar. 18, 1947.

Citrus pulp for use in stock feeds, and dried mixed stock feeds, Dried. Quality Products, Inc. 430,292 ; June 10 ; Serial No. 503,001 ; published Mar. 11, 1947.

Coffee, tea, cocoa, and rice. Sorver, McEvoy & Co. 220,552 ; renewed Nov. 9, 1946. O. G. June 10.

Dog food. American Bird Products, Inc. 430,540 ; June 10.

Egg product, Emulsifying. Emulsol Corporation. 224,796 ; renewed Mar. 8, 1947. O. G. June 10.

Feeds and feedstuffs. Ferncliff Feed & Grain Co. 226,377 ; renewed Apr. 5, 1947. O. G. June 10.

Flour, Wheat. Russell-Miller Milling Co. 230,237–8 ; renewed July 19, 1947. O. G. June 10.

Food flavoring or seasoning composition. Standard Brands Incorporated. 430,537 ; June 10.

Frankfurter, Bun encased. C. V. Blocher. 430,193 ; June 10 ; Serial No. 498,387 ; published Mar. 18, 1947.

Fruits and fresh vegetables, Fresh deciduous. Palmer C. Mendelson Co. 430,329 ; June 10 ; Serial No. 504,374 ; published Apr. 1, 1947.

Fruits and vegetables, Fresh. Standard Growers Exchange. 222,575 ; renewed Jan. 4, 1947. O. G. June 10.

Fruits, Fresh. Earl Fruit Company. 219,836 ; renewed Oct. 26, 1946. O. G. June 10.

Fruits, Fresh citrous. Piru Citrus Association. 226,547 ; renewed Apr. 12, 1947. O. G. June 10.

Fruits, Fresh citrous. Ventura Citrus Association. 215,499 ; renewed July 20, 1946. O. G. June 10.

Fruits, Fresh citrus. Indian River Producers, Inc. 430,336 ; June 10 ; Serial No. 504,554 ; published Mar. 11, 1947.

Fruits, fresh deciduous fruits, fresh vegetables, etc., Fresh citrus. F. G. Cohen. 430,375 ; June 10 ; Serial No. 506,009 ; published Apr. 1, 1947.

Grapes, Fresh. K. Karahadian. 430,351 ; June 10 ; Serial No. 504,906 ; published Mar. 11, 1947.

Mayonnaise and salad dressings. American Mayonnaise Corporation. 222,485 ; renewed Jan. 4, 1947. O. G. June 10.

Orange juice, canned sardines, coffee, etc. I. F. Schnier. 430,093 ; June 10 ; Serial No. 483,743 ; published Mar. 18, 1947.

Oranges and grapefruit, Fresh. Standard Growers Exchange. 217,066–7 ; renewed Aug. 24, 1946. O. G. June 10.

Pickles, pickled onions, catsup, etc. M. A. Gedney Pickling Co. 56,829 ; re-renewed Oct. 23, 1946. O. G. June 10.

Pickles, pickled onions, catsup, etc. M. A. Gedney Pickling Co. 56,849 ; re-renewed Oct. 23, 1946. O. G. June 10.

Pickles, pickled onions, catsup, etc. M. A. Gedney Pickling Co. 57,000 ; re-renewed Oct. 30, 1946. O. G. June 10.

Pickles, sauerkraut, mustard and vinegar. Dreyfus Co., Inc. 430,244 ; June 10 ; Serial No. 501,056 ; published Apr. 1, 1947.

Pickles, sweet mixed pickles, dill pickles, etc., Sweet. R. J. Stenzel. 430,533 ; June 10.

Popcorn. John W. Leavitt Company. 430,230 ; June 10 ; Serial No. 500,312 ; published Apr. 1, 1947.

Popcorn. Mid-West Popcorn Company. 430,204 ; June 10 ; Serial No. 499,340 ; published Mar. 25, 1947.

Popcorn. Premier Popcorn Association. 430,111 ; June 10 ; Serial No. 488,773 ; published Mar. 25, 1947.

Potato chips. Chipzels, Inc. 430,371; June 10; Serial No. 505,802; published Mar. 18, 1947.

Potatoes in their natural state. Holland & McChesney. 430,208; June 10; Serial No. 499,709; published Mar. 11, 1947.

Potatoes, Packaged frozen. Libby, McNeill & Libby. 430,340; June 10; Serial No. 504,622; published Mar. 11, 1947.

Poultry, Live and dressed. Roesch and Rhodes. 430,354; June 10; Serial No. 505,009; published Mar. 18, 1947.

Prepared food and compounds. Molassine Company, Ld. 55,827; re-renewed Aug. 21, 1946. O. G. June 10.

Preserves, cookies, pickled and mustard relishes, etc., Fig, strawberry, raspberry, etc. C. Davidson. 430,517; June 10.

Salad dressing. G. W. Sparger. 430,094; June 10; Serial No. 483,797; published Mar. 18, 1947.

Salad dressings. Old Smoky Sales Co. 430,322; June 10; Serial No. 504,062; published Mar. 11, 1947.

Sandwiches. J. D. McDonald. 430,310; June 10; Serial No. 503,658; published Apr. 1, 1947.

Sausage. Parker House Sausage Co. 430,075; June 10; Serial No. 448,949; published Apr. 1, 1947.

Sausage. Parker House Sausage Co. 430,076; June 10; Serial No. 449,727; published Apr. 1, 1947.

Tea. Chase & Sanborn. 61,050; re-renewed Mar. 5, 1947. O. G. June 10.

Tea, coffee, and cocoa. Consolidated Tea Company, Inc. 223,110; renewed Jan. 18, 1947. O. G. June 10.

Turkeys, Live. J. H. Janssen. 430,231; June 10; Serial No. 500,393; published Mar. 25, 1947.

Vegetables, Fresh. Central Coast Marketing Association, Inc. 430,536; June 10.

Vegetables, Fresh. E. L. Oliver. 430,165; June 10; Serial No. 496,729; published Nov. 12, 1946.

Vegetables, fresh deciduous fruits, Fresh. Alexander Marketing Company. 226,096; renewed Mar. 29, 1947. O. G. June 10.

Walnuts. California Walnut Growers Association. 225,244; renewed Mar. 15, 1947. O. G. June 10.

Wheat-flour. George Urban Milling Company. 61,875–8; re-renewed Apr. 9, 1947. O. G. June 10.

CLASS 48

Malt extract. Malt-Diastase Company. 61,995; re-renewed Apr. 16, 1947. O. G. June 10.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Di Ianni, Emanuel, Norristown, Pa. Garment fastening device. Re. 22,888; June 10.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 738; June 10.

Hill, E. G., Company, The, assignee: *See*—
Jelly, Robert G.

Jackson & Perkins Company, assignee: *See*—
Boerner, Eugene S.

Jelly, Robert G., assignor to The E. G. Hill Company, Richmond, Ind. Rose plant. 737; June 10.

LIST OF DESIGN PATENTEES

Aztec Supply Co., assignee: *See*—
Goddard, Raymond J., and Dalkoff.

Bailey, Candus R., Lewiston, Idaho. Toy cat or the like. 146,892; June 10.

Bannister, Harry T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Automobile grille bar. 146,893; June 10.

Bellville, Bernard, St. Louis, Mo. Child's rocker. 146,894; June 10.

Bendix Aviation Corporation, assignee: *See*—
Glover, James F.

Brohard, Montie M., Jr., Cincinnati, Ohio. Shirt. 146,895; June 10.

Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Jewelry pin or similar article. 146,896; June 10.

Chrysler Corporation, assignee: *See*—
Bannister, Harry T.

Clark, Robert A., Jr., Chicago, Ill. Lamp fixture. 146,897; June 10.

Consolidated Razor Blade Co. Inc., assignee: *See*—
Hornung, Clarence P.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Dalkoff, Leonard: *See*—
Goddard, Raymond J., and Dalkoff.

Daniels, Elmer H., Pasadena, assignor to The Plomb Tool Company, Los Anegeles, Calif. Handle for screwdrivers and the like. 146,898; June 10.

Daniels, Elmer H., Pasadena, assignor to The Plomb Tool Company, Los Angeles, Calif. Hammer head. 146,899; June 10.

Fearn, George E., assignor to Kaufman-Ruderman Co. Inc., New York, N. Y. Pin or similar article. 146,900; June 10.

Fiorio, Ciro A., Northfield, Ill. Birdbath. 146,901; June 10.

Freedman, Jules, New York, N. Y. Suit. 146,902; June 10.

Friedman, Beatrice, New York, N. Y. Embroidered trimming or the like. 146,903; June 10.

Friedman, Beatrice, New York, N. Y. Embroidered trimming or the like. 146,904; June 10.

Genske, Hugh, Philadelphia, Pa. Bottle. 146,905; June 10.

Gibson, Charles W., Chicago, Ill. Vaporizer or similar article. 146,906; June 10.

Glover, James F., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio cabinet or the like. 146,907; June 10.

Goddard, Raymond J., and L. Dalkoff, assignors to Aztec Supply Co., Rock Island, Ill. Cigarette lighter. 146,908; June 10.

Godwin, Owen L., Lakeland, Fla. Fruit squeezer. 146,909; June 10.

Goldstein, Irving, New York, N. Y. Coat. 146,910; June 10.

Goldstein, Irving, New York, N. Y. Coat. 146,911; June 10.

Goldstein, Irving, New York, N. Y. Coat. 146,912; June 10.

Goldstein, Irving, New York, N. Y. Coat. 146,913; June 10.

Grae, Bernard A., Chicago, Ill. Combination shoe polishing kit. 146,914; June 10.

Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co. Inc., Jersey City, N. J. Safety razor or similar article. 146,915; June 10.

Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co., Inc., Jersey City, N. J. Safety razor casing or similar article. 146,916; June 10.

Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co., Inc., Jersey City, N. J. Safety razor or similar article. 146,917; June 10.

Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co., Inc., Jersey City, N. J. Safety razor casing or similar article. 146,918; June 10.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,919; June 10.

Kaufman-Ruderman Co. Inc., assignee: *See*—
Fearn, George E.

Kaupmann, Frederick, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J. Lighter or similar article. 146,920; June 10.

Lambert, Reuben B., assignor to Superedge Corporation, Erie, Pa. Knife sharpener. 146,921; June 10.

Lauro, Frances E., Bronx, N. Y. Lapel watch or similar article. 146,922; June 10.

Leming, Samuel W., Pittsburgh, Pa. Hose supporter. 146,923; June 10.

Marx, Louis, & Company, Inc., assignee: *See*—
Campbell, Laurie J.

McLauchlan, Wallace H., Los Angeles, Calif. Airplane. 146,924; June 10.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 146,925; June 10.

Platt, Joseph B., New York, N. Y., assignor to Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Showcase. 146,926; June 10.

Plomb Tool Company, The, assignee: *See*—
Daniels, Elmer H.

Ramsthal, Alfred F., assignor to West Bend Aluminum Company, West Bend, Wis. Handle for platters and the like. 146,927; June 10.

Ronson Art Metal Works, Inc., assignee: *See*—
Kaupmann, Frederick.

Schreyer, Edward P., Ridgefield, Conn. Perfume container or the like. 146,928; June 10.

Silver, Myer S., Brookline, Mass. Shoe. 146,929; June 10.

Stahl, Harold H., New York, N. Y. Jacket. 146,930; June 10.

Superedge Corporation, assignee: *See*—
Lambert, Reuben B.

Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.

Turton, Arthur A., Los Angeles, Calif. Vehicle. 146,931; June 10.

Wenpetren, Lawrence, Detroit, Mich. Wheeled hobby-horse. 146,932; June 10.

West Bend Aluminum Company, assignee: *See*—
Ramsthal, Alfred F.

Whitman, Stephen F., & Son, Inc., assignee: *See*—
Platt, Joseph B.

Wolf, Jack, Washington, D. C. Screen or the like. 146,933; June 10.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

- Abington Textile Machinery Works, assignee: *See—*
  - Goldsmith, William H., Jr.
- Actiengesellschaft Joh. Jacob Rieter & Cie, assignee: *See—*
  - Preysch, Friedrich.
- Addressograph-Multigraph Corporation, assignee: *See—*
  - Allen, William R., and Sand.
- Agett, Albert H.: *See—*
  - Hull, David C., and Agett.
- Agett, Albert H., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Reacting a ketene with an alpha, beta unsaturated aldehyde. 2,421,976; June 10.
- Aktiebolaget Gotaverken, assignee: *See—*
  - Johansson, Johan E.
- Aktiengesellschaft Fuer Technische Studien, assignee: *See—*
  - Ruegg, Rudolf.
- Albright, Franklin C., San Marino, Calif., assignor to United Aircraft Corporation, East Hartford, Conn. Aircraft tail support and arresting member. 2,421,739; June 10.
- Allen, Frank B., Lower Marion Township, Montgomery County, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Apparatus for handling dust. 2,421,977; June 10.
- Allen-Sherman-Hoff Company, The, assignee: *See—*
  - Allen, Frank B.
- Allen Wales Adding Machine Corporation, assignee: *See—*
  - Lambert, Harry L.
- Allen, William R., Shaker Heights, and C. H. Sand, Willoughby, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del. Drum stop means for printing machines. 2,421,823; June 10.
- Allen, William R., Shaker Heights, and C. H. Sand, Willoughby, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,421,824; June 10.
- Allied Manufacturing and Trading Company, assignee: *See—*
  - Goldstein, David D.
- Allis-Chalmers Manufacturing Company, assignee: *See—*
  - Brundage, John F.
  - Wilson, William F.
- Aluminum Company of America, assignee: *See—*
  - Underwood, James E.
- American Cyanamid Company, assignee: *See—*
  - May, Donald R., and Dixon.
  - Saunders, Kenneth W.
  - Seaman, William.
- American Hoist & Derrick Co., assignee: *See—*
  - Stoddard, Robert J.
- American Optical Company, assignee: *See—*
  - Joyce, William J.
  - Peck, William F.
- American Steel Foundries, assignee: *See—*
  - Flesch, Norman.
  - Heater, Charles L., and Clasen.
- American Telephone and Telegraph Company, assignee: *See—*
  - Avery, Robert C.
  - Hill, Edward W.
  - Martin, Wade B.
  - Smith, Temple C.
- Anchor Hocking Glass Corporation, assignee: *See—*
  - Podel, Abraham.
  - Fonse, Frederick Z.
- Anderson, Earl I., Manhasset, and A. Barco, Jackson Heights, N. Y., assignors to Radio Corporation of America. Ground speed indicator. 2,422,064; June 10.
- Anderson, Frank J., and D. R. Williams, assignors to Monolith Portland Midwest Company, Laramie, Wyo. Producing aluminum oxide substantially free from silica. 2,421,918; June 10.
- Andrews, Hervey N., San Francisco, Calif. Roof gutter assembly. 2,421,978; June 10.
- Anselmi, Anthony C., assignor to Hellermann Electric Limited, Oxford, England. Device for stretching flexible members. 2,422,065; June 10.
- Arey, Fred C.: *See—*
  - Hibner, De Los E., and Arey.
- Arrow-Hart & Hegeman Electric Company, The, assignee: *See—*
  - Bentley, Robert H.
- Arundale, Erving, Colonia, and L. A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company. Producing polyhydric alcohols. 2,421,862; June 10.
- Atlas Powder Company, assignee: *See—*
  - Rolland, Guy F.
  - Taylor, Walter A.
- Attorney General of the United States: *See—*
  - Beck, Richard.
  - Dornier, Claude, Staufer, Wähner, and Bottling.
  - Reiner, August, and Rehm.
- Aulick, Maxwell K., Orlando, Fla., assignor to Scott Aviation Corporation, Lancaster, N. Y. Applying indicia. 2,421,825; June 10.
- Austin, Louis, assignee: *See—*
  - Bloss, Benjamin F.
- Automotive Products Company Limited, assignee: *See—*
  - Brock, William H. J.
- Avery, Robert C., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Telephone routing system. 2,421,919; June 10.
- Babcock & Wilcox Company, The, et al., assignee: *See—*
  - Rowland, Will H., Schueler, and Loughin.
- Bachman, Charles H., Scotia, and V. J. Schaefer, Schenectady, N. Y., assignors to General Electric Company. Production of fluorescent coatings. 2,421,979; June 10.
- Bacon, Leslie R., assignor, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Laundry souring composition. 2,422,066; June 10.
- Baker, John B., Jr., Canton, Ohio. Separable drill bit. 2,421,826; June 10.
- Baldwin Locomotive Works, The, assignor: *See—*
  - Lowy, Robert.
- Ballard, Seaver A.: *See—*
  - Haury, Vernon E., and Ballard.
- Barbic, John S.: *See—*
  - Murad, Bill B., and Barbic.
- Barco, Allen: *See—*
  - Anderson, Earl I., and Barco.
- Barkstrom, Elmer E., Chicago, and E. J. Shaw, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article handling apparatus. 2,421,920; June 10.
- Barry, Richard J., New York, N. Y., and C. H. Lewis, Darien, assignors to W. E. Irving, Glenbrook, Conn. Continuous grating structure. 2,421,980; June 10.
- Bechberger, Paul F., Tenafly, assignor to Bendix Aviation Corporation, Teterboro, N. J. Remote tachometer drive. 2,422,067; June 10.
- Beck, Richard, Wiesbaden, Germany; vested in the Attorney General of the United States. Driving out occlusions of gases like hydrogen from the surface layers of workpieces. 2,421,863; June 10.
- Becker, Henry J., Floral Park, N. Y., assignor to Boeing Aircraft Company, Seattle, Wash. Angle punch unit. 2,421,864; June 10.
- Becker, Ralph W., assignor to M. S. Merril, Denver, Colo. Anchorage for frame straightening apparatus. 2,421,981; June 10.
- Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Pulse echo control system. 2,422,068; June 10.
- Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Automatic gain control for pulse-echo systems. 2,422,069; June 10.
- Beeck, Otto A.: *See—*
  - Smith, Albert E., and Beeck.
- Beeman, Lyle, Ann Arbor, Mich., assignor to The Master Electric Company, Dayton, Ohio. Push-button switch. 2,421,865; June 10.
- Bell Telephone Laboratories, Incorporated, assignee: *See—*
  - Engelhardt, George B.
  - Gannett, Danforth K.
  - Pearson, Gerald L.
  - Rockwood, George H., Jr.
- Bendix Aviation Corporation, assignee: *See—*
  - Bechberger, Paul F.
  - Whitney, Maurice P.
- Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Electric circuit interrupter. 2,421,982; June 10.
- Bentley, Robert H., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Rotary selector switch. 2,421,983; June 10.
- Benzel, Howard A., Marilla, assignor to Scott Aviation Corporation, Lancaster, N. Y. Compressor for hydraulic brake units and the like. 2,421,866; June 10.
- Bettencourt, Joseph G., Berkeley, Calif. Liquid sealed pipe cap. 2,422,070; June 10.
- Betzen, John L., Wichita, Kans. Turning lathe. 2,422,071; June 10.

- Bezosky, Albert A., Myrtle Point, Oreg. Device for warming and reconditioning beer. 2,421,921; June 10.
- Birch, Stephen, Jr., Mahwah, N. J. Bag holder. 2,421,740; June 10.
- Birdsboro Steel Foundry and Machine Co., assignee: *See—*
  - Laussucq, Harry P. L., and Japikse.
- Bizjak, Stanley, Crivitz, Wis. Tractor. 2,421,867; June 10.
- Blodgett, Edward D., Haddonfield, N. J., assignor to Radio Corporation of America. Radio compass. 2,422,072; June 10.
- Bloss, Benjamin F., assignor of fifty per cent to L. Austin, Chillicothe, Mo. Sign holder and support. 2,421,741; June 10.
- Bludworth, Joseph E., and D. P. Easter, Cumberland, Md., assignors to Celanese Corporation of America. Acetal compounds. 2,421,770; June 10 .
- Bobrow, Edwin N., East Orange, N. J., assignor to Radio Corporation of America. Material for gettering electron discharge devices. 2,421,984; June 10.
- Bocchino, Ernest, Clifton, N. J. Turning and folding meat roast rack. 2,421,922; June 10.
- Boehm, Robert M., Laurel, Miss., H. E. Hall, Lyle, Tenn., and J. A. MacDonald, Rutherford, N. J., assignors to Masonite Corporation, Laurel, Miss. Preparation of clarified sugar solutions for fermentation, etc. 2,421,985; June 10.
- Boeing Aircraft Company, assignee: *See—*
  - Becker, Henry J.
  - Strandberg, Charles H.
- Bohman, David L., Ashland, Mass., assignor to Telechron Inc. Alarm clock and switch. 2,421,986; June 10.
- Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Radio direction finder. 2,422,073; June 10.
- Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Radio pulse transmission system. 2,422,074; June 10.
- Borell, George L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control system. 2,422,162; June 10.
- Borg, George W., Corporation, assignee: *See—*
  - Gibbs, Thomas B.
- Bottling, Franz: *See—*
  - Dornier, Claude, Staufer, Wähner, and Bottling.
- Bovee, Ransom Y., Van Nuys, Calif. Barrel type engine. 2,421,868; June 10.
- Boyd, Carl N., Hollydale, Calif. Apparatus for reproducing shapes. 2,421,827; June 10.
- Braden, Charles C., Tucson, Ariz. Rivet bucking tool. 2,421,987; June 10.
- Bradley & Gilbert Company, The, assignee: *See—*
  - Vatter, Clifford C.
- Bray, Malcolm D., Fishkill, assignor to The Texas Company, New York, N. Y. Stabilized lubricating emulsions. 2,422,075; June 10.
- Brock, William H. J., assignor to Automotive Products Company Limited, Leamington Spa, England. Automatically adjustable force transmitting link. 2,421,869; June 10.
- Broder, Anton: *See—*
  - Gubser, Anton, and Broder.
- Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,422,076; June 10.
- Brown, George H., and O. M. Woodward, Jr., Princeton, N. J., assignors to Radio Corporation of America. Directive antenna. 2,421,988; June 10.
- Brown, Guy D., assignee: *See—*
  - Hagaman, Albert T.
- Browning, Glenn H., Winchester, Mass. Approach protective system. 2,421,771; June 10.
- Brundage, John F., Oxnard, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Disk harrow with transport means. 2,421,772; June 10.
- Bruney, William E., assignor to Wingfoot Corporation, Akron, Ohio. Fast charge unit. 2,421,828; June 10.
- Bryan, George H., Brighton, assignor to Gleason Works, Rochester, N. Y. Machine for hardening gears. 2,421,989; June 10.
- Buchanan, Leslie B. M., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heat exchange apparatus in refrigeration systems. 2,421,773; June 10.
- Buckwalter, Howard M., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Treatment of cellulosic fibres. 2,422,078; June 10.
- Bucky, Gustav, New York, N. Y. Camera shutter system. 2,422,077; June 10.
- Budd Company, The, assignee: *See—*
  - Pagon, Garret D.
- Buettner, Otto A., Pittsburgh, Pa. Composite aircraft. 2,421,742; June 10.
- Bumgarner, Moses T., San Diego, Calif. Metal hook. 2,421,990; June 10.
- Bunting Brass & Bronze Company, assignee: *See—*
  - Yager, George F.
- Burkholder, Alden H.: *See—*
  - Kline, Hayden B., Burkholder, and Israel.
- Burtle, Jerome G.: *See—*
  - Fleischer, Joseph, and Burtle.
- Burwell, Benjamin H., trustee, assignee, et al.: *See—*
  - Melrose, Adolph E.
- California Research Corporation, assignee: *See—*
  - Elwell, William E., and Furby.
  - Postlewaite, William R.
- Callaway Mills, assignee: *See—*
  - Parker, Samuel P.
- Carborundum Company, The, assignee: *See—*
  - Van Nimwegen, Garret, von Doenhoff, and Wooddell.
- Carlson, Wendell L., and V. D. Landon, Princeton, N. J., assignors to Radio Corporation of America. Frequency modulated altimeter or distance indicator. 2,422,079; June 10.
- Carlson, William A.: *See—*
  - Keene, Walter L., and Carlson.
- Carrière, Cecil A., Schenectady, N. Y., assignor to General Eectric Company. Electric control circuits. 2,421,991; June 10.
- Carrington, Blake W., assignor to The General Industries Company, Elyria, Ohio. Speed compensating motor drive for phonograph turntables. 2,421,911; June 10.
- Carter Carburetor Corporation, assignee: *See—*
  - Martin, Charles L.
- Cartter, William G., and H. A. Duffy, Monrovia, Calif. Metal screen. 2,421,743; June 10.
- Celanese Corporation of America, assignee et al.: *See—*
  - Bludworth, Joseph E., and Easter.
- Chance, Charles E., Washington, D. C. Railway rail leveling and anchoring device. 2,421,992; June 10.
- Chappell, Arthur J.: *See—*
  - Colt, George H., and Chappell.
- Chodor, Abraham, assignor of one-half to N. Fein, Reading, Pa. Shoe heel and making same. 2,421,923; June 10.
- Clasen, Claus J. W.: *See—*
  - Heater, Charles L., and Clasen.
- Clem, Everett W., Shrewsbury, assignor to Rice Barton Corporation, Worcester, Mass. Fourdrinier papermaking machine. 2,421,829; June 10.
- Cleveland Crane & Engineering Company, The, assignee: *See—*
  - Salter, Charles H.
- Cleveland Trencher Company, The, assignee: *See—*
  - Penote, Vincent S.
- Cleveland Universal Jig Company, The, assignee: *See—*
  - Liska, Raymond H.
- Cobi, Walter H., New York, assignor of one-half to J. J. Dougherty, St. Albans, N. Y. Shoe for piles. 2,421,993; June 10.
- Cole Industries, Inc., assignee: *See—*
  - Cole, Louis W. and T. M.
- Cole, Louis W. and T. M., New York, assignors to Cole Industries, Inc., Long Island City, N. Y. Multipole tripping device. 2,421,830; June 10.
- Cole, Thomas M.: *See—*
  - Cole, Louis W. and T. M.
- Coleman, Gerald H., and W. D. Schroeder, assignors to The Dow Chemical Company, Midland, Mich. Ethers of 2-hydroxy-3.5.x-trichloro-diphenyl. 2,421,924; June 10.
- Colgate-Palmolive-Peet Company, assignee: *See—*
  - Percy, Joseph H.
- Collins, Ronald B., and H. O. Dickinson, assignors to Ilford Limited, Ilford, England. Photographic emulsions containing supersensitizing dye combinations. 2,422,080; June 10.
- Colt, George H., London, and A. J. Chappel, Middlesborough, England. Apparatus for enumerating and indicating the number of available seats on the decks of passenger carrying vehicles. 2,421,774; June 10.
- Continental Motors Corporation, assignee: *See—*
  - Jackson, Thomas.
  - Messner, Carlton.
- Cooley, Austin G., New York, N. Y., assignor to Times Facsimile Corporation. Slip-friction coupling. 2,421,925; June 10.
- Cooper, Alfred, Croydon, England, assignor to Rubatex Products, Inc., New York, N. Y. Single stage production of gas expanded. 2,421,831; June 10.
- Cooper, Benjamin, Scotia, N. Y., assignor to General Electric Company. Electric valve system. 2,421,994; June 10.
- Cooper, Benjamin, Scotia, N. Y., assignor to General Electric Company. Electric control circuit. 2,421,995; June 10.
- Cooper, Benjamin, Scotia, N. Y., assignor to General Electric Company. Electric control circuit. 2,421,996; June 10.
- Coronel, Maurits, Bangor, Wales. Jewel carrying tool and making the same. 2,421,926; June 10.
- Cottrell, Frederick G., Washington, D. C., assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Producing nitric oxide. 2,422,081; June 10.
- Cox, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective of the telephoto type. 2,421,927; June 10.
- Crake, Wilfred S., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Core barrel. 2,421,997; June 10.

Crompton & Knowles Loom Works, assignee: *See*—
Payne, Oscar V.

Cronstedt, Val, Marlboro, assignor to United Aircraft Corporation, East Hartford, Conn. Balancing a turbine rotor. 2,421,832; June 10.

Cronstedt, Val, Marlboro, and W. A. Ledwith, Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Turbine construction. 2,421,833; June 10.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Reactance control circuit. 2,422,082; June 10.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation receiver. 2,422,083; June 10.

Crowther, George A., Manhasset, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Recording mechanism. 2,421,834; June 10.

Curtiss-Wright Corporation, assignee: *See*—
McComb, David J.
Noyes, John.
Trimbach, Clem G.
Vogt, John J.

Cutler-Hammer, Inc., assignee: *See*—
Hansen, Kenneth H.

Cypser, Hugo F., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Electrical circuit controlling device. 2,421,998; June 10.

Dahlman, Eben D., Grandy, Minn. Potato digger and picker. 2,421,999; June 10.

Daniels, Farrington, W. G. Hendrickson, and F. M. Wolf, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Gas reaction furnace. 2,421,744; June 10.

Dantzig, George B., Arlington, Va. Computer for solving bombing problems. 2,421,745; June 10.

D'Ardenne, Walter H.: *See*—
Lambert, Albert L., and D'Ardenne.

Davidson, William A.: *See*—
Matthew, Jessie R., and Davidson.

Davis, Samuel R., assignor to Maryland Plastics, Inc., Federalsburg, Md. Mold and method of molding. 2,421,928; June 10.

Deger, Thomas E.: *See*—
Wolf, George M., and Deger.

Dickey, Joseph B.: *See*—
McNally, James G., and Dickey.

Dickey, Joseph B., Rochester, N. Y., and J. G. McNally, Oak Ridge, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Method of preparing sulfoalkyl ethers of cellulose. 2,422,000; June 10.

Dickinson, Harold O.: *See*—
Collins, Ronald B., and Dickinson.

Dienner, John A., assignee: *See*—
Tornquist, Earl L.

Dixon, James K.: *See*—
May, Donald R., and Dixon.

Dixon, James K., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Catalytic conversion of aromatic compounds. 2,422,163; June 10.

Dixon, James K., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Catalytic producing aromatic compounds. 2,422,164; June 10.

Dixon, James K., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of aromatic compounds. 2,422,165; June 10.

Dixon, James K., Riverside, and D. R. May, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Producing aromatic compounds. 2,422,166; June 10.

Doane, Foster B., Wilmette, assignor to Magnaflux Corporation, Chicago, Ill. Method and apparatus for magnetic testing. 2,421,775; June 10.

Dollinger, Lewis L., assignor to Staynew Filter Corporation, Rochester, N. Y. Filter device. 2,421,776; June 10.

Dorner, Frank H. C., assignor to Whitehall Machine and Tools Limited, Galt, Ontario, Canada. Fishing rod handle. 2,422,084; June 10.

Dornier, Claude, F. Staufer, and H. Wähner, Friedrichshafen-on-the-Bodensee, and F. Bottling, Friedrichshafen-Manzell, Germany; vested in the Attorney General of the United States. Air brake for aircraft. 2,421,870; June 10.

Dougherty, John J., assignee: *See*—
Cobi, Walter H.

Dow Chemical Company, The, assignee: *See*—
Coleman, Gerald H., and Schroeder.

Dowty, George H., Cheltenham, England. Leg structure for mounting aircraft landing elements. 2,421,871; June 10.

Duffy, Charles H., Miami, Fla. Masking attachment for photographic cameras. 2,421,746; June 10.

Duffy, Harold A.: *See*—
Cartter, William G., and Duffy.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Sperati, Carleton A.

Durant, Lyndon A., Chicago, Ill. Time controlled mechanism for phonograph apparatuses. 2,421,835; June 10.

Durbin, Votaw S., Ladue Village, Mo. Construction of load binders. 2,422,001; June 10.

Easter, Donald P.: *See*—
Bludworth, Joseph E., and Easter.

Eastman Kodak Company, assignee: *See*—
Agett, Albert H.
Dickey, Joseph B., and McNally.
Glassey, Courtney Q.
Hull, David C., and Agett.
Hutchison, Miller R., Jr.
McNally, James G., and Dickey.
Mihalyi, Joseph.

Edison, Thomas A., Incorporated, assignee: *See*—
Proctor, George N.
Somers, Richard M., and Van Camp.

Eek, Albin C., Webster Groves, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,421,777; June 10.

Eisler, Charles, South Orange, N. J. Machine for sealing bulbs. 2,421,929; June 10.

Elwell, William E., Berkeley, and N. W. Furby, El Cerrito, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Neutral, highly unsaturated polymeric composition and producing same. 2,422,002; June 10.

Engelhardt, George B., Hartsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Object locating system. 2,421,747; June 10.

English Electric Company Limited, The, assignee: *See*—
Seewer, Paul W.

Etling, Harold A., Marshallville, assignor to Weather-Seal, Inc., Barberton, Ohio. Window ventilator. 2,422,085; June 10.

Eureka Williams Corporation, assignee: *See*—
Jones, Hilten E.

Evans, John, Kingston, N. J., assignor to Radio Corporation of America. Pulse producing apparatus. 2,422,086; June 10.

Evans Products Company, assignee: *See*—
Farber, Eduard.

Evelyn, Steven F., Southampton, Mass., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Compressor regulator. 2,421,872; June 10.

Everett, Frederick C., Brecksville, Ohio, assignor to Radio Corporation of America. Carrier wave detector circuit. 2,422,087; June 10.

Fairey Aviation Company Limited, The, assignee: *See*—
Forsythe, Archibald G.

Farber, Eduard, Washington, D. C., assignor, by mesne assignments, to Evans Products Company, Detroit, Mich. Wood battery separator and producing same. 2,422,003; June 10.

Fein, Nathan, assignee: *See*—
Chodor, Abraham.

Ferris, Warren R., Kingston, N. J., assignor to Radio Corporation of America. Electronic discriminator. 2,422,088; June 10.

Field and Flint Co., assignee: *See*—
Maguire, John J.

Fink, Raymond E., Foxon, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Merchandise carton. 2,421,748; June 10.

Fleischer, Joseph, and J. G. Burtle, Alton, Ill., assignor to Olin Industries, Inc. Initiating explosives. 2,421,778; June 10.

Flesch, Norman, assignor to American Steel Foundries, Chicago, Ill. Brake. 2,422,004; June 10.

Fletcher, Harry H., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Manufacture of chlorinated quinones. 2,422,089; June 10.

Fletcher Trust Company, assignee: *See*—
Starkey, William C.

Ford Instrument Company, Inc., assignee: *See*—
Crowther, George A.

Ford Motor Company, assignee: *See*—
Rivard, Lawrence B., and Jensen.

Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Governor for variable pitch propeller systems. 2,421,873; June 10.

Fort, Dorathea L.: *See*—
Harmon, Cline H., and Fort.

Foster, Hebern B., Lubbock, Tex. Cotton picker's sack carrier. 2,421,779; June 10.

Fouse, Frederick Z., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Discharge table. 2,421,874; June 10.

Frank, Louis, Fellows, Calif. Food chopper. 2,422,005; June 10.

Frear, William, Fox Chase, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Socket structure. 2,421,780; June 10.

Freeman, Robert M., U. S. Navy. Torpedo director. 2,421,749; June 10.

French Oil Mill Machinery Co., The, assignee: *See*—
Simon, Forrest C.

Friedman, Jack J., Cleveland, Ohio. Traction device. 2,422,006; June 10.

Fuess, Billings S., West Orange, N. J. Powder container. 2,422,090; June 10.

Furby, Neal W.: *See*—
Elwell, William E., and Furby.

Gallimore, Marshall R., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Clutch and sprocket assembly. 2,421,875; June 10.

Gannett, Danforth K., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic wire storage unit. 2,421,750; June 10.

Gardner-Richardson, Company, The, assignee: *See*—
Ringler, William A.

Gear Grinding Machine Company, The, assignee: *See*—
Mustonen, Reino H.

Geirnaert, René L. R. R., Brussels, Belgium. Mechanism for the advancement of the carriage of typewriters and the like. 2,421,930; June 10.

General Electric Company, assignee: *See*—
Bachman, Charles H., and Schaefer.
Bennett, Ralph S.
Carriere, Cecil A.
Cooper, Benjamin.
Kingsmill, Robert E.
Paluev, Konstantin K.
Rader, Louis T.
Ramo, Simon.
Whinnery, John R.
Wotring, Gaylord H.

General Industries Company, The, assignee: *See*—
Carrington, Blake W.
Hartman, Herbert L.
Roe, Howard A.

General Motors Corporation, assignee: *See*—
Neal, Duane R.

General Spring Corporation, assignee: *See*—
Wood, Joseph K.

Geneto Corporation, assignee: *See*—
Upton, Frederick P.

Gerhart, Howard L., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Copolymer of styrene and a polyester of endomethylene tetrahydrophthalic acid and a glycol. 2,421,876; June 10.

Germany, Leslie W., assignor to Pye Limited, Cambridge, England. Automatic starting arrangement for synchronous motors. 2,421,931; June 10.

Gibbs, Thomas B., Delaven, Wis., assignor, by mesne assignments, to George W. Borg Corporation, Chicago, Ill. Watch timing recorder. 2,421,781; June 10.

Gibbs, William J., and E. F. Smith, Brooklyn, N. Y. Dispenser for tableware. 2,421,782; June 10.

Gilbert, Walter, Sr., Johnstown, assignor to Syntron Company, Homer City, Pa. Rotary seal member. 2,422,007; June 10.

Giordano, Michael, Brooklyn, N. Y. Collapsible shopping cart. 2,421,751; June 10.

Glassey, Courtney Q., assignor to Eastman Kodak Company, Rochester, N. Y. Airspaced photographic support. 2,422,008; June 10.

Glatz, Edward D., Kenmore, N. Y. Position indicator for aircraft in flight. 2,421,783; June 10.

Gleason Works, assignee: *See*—
Bryan, George H.

Godshalk, James B.: *See*—
Perley, George A., and Godshalk.

Goetze, Frederick W., deceased, by M. C. Goetze, executrix, Franklin Township, Somerset County, N. J., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Self-sealing ring-joint gasket. 2,422,009; June 10.

Goetze, Margie C., executrix: *See*—
Goetze, Frederick W.

Goff, David C., Omaha, Nebr. Roof. 2,422,010; June 10.

Goldberg, Moses, Montclair, assignor to Hoffman-La Roche, Inc., Roche Park, Nutley, N. J. Keto-sulfones. 2,421,836; June 10.

Goldsmith, William H., Jr., Brookline, assignor to Abington Textile Machinery Works, Boston, Mass. Stripping carding apparatus. 2,422,011; June 10.

Goldstein, David D., assignor to Allied Manufacturing and Trading Company, Pittsburgh, Pa. Sole for footwear. 2,421,932; June 10.

Goldstine, Hallan E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Dimension measuring device. 2,421,933; June 10.

Golfieri, Amelia, New York, N. Y. Combination head and neck covering. 2,421,934; June 10.

Gosnell, Joseph H., Jr., Minneapolis, Minn. Die. 2,421,935; June 10.

Gould, Clarence D., Bronx, N. Y., assignor to Talon, Inc. Top stop for slide fasteners. 2,422,091; June 10.

Greenlee, Lyman E., Anderson, Ind. Electric fence impulse control system. 2,422,012; June 10.

Gregg, Wilks B., Denver, Colo. Traction shoe. 2,422,092; June 10.

Griffin, John B., Oakville, Conn., assignor to United States Rubber Company, New York, N. Y. Slide fastener. 2,422,093; June 10.

Gromiller, Inc., assignee: *See*—
Miller, Grover C.

Gross, Bernard, San Diego, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Suction attachment. 2,421,877; June 10.

Gubser, Anton, Riedern, and A. Broder, Sargans, Switzerland. Device for tying wire around an article. 2,421,878; June 10.

H-P-M Development Corporation, assignee: *See*—
Muller, Johan A.

Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Production of octenes. 2,421,936; June 10.

Haeseler, Leonard W., Merchantville, and S. H. Watson, Audubon, N. J., assignors to Radio Corporation of America. Ultra high frequency apparatus. 2,421,784; June 10.

Hagaman, Albert T., assignor of one-third to G. D. Brown, Gauley Bridge, W. Va. Ice chipping machine. 2,422,094; June 10.

Hall, Horace E.: *See*—
Boehm, Robert M., Hall, and MacDonald.

Haller, John, Northville, and L. V. Thompson, assignors to Steel Tank Corporation, Detroit, Mich. Vertical cutting machine. 2,422,095; June 10.

Hamer, Leland S., Long Beach, Calif. Plug valve. 2,421,879; June 10.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Direction finding system. 2,422,096; June 10.

Hansen, Kenneth H., White Plains, N. Y., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,422,097; June 10.

Hardman, Albert F., assignor to Wingfoot Corporation, Akron, Ohio. Hydroxy-cyanoalkyl naphthalenes. 2,421,837; June 10.

Harmon, Cline H., and D. L. Fort, assignors to Waterloo Foundry Company, Waterloo, Iowa. Closure for exhaust pipes. 2,421,838; June 10.

Harmon, Nathaniel O., Los Angeles, Calif. Oil cracking unit. 2,421,880; June 10.

Hartford National Bank and Trust Company, assignee: *See*—
Vermeulen, Roelof.

Hartman, Herbert L., assignor to The General Industries Company, Elyria, Ohio. Turntable drive for phonographs. 2,421,910; June 10.

Hathaway, Jarrett L., Manhasset, N. Y., assignor to Radio Corporation of America. Electric altimeter. 2,421,785; June 10.

Haug, Eugene H., Glencoe, assignor to La Salle National Bank, Chicago, Ill., as trustee. Circuit control apparatus. 2,421,786; June 10.

Haury, Vernon E., El Cerrito, assignor to Shell Development Company, San Francisco, Calif. Production of imines. 2,421,937; June 10.

Haury, Vernon E., El Cerrito, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Preparation of imines. 2,422,013; June 10.

Heasty, Humphrey N., Milwaukee, Wis. Wall switch. 2,421,881; June 10.

Heater, Charles L., and C. J. W. Clasen, assignors to American Steel Foundries, Chicago, Ill. Truck. 2,422,014; June 10.

Heintz Manufacturing Company, assignee: *See*—
Lambert, Albert L., and d'Ardene.

Heintzelman, Leo A., Grand Rapids, Mich. Propeller blade. 2,422,098; June 10.

Held, Thomas R., Aurora, Ill., assignor to Stephens-Adamson Mfg. Co. Materials sampler. 2,421,938; June 10.

Hellermann Electric Limited, assignee: *See*—
Anselmi, Anthony C.

Hellstrom, Arthur W., Chicago, assignor to Kropp Forge Aviation Co., Cicero, Ill. Water-cooled furnace door. 2,422,015; June 10.

Helmuth, Richard E., assignor to Harper J. Ransburg Company, Indianapolis, Ind. Electrostatic coating method. 2,421,787; June 10.

Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Integrating weighing scale. 2,244,167; June 10.

Hendrickson, William G.: *See*—
Daniels, Farrington, Hendrickson, and Wolf.

Henry, Albert R., Salina, assignor to Henry Manufacturing Company, Inc., Topeka, Kans. Drum-cable attaching means. 2,421,788; June 10.

Henry Manufacturing Company, Inc., assignee: *See*—
Henry, Albert R.

Hibner, De Los E., and F. C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation. Leak reducer for joints between relatively rotatable conduits. 2,421,939; June 10.

Hibner, De Los E., and F. C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation. Power driven soot blower. 2,421,940; June 10.

Hibner, De Los E., and F. C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation. Valve mechanism for soot blowers. 2,421,941; June 10.

Hiergesell, Frank O. V., Philadelphia, Pa. Guarded fire alarm thermostat. 2,421,942; June 10.

Hilker, Harrison F.: *See*—
Thurston, Paul L., Hilker, and Welker.

Hill, C. V., & Company, Inc., assignee: *See*—
MacMaster, Malcolm D.

Hill, Edward W., Takoma Park, Md., assignor to American Telephone and Telegraph Company. Telephone traffic indicating apparatus. 2,421,943; June 10.

Hiller, Siegfried, New York, N. Y. Apparatus for the production of comminuted particles. 2,422,099; June 10.

Hobson, H. M., Limited, assignee: *See—*
Simpson, Thomas.
Hoffmann-La Roche, Inc., assignee: *See—*
Goldberg, Moses W.
Hogue, James T., deceased, San Francisco,; by L. M. Hogue, widow and sole owner, Fresno, Calif. Angle calculator for structural members. 2,421,882; June 10.
Hogue, Lenna M., widow and sole owner: *See—*
Hogue, James T.
Holleron, William K., Victoria, Tex. Ditching machine. 2,421,883; June 10.
Holmes, Carl L., Glendale, Calif. Parallel piston engine. 2,421,884; June 10.
Hotpoint Inc., assignee: *See—*
Koertge, Nobel H.
Oakley, Sterling A.
Howe, Wallace L., West Boylston, and L. S. Washburn, assignors to Norton Company, Worcester, Mass. Pulpstone. 2,421,885; June 10.
Howe, Wallace L., West Boylston, and L. S. Washburn, assignors to Norton Company, Worcester, Mass. Pulpstone. 2,421,886; June 10.
Huff, Henry S., Princeton, N. J., assignor to Radio Corporation of America. Position determining system. 2,422,100; June 10.
Hughes, William, Consett, England. Synchronized control gear. 2,421,944; June 10.
Hull, David C., Oak Ridge, and A. H. Agett, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing acetone and acetate esters. 2,422,016; June 10.
Hunt, Gerald R., Riverside, Calif. Connection for well equipment. 2,421,945; June 10.
Hunt, Richard H., Jr., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Finishing plastic compositions. 2,422,017; June 10.
Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Camera shutter. 2,422,018; June 10.
Huthsing, Charles K., Grosse Pointe Farms, Mich. Making recoil preventing nozzles. 2,421,887; June 10.
I. T. E. Circuit Breaker Company, assignee: *See—*
Scott, William M., Jr.
Ilford Limited, assignee: *See—*
Collins, Ronald B., and Dickinson.
Industrial Rayon Corporation, assignee: *See—*
Kline, Hayden B., Burkholder, and Israel.
Ingham, William B., Maynard, Mass. Anchor chain link. 2,421,789; June 10.
International Harvester Company, assignee: *See—*
Majer, Frank G.
Vandenberg, Clarence E.
Interwoven Stocking Company, assignee et als.: *See—*
Thurston, Paul L., Hilker, and Welker.
Ipatieff, Vladimir N.: *See—*
Haensel, Vladimir, and Ipatieff.
Ipatieff, Vladimir N., Chicago, and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons. 2,421,946; June 10.
Irving, Walter E., assignee: *See—*
Barry, Richard J., and Lewis.
Israel, William O.: *See—*
Kline, Hayden B., Burkholder and Israel.
Jackson, Thomas, North Muskegon, assignor to Continental Motors Corporation, Muskegon, Mich. Diffuser for centrifugal blowers. 2,421,888; June 10.
Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Friction support for lids. 2,421,889; June 10.
Japikse, Bertrand: *See—*
Laussucq, Harry P. L., and Japikse.
Jensen, Walter: *See—*
Rivard, Lawrence B., and Jensen.
Jerome, Arthur L.: *See—*
Pascoe, Frank T., and Jerome.
Johannsen, Homer V., Chicago, Ill. Terrestrial globe. 2,422,101; June 10.
Johansson, Johan E., Gothenburg, Sweden, assignor to Aktiebolaget Gotaverken. Turbine blade. 2,421,890; June 10.
Johns-Manville Corporation, assignee: *See—*
Goetze, Frederick W.
Johnson, Miles E., assignee, et al, trustee: *See—*
Melrose, Adolph E.
Jones, Hilten E., Detroit, Mich., assignor to Eureka Williams Corporation. Rocket projectile. 2,421,752; June 10.
Joyce, William J., assignor to American Optical Company, Southbridge, Mass. Means for unblocking lenses. 2,421,753; June 10.
Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Gas valve. 2,421,839; June 10.
Keeler Brass Company, assignee: *See—*
Jakeway, Gerald V.
Keene, Walter L., Dormont, and W. A. Carlson, assignors to Superior Steel Corporation, Pittsburgh, Pa. Composite billet and manufacture thereof. 2,421,891; June 10.
Keith, Kenneth M.: *See—*
Ronning, Martin, and Keith.
Kemp, Harold Jesse, Swift Current, Saskatchewan, Canada. Seed treating and handling device. 2,422,019; June 10.
Kingsmill, Robert E., Schenectady, N. Y., assignor to General Electric Company. Electric control circuit. 2,422,020; June 10.
Kirby Development Corporation, assignee: *See—*
Kirby, George L.
Kirby, George L., Houston, assignor to Kirby Development Corporation, San Antonio, Tex. Marine tower and placing same. 2,422,168; June 10.
Kirschbraun, Lester, Leonia, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y. Seal-down composition shingle. 2,421,892; June 10.
Kistler Lesh & Company, assignee: *See—*
Yukob, Peter.
Kline, Hayden B., and A. H. Burkholder, Cleveland, and W. O. Israel, Lakewood, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Manufacture of thread or the like. 2,422,021; June 10.
Kline, William C., Oak Lawn, Ill. Coffee roasting apparatus. 2,422,102; June 10.
Knapp-Monarch Co., assignee: *See—*
Moeller, George L.
Koertge, Nobel H., Glen Ellyn, Ill., assignor to Hotpoint Inc. Dish washing and drying apparatus. 2,422,022; June 10.
Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Ultra high frequency ignition device. 2,421,790; June 10.
Kropp Forge Aviation Co., assignee: *See—*
Helstrom, Arthur W.
Kropp Forge Company, assignee: *See—*
Kropp, Roy A.
Kropp, Roy A., River Forest, assignor to Kropp Forge Company, Cicero, Ill. Tread plate. 2,422,023; June 10.
Lambert, Albert L., Narberth, and W. H. D'Ardenne, Jenkintown Manor, assignors to Heintz Manufacturing Company, Philadelphia, Pa. Rocket firing control mechanism. 2,421,893; June 10.
Lambert, Harry L., Enfield, assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y. Duplex calculating machine. 2,422,103; June 10.
Landon, Vernon D.: *See—*
Carlson, Wendell L., and Landon.
La Salle National Bank, assignee, trustee: *See—*
Haug, Eugene H.
Laussucq, Harry P. L., Reading, and B. Japikse, Reiffton, assignors to Birdsboro Steel Foundry and Machine Co., Birdsboro, Pa. Hydraulic power press control. 2,422,104; June 10.
Lear, Incorporated, assignee: *See—*
Lear, William P.
Lear, William P., North Hollywood, Calif., assignor by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Electrical contactor system. 2,421,947; June 10.
Lear, William P., North Hollywood, Calif., assignor by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Dual radio direction finder. 2,421,948; June 10.
Lear, William P., North Hollywood, Calif., assignor by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Centrifugal brake and clutch unit. 2,421,949; June 10.
Lechthaler, Charles H., and J. W. Payne, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Cleaning of contact masses by gaseous suspension and delivery thereof to a downwardly moving bed. 2,421,840; June 10.
Ledwith, Walter A.: *See—*
Cronstedt, Val., and Ledwith.
Lee, Jess Max, Los Angeles, Calif. Furnace truck. 2,421,894; June 10.
Leebow, Mortimer, Lawrence, N. Y. Shoulder pad. 2,421,895; June 10.
Leeds and Northrup Company, assignee: *See—*
Perley, George A., and Godshalk.
Legat, Robert C., New Britain, assignor to The G. E. Prentice Mfg. Co., Kensington, Conn. Slider for fasteners. 2,421,791; June 10.
Lehman, Eugene W., assignee: *See—*
Pritchard, Charles A. G.
Lehrer, William, assigner to Surface Combustion Corporation, Toledo, Ohio. Cooling apparatus for heat-treated work using air jets. 2,422,105; June 10.
Levey, Harold A., and A. C. Patterson, New Orleans, La., said Levey assignor to said Patterson. Apparatus for producing smoke screens. 2,422,024; June 10.
Levine, Ely H., New Britain, Conn. Detachable boot and shoe heel. 2,421,792; June 10.
Lewis, Clarence H.: *See—*
Barry, Richard J., and Lewis.
Libbey-Owens-Ford Glass Company, assignee: *See—*
Meyer, Leonard S.
Linn, Carl B.: *See—*
Ipatieff, Vladimir N., and Linn.
Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons. 2,421,950; June 10.

Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons. 2,421,951; June 10.
Lipsius, Samuel, New York, N. Y. Purification of copals. 2,421,952; June 10.
Liska, Raymond H., assignor to The Cleveland Universal Jig Company, Cleveland, Ohio. Broach carriage. 2,421,793; June 10.
Little, William E., and William S. McKinstry, Richmond, Calif. Pitchometer attachment. 2,421,754; June 10.
Loughin, Paul R.: *See—*
Rowand, Will H., Schueler and Loughin.
Lowy, Robert, Philadelphia, Pa., assignors to The Baldwin Locomotive Works. Seal for hydraulic turbines and pumps. 2,421,841; June 10.
Lubbehusen, Raymond E., Webster Groves, assignor to Ralston Purina Company, St. Louis, Mo. Santonin-phenothiazine vermifuge. 2,422,106; June 10.
Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Navigational position plotting. 2,422,025; June 10.
Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,026; June 10.
Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Omnidirectional radio range. 2,422,110; June 10.
Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finder. 2,422,107; June 10.
Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,108; June 10.
Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,109; June 10.
Lummus Company, The, assignee: *See—*
Schutte, August H.
Lundberg, Roland O., Chicago, Ill. Cutoff saw. 2,422,111; June 10.
Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,755; June 10.
Lyon, George A., Allenhurst, N. J. Vehicle wheel cover. 2,421,756; June 10.
MacDonald, Joseph A.: *See—*
Boehm, Robert M., Hall, and MacDonald.
Machlett Laboratories, Inc., assignee: *See—*
Skehan, Joseph W.
Skehan, Joseph W., and Magnusson.
MacKendrick, David B., New York, N. Y. Electric heating pad control. 2,421,953; June 10.
MacMaster, Malcolm D., Woodside, Pa., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerated display case. 2,421,896; June 10.
Maeser, Mieth, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Gun platform. 2,421,794; June 10.
Magnaflux Corporation, assignee: *See—*
Doane, Foster B.
Magnusson, Bror K. M.: *See—*
Skehan, Joseph W., and Magnusson.
Maguire, John J., assignor to Field and Flint Co., Brockton, Mass. Method of making insoles. 2,422,027; June 10.
Majer, Frank G., Berwyn, Ill., assignor to International Harvester Company. Armature brush. 2,421,795; June 10.
Maling, Roy, Chestnut Hill, Mass. Open-toe shoe 2,421,796; June 10.
Malone, Carl S.: *See—*
Varon, Max A., and Malone.
Malone, Homer F., assignor to Stewart-Warner Corporation, Chicago, Ill. Pressure switch. 2,421,797; June 10.
Marshall, Herman R., Carrollton, Ga. Dasher for churns. 2,421,798; June 10.
Marsilius, Newman M., Trumbull, Conn. Milling machine. 2,422,112; June 10.
Martin, Alfred M., Park Ridge, Ill. Loose-leaf binder. 2,421,799; June 10.
Martin, Charles L., Overland, assignor to Carter Carburetor Corporation, St. Louis, Mo. Dual carburetor. 2,421,800; June 10.
Martin, Frederick C., Guttenberg, N. J. Producing tall oil drying oils. 2,421,842; June 10.
Martin, Henry K., Ironwood, Mich., assignor to Reserve Mining Company, Babbit, Minn. Magnetic dewatering and concentrating means for magnetic separators. 2,422,113; June 10.
Martin, Stuart T., Jr., Arlington, Va., assignor to Radio Corporation of America. Cavity resonator magnetron. 2,422,028; June 10.
Martin, Wade B., Ramsey, N. J., assignor to American Telephone and Telegraph Company. Apparatus for indicating teletypewriter speeds. 2,421,954; June 10.
Martinson, John N., assignee, et al., trustee: *See—*
Melrose, Adolph E.
Maryland Plastics, Inc., assignee: *See—*
Davis, Samuel R.
Mason, J. H., assignee, et al.: *See—*
Matthews, Jessie R., and Davidson.
Mason, P. H., assignee, et al.: *See—*
Matthews, Jessie R., and Davidson.
Mason, W. D., assignee, et al.: *See—*
Matthews, Jessie R.; and Davidson.
Masonite Corporation, assignee: *See—*
Boehm, Robert M., Hall, and MacDonald.
Master Electric Company, The, assignee: *See—*
Beeman, Lyle.
Matter, Albert J., Park Ridge, Ill. Quick latch jig. 2,422,114; June 10.
Matthews, Jessie R., and W. A. Davidson, assignors of seventeen one-hundredths to P. H. Mason, W. D. Mason, and J. H. Mason, Norfolk, Va. Object marker. 2,422,115; June 10.
Mauro, Eugene, New York, N. Y. Protecting cap. 2,422,116; June 10.
May, Donald R.: *See—*
Dixon, James K., and May.
May, Donald R., Stamford, and J. K. Dixon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Production of aromatic compounds. 2,422,169; June 10.
McAbee, Frances R., assignor to McAbee Industries, Incorporated, Westport, Conn. Garment. 2,421,955; June 10.
McAbee Industries, Incorporated, assignee: *See—*
McAbee, Frances R.
McCaleb, John D., Baltimore, and J. J. Reis, Jr., Catonsville, Md., assignors to Pittsburgh Plate Glass Company. Dissolving cellulosic esters. 2,421,897; June 10.
McComb, David J., Emsworth, Pa., assignor to Curtiss-Wright Corporation. Manufacture of propeller blades. 2,421,956; June 10.
McKinstry, William S.: *See—*
Little, William E., and McKinstry.
McNally, James G.: *See—*
Dickey, Joseph B., and McNally.
McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Bicyclic compound containing a diphenylamine nucleus. 2,422,029; June 10.
Mead Specialties Company, Inc., assignee: *See—*
Mead, Theodore E.
Mead, Theodore E., Wilmette, Ill, assignor to Mead Specialties Company, Inc. Work holding apparatus. 2,421,957; June 10.
Medveckus, Vincent: *See—*
Voliazzo, Jesse, and Medveckus.
Meitzler, Donald E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Accumulator fuel injection system. 2,421,843; June 10.
Meitzler, Donald E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Fuel injection system. 2,421,844; June 10.
Melrose, Adolph E., Muskegon, Mich., assignor to A. E. Melrose, M. E. Johnson, M. S. Newman, B. H. Burwell, and J. N. Martinson, trustees. Rotary internal-combustion engine of the sliding abutment type. 2,421,898; June 10.
Mercier, Jean, New York, N. Y. Unitary control for plural electric motors. 2,422,117; June 10.
Merrill, Marcellus S., assignee: *See—*
Becker, Ralph W.
Merrill, Marcellus S., Denver, Colo. Apparatus for straightening frames and the like. 2,422,030; June 10.
Merten, Eugen, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Hydraulic well drilling device. 2,422,031; June 10.
Messner, Carlton, assignor to Continental Motors Corporation, Muskegon, Mich. Fuel injector pump structure. 2,421,899; June 10.
Meyer, Leonard S., Toledo, Ohio, assignor, by mesne assignments, to Libby-Owens-Ford Glass Company. Making cores for casting light metal alloys. 2,422,118; June 10.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Film container reel. 2,422,032; June 10.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Orthopseudo stereo range finder. 2,422,033; June 10.
Mikeska, Louis A.: *See—*
Arundale, Erving, and Mikeska.
Miller, Grover C., San Gabriel, assignor to Gromiller, Inc., Los Angeles, Calif. Apparatus for fusing the coating on tablets. 2,421,801; June 10.
Miller, Robert A., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Emergency door apparatus. 2,421,900; June 10.
Minneapolis-Honeywell Regulator Company, assignee: *See—*
Borell, George L.
Minneapolis-Moline Power Implement Company, assignee: *See—*
Ronning, Martin, and Keith.
Moeller, George L., assignor to Knapp-Monarch Co., St. Louis, Mo. Commutator structure. 2,421,845; June 10.
Monolith Portland Midwest Company, assignee: *See—*
Anderson, Frank J., and Williams.
Moore, Maurice L., Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Sulfanilylsulfanilamide. 2,422,170; June 10.
Monsanto Chemical Company, assignee: *See—*
Hunt, Richard H.
Steahly, George W.

- Moretti, Henry, Cranston, R. I. Night light. 2,421,958; June 10.
- Mould, Lyle H., Lady Grey, Cape of Good Hope, Union of South Africa. Self-adjusting stop means for the shoes of internal-expanding brakes. 2,421,802; June 10.
- Muller, Johan A., Dayton, Ohio, assignor to H. P. M. Development Corporation. Control valve. 2,422,119; June 10.
- Murad, Bill B., and J. S. Barbic, Cleveland, Ohio. Mechanical movement. 2,421,901; June 10.
- Muskegon Machine Company, assignee: *See—*
  - Norstrom, Joseph, and Smith.
- Mustonen, Reino H., Detroit, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Gauging device for determining dimensions of rotary members of pumps. 2,422,034; June 10.
- National Folding Box Company, Incorporated, assignee: *See—*
  - Fink, Raymond E.
- National Supply Company, The, assignee: *See—*
  - Gallimore, Marshall R.
- Neal, Duane R., assignor to General Motors Corporation, Dayton, Ohio. Scum overflow for clothes washing machines. 2,421,803; June 10.
- Neuland, Alfons H., Jersey City, N. J. Fluid pressure engine. 2,421,846; June 10.
- Neuschotz, Robert, Los Angeles, Calif. Expanding pearlite and like substances. 2,421,902; June 10.
- Newman, Milo S., assignee, et al., trustee: *See—*
  - Melrose, Adolph E.
- Noble, Edson J., deceased, Shaker Heights, Ohio, M. M. Noble, executrix. Artificial horizon. 2,422,120; June 10.
- Noble, Marion M., executrix: *See—*
  - Noble, Edson J.
- Norris, Lessie E., Atlanta, Ga. Blood extractor. 2,421,959; June 10.
- Norstrom, Joseph, and A. L. Smith, assignors to Muskegon Machine Company, Newburgh, N. Y. Fluid pressure operated brake and adjustment therefor. 2,422,121; June 10.
- Norton Company, assignee: *See—*
  - Howe, Wallace L., and Washburn.
- Norton, Lowell E., Collingswood, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,122; June 10.
- Norton, Lowell E., Princeton, N. J., assignor to Radio Corporation of America. Direction finder. 2,422,123; June 10.
- Noyes, John, Jr., University City, Mo., assignor to The Curtiss-Wright Corporation. Actuating mechanism for aerodynamic surfaces. 2,422,035; June 10.
- Oakley, Sterling A., Lincolnwood, Ill., assignor to Hotpoint, Inc. Apparatus for gaging and assorting bullet cores according to size and shape. 2,422,036; June 10.
- Obermaier, John A., Chicago, Ill. Flexibly mounted thermocouple for measuring surface temperature. 2,422,124; June 10.
- Oetzel, John G., assignor to Warner Electric Brake Manufacturing Company, Beloit, Wis. Electromagnetic friction device. 2,421,757; June 10.
- Olin Industries, Inc., assignee: *See—*
  - Fleischer, Joseph, and Burtle.
- Ovrebo, Paul J., Dayton, Ohio. High power radio-frequency air-calorimeter-wattmeter. 2,421,758; June 10.
- Pacific Car and Foundry Company, assignee: *See—*
  - Wood, Davis M.
- Pagon, Garret D., Conshohocken, assignor to The Budd Company, Philadelphia, Pa. Hinge mounting. 2,421,960; June 10.
- Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Electric induction apparatus. 2,422,037; June 10.
- Pangborn Corporation, assignee: *See—*
  - Potter, Percy J.
- Parisot, Jean F., Paris, France, assignor to Societe Le Carbone Lorraine. Anodes for intensive arcs. 2,422,038; June 10.
- Park, George R., Menaca, Pa. Apparatus for removing meltable metal from articles. 2,421,804; June 10.
- Parker Appliance Company, The, assignee: *See—*
  - Vandervoort, Lorain N.
  - Wolfram, John N.
- Parker, Samuel P., assignor to Callaway Mills, La Grange, Ga. Tufting device. 2,422,125; June 10.
- Parker, Samuel P., assignor to Callaway Mills, La Grange, Ga. Tufting device. 2,422,126; June 10.
- Pascoe, Frank T., Carnegie, and A. L. Jerome, Edgewood, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,422,127; June 10.
- Patent and Licensing Corporation, The, assignee: *See—*
  - Kirschbraun, Lester.
- Patrick, Joseph C., Morrisville, Pa., assignor to Thiokol Corporation, Trenton, N. J. Making triglycol dichloride. 2,421,903; June 10.
- Patterson, Alonzo C.: *See—*
  - Levey, Harold A., and Patterson.
- Payne, John W.: *See—*
  - Lechthaler, Charles H., and Payne.
- Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Power driven letoff for looms. 2,421,961; June 10.
- Pearl, Sherman S., Chelan, Wash. Fruit picking device. 2,421,962; June 10.
- Pearson, Gerald L., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor. 2,421,759; June 10.
- Peck, William F., Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Sealing optical instruments. 2,421,805; June 10.
- Penote, Vincent S., assignor to The Cleveland Trencher Company, Cleveland, Ohio. Trencher. 2,421,904; June 10.
- Percy, Joseph H., New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Preparing purified organic sulphonates. 2,422,128; June 10.
- Perley, George A., Wyncote, and J. B. Godshalk, assignors to Leeds and Northrup Company, Philadelphia, Pa. Measurement of oxygen in gas mixtures. 2,422,129; June 10.
- Permutit Company, The, assignee: *See—*
  - Tiger, Howard L.
- Perry, Frank R., assignor to Turco Products, Inc., Los Angeles, Calif. Cleaning method and material therefor. 2,421,806; June 10.
- Perry, Walter M., Darien, Conn. Making self-locking nuts. 2,421,905; June 10.
- Pfleumer, Hans, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y. Hydraulic closure for autoclaves. 2,421,847; June 10,
- Philco Corporation, assignee: *See—*
  - Frear, William.
  - Tiley, John W.
- Philipps, Alexander, Chicago, Ill. Clothing. 2,421,848; June 10.
- Pittsburgh Plate Glass Company, assignee: *See—*
  - Gerhart, Howard L.
  - McCaleb, John D., and Reis.
  - Miller, Robert A.
- Podel, Abraham, Connellsville, Pa., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Anvil and pivotal jaw operated cap sealing machine. 2,421,963; June 10.
- Poole, Arthur B., Harwinton, Conn. Stator-shell for electric motors. 2,421,906; June 10.
- Postlewaite, William R., Menlo Park, assignor to California Research Corporation, San Francisco, Calif. Well pressure gauge. 2,421,907; June 10.
- Potter, Percy J., assignor to Pangborn Corporation, Hagerstown, Md. Abrasive blasting. 2,421,849; June 10.
- Prentice, G. E., Mfg. Co., The, assignee: *See—*
  - Legat, Robert C.
- Preysch, Friedrich, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie, Winterthur, Switzerland. Production of cops in ring spinning and ring doubling machines. 2,421,908; June 10.
- Pritchard, Charles A. G., Parma, assignor to E. W. Lehman, East Cleveland, Ohio. Clamping means. 2,422,039; June 10.
- Proctor, George N., Verona, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Storage battery plate and separator assembly. 2,422,130; June 10.
- Pye Limited, assignee: *See—*
  - Germany, Leslie W.
- Rader, Louis T., Schenectady, N. Y., assignor to General Electric Company. Magnetic drive. 2,422,040; June 10.
- Radio Corporation of America, assignee: *See—*
  - Anderson, Earl I., and Barco.
  - Bedford, Alda V.
  - Blodgett, Edward D.
  - Bobrow, Edwin N.
  - Bond, Donald S.
  - Brown, George H.
  - Brown, George H., and Woodward.
  - Carlson, Wendell L., and Landon.
  - Crosby, Murray G.
  - Evans, John.
  - Ferris, Warren R.
  - Goldstine, Hallan E.
  - Haeseler, Leonard W., and Watson.
  - Hansell, Clarence W.
  - Hathaway, Jarrett L.
  - Huff, Henry S.
  - Korman, Nathaniel I.
  - Luck, David G. C.
  - Martin, Stuart T., Jr.
  - Norton, Lowell E.
  - Sanders, Royden C., Jr.
  - Sinnett, Chester M.
  - Spooner, John M.
  - Wolff, Irving.
  - Woodward, Oakley M., Jr.
- Ralston Purina Company, assignee: *See—*
  - Lubbehusen, Raymond E.
- Ramo, Simon, Schenectady, N. Y., assignor to General Electric Company. Electron microscope. 2,422,041; June 10.
- Ransburg, Harper J., Company, assignee: *See—*
  - Helmuth, Richard E.
- Regents of the University of Minnesota, assignee: *See—*
  - Smith, Lee I., and Ungnade.

- Rehm, Wilhelm: *See—*
  - Reiner, August, and Rehm.
- Reiner, August, Dresden, and W. Rehm, Berlin, Germany; vested in the Attorney General of the United States. Device for enveloping and sealing flat articles, for example letters. 2,421,964; June 10.
- Reis, Joseph J., Jr.: *See—*
  - McCaleb, John D., and Reis.
- Reserve Mining Company, assignee: *See—*
  - Martin, Henry K.
- Rice Barton Corporation, assignee: *See—*
  - Clem, Everett W.
- Richey, David M., Devon, and B. J. Trayner, Bridgeport, assignors to United Aircraft Corporation, East Hartford, Conn. Explosive-release mechanism. 2,421,807; June 10.
- Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Carrier for merchandise. 2,421,850; June 10.
- Rivard, Lawrence B., Dearborn, and Walter Jensen, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Vehicle seat. 2,421,851; June 10.
- Roberts, Reon B., Fairfield, assignor to United Aircraft Corporation, East Hartford, Conn. Gauging and bending tool for rotor blades. 2,422,042; June 10.
- Robertson, Andrew W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Lining for sinks or the like. 2,421,808; June 10.
- Rockwood & Co., assignee: *See—*
  - Zeeh, Henry A., and Vacher.
- Rockwood, George H., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical control circuit. 2,421,760; June 10.
- Roe, Howard A., assignor to The General Industries Company, Elyria, Ohio. Record changer mechanism for phonographs. 2,421,909; June 10.
- Rogers, Thomas H., Jr., and Robert D. Vickers, assignors to Wingfoot Corporation, Akron, Ohio. Thermosetting composition containing vinyl chloride-vinylidene chloride copolymer. 2,421,852; June 10.
- Rohr Aircraft Corporation, assignee: *See—*
  - Gross, Bernard.
- Rolland, Guy F., McKeansburg, Pa., assignor to Atlas Powder Company, Wilmington, Del. Compound detonator. 2,422,043; June 10.
- Ronning, Martin, St. Louis Park, and K. M. Keith, Minneapolis, assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Tractor mower. 2,422,044; June 10.
- Roth, Bert W.: *See—*
  - Unkles, Edward H., Roth, and Whitney.
- Rowand, Will H., Madison, and L. B. Schueler and P. R. Loughin, Westfield, assignors to The Babcock & Wilcox Company, Newark, N. J. Attemperator. 2,421,761; June 10.
- Rubatex Products, Inc., assignee: *See—*
  - Cooper, Alfred.
  - Pfleumer, Hans.
- Ruben, Samuel, New Rochelle, N. Y. Alkaline dry cell. 2,422,045; June 10.
- Ruben, Samuel, New Rochelle, N. Y. Alkaline dry cell. 2,422,046; June 10.
- Ruegg, Rudolf, assignor to Aktiengesellschaft Fuer Technishe Studien, Zurich, Switzerland. Combined air heater for hot-air turbine and blast furnace. 2,422,131; June 10.
- Safety Car Heating and Lighting Company, Inc., The, assignee: *See—*
  - Schepmoes, Lindsley.
- Salter, Charles H., Cleveland Heights, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Current collector. 2,422,132; June 10.
- Sand, Charles H.: *See—*
  - Allen, William R., and Sand.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Frequency modulated altimeter or distance indicator. 2,422,133; June 10.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Distance indicator. 2,422,134; June 10.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Frequency modulated distance indicator. 2,422,135; June 10.
- Sanford, Hugh W., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del. Mine car. 2,422,136; June 10.
- Sanford Investment Company, The, assignee: *See—*
  - Sanford, Hugh W.
- Sa Pereira, Lino L., Washington, D. C. Navigational computing means. 2,421,965; June 10.
- Saunders, Kenneth W., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Producing aryl compounds. 2,422,171; June 10.
- Schaefer, Vincent J.: *See—*
  - Bachman, Charles H., and Schaefer.
- Schafer, Edward J., Chicago, Ill. Combination shirt and coat. 2,421,966; June 10.
- Schaffan, Stephan, Jr., Irvington, N. J. Miniature railway unit. 2,422,047; June 10.
- Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Fluorescent lighting fixture. 2,421,967; June 10.
- Schindler, Werner, Biel, Switzerland. Copying device. 2,422,137; June 10.
- Schroeder, Wesley D.: *See—*
  - Coleman, Gerald H., and Schroeder.
- Schueler, Lyle B.: *See—*
  - Rowand, Will H., Schueler, and Loughin.
- Schutte, August H., Hastings-on-Hudson, assignor to The Lummus Company, New York, N. Y. Conveying fluids. 2,421,968; June 10.
- Scott Aviation Corporation, assignee: *See—*
  - Aulick, Maxwell K.
  - Benzel, Howard A.
- Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Circuit breaker locking device. 2,421,853; June 10.
- Seaman, William, assignor to American Cyanamid Company, New York, N. Y. Temperature compensator for refractometers. 2,421,854; June 10.
- Seely, Thomas H., Melrose, and F. E. Stratton, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Dieing-out machine. 2,421,809; June 10.
- Seewer, Paul W., Rugby, assignor to The English Electric Company Limited, London, England. Swivelling bladed adjustable pitch propeller. 2,422,138; June 10.
- Sharp & Dohme, Incorporated, assignee: *See—*
  - Moore, Maurice L.
- Sharp, John W., Muncie, Ind. Safety razor blade sharpener. 2,422,048; June 10.
- Sharples Chemicals Inc., assignee: *See—*
  - Wolf, George M., and Deger.
- Shaw, Everett J.: *See—*
  - Barkstrom, Elmer E., and Shaw.
- Shell Development Company, assignee: *See—*
  - Crake, Wilfred S.
  - Haury, Vernon E.
  - Haury, Vernon E., and Ballard.
  - Merten, Eugen.
  - Smith, Albert E., and Beeck.
- Shelly, Franklin E., assignor to Tube Turns, Louisville, Ky. Plug valve. 2,421,969; June 10.
- Sheridan, Hiram W., Oak Park, Ill. Hydraulic remote control system. 2,422,139; June 10.
- Short, Frank, Canton Center, Conn. Hand grenade. 2,421,762; June 10.
- Signal Engineering & Manufacturing Company: *See—*
  - Cypser, Hugo F.
- Simon, Forrest C., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Press cage. 2,421,763; June 10.
- Simpson, Thomas, Kenilworth, assignor to H. M. Hobson Limited, London, England. Injector for fuel or other liquids. 2,421,810; June 10.
- Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Frequency modulated recording and reproducing system. 2,422,140; June 10.
- Skehan, Joseph W., Stamford, assignor to Machlett Laboratories, Inc., Springdale, Conn. Filament structure for electrical discharge devices. 2,422,141; June 10.
- Skehan, Joseph W., and B. K. M. Magnusson, Stamford, assignors to Machlett Laboratories, Inc., Springdale, Conn. Cathode structure for electron discharge devices. 2,422,142; June 10.
- Smith, Albert E., and O. A. Beeck, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Thermostable catalysts for the dehydrogenation of hydrocarbons. 2,422,172; June 10.
- Smith, Alvin L.: *See—*
  - Norstrom, Joseph, and Smith.
- Smith, Ernest F.: *See—*
  - Gibbs, William J., and Smith.
- Smith, Lee I., and H. E. Ungnade, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Producing chroman compounds. 2,421,811; June 10.
- Smith, Lee I., and H. E. Ungnade, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Producing chroman compounds. 2,421,812; June 10.
- Smith, Temple C., Westfield, N. J., assignor to American Telephone and Telegraph Company. Earth boring machine. 2,421,970; June 10.
- Societe: Le Carbone Lorraine, assignee: *See—*
  - Parisot, Jean F.
- Socony-Vacuum Oil Company, assignee: *See—*
  - Lechthaler, Charles H., and Payne.
- Soderberg, Carl R., Weston, Mass., assignor to United Aircraft Corporation, East Hartford, Conn. Turbine blade locking device. 2,421,855; June 10.
- Somers, Richard M., West Orange, and R. C. Van Camp, Madison, assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Magazine type magnetic recorder and reproducer. 2,422,143; June 10.
- Sperati, Carleton A., North Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrolyzed vinyl ester interpolymers. 2,421,971; June 10.
- Sperry Gyroscope Company, Inc., assignee: *See—*
  - Varian, Sigurd F.
- Spooner, John M., Manheim Township, Lancaster County, Pa., assignor to Radio Corporation of America. Electron discharge device of the cavity resonator type. 2,421,912; June 10.
- Staghezza, Luis Venancio, Lomas de Zamora, Argentina. Navigation protractor. 2,421,813; June 10.

Stamberger, Paul, Dover, Del. Vulcanized fatty oil emulsions. 2,422,049 ; June 10.
Standard Oil Development Company, assignee : *See*—
Arundale, Erving, and Mikeska.
Starkey, William C., assignor, by mesne assignments, Fletcher Trust Company, Indianapolis, Ind. Anti-kickback clutch. 2,421,814 ; June 10.
Staufer, Franz : *See*—
Dornier, Claude, Staufer, Wähner, and Bottling.
Staynew Filter Corporation, assignee : *See*—
Dollinger, Lewis L.
Steahly, George W., assignor to Monsanto Chemical Company, St. Louis, Mo. Making 2-amino-5-substituted 1,3,4-thiadiazole. 2,422,050 ; June 10.
Steel Tank Corporation, assignee : *See*—
Haller, John, and Thompson.
Stephens-Adamson Mfg. Co., assignee : *See*—
Held, Thomas R.
Stevens, Charles H., Indianapolis, Ind. Wheel abutment for jacks. 2,422,144 ; June 10.
Stewart-Warner Corporation, assignee : *See*—
Malone, Homer F.
Stoddard, Robert J., assignor to American Hoist & Derrick Co., St. Paul, Minn. Erecting apparatus. 2,421,913 ; June 10.
Strandberg, Charles H., assignor to Boeing Aircraft Company, Seattle, Wash. Nose wheel. 2,421,914 ; June 10.
Stratton, Frank E. : *See*—
Seely, Thomas H., and Stratton.
Superior Steel Corporation, assignee : *See*—
Keene, Walter L., and Carlson.
Surface Combustion Corporation, assignee : *See*—
Lehrer, William.
Swallow, Joseph L., Lombard, assignor to Wells-Gardner & Co., Chicago, Ill. Affixing characters to transparent drums. 2,421,764 ; June 10.
Swanson, Oscar L., Erie, Pa. Holder for articles. 2,422,051 ; June 10.
Syntron Company, assignee : *See*—
Gilbert, Walter, Sr.
Taborski, Alfred F., Buffalo, N. Y. Bow tie. 2,421,972 ; June 10.
Talon, Inc., assignee : *See*—
Gould, Clarence D.
Taylor, Henry P., Walkerton, Va. Feeder for viners. 2,421,815 ; June 10.
Taylor, Lloyd B., Farmington, N. Mex. Portable multiple compartment liquid dispensing system. 2,421,765 ; June 10.
Taylor, Taylor & Hobson Limited, assignee : *See*—
Cox, Arthur.
Taylor, Walter A., Killingworth, Conn., assignor to Atlas Powder Company, Wilmington, Del. Essential oil compositions. 2,422,145 ; June 10.
Teegarden,. Otto V., Goshen, Ind. Tire replacing tool. 2,421,856 ; June 10.
Telechron Inc., assignee : *See*—
Bohman, David L.
Temple, George W., Miami, Fla., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Making collapsible tubes. 2,422,052 ; June 10.
Texas Company, The, assignee : *See*—
Bray, Malcolm D.
Thiokol Corporation, assignee : *See*—
Patrick, Joseph C.
Thompson, Louis V. : *See*—
Haller, John, and Thompson.
Threedy, Clarence E., assignee, trustee : *See*—
Tratsch, Walter A.
Thurston, Paul L., H. F. Hilker, and H. Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Method and machine for making seamless hosiery. 2,421,816 ; June 10.
Thurston, Paul L., H. F. Hilker, and H. Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Seamless hosiery. 2,421,817 ; June 10.
Tibbals, Charles E., Bluefield, W. Va. Entry driving machine. 2,422,053 ; June 10.
Tibiletti, Cageton I., Victoria, Tex. Sandal vamp. 2,421,818 ; June 10.
Tiger, Howard L., Hewlett, assignor to The Permutit Company, New York, N. Y. Method of and apparatus for treating aqueous solution of electrolytes. 2,422,054 ; June 10.
Tiley, John W., assignor to Philco Corporation, Philadelphia, Pa. Reflex harmonic generator. 2,422,146 ; June 10.
Times Facsimile Corporation, assignee : *See*—
Cooley, Austin G.
Toledo Scale Company, assignee : *See*—
Hem, Halvor O.
Tornquist, Earl L., Elmhurst, assignor of one-half to J. A. Dienner, Evanston, Ill. Electric motor speed control system and method. 2,422,147 ; June 10.
Tousignant, Joseph W., Plattsburg, N. Y. Fire alarm. 2,421,915 ; June 10.
Trans-Lux Ad-News Corporation, assignee : *See*—
Unkles, Edward H., Roth, and Whitney.
Tratsch, Walter A., assignor to C. E. Threedy, Chicago, Ill., as trustee. Coin chute. 2,421,857 ; June 10.
Traynor, Bernard J. : *See*—
Richey, David M., and Traynor.
Trimbach, Clem G., Kenmore, N. Y., assignor, by mesne assignments, to Curtiss-Wright Corporation. Shock absorbing gun mount. 2,421,858 ; June 10.
Trimble, Charles H., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Article assembling fixture. 2,421,973 ; June 10.
Tube Turns, assignee : *See*—
Shelly, Franklin E.
Turco Products, Inc., assignee : *See*—
Perry, Frank R.
Turman, Grover C., Key West, Fla. Interlocking shingle. 2,421,766 ; June 10.
Uhlig, Edwin C., Greenwood, R. I., assignor to United States Rubber Company, New York, N. Y. Making battery separators. 2,422,148 ; June 10.
Underwood, James E., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Orienting work feeder. 2,421,916 ; June 10.
Ungnade, Herbert E. : *See*—
Smith, Lee I., and Ungnade.
Union Switch & Signal Company, The, assignee : *See*—
Pascoe, Frank T., and Jerome.
United Aircraft Corporation, assignee : *See*—
Albright, Franklin C.
Cronstedt, Val.
Cronstedt, Val, and Ledwith.
Kalitinsky, Andrew.
Meitzler, Donald E.
Richey, David M., and Traynor.
Roberts, Reon B.
Soderberg, Carl R.
United Shoe Machinery Corporation, assignee : *See*—
Eek, Albin C.
Maeser, Mieth.
Seely, Thomas H., and Stratton.
United States Rubber Company, assignee : *See*—
Buckwalter, Howard M.
Fletcher, Harry H.
Griffin, John B.
Uhlig, Edwin C.
Universal Oil Products Company, assignee : *See*—
Haensel, Vladimir, and Ipatieff.
Ipatieff, Vladimir N., and Linn.
Linn, Carl B.
Unkles, Edward H., Weehawken, and B. W. Roth, Riverdale, N. J., and C. S. Whitney, Jr., Brooklyn, assignors to Trans-Lux Ad-News Corporation, New York, N. Y. Sign control and system. 2,422,149 ; June 10.
Upton, Frederick P., New Rochelle, assignor to Geneto Corporation, Mount Vernon, N. Y. Magneto construction. 2,422,150 ; June 10.
Upton, Frederick P., New Rochelle, assignor to Geneto Corporation, Mount Vernon, N. Y. Single and multi-spark magneto. 2,422,151 ; June 10.
Vacher, Raoul A. : *See*—
Zeeh, Henry A., and Vacher.
Van Camp, Roscoe C. : *See*—
Somers, Richard M., and Van Camp.
Vandenberg, Clarence E., Blue Island, Ill., assignor to International Harvester Company. Device for regulating the thickness of ice formations on evaporator coils. 2,421,819 ; June 10.
Vandervoort, Lorain N., assignor to The Parker Appliance Company, Cleveland, Ohio. Swivel fitting. 2,421,974 ; June 10.
Van Nimwegen, Garret, C. von Doenhoff, and C. E. Wooddell, assignors to The Carborundum Company, Niagara Falls, N. Y. Rubber bonded abrasives. 2,422,153 ; June 10.
Varian, Sigurd F., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Electrode structure. 2,421,767 ; June 10.
Varon, Max A., Chicago, Ill., and C. S. Malone, Owensboro, Ky. Gaiter. 2,422,055 ; June 10.
Vatter, Clifford C., assignor to The Bradley & Gilbert Company, Louisville, Ky. Container having an inner slidable merchandise carrier. 2,422,152 ; June 10.
Vermeulen, Roelof, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn. Microphone. 2,421,820 ; June 10.
Vickers, Robert D. : *See*—
Rogers, Thomas H., and Vickers.
Victor Metal Products Corporation, assignee : *See*—
Temple, George W.
Vogt, John J., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Closure actuating and securing mechanism. 2,422,056 ; June 10.
Voliazzo, Jesse, Thomasville, Ga., and V. Medveckus, Venice, Fla. Fuel flow warning device. 2,421,768 ; June 10.
Von Doenhoff, Carl : *See*—
Van Nimwegen, Garret, von Doenhoff, and Wooddell.
Vulcan Soot Blower Corporation, assignee : *See*—
Hibner, De Los E., and Arey.
Wahner, Hubert : *See*—
Dornier, Claude, Staufer, Wähner, and Bottling.
Warner Electric Brake Manufacturing Company, assignee : *See*—
Oetzel, John G.

Washburn, Lorenzo S. : *See*—
Howe, Wallace, and Washburn.
Waterloo Foundry Company, assignee : *See*—
Harmon, Cline H., and Fort.
Watson, Samuel H. : *See*—
Haeseler, Leonard W., and Watson.
Weather-Seal, Inc., assignee : *See*—
Etling, Harold A.
Weinhardt, Carl J., Indianapolis, Ind. Electric heating unit. 2,422,057 ; June 10.
Weite, Ernest S., Wells, Minn. Hand operated potato seed planter. 2,421,821 ; June 10.
Welker, Harold : *See*—
Thurston, Paul L., Hilker, and Welker.
Weller, Charles, Philadelphia, Pa. Apparatus for severing knitted structures. 2,422,154 ; June 10.
Wells-Gardner & Co., assignee : *See*—
Swallow, Joseph L.
Wemp, Ernest E., Detroit, Mich. Clutch and clutch operating mechanism. 2,422,155 ; June 10.
Western Electric Company, Incorporated, assignee : *See*—
Barkstrom, Elmer E., and Shaw.
Trimble, Charles H.
Westinghouse Electric Corporation, assignee : *See*—
Buchanan, Leslie B. M.
Robertson, Andrew W.
Whinnery, John R., Schenectady, N. Y., assignor to General Electric Company. Wave guide system. 2,422,058 ; June 10.
Whitehall Machine and Tools Limited, assignee : *See*—
Dorner, Frank H. C.
Whitney, Charles S., Jr. : *See*—
Unkles, Edward H., Roth, and Whitney.
Whitney, Maurice P., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Mechanical time fuse. 2,421,859 ; June 10.
Wilber, Fred B., Kokomo, Ind. Lawn sprinkler. 2,422,059 ; June 10.
Williams, Curtis M., Phoenix, Ariz. Parking meter box display. 2,421,917 ; June 10.
Williams, Duncan R. : *See*—
Anderson, Frank J., and Williams.
Williams, Roscoe D., Louisville, Ky. Manufacture of fluorescent tubing. 2,421,975 ; June 10.
Wilson, William F., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Transmission. 2,422,173 ; June 10.
Wingfoot Corporation, assignee : *See*—
Bruney, William E.
Hardman, Albert F.
Rogers, Thomas H., Jr., and Vickers.
Winther, Martin P., Waukegan, Ill., assignor to Martin P. Winther, as trustee. Squirrel-cage rotor for induction machines. 2,421,860 ; June 10.
Wisconsin Alumni Research Foundation, assignee : *See*—
Cottrell, Frederick G.
Daniels, Farrington, Hendrickson, and Wolf.
Wolf, Frank M. : *See*—
Daniels, Farrington, Hendrickson, and Wolf.
Wolf, George M., Wyandotte, and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa. Vulcanization of rubberlike butadiene-1,3 polymerizates with phenol sulfides. 2,422,156 ; June 10.
Wolfe, Richard C., Middletown, R. I. Expanding hollow fasteners. 2,421,769 ; June 10.
Wolff, Irving, Haddonfield, N. J., assignor to Radio Corporation of America. Distance measuring apparatus. 2,422,157 ; June 10.
Wolfram, John N., assignor to The Parker Appliance Company, Cleveland, Ohio. Flexible coupling. 2,422,158 ; June 10.
Wood, Davis M., Seattle, assignor to Pacific Car and Foundry Company, Renton, Wash. Friction clutch. 2,422,159 ; June 10.
Wood, Joseph K., assignor to General Spring Corporation, New York, N. Y. Spring device. 2,421,822 ; June 10.
Wooddell, Charles E. : *See*—
Van Nimwegen, Garret, von Deenhoff. and Wooddell.
Woodward, Oakley M., Jr. : *See*—
Brown, George H., and Woodward.
Woodward, Oakley M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Variable reactance device for coaxial lines. 2,422,160 ; June 10.
Worthington Pump and Machinery Corporation, assignee : *See*—
Evelyn, Steven F.
Wotring, Gaylord H., Fairfield, Conn., assignor to General Electric Company. Faucet attachment. 2,422,060 ; June 10.
Wyandotte Chemicals Corporation, assignee : *See*—
Bacon, Leslie R.
Yager, George F., assignor to Bunting Brass & Bronze Company, Toledo, Ohio. Spindle structure. 2,422,061 ; June 10.
Yard, Charles R., Nowata, Okla. Water conditioning machine for an oil well operated by water flowing from said well for feeding reagent to the water. 2,422,062 ; June 10.
Yukob, Peter, Lynn, assignor to Kistler, Lesh & Company, Incorporated, Boston, Mass. Cutting soles and the like. 2,422,063 ; June 10
Zacks, Florence B., Columbus, Ohio. Shoulder pad. 2,422,161 ; June 10.
Zeeh, Henry A., Brooklyn, and R. A. Vacher, Lake View, assignors to Rockwood & Co., Brooklyn, N. Y. Control apparatus. 2,421,861 ; June 10.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Fastening device, Garment. E. Di Ianni. Re. 22,888; June 10.

LIST OF PLANT INVENTIONS

Rose plant. E. S. Boerner. 738; June 10.
Rose plant. R. G. Jelly. 737; June 10.

LIST OF DESIGN INVENTIONS

Airplane. W. H. McLauchlan. 146,924; June 10.
Bar. Automobile grille. H. T. Bannister. 146,893; June 10.
Birdbath. C. A. Fiorio. 146,901; June 10.
Bottle. H. Genske. 146,905; June 10.
Brooch or similar article. A. Katz. 146,919; June 10.
Cabinet or the like, Radio. J. F. Glover. 146,907; June 10.
Coat. I. Goldstein. 146,910–13; June 10.
Container or the like. Perfume. E. P. Schreyer. 146,928; June 10.
Fixture, Lamp. R. A. Clark, Jr. 146,897; June 10.
Hammer head. E. H. Daniels. 146,899; June 10.
Handle for platters and the like. A. F. Ramsthal. 146,927; June 10.
Handle for screwdrivers and the like. E. H. Daniels. 146,898; June 10.
Hobbyhorse, Wheeled. Lawrence Wenpetren. 146,932; June 10.
Jacket. H. H. Stahl. 146,930; June 10.
Kit, Combination shoe polishing. B. A. Grae. 146,914; June 10.
Lighter. Cigarette. R. J. Goddard and L. Dalkoff. 146,908; June 10.
Lighter or similar article. F. Kaupmann. 146,920; June 10.
Necklace or similar article. A. Philippe. 146,925; June 10.
Pin or similar article. G. E. Fearn. 146,900; June 10.
Pin or similar article, Jewelry. L. J. Campbell. 146,896; June 10.
Razor casing or similar article, Safety. C. P. Hornung. 146,916; June 10.
Razor casing or similar article, Safety. C. P. Hornung. 146,918; June 10.
Razor or similar article, Safety. C. P. Hornung. 146,915; June 10.
Razor or similar article, Safety. C. P. Hornung. 146,917; June 10.
Rocker, Child's. B. Bellville. 146,894; June 10.
Screen or the like. K. J. Wolf. 146,933; June 10.
Sharpener, Knife. R. B. Lambert. 146,921; June 10.
Shirt. M. M. Brohard. 146,895; June 10.
Shoe. M. S. Silver. 146,929; June 10.
Showcase. J. B. Platt. 146,926; June 10.
Squeezer, Fruit. O. L. Godwin. 146,909; June 10.
Suit. J. Freedman. 146,902; June 10.
Supporter, Hose. S. W. Leming. 146,923; June 10.
Toy cat or the like. C. R. Bailey. 146,892; June 10.
Trimming or the like, Embroidered. B. Friedman. 146,903–4; June 10.
Vaporizer or similar article. C. W. Gibson. 146,906; June 10.
Vehicle. A. A. Turton. 146,931; June 10.
Watch or similar article, Lapel. F. E. Lauro. 146,922; June 10.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive blasting. P. J. Potter. 2,421,849; June 10.
Abrasives. Rubber bonded. G. Van Nimwegen, C. von Doenhoff, and C. E. Wooddell. 2,422,153; June 10.
Abutment for jacks, Wheel. C. H. Stevens. 2,422,144; June 10.
Acetal compounds. J. E. Bludworth and D. P. Easter. 2,421,770; June 10.
Acetone and acetate esters, Preparing. D. C. Hull and A. H. Agett. 2,422,016; June 10.
Actuating and securing mechanism, Closure. J. J. Vogt. 2,422,056; June 10.
Actuating mechanism for aerodynamic surfaces. J. Noyes, Jr. 2,422,035; June 10.
Affixing characters to transparent drums. J. L. Swallow. 2,421,764; June 10.
Air brake for aircraft. C. Dornier, F. Staufer, H. Wänner, and F. Bottling. 2,421,870; June 10.
Aircraft, Composite. O. A. Buettner. 2,421,742; June 10.
Air heater for hot-air turbine and blast furnace, Combined. R. Ruegg. 2,422,131; June 10.
Alcohols, Producing polyhydric. E. Arundale and L. A. Mikeska. 2,421,862; June 10.
Alkaline dry cell. S. Ruben. 2,422,046; June 10.
Altimeter. Electric. J. L. Hathaway. 2,421,785; June 10.
Aluminum oxide substantially free from silica, Producing. F. J. Anderson and D. R. Williams. 2,421,918; June 10.
Anchorage for frame straightening apparatus. R. W. Becker. 2,421,981; June 10.
Anodes for intensive arcs. J. F. Parisot. 2,422,038; June 10.
Antenna, Directive. G. H. Brown and O. M. Woodward, Jr. 2,421,988; June 10.
Antenna system. G. H. Brown. 2,422,076; June 10.
Antikickback clutch. W. C. Starkey. 2,421,814; June 10.
Anvil and pivoted jaw operated cap sealing machine. A. Podel. 2,421,963; June 10.
Apparatus for enumerating and indicating the number of available seats on the decks of passenger carrying vehicles. G. H. Colt and A. J. Chappell. 2,421,774; June 10.
Apparatus for fusing the coating on tablets. G. C. Miller. 2,421,801; June 10.
Apparatus for gaging and assorting bullet cores according to size and shape. S. A. Oakley. 2,422,036; June 10.
Apparatus for handling dust. F. B. Allen. 2,421,977; June 10.
Apparatus for indicating teletypewriter speeds. W. B. Martin. 2,421,954; June 10.
Apparatus for producing smoke screens. H. A. Levey and A. C. Patterson. 2,422,024; June 10.
Apparatus for removing meltable metal from articles. G. R. Park. 2,421,804; June 10.
Apparatus for reproducing shapes. C. N. Boyd. 2,421,827; June 10.
Apparatus for severing knitted structures. C. Weller. 2,422,154; June 10.
Apparatus for straightening frames and the like. M. S. Merrill. 2,422,030; June 10.
Apparatus for the production of comminuted particles. S. Hiller. 2,422,099; June 10.
Aqueous solution of electrolytes, Method of and apparatus for treating. H. L. Tiger. 2,422,054; June 10.
Aromatic compounds. Producing. J. K. Dixon and D. R. May. 2,422,166; June 10.
Aromatic compounds, Production of. J. K. Dixon. 2,422,165; June 10.
Aromatic compounds. Production of. D. R. May and J. K. Dixon. 2,422,169; June 10.
Article handling apparatus. E. E. Barkstrom and E. J. Shaw. 2,421,920; June 10.
Aryl compounds, Producing. K. W. Saunders. 2,422,171; June 10.
Attachment for photographic cameras, Masking. C. H. Duffy. 2,421,746; June 10.
Attemperator. W. H. Rowand, L. B. Schueler, and P. R. Loughin. 2,421,761; June 10.
Bag holder. S. Birch, Jr. 2,421,740; June 10.
Barrel. Core. W. S. Crake. 2,421,997; June 10.
Barrell type engine. R. Y. Boyes. 2,421,868; June 10.
Bicyclic compound containing a diphenylamine. J. G. McNally and J. B. Dickey. 2,422,029; June 10.
Billet and manufacture thereof, Composite. W. L. Keene and W. A. Carlson. 2,421,891; June 10.
Binder, Loose-leaf. A. M. Martin. 2,421,799; June 10.
Blade, Propeller. L. A. Heintzelman. 2,422,098; June 10.
Blood extractor. L. E. Norris. 2,421,959; June 10.
Blower, Power-driven soot. De L. E. Hibner and F. C. Arey. 2,421,940; June 10.
Brake. N. Flesch. 2,422,004; June 10.
Brake and adjustment therefor, Fluid pressure operated. J. Norstrom and A. L. Smith. 2,422,121; June 10.
Brake and clutch unit, Centrifugal. W. P. Lear. 2,421,949; June 10.
Brush, Armature. F. G. Majer. 2,421,795; June 10.
Cage, Press. F. C. Simon. 2,421,763; June 10.
Calculating machine, Duplex. H. L. Lambert. 2,422,103; June 10.
Calculator for structural members, Angle. J. T. Hogue. 2,421,882; June 10.
Camera shutter. M. R. Hutchison, Jr. 2,422,018; June 10.
Camera shutter system. G. Bucky. 2,422,077; June 10.
Cap: *See—*
  Liquid sealed pipe cap.
  Protecting cap.
Car: *See—*
  Mine car.
Carburetor, Dual. C. L. Martin. 2,421,800; June 10.
Carriage, Broach. R. H. Liska. 2,421,793; June 10.
Carrier: *See—*
  Cotton picker's sack carrier.
Carrier for merchandise.. W. A. Ringler. 2,421,850; June 10.
Carrier wave detector circuit. F. C. Everett. 2,422,087; June 10.
Cart, Collapsible shopping. M. Giordano. 2,421,751; June 10.
Carton, Merchandise. R. E. Fink. 2,421,748; June 10.
Case: *See—*
  Refrigerated display case.
Catalytic conversion of aromatic compounds. J. K. Dixon. 2,422,163; June 10.
Catalytic producing aromatic compounds. J. K. Dixon. 2,422,164; June 10.
Cathode structure for electron discharge devices. J. W. Skehan and B. K. M. Magnusson. 2,422,142; June 10.
Cellulosic esters, Dissolving. J. D. McCaleb and J. J. Reis, Jr. 2,421,897; June 10.
Cellulosic fibres, Treatment of. H. M. Buckwalter. 2,422,078; June 10.
Chlorinated quinones, Manufacture of. H. H. Fletcher. 2,422,089; June 10.
Chopper, Feed. L. Frank. 2,422,005; June 10.
Chroman compounds, Producing. L. I. Smith and H. E. Ungnade. 2,421,811–12; June 10.
Chute, Coin. W. A. Tratsch. 2,421,857; June 10.
Circuit: *See—*
  Carrier wave detector circuit.
  Electric control circuit.
  Electrical control circuit.
  Reactance control circuit.
Circuit control apparatus. E. H. Haug. 2,421,786; June 10.
Circuit controlling device, Electrical. H. F. Cypser. 2,421,998; June 10.
Circuit interrupter, Electric. R. S. Bennett. 2,421,982; June 10.
Circuits, Electric control. C. A. Carrière. 2,421,991; June 10.
Clamping means. C. A. G. Pritchard. 2,422,039; June 10.
Cleaning method and material therefor. F. R. Perry. 2,421,806; June 10.
Clock and switch, Alarm. D. L. Bohman. 2,421,986; June 10.
Closure for autoclaves, Hydraulic. H. Pfleumer. 2,421,847; June 10.
Closure for exhaust pipes. C. H. Harmon and D. L. Fort. 2,421,838; June 10.
Clothing. A. Philipps. 2,421,848; June 10.
Clutch: *See—*
  Antikickback clutch.
  Friction clutch.
Clutch and clutch operating mechanism. E. E. Wemp. 2,422,155; June 10.
Clutch and sprocket assembly. M. R. Gallimore. 2,421,875; June 10.
Commutator structure. G. L. Moeller. 2,421,845; June 10.
Compass. Radio. E. D. Blodgett. 2,422,072; June 10.
Compensator for refractometers, Temperature. W. Seaman. 2,421,854; June 10.

Compressor for hydraulic brake units and the like. H. A. Benzel. 2,421,866; June 10.
Compressor regulator. S. F. Evelyn. 2,421,872; June 10.
Computer for solving bombing problems. G. B. Dantzig. 2,421,745; June 10.
Computing means, Navigational. L. L. Sa Pereira. 2,421,965; June 10.
Conditioning machine for an oil well operated by water flowing from said well for feeding reagent to the water, Water. C. R. Yard. 2,422,062; June 10.
Connection for well equipment. G. R. Hunt. 2,421,945; June 10.
Contact masses by gaseous suspension and delivery thereof to a downwardly moving bed, Cleaning. C. H. Lechthaler and J. W. Payne. 2,421,840; June 10.
Contactor system, Electrical. W. P. Lear. 2,421,947; June 10.
Container: *See—*
  Powder container.
Container having an inner slidable merchandise carrier. C. C. Vatter. 2,422,152; June 10.
Control apparatus. H. A. Zeeh and R. A. Vacher. 2,421,861; June 10.
Control for plural electric motors, Unitary. J. Mercier. 2,422,117; June 10.
Control system. G. L. Borell. 2,422,162; June 10.
Control system, Electric fence impulse. L. E. Greenlee. 2,422,012; June 10.
Control system, Pulse echo. A. V. Bedford. 2,422,068; June 10.
Control valve. J. A. Muller. 2,422,119; June 10.
Cooling apparatus for heat-treated work using air jets. W. Lehrer. 2,422,105; June 10.
Copals, Purification of. S. Lipsius. 2,421,952; June 10.
Copolymer of styrene and polyester of endomethylene tetrahydrophthalic acid and a glycol. H. L. Gerhart. 2,421,876; June 10.
Cops in ring spinning and ring doubling machines, Production of. F. Preysch. 2,421,908; June 10.
Copying device. W. Schindler. 2,422,137; June 10.
Cores for casting light metal alloys, Making. L. S. Meyer. 2,422,118; June 10.
Cotton picker's sack carrier. H. B. Foster. 2,421,779; June 10.
Coupling: *See—*
  Flexible coupling.
  Slip-friction coupling.
Cover: *See—*
  Vehicle wheel cover.
  Wheel cover.
Covering, Combination head and neck. A. Golfieri. 2,421,934; June 10.
Current collector. C. H. Saiter. 2,422,132; June 10.
Cutting machine, Vertical. J. Haller and L. V. Thompson. 2,422,095; June 10.
Dasher for churns. H. R. Marshall. 2,421,798; June 10.
Detonator, Compound. G. F. Rolland. 2,422,043; June 10.
Device for enveloping and sealing flat articles, for example letters. A. Reiner and W. Rehm. 2,421,964; June 10.
Device for regulating the thickness of ice formations on evaporator coils. C. E. Vandenberg. 2,421,819; June 10.
Device for stretching flexible members. A. C. Anselmi. 2,422,065; June 10.
Device for tying wire around an article. A. Gubser and A. Broder. 2,421,878; June 10.
Device for warming and reconditioning beer. A. A. Bezosky. 2,421,921; June 10.
Dewatering and concentrating means for magnetic separators, Magnetic. H. K. Martin. 2,422,113; June 10.
Die. J. H. Gosnell, Jr. 2,421,935; June 10.
Dieing-out machine. T. H. Seely and F. E. Stratton. 2,421,809; June 10.
Diffuser for centrifugal blowers. T. Jackson. 2,421,888; June 10.
Digger and picker, Potato. E. D. Dahlman. 2,421,999; June 10.
Direction finder. L. E. Norton. 2,422,123; June 10.
Direction finder, Radio. D. S. Bond. 2,422,073; June 10.
Direction finding system. C. W. Hansell. 2,422,096; June 10.
Discharge table. F. Z. Fouse. 2,421,874; June 10.
Discriminator, Electronic. W. R. Ferris. 2,422,088; June 10.
Dispenser for tableware. W. J. Gibbs and E. F. Smith. 2,421,782; June 10.
Distance indicator. R. C. Sanders, Jr. 2,422,134; June 10.
Distance measuring apparatus. I. Wolff. 2,422,157; June 10.
Ditching machine. W. K. Holleron. 2,421,883; June 10.
Door: *See—*
  Water-cooled furnace door.
Drill bit, Separable. J. B. Baker, Jr. 2,421,826; June 10.
Drive for phonographs, Turntable. H. L. Hartman. 2,421,910; June 10.
Driving machine, Entry. C. E. Tibbals. 2,422,053; June 10.
Drum-cable attaching means. A. R. Henry. 2,421,788; June 10.
Drum stop means for printing machines. W. R. Allen and C. H. Sand. 2,421,823; June 10.
Dry cell, Alkaline. S. Ruben. 2,422,045; June 10.
Earth boring machine. T. C. Smith. 2,421,970; June 10.
Electric control circuit. B. Cooper. 2,421,995–6; June 10.
Electric control circuit. R. E. Kingsmill. 2,422,020; June 10.
Electric induction apparatus. K. K. Paluev. 2,422,037; June 10.
Electric switch. K. H. Hansen. 2,422,097; June 10.
Electrical control circuit. G. H. Rockwood. 2,421,760; June 10.
Electrode structure. S. F. Varian. 2,421,767; June 10.
Electron discharge device of the cavity resonator type. J. M. Spooner. 2,421,912; June 10.
Electrostatic coating method. R. E. Helmuth. 2,421,787; June 10.
Emergency door apparatus. R. A. Miller. 2,421,900; June 10.
Emulsions containing supersensitizing dye combinations, Photographic. R. B. Collins and H. O. Dickinson. 2,422,080; June 10.
Engine: *See—*
  Barrel type engine.
  Fluid pressure engine.
  Parallel piston engine.
Engine of the sliding abutment type, Rotary internal-combustion. A. E. Melrose. 2,421,898; June 10.
Erecting apparatus. R. J. Stoddard. 2,421,913; June 10.
Explosive-release mechanism. D. M. Richey and B. J. Traynor. 2,421,807; June 10.
Explosives, Initiating. J. Fleischer and J. G. Burtle. 2,421,778; June 10.
Extractor: *See—*
  Blood extractor.
Fast charge unit. W. E. Bruney. 2,421,828; June 10.
Fastener: *See—*
  Slide fastener.
Fasteners, Expanding hollow. R. C. Wolfe. 2,421,769; June 10.
Faucet attachment. G. H. Wotring. 2,422,060; June 10.
Feeder: *See—*
  Orienting work feeder.
Feeders for viners. H. P. Taylor. 2,421,815; June 10.
Filament structure for electrical discharge devices. J. W. Skehan. 2,422,141; June 10.
Film container reel. J. Mihalyi. 2,422,032; June 10.
Filter device. L. L. Dollinger. 2,421,776; June 10.
Fire alarm. J. W. Tousignant. 2,421,915; June 10.
Firing control mechanism, Rocket. A. L. Lambert and W. H. D'Ardenne. 2,421,893; June 10.
Fixture, Article assembling. C. H. Trimble. 2,421,973; June 10.
Flexible coupling. J. N. Wolfram. 2,422,158; June 10.
Fluid pressure engine. A. H. Neuland. 2,421,846; June 10.
Fluids, Conveying. A. H. Schutte. 2,421,968; June 10.
Fluorescent coatings, Production of. C. H. Bachman and V. J. Schaefer. 2,421,979; June 10.
Fluorescent tubing, Manufacture of. R. D. Williams. 2,421,975; June 10.
Frequency modulated altimeter or distance indicator. W. L. Carlson and V. D. Landon. 2,422,079; June 10.
Frequency modulated altimeter or distance indicator. R. C. Sanders, Jr. 2,422,133; June 10.
Frequency modulated distance indicator. R. C. Sanders, Jr. 2,422,135; June 10.
Friction clutch. D. M. Wood. 2,422,159; June 10.
Friction device, Electromagnetic. J. G. Oetzel. 2,421,757; June 10.
Fruit picking device. S. S. Pearl. 2,421,962; June 10.
Fuel flow warning device. J. Vollazzo and V. Medveckus. 2,421,768; June 10.
Fuel injection system. D. E. Meitzler. 2,421,844; June 10.
Furnace: *See—*
  Gas reaction furnace.
Fuse, Mechanical time. M. P. Whitney. 2,421,859; June 10.
Gage: *See—*
  Well pressure gauge.
Gain control for pulse-echo system, Automatic. A. V. Bedford. 2,422,069; June 10.
Gaiter. M. A. Varon and C. S. Malone. 2,422,035; June 10.
Garment. F. R. McAbee. 2,421,955; June 10.
Gas expanded rubber, Single stage production of. A. Cooper. 2,421,831; June 10.
Gas reaction furnace. F. Daniels, W. G. Hendrickson, and F. M. Wolf. 2,421,744; June 10.
Gas valve. A. Kalitinsky. 2,421,839; June 10.
Gasket, self-sealing ring-joint. F. W. Goetze. 2,422,009; June 10.
Gauge: *See—*
  Well pressure gauge.
Gauging device for determining dimensions of rotary members of pumps. R. H. Mustonen. 2,422,034; June 10.
Gear: *See—*
  Synchronized control gear.
Generator: *See—*
  Reflex harmonic generator.
Globe, Terrestrial. H. V. Johannsen. 2,422,101; June 10.
Governor for variable pitch propeller systems. A. G. Forsyth. 2,421,873; June 10.

Grating structure, Continuous. R. J. Barry and C. H. Lewis. 2,421,980; June 10.
Grenade, Hand. F. Short. 2,421,762; June 10.
Ground speed indicator. E. I. Anderson and A. Barco. 2,422,064; June 10.
Gun mount, Shock absorbing. C. G. Trimbach. 2,421,858; June 10.
Gun platform. M. Maeser. 2,421,794; June 10.
Handle, Fishing rod. F. H. C. Dorner. 2,422,084; June 10.
Harrow with transport means, Disk. J. F. Brundage. 2,421,772; June 10.
Heat exchange apparatus in refrigeration systems. L. B. M. Buchanan. 2,421,773; June 10.
Heating unit, Electric. C. J. Weinhardt. 2,422,057; June 10.
Heel and making same, Shoe. A. Chodor. 2,421,923; June 10.
Heel, Detachable shoe and boot. E. H. Levine. 2,421,792; June 10.
Hinge mounting. G. D. Pagon. 2,421,960; June 10.
Holder: *See—*
  Bag holder.
Holder and support, Sign. B. F. Bloss. 2,421,741; June 10.
Holder for articles. O. L. Swanson. 2,422,051; June 10.
Hook: *See—*
  Metal hook.
Horizon, Artificial. E. J. Noble. 2,422,120; June 10.
Hosiery, Method and machine for making seamless. P. L. Thurston, H. F. Hilker, and H. Welker. 2,421,816; June 10.
Hosiery, Seamless. P. L. Thurston, H. F. Hilker, and H. Welker. 2,421,817; June 10.
Hydrocarbons, Polymerization of olefinic. V. N. Ipatieff and C. B. Linn. 2,421,946; June 10.
Hydrocarbons, Polymerization of olefinic. C. B. Linn. 2,421,950–1; June 10.
Hydrolyzed vinyl ester interpolymers. C. A. Sperati. 2,421,971; June 10.
Hydroxy-cyanoalkyl naphthalenes. A. F. Hardman. 2,421,837; June 10.
Ice chipping machine. A. T. Hagaman. 2,422,094; June 10.
Imines, Preparation of. V. E. Haury and S. A. Ballard. 2,422,013; June 10.
Imines, Production of. V. E. Haury. 2,421,937; June 10.
Indicator: *See—*
  Distance indicator.
  Frequency modulated altimeter.
  Frequency modulated distance indicator.
  Ground speed indicator.
Indicator for aircraft in flight, Position. E. D. Glatz. 2,421,783; June 10.
Indicia, Means for applying. M. K. Aulick. 2,421,825; June 10.
Injector for fuel or other liquids. T. Simpson. 2,421,810; June 10.
Insoles, Making. J. J. Maguire. 2,422,027; June 10.
Ketene with an alpha, beta unsaturated aldehyde, Reacting. A. H. Agett. 2,421,976; June 10.
Keto-sulfones. M. W. Goldberg. 2,421,836; June 10.
Lasting machine. A. C. Eek. 2,421,777; June 10.
Latch jig, Quick. A. J. Matter. 2,422,114; June 10.
Lathe, Turning. J. L. Betzen. 2,422,071; June 10.
Laundry souring composition. L. R. Bacon. 2,422,066; June 10.
Lawn sprinkler. F. B. Wilber. 2,422,059; June 10.
Leak reducer for joints between relatively rotatable conduits. De L. E. Hibner and F. C. Arey. 2,421,939; June 10.
Leg structure for mounting aircraft landing elements. G. H. Dowty. 2,421,871; June 10.
Lenses, Unblocking. W. J. Joyce. 2,421,753; June 10.
Light: *See—*
  Night light.
Lighting fixture, Fluorescent. L. Schepmoes. 2,421,967; June 10.
Lining for sink or the like. A. W. Robertson. 2,421,808; June 10.
Link, Anchor chain. W. B. Ingham. 2,421,789; June 10.
Link, Automatically adjustable force transmitting. W. H. J. Brock. 2,421,869; June 10.
Liquid dispensing system, Portable multiple compartment. L. B. Taylor. 2,421,765; June 10.
Liquid sealed pipe cap. J. G. Bettencourt. 2,422,070; June 10.
Load binders, Construction of. V. S. Durbin. 2,422,001; June 10.
Locking device, Circuit breaker. W. M. Scott, Jr. 2,421,853; June 10.
Lubricating emulsions, Stabilized. M. D. Bray. 2,422,075; June 10.
Machine for hardening gears. G. H. Bryan. 2,421,989; June 10.
Machine for sealing bulbs. C. Eisler. 2,421,929; June 10.
Magnetic drive. L. T. Rader. 2,422,040; June 10.
Magnetic testing, Method and apparatus for. F. B. Doane. 2,421,775; June 10.
Magneto construction. F. P. Upton. 2,422,150; June 10.
Magneto, Single and multispark. F. P. Upton. 2,422,151; June 10.

Marine tower and placing the same. G. L. Kirby. 2,422,168; June 10.
Marker, Object. J. R. Matthews and W. A. Davidson. 2,422,115; June 10.
Material for gettering electron discharge devices. E. N. Bobrow. 2,421,984; June 10.
Measuring device, Dimension. H. E. Goldstine. 2,421,933; June 10.
Mechanical movement. B. B. Murad and J. S. Barbic. 2,421,901; June 10.
Mechanism for the advancement of the carriage of typewriters and the like. R. L. R. R. Geirnaert. 2,421,930; June 10.
Metal hook. M. T. Bumgarner. 2,421,990; June 10.
Metal screen. W. G. Cartter and H. A. Duffy. 2,421,743; June 10.
Meter box display, Parking. C. M. Williams. 2,421,917; June 10.
Microphone. R. Vermeulen. 2,421,820; June 10.
Microscope, Electron. S. Ramo. 2,422,041; June 10.
Milling machine. N. M. Marsilius. 2,422,112; June 10.
Mine car. H. W. Sanford. 2,422,136; June 10.
Modulation receiver, Frequency. M. G. Crosby. 2,422,083; June 10.
Mold and molding. S. R. Davis. 2,421,928; June 10.
Motor drive for phonograph turntables, Speed compensating. B. W. Carrington. 2,421,911; June 10.
Mounting: *See—*
  Hinge mounting.
Multipole tripping device. L. W. and T. M. Cole. 2,421,830; June 10.
Night light. H. Moretti. 2,421,958; June 10.
Nitric oxide, Producing. F. G. Cottrell. 2,422,081; June 10.
Nose wheel. C. H. Strandberg. 2,421,914; June 10.
Nozzles, Making recoil preventing. C. K. Huthsing. 2,421,887; June 10.
Nuts, Making self-locking. W. M. Perry. 2,421,905; June 10.
Object locating system. G. B. Engelhardt. 2,421,747; June 10.
Objective of the telephoto type, Optical. A. Cox. 2,421,927; June 10.
Occlusions of gases like hydrogen from the surface layers of workpieces, Driving out. R. Beck. 2,421,863; June 10.
Octenes, Production of. V. Haensel and V. N. Ipatieff. 2,421,936; June 10.
Oil compositions, Essential. W. A. Taylor. 2,422,145; June 10.
Oil cracking unit. N. O. Harmon. 2,421,880; June 10.
Oil emulsions, Vulcanized fatty. P. Stamberger. 2,422,049; June 10.
Organic sulphonates, Preparing purified. J. H. Percy. 2,422,128; June 10.
Orienting work feeder. J. E. Underwood. 2,421,916; June 10.
Oxygen in gas mixtures, Measurement of. G. A. Perley and J. B. Godshalk. 2,422,129; June 10.
Pad: *See—*
  Shoulder pad.
Pad control, Electric heating. D. B. MacKendrick. 2,421,953; June 10.
Papermaking machine, Fourdrinier. E. W. Clem. 2,421,829; June 10.
Parallel piston engine. C. L. Holmes. 2,421,884; June 10.
Pearlite and like substances, Expanding. R. Neuschotz. 2,421,902; June 10.
Photographic support, Airspaced. C. Q. Glassey. 2,422,008; June 10.
Pitchometer attachment. W. E. Little and W. S. McKinstry. 2,421,754; June 10.
Planter, Hand operated potato seed. E. S. Welte. 2,421,821; June 10.
Plastic compositions, Finishing. R. H. Hunt, Jr. 2,422,017; June 10.
Plate, Tread. R. A. Kropp. 2,422,023; June 10.
Plug valve. L. S. Hamer. 2,421,879; June 10.
Plug valve. F. E. Shelly. 2,421,969; June 10.
Polymeric composition and producing same, Neutral, highly unsaturated. W. E. Elwell and N. W. Furby. 2,422,002; June 10.
Position determining system. H. S. Huff. 2,422,100; June 10.
Position plotting, Navigational. D. G. C. Luck. 2,422,025; June 10.
Powder container. B. S. Fuess. 2,422,090; June 10.
Power-driven letoff for looms. O. V. Payne. 2,421,961; June 10.
Press control, Hydraulic power. H. P. L. Laussucq and B. Japikse. 2,422,104; June 10.
Pressure switch. H. F. Malone. 2,421,797; June 10.
Printing machine. W. R. Allen and C. H. Sand. 2,421,824; June 10.
Projectile, Rocket. H. E. Jones. 2,421,752; June 10.
Propeller blades, Manufacture of. D. J. McComb. 2,421,956; June 10.
Propeller, Swivelling bladed adjustable pitch. P. W. Seewer. 2,422,138; June 10.
Protecting cap. E. Mauro. 2,422,116; June 10.
Protective system, Approach. G. H. Browning. 2,421,771; June 10.
Protractor, Navigation. L. V. Staghezza. 2,421,813; June 10.

Pulpstone. W. L. and L. S. Washburn. 2,421,885–6; June 10.
Pulse producing apparatus. J. Evans. 2,422,086; June 10.
Pump structure, Fuel injector. C. Messner. 2,421,899; June 10.
Punch unit, Angle. H. J. Becker. 2,421,864; June 10.
Push-button switch. L. Beeman. 2,421,865; June 10.
Rack: *See*—
  Turning and folding meat roast rack.
Radio direction finder. D. G. C. Luck. 2,422,107; June 10.
Radio direction finder, Dual. W. P. Lear. 2,421,948; June 10.
Radio direction finding. D. G. C. Luck. 2,422,026; June 10.
Radio direction finding. D. G. C. Luck. 2,422,108–9; June 10.
Radio direction finding. L. E. Norton. 2,422,122; June 10.
Radio-frequency air-calorimeter-wattmeter, High-power. P. J. Ovrebo. 2,421,758; June 10.
Radio range, Ominidirectional. D. G. C. Luck. 2,422,110; June 10.
Rail leveling and anchoring device, Railway. C. E. Chance. 2,421,992; June 10.
Railway signaling apparatus. F. T. Pascoe and A. L. Jerome. 2,422,127; June 10.
Railway unit, Miniature. S. Schaffan, Jr. 2,422,047; June 10.
Range finder, Orthopseudo stereo. J. Mihalyi. 2,422,033; June 10.
Reactance control circuit. M. G. Crosby. 2,422,082; June 10.
Record changer mechanism for phonographs. H. A. Roe. 2,421,909; June 10.
Recorder and reproducer, Magazine type magnetic. R. M. Somers and R. C. Van Camp. 2,422,143; June 10.
Recorder, Watch timing. T. B. Gibbs. 2,421,781; June 10.
Recording and reproducing system, Frequency modulated. C. M. Sinnett. 2,422,140; June 10.
Recording mechanism. G. A. Crowther. 2,421,834; June 10.
Reel: *See*—
  Film container reel.
Reflex harmonic generator. J. W. Tiley. 2,422,146; June 10.
Refrigerated display case. M. D. MacMaster. 2,421,896; June 10.
Regulator: *See*—
  Compressor regulator.
Remote control system, Hydraulic. H. W. Sheridan. 2,422,139; June 10.
Resistance device for coaxial lines, Variable. O. M. Woodward, Jr. 2,422,160; June 10.
Resistor. G. L. Pearson. 2,421,759; June 10.
Resonator magnetron, Cavity. S. T. Martin, Jr. 2,422,028; June 10.
Rivet bucking tool. C. C. Braden. 2,421,987; June 10.
Roasting apparatus, Coffee. W. C. Kline. 2,422,102; June 10.
Roof. D. C. Goff. 2,422,010; June 10.
Roof gutter assembly. H. N. Andrews. 2,421,978; June 10.
Rotary seal member. W. Gilbert, Sr. 2,422,007; June 10.
Rotary selector switch. R. H. Bentley. 2,421,983; June 10.
Rotor for induction machines, Squirrel-cage. M. P. Winther. 2,421,860; June 10.
Routing system, Telephone. R. C. Avery. 2,421,919; June 10.
Rubberlike butadiene-1,3-polymerizates with phenol sulfides, Vulcanization of. G. M. Wolf and T. E. Deger. 2,422,156; June 10.
Sampler, Material. T. R. Held. 2,421,938; June 10.
Sandal vamp. C. I. Tibiletti. 2,421,818; June 10.
Santonin-phenothiazine vermifuge. R. E. Lubbehusen. 2,422,106; June 10.
Saw, Cutoff. R. O. Lundberg. 2,422,111; June 10.
Scale, Intergrating weighing. H. O. Hem. 2,244,167; June 10.
Screen: *See*—
  Metal screen.
Scum overflow for clothes washing machines. D. R. Neal. 2,421,803; June 10.
Seal for hydraulic turbines and pumps. R. Lowy. 2,421,841; June 10.
Sealing means for optical instruments. W. F. Peck. 2,421,805; June 10.
Seat: *See*—
  Vehicle seat.
Seed treating and handling device. H. J. Kemp. 2,422,019; June 10.
Self-adjusting stop means for the shoes of internal-expanding brakes. L. H. Mould. 2,421,802; June 10.
Separator and producing the same, Wood battery. E. Farber. 2,422,003; June 10.
Separators, Making battery. E. C. Uhlig. 2,422,148; June 10.
Sharpener, Safety-razor blade. J. W. Sharp. 2,422,048; June 10.
Shingle, Interlocking. G. C. Turman. 2,421,766; June 10.
Shingle, Seal-down composition. L. Kirschbraun. 2,421,892; June 10.
Shirt and coat, Combination. E. J. Schafer. 2,421,966; June 10.
Shoe for piles. W. H. Cobi. 2,421,993; June 10.
Shoe, Open-toe. R. Maling. 2,421,796; June 10.
Shoe, Traction. W. B. Gregg. 2,422,092; June 10.
Shoulder pad. M. Leebow. 2,421,895; June 10.
Shoulder pad. F. B. Zacks. 2,422,161; June 10.
Sign control and system. E. H. Unkles, B. W. Roth, and C. S. Whitney. 2,422,149; June 10.
Slide fastener. J. B. Griffin. 2,422,093; June 10.
Slider for fasteners. R. C. Legat. 2,421,791; June 10.
Slip-friction coupling. A. G. Cooley. 2,421,925; June 10.
Socket structure. W. Frear. 2,421,780; June 10.
Sole for footwear. D. D. Goldstein. 2,421,932; June 10.
Soles and the like, Cutting. P. Yukob. 2,422,063; June 10.
Speed control system and method, Electric motor. E. L. Tornquist. 2,422,147; June 10.
Spindle structure. G. F. Yager. 2,422,061; June 10.
Spring device. J. K. Wood. 2,421,822; June 10.
Starting arrangement for synchronous motors, Automatic. L. W. Germany. 2,421,931; June 10.
Stator-shell for electric motors. A. B. Poole. 2,421,906; June 10.
Stop for slide fasteners, Top. C. D. Gould. 2,422,091; June 10.
Storage battery plate and separator assembly. G. N. Proctor. 2,422,130; June 10.
Stripping carding apparatus. W. H. Goldsmith, Jr. 2,422,011; June 10.
Suction attachment. B. Gross. 2,421,877; June 10.
Sugar solutions for fermentation, etc., Preparation of clarified. R. M. Boehm, H. E. Hall, and J. A. MacDonald. 2,421,985; June 10.
Sulfanilylfulfanilamide. M. L. Moore. 2,422,170; June 10.
Sulfoalkyl ethers of cellulose, Preparing. J. B. Dickey and J. G. McNally. 2,422,000; June 10.
Support and arresting member, Aircraft tail. F. C. Albright. 2,421,739; June 10.
Support for lids, Friction. G. V. Jakeway. 2,421,889; June 10.
Switch: *See*—
  Electric switch.
  Pressure switch.
  Rotary selector switch.
  Wall switch.
Swivel fitting. L. N. Vandervoort. 2,421,974; June 10.
Synchronized control gear. W. Hughes. 2,421,944; June 10.
Table: *See*—
  Discharge table.
Tachometer drive, Remote. P. F. Bechberger. 2,422,067; June 10.
Tall oil drying oils, Producing. F. C. Martin. 2,421,842; June 10.
Thermocouple for measuring surface temperature, Flexibly mounted. J. A. Obermaier. 2,422,124; June 10.
Thermosetting composition containing vinyl chloride-vinylidene chloride copolymer. T. H. Rogers, Jr., and R. D. Vickers. 2,421,852; June 10.
Thermostable catalysts for the dehydrogenation of hydrocarbons. A. E. Smith and O. A. Beeck. 2,422,172; June 10.
Thermostat, Guarded fire alarm. F. O. V. Hiergesell. 2,421,942; June 10.
Thread or the like, Manufacture of. H. B. Kline, A. H. Burkholder, and W. O. Israel. 2,422,021; June 10.
Tie, Bow. A. F. Taborski. 2,421,872; June 10.
Time controlled mechanism for phonograph apparatuses. L. A. Durant. 2,421,835; June 10.
Tire replacing tool. O. V. Teegarden. 2,421,856; June 10.
Tool: *See*—
  Rivet bucking tool.
  Tire replacing tool.
Tool and making the same, Jewelry carrying. M. Coronel. 2,421,926; June 10.
Tool for rotor blades, Gauging and bending. R. B. Roberts. 2,422,402; June 10.
Torpedo director. R. M. Freeman. 2,421,749; June 10.
Traction device. J. J. Friedman. 2,422,006; June 10.
Tractor. S. Bizjak. 2,421,867; June 10.
Tractor mower. M. Ronning and K. M. Keith. 2,422,044; June 10.
Traffic indicating apparatus, Telephone. E. W. Hill. 2,421,943; June 10.
Transmission. W. F. Wilson. 2,422,173; June 10.
Transmission system, Radio pulse. D. S. Bond. 2,422,074; June 10.
Trencher. V. S. Penote. 2,421,904; June 10.
Triglycol dichloride, Making. J. C. Patrick. 2,421,903; June 10.
Truck. C. L. Heater and C. J. W. Clasen. 2,422,014; June 10.
Truck, Furnace. J. M. Lee. 2,421,894; June 10.
Tubes, Making collapsible. G. W. Temple. 2,422,052; June 10.
Tufting device. S. P. Parker. 2,422,125–6; June 10.
Turbine blade. J. E. Johansson. 2,421,890; June 10.
Turbine blade locking device. C. R. Soderberg. 2,421,855; June 10.
Turbine construction. V. Cronstedt and W. A. Ledwith. 2,421,833; June 10.

Turbine rotor, Balancing a. V. Cronstedt. 2,421,832; June 10.
Turning and folding meat roast rack. E. Bocchino. 2,421,922; June 10.
2-amino-5-substituted 1,3,4-thiadiazole, Making. G. W. Steahly. 2,422,050; June 10.
2-hydroxy-3,5,x-trichloro-diphenyl, Ethers of. G. H. Coleman and W. D. Schroeder. 2,421,924; June 10.
Ultra high frequency apparatus. L. W. Haeseler and S. H. Watson. 2,421,784; June 10.
Ultra high frequency ignition device. N. I. Korman. 2,421,790; June 10.
Valve: *See*—
  Control valve.
  Gas valve.
  Plug valve.
Valve mechanism for soot blowers. De L. E. Hibner and F. C. Arey. 2,421,941; June 10.
Valve system, Electric. B. Cooper. 2,421,994; June 10.
Vehicle seat. L. B. Rivard and W. Jensen. 2,421,851; June 10.
Vehicle wheel cover. G. A. Lyon. 2,421,756; June 10.
Ventilator, Window. H. A. Etling. 2,422,085; June 10.
Wall switch. H. N. Heasty. 2,421,881; June 10.
Washing and drying apparatus, Dish. N. H. Koertge. 2,422,022; June 10.
Water-cooled furnace door. A. W. Hellstrom. 2,422,015; June 10.
Wave guide system. J. R. Whinnery. 2,422,058; June 10.
Well drilling device, Hydraulic. E. Merten. 2,422,031; June 10.
Well pressure gauge. W. R. Postlewaite. 2,421,907; June 10.
Wheel: *See*—
  Nose wheel.
Wheel cover. G. A. Lyon. 2,421,755; June 10.
Wire storage unit, Magnetic. D. K. Gannett. 2,421,750; June 10.
Work holding apparatus. T. E. Mead. 2,421,957; June 10.

CLASSIFICATION OF PATENTS

ISSUED JUNE 10, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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CLASSIFICATION OF DESIGNS

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U. S. GOVERNMENT PRINTING OFFICE: 1947

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE DE LANCEY

No. 5,216. Decided February 10, 1947

[159 F.(2d) 737; 72 USPQ 477]

PATENTABILITY—METHOD.

It is not unusual to allow method claims on the performance of a machine, provided the machine is operated upon a new, useful or inventive principle or method.

SAME—METHOD OF OPERATING LIQUID FUEL BURNER.

Where the method defined by the appealed claim is confined to the performance of the elements of appellant's structure, and structure claims have been allowed, *Held* method claim should be allowed.

APPEAL from the Patent Office. Reversed.

John M. Cole and *Martin T. Fisher* for De Lancey.

W. W. Cochran (*E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

After allowing claims 8, 9, 11 and 13, drawn to structure, in appellant's application for a patent relating to an oil burner and method of operating it, the Primary Examiner of the United States Patent Office rejected method claim 12, the only remaining claim in the case. The Examiner's decision was affirmed by the Board of Appeals and appeal is here taken from the Board's decision.

The invention involved here is concerned with the electrical ignition phase of the operation of liquid fuel burners of the type generally referred to as vaporizing or pot type burners. Such burners burn fuel oil which is less volatile than some fuels used for heating and difficulty has been experienced in the past in vaporizing the oil, particularly where electrical ignition and electrical vaporization were involved.

One particular problem which confronted the industry at the time the instant application was filed was to prevent the accumulation of carbon on the electrode which projected into the burner for the purpose of heating the oil and igniting the vapors. The gist of appellant's invention, as defined by the appealed claim 12, is in so arranging the parts, including the electrode, that the heat from the burning vapors will continuously heat the electrode to the point of combustion and thus prevent the accumulation of carbon on the same, it being recognized in the art that such accumulation of carbon prevents the efficient working of such a device.

Appealed claim 12 reads as follows:

> 12. In the operation of liquid fuel burners having a vaporizer over the bottom of which liquid fuel may flow and a sparking electrode above a portion of said vaporizer bottom, the method which comprises concurrently generating a spark between the electrode and the opposed portion of the vaporizer bottom to preheat said surface and allowing liquid fuel to flow slowly onto more remote portions of said vaporizer bottom and then onto the heated area for vaporization and ignition, and thereafter maintaining the electrode heated to temperatures which avoid the accumulation of soot and carbon residues.

The Examiner listed as the references relied upon the following patents: Bridgford et al., 1,427,059, August 22, 1922; Beckett, 2,113,870, April 12, 1938; Bock, 2,194,081, March 19, 1940. The Board evidently intended to list the same patents but probably through error listed "Bolton et al." with the same number and date as Bridgford et al.

The Examiner merely cited the Bridgford et al. patent to show a burner pot on whose bottom a pool of oil is retained, the pool being slightly deeper at its center than at its periphery. The Bock patent was regarded by the Examiner as the chief reference and Beckett was cited to show the heating of an electrode so that soot and carbon may not accumulate thereon.

The Examiner's final statement of rejection is as follows:

> The finally rejected claim is to an alleged method of operating liquid fuel burners, having the features recited in the first two lines of the claim. The flow of liquid fuel as set out in lines 6 and 7 of this claim could not be insured by the apparatus illustrated by the drawing forming part of this application, but applicant states oil control apparatus for accomplishing such a result is old in the art. The main ground of rejection is that claim 12 does not define a proper method or process since it recites more or less specific apparatus and results of operating that apparatus. The claim is considered further objectionable and improper in that it recites steps that depend upon result or are results of operating the apparatus rather than steps in which results depend upon the recited steps. See decision IN RE CAUNT, 1936 C. D. 205. The claim recites no definite way for heating the electrode as set out in the last three lines and makes no reference to what the required "temperatures" may be. This is in effect a desired result. The claim is further thought met in all material respects by results that would be inherent to operation of the apparatus of Bock. Reference Beckett shows there is nothing novel in heating an electrode so soot and carbon may not accumulate thereon. Bridgford et al. shows means feeding fuel oil to a pool.

It will be noted that he rejected the claim, first, as not defining a proper process by reason of reciting specific apparatus and results obtained by the apparatus; second, as reciting steps that depend upon result or are results of operating the apparatus rather than steps in which results depend upon the recited steps; third, as reciting no definite way of heating the electrode; and, fourth, as being met in all material respects by results that would be inherent in the operation of the apparatus of Bock. He also relied upon Beckett to show the heating of an electrode so that soot and carbon may not accumulate thereon.

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The Board, in its first decision before reconsideration, specifically disapproved the rejection on the ground that the claim involved specific apparatus limitations, and also disapproved the ground of rejection based upon no definite way for heating an electrode being recited and there being no reference to what the required "temperatures" should be. The Board pointed out that with respect to this latter ground of rejection the appellant offered to correct this deficiency in the claim, and appellant offered an amendment to the effect that the term "maintaining the electrode" be changed by substituting the phrase, "subjecting the electrode to the heat of combustion so that it is maintained." The Board, in its decision on reconsideration, did not expressly indicate approval or disapproval of this proposed amendment. However it appears from the language used by the Board that it regarded the claim as containing the language of the amendment but held that the "temperatures" were neither critical nor inventive.

Appellant has assigned as a reason of appeal here the failure of the Board to pass upon the proposed amendment. In view of the fact that the Board considered the temperature question as being neither critical nor inventive and thus overruled this ground of rejection on the part of the Examiner we do not need to consider this reason of appeal.

The Board, in its first decision, overruled the Examiner's first three grounds of rejection, indicating in its decision on reconsideration that it regarded the first two grounds as being the same and reiterating its disapproval thereof. The ground of rejection affirmed by the Board, therefore, which we need to consider here, is as follows:

> There is a further rejection of the claim as being met in all material respects by the inherent operation of the Bock apparatus. Bock discloses a device in which a spark is generated between an electrode and an opposed portion of the vaporizer which obviously preheats the surface with which the spark contacts while concurrently allowing liquid fuel to flow onto a remote portion of the vaporizer body as the fuel enters and then onto the heated area for vaporization and ignition as more fuel enters. The feature of maintaining the electrode heated by subjecting the same to the heat of combustion to avoid accumulation of soot and carbon residues is an old expedient, as the Examiner points out. We see no invention in locating the ignition means in Bock so as to take advantage of this old expedient, the claim otherwise failing to patentably distinguish over the disclosure in Bock as above indicated. It is clear that the electric current is supplied to produce the spark simultaneously with the feeding of a supply of oil through the conduit 12 so that the liquid fuel is allowed to flow concurrently with the generating of the spark and it is also clear that the liquid fuel enters at a point remote from the sparking electrode, after which it flows onto the heated area for vaporization and ignition as a normal operation of the Bock device. Finding no error in the conclusion reached by the Examiner with respect to the rejection on this reference, the rejection will be sustained.

The Board regarded Bock as the main reference and stated that, as the Examiner pointed out, it was an old expedient to heat to the point of combustion in order to avoid soot and carbon residue, and also stated that it saw no invention in locating the ignition means in Bock so as to take advantage of this old expedient. It did not specifically refer, in its first decision, to the Beckett reference.

Upon petition for rehearing, which the Board treated as a petition for reconsideration, the Board reiterated its overruling of the Examiner's first three grounds of rejection as enumerated above and specifically stated that it did not regard the appealed claim objectionable for the reason given by the Examiner in citing *In re Caunt*, 23 C. C. P. A. (Patents) 855, 81 F.(2d) 405, 28 USPQ 282. The Board further stated in its second decision:

> In connection with the rejection on the Bock patent, we stated that no invention was seen in locating the ignition means in Bock so as to maintain the electrode heated by subjecting the same to the heat of combustion to avoid accumulation of soot and carbon residues since this feature is an old expedient, as the Examiner pointed out. Beckett, for one, discloses such expedient to be old and its adaptation to the device of Bock is not considered a matter of invention. The appealed claim defines no manner of maintaining the electrode heated which in any way defines invention over the broad concept, which, in our opinion, is clearly anticipated.

The Bock reference (and we will not discuss the other Bock patents referred to in appellant's brief as being explanatory of the reference patent) shows a pot burner having a vaporizer over the bottom of which liquid fuel flows and a sparking electrode up above a portion of the vaporizer bottom. He concurrently generates a spark between the electrode and the opposed part of the vaporizer bottom, though in a somewhat different manner than does the applicant. He allows liquid fuel to flow onto remote portions of the bottom and then onto the area heated by the spark. On reaching the heated area the fuel is vaporized and ignited.

Bock does not disclose the final step of claim 12, which is heating the electrode in order to avoid the accumulation of carbon thereon.

The Solicitor for the Patent Office states:

> * * * the only real issue presented here is whether it would involve invention to arrange Bock's electrode so that it would be sufficiently heated by the burner to prevent the accumulation of carbon on it.

It is true that Bock realized that the formation of carbon was objectionable and took steps to prevent it. He blew cold air over the electrode for this purpose, while appellant permits the gases to contact the electrode but heats it sufficiently to prevent the accumulation of carbon on it.

It was the view of the tribunals below, and is that of the Solicitor, that inasmuch as Beckett teaches heating the electrode to keep it free from carbon it would not involve invention to substitute the idea of Beckett in the structure of Bock.

It is noted that Beckett's is a different kind of oil burner. It is of the rotary wall flame type and not the pot type and presumably works on somewhat different principles, since the firing takes place at a different portion of the combustion chamber than in a pot burner.

Beckett stresses heating the electrode sufficiently to vaporize oil which may strike its tip and then he contemplates blowing these vapors away with a current of air to be burned higher up in the burner.

It is clear why Beckett used a stream of air on his upwardly located electrode. He did not have the notion that it was so placed (and we are not sure that it was, even in that kind of burner) that the heat engendered around it would of itself clear the electrode of carbon without the necessity of blowing away the bubbles with air. He did not have the idea that is stressed in the instant application that if you put the electrode in the portion where appellant's is located the heat generated would continuously operate to burn the soot from the electrode without the necessity of any blowing of air. It is difficult to see just how one could extend the electrode of Bock into the heated area to accomplish what appellant accomplishes.

It is easy to see the simplicity of construction and method of operation of a satisfactorily operable device after it has been constructed and explained, and the courts have frequently commented upon the fact that some of the apparently simplest modifications and changes promoted such revolutionary results as to have a marked influence upon the development of the art and that in such instances, in determining the presence or absence of invention, hindsight should not be substituted for foresight. We will not discuss at length the great array of decisions to this effect cited by appellant, such as *Potts v. Creager*, 155 U. S. 597; *Faries Mfg. Co. v. George W. Brown & Co.*, 121 F. 547; *Greenwald Bros., Inc. v. Enochs et al.*, 183 F. 583; *Mead Morrison Mfg. Co. v. Exeter Mach. Works*, 196 F. 789; *Miehle Printing Press & Mfg. Co. v. Whitlock Printing Press & Mfg. Co.*, 223 F. 647; nor the decisions which hold that the conception of doing a thing, the result of which is new and useful, must be considered along with the actual steps of doing it in considering the presence or absence of patentability, such as this court's decision, *In re Hofmann*, 25 C. C. P. A. (Patents) 975, 95 F.(2d) 257, 37 USPQ 222.

It is stated by appellant in his application that at the time of filing the same electrical ignition of pot type oil burners had not been regarded as satisfactory and that the construction and process which he here claims solved the problem in a satisfactory manner. This is not denied by anyone and it seems to us to be a proper matter to take into consideration in determining the question of the presence of invention. While it is ordinarily not proper on appeal to consider allowed claims to determine the question of whether or not invention is defined in rejected ones, it is, under the particular circumstances at bar, proper to note that the allowed article claims recite substantially the same elements as are embraced in performing the method of the appealed method claim.

It is true that frequently article claims are allowed by reason of the novel means of accomplishing a method while the method itself is not patentable, ofttimes for the reason that the claims are so broad that they cover all methods of accomplishing the result. There is no rejection of the instant method claim on the theory that it covers all methods of bringing about the desired result. As we see it, the invention defined by the appealed claim is confined to the performance of the elements of appellant's structure. No authority need be cited here to the effect that it is not unusual to allow method claims on the performance of a machine provided the machine is operated upon a new, useful, or inventive principle or method. These requirements we think are fully met by the appealed claim and we think the same should be allowed.

The Solicitor makes the novel point:

> It is thought that the appellant's invention is amply covered by the allowance of claims and that the allowance of claim 12 would unduly extend the scope of his monopoly.

It is not seen how the allowance of the appealed claim would unwarrantedly extend the monopoly of the patent when issued but it is probable that the Solicitor means that the appellant would have broader protection with claim 12 allowed than he would otherwise have with his article claims. Since we conclude that the appealed claim properly defines appellant's method of accomplishing the desired result, he is entitled to all the benefits that may flow from it.

While there is nothing new, as is frankly admitted by appellant, in the application of heat to burn carbon off a somewhat cool surface, it was new to conceive the notion of employing heat alone to remove carbon from such an important element as an electrode in a pot type oil burner and a new, useful, and unobvious result flowed from making a practical application of such conception.

The decision of the Board of Appeals affirming the rejection of the Examiner as to appealed claim 12 is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

In re Alden

No. 5,229. Decided February 10, 1947

[159 F.(2d) 749; 72 USPQ 484]

Invention—Substitution of Hypoid Gear for Other Gear.

Where results accomplished by the substitution of a hypoid gear in a double speed axle for other types of gears are not unexpected but flow from the mere substitution of one element for another, *Held* within the realm of those skilled in the art.

Same—Evidence of—Affidavits.

Although in many cases affidavits as to the amount of improvement are helpful in determining the presence of invention, *Held* that where, regardless of the degree of improvement, it is clear that the same was made while in the mere exercise of mechanical skill, such affidavits are not of importance on the question of invention.

Appeal from the Patent Office. Affirmed.

Strauch & Hoffman (*James E. Nolan*, *James A. Hoffman* and *J. Matthews Neale*, and *William A. Strauch* of counsel) for Alden.

W. W. Cochran (*E. L. Reynolds* of counsel) for the Commissioner of Patents.

Bland, *J.*:

This appeal is from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner in rejecting claims 34 to 37, inclusive, of appellant's application for a patent on axle construction on the ground of lack of invention over the prior art. Claims 31, 32 and 33 were allowed.

The application relates to a two-speed axle drive especially adapted for use in trucks or heavy-duty structures. The modification with which we are here concerned is only one of the features covered by the application and is a divided subject matter from a long application with six pages of drawings.

We find difficulty in describing the alleged invention although the issue presented here is found to be quite simple. The invention is described in the specification, in the decision of the Examiner, and in the brief of the Solicitor for the Patent Office by referring to various numerals indicating elements of Fig. 1*a* of appellant's drawing, which modification was elected for prosecution in the instant application. The drawing is so complicated and is so indistinct in the record before us that its reproduction here and citation of the numerals referred to in the descriptions of it here above enumerated would not be helpful.

It seems to be the position of both parties that the issue is simplified to a consideration of the disclosure in the instant application and certain disclosures in the three references cited, which requires no detailed description of the relation of the various elements and requires no reference to the drawing.

Claim 34 was regarded as illustrative by the Board and is so regarded by us and follows:

> 34. A heavy duty single reduction truck axle having a materially greater speed reduction than a standard pleasure car axle, comprising a housing having a pair of opposed axle arms and a forwardly directed pinion shaft portion, a pair of axle shafts journalled in said axle arms; a rotor mounted for rotation in said housing concentrically with respect to said axle shafts; a hypoid ring gear carried by said rotor; a pinion shaft mounted in said pinion supporting portion of said housing for rotation about an axis materially offset from the axis of said rotor and said axle shafts; a hypoid pinion on said pinion shaft meshing with said hypoid ring gear carried by said rotor; a casing journalled within said rotor; a selectively shiftable planetary gear mechanism disposed in said rotor and operable to transmit power from said rotor to said casing at either a one-to-one ratio or an overdrive ratio; and a differential mechanism in said casing for transmitting power from the latter to said axle shafts, said hypoid pinion and ring gear having a speed reduction which is sufficiently great to adequately handle heavy truck loads when said planetary gear mechanism is transmitting power at said one-to-one ratio.

The references relied upon are: Snow, 2,225,720, December 24, 1940; Spicacci, 2,142,575, January 3, 1939; Starr, 2,068,438, January 19, 1937.

What appellant has done is to place in a two-speed axle differential a hypoid gear and ring. The two patents cited, Snow and Starr, both show two-speed differentials driven by sun and ring gears. It is clear from the teachings of Spicacci that he contemplated the use of a hypoid gear for the reason that the size of the same and the elements of which it was made could be reduced to the point where there would be more road clearance and less space taken up by the gearing device.

The sole question presented is whether or not it involved invention to place the hypoid gear, such as Spicacci used in a single speed axle, into a double speed axle in which formerly there had been used other kinds of gears which, owing to their nature, took up more space.

Appellant, by the use of the hypoid gear in his construction, has been able to reduce the diameter of the gear from seventeen inches to thirteen inches, which obviously is desirable and is a new and useful result. That this is true seems not to be questioned by the Patent Office.

It was held by the Examiner and by the Board, however, that in view of the teachings of Spicacci it did not require the exercise of the inventive faculty to place the hypoid gear, such as Spicacci uses, into the two-speed differential driven by sun and ring gears, such as is shown by Snow or by Starr.

The advantages derived by making the said gear substitution are stressed by appellant as being:

> 1. The size of a two speed axle is reduced to that of a single speed axle.
>
> 2. Many parts made for use in a single speed axle can be employed interchangeably in a two speed or a single speed construction.
>
> 3. An efficient and durable direct drive having a sufficiently reduced speed ratio to handle truck or like heavy loads in direct drive is secured in spite of the reduction in size of the two speed axle.
>
> 4. Conversion from a single speed to a two speed axle is facilitated.

The Solicitor points out that these advantages all flow from the conception that a reduction in the size by the use of hypoid gears will accomplish these purposes and that after all it was a question of size which brings about the desired result.

We agree with the view of the Patent Office tribunals that in view of Spicacci's disclosure there was no inventive conception in arriving at the conclusion that these objectives could be accomplished by the use of a smaller gear that would mesh into smaller parts and thus reduce the size of the assembly.

This is not a case, in our opinion, where an unexpected result flowed from the substitution of an element in one machine into another such as warrants the conclusion that patentable invention was involved. It seems to us that what appellant has done is clearly within the realm of those skilled in the art and that such skilled persons should not be fettered in their experiments and accomplishments by unwarranted patent restrictions.

Appellant has complained that the Board misunderstood the teachings of the Spicacci patent and much space in his brief is devoted to this question. We find it unnecessary to enter into a discussion of this argument because it is clear to us that the tribunals below were not in error in their holdings that Spicacci taught the desirability of using a hypoid gear in an axle differential and that it is implicit in his teachings that one of the advantages that flowed from such use was compactness as well as an adaptability to the use therewith of smaller ring gears and the consequent possibility of greater road clearance. Spicacci obviously discloses that a smaller ring gear could be used with the hypoid pinion and this within itself would be a reduction in diameter and size of the parts.

We think that one skilled in the art would, without the exercise of the inventive faculty, realize, as has appellant, that where smaller parts and compactness are desired the hypoid gearing would readily lend itself to the accomplishment of these ends.

Two affidavits by automotive engineers were submitted to the Examiner which purport to support appellant's contention that his alleged invention is a material improvement over axles which have heretofore been commercially used. These affidavits point out the respects in which those improvements are alleged to reside. These stated facts seem not to be in controversy. That an improved result has been produced by appellant is not denied. In many cases affidavits as to the amount of improvement are helpful in determining the presence of invention, but where, regardless of the degree of improvement, it is clear that the same was made while in the mere exercise of mechanical skill, such affidavits are not of importance on the question of invention.

We think the decision of the Board affirming the action of the Examiner in rejecting the appealed claims upon the art cited was proper, and its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

Riester *v.* Kendall

No. 5,223. Decided February 10, 1947

[159 F.(2d) 752; 72 USPQ 481]

Interference—Process and Product—Constructive Reduction to Practice—British Specification—Product Inherent in Process.

Although British specification relied upon for constructive reduction to practice failed to give the correct structural formula for the products disclosed therein, *Held* product count adequately supported, since products corresponding to the structural formula of the count are formed as a matter of fact in carrying out the steps of the process by the working examples of the British application.

Same—Same—Same—Same—Same.

Where there is no dispute concerning support for the interference counts in appellee's United States application and where the essential reaction steps of the process defined by the three examples given in appellee's British application are the same as corresponding examples given in the United States application, but the structural formulae given for the identificatoin of the products differ, *Held* that the counts are adequately supported in the British application.

Interference—Constructive Reduction to Practice—British Specification—Obvious Mistake in Disclosure.

A disclosure of patentable subject matter in a British specification will not be held to be insufficient for constructive reduction to practice by reason of a mistake in that specification which is obvious to any person skilled in the art.

Interference—Process and Product—Priority.

Although appellee's British application contains a concededly initial error in the recital of the structural formula for the product obtained as a result of carrying out the process, *Held* that such British application sufficiently discloses the subject matter of the counts in issue and priority properly awarded appellee.

Appeal from the Patent Office. Affirmed.

Richard K. Stevens (*E. P. Gilheany* and *E. H. Mosher* of counsel) for Riester.

Lynn B. Morris (*C. H. Biesterfeld* of counsel) for Kendall.

O'Connell, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention of the subject matter defined by the counts in issue (Nos. 1 to 4, inclusive) to appellee Kendall.

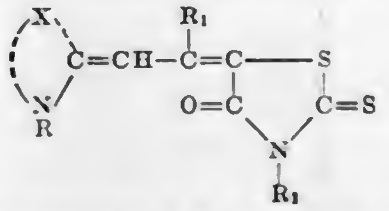
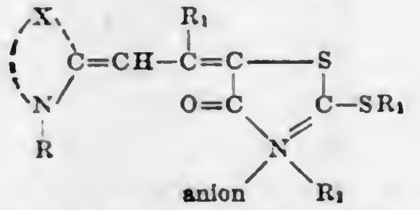
The interference is between appellant's application, Serial No. 237,474, filed October 28, 1938, which has an alleged "German convention date" of November 8, 1937; and appellee's application, Serial No. 174,693, filed November 13, 1937, which has an alleged "British convention date" of November 14, 1936.

The interference when instituted involved the application, Serial No. 316,002, filed by a third party, Brooker, who conceded priority to appellee. Thereupon the proceeding was terminated as to that particular party.

No testimony was taken by either party. In lieu thereof, each party filed a certified copy of his foreign application and relies upon that application for constructive reduction to practice.

Appellant is the junior party and the burden was upon him to establish priority of invention by a preponderance of the evidence.

The counts call for a process of producing dyestuffs and the product obtained therefrom. The products are alleged to be useful "for the optical sensitizing of photographic silver halide emulsions." Counts 1 and 3 are illustrative—

> 1. A process for the production of dyestuffs comprising treating with an alkyl salt a compound of the general formula
>
> 
>
>
> where X is the remainder of a heterocyclic system of the type used in cyanine dyes, R is alkyl, R_1 is alkyl, and R_2 is a member of the group consisting of alkyl, aryl, and aralkyl.
>
> 3. A product of the general formula
>
> 
>
>
> where X is the remainder of a heterocyclic system of the type used in cyanine dyes, R, R_1 and R_2 are alkyl, and R_2 is a member of the group consisting of alkyl, aryl, and aralkyl.

The sole question for determination is whether appellee's British application discloses the process and the dyestuffs defined by the counts in issue.

The answer to that question depends upon whether the subject matter of the counts is sufficiently disclosed in appellee's British application in view of the concededly initial error in that application in the recital of the structural formulae for the dyes obtained as a result of carrying out the process therein defined.

In its decision the Board made the following statement:

> In many chemical processes, formulae and equations cannot be given at all with certainty due to the complexity of the reaction or incomplete knowledge thereof.
>
> This fact, however, does not preclude a proper disclosure of a chemical reaction and product. By the same token, an

> initial error in attempting to explain a reaction should not vitiate a disclosure which does in fact fully teach how to secure and recognize a certain product.

In awarding priority of invention to appellee, the Board held that appellee's failure to give the correct structural formulae for the products disclosed by his British application was not controlling since products corresponding to the structural formulae of the counts are formed as a matter of fact in carrying out the steps of the process disclosed by the three working examples of the British application, irrespective of the structural formulae given therein.

The Board also held that appellee's British application disclosed not only the complete process for preparing the dyestuffs but also the dyestuffs themselves and the means for identifying them that are called for by the counts, although "the counts designate this dyestuff and process in a language that was not fully understood by Kendall at the time he filed his provisional specification."

The Board stated that that portion of the disclosure in the Kendall British provisional application which gave the formulae and equations was

> * * * a gratuitous contribution that was not absolutely essential to a teaching of the invention. The further fact that it was couched in terms of uncertainty was reasonable notice to those skilled in the art that subsequent knowledge might necessitate altering the graphic or scientific explanation he offered. The fact that his explanation did in fact prove to be in error should not reflect upon or detract from the essential portion of his disclosure proper.

Appellant states that if the court should hold that appellee's British application discloses the process and the dyestuffs defined by the involved counts, the decision of the Board should be affirmed since admittedly the British application has a date earlier than appellant's record date.

There is no dispute here that appellee's United States application discloses the invention defined by the counts.

Appellant contends, however, that the invention disclosed by appellee's British application is not the invention defined by the counts. More specifically appellant contends that the counts call for the treatment of definite products "having definite configurations" and that appellee's British application "does not disclose the vital elements of the counts, namely, the claimed configuration,"

The essential reaction steps of the process defined by the three examples given in appellee's British application are the same as corresponding examples given in his United States application. The structural formulae, however, given for the identification of the respective products of the reaction in appellee's British application differ from those recited in appellee's United States application.

On that point the Board stated—

> * * * Specifically, the difference lies in the alleged results of the reaction of 1-methylbenzthiazole ethiodide and N-methyl-rhodanic acid. According to the provisional application the bond between the nuclei of the molecules is formed through the 1-methyl group in the form of a methenyl grouping. In the United States application, on the other hand, the acetic anhydride present is indicated as entering into the reaction, thereby forming compounds corresponding to the *intermediate* of counts 1 and 2 as well as the final product of counts 3 and 4. [Italics supplied.]

Appellant contends that the foregoing statement is an erroneous statement of fact in that the counts call for the treatment of a compound that is entirely different from that disclosed by appellee's British application. More specifically appellant alleges that the Board took notice of the discrepancy in appellee's British application "only in so far as the discrepancy involves a lack of disclosure of the precise linkage of the counts connecting the benzthiazole (first or left hand ring) and the N-methyl-rhodanic acid (second or right hand ring) portions of the compound," whereas, it is argued, "*not only* is the correct linkage between the two rings or nuclei *not* disclosed in the British provisional specification *but also* the structure of the second mentioned ring or nucleus *per se* is that of an entirely different compound in that in the British provisional specification it is not shown to contain an *oxygen* atom connected to the nuclear carbon atom that is adjacent to the point of attachment to the ring, * * * *as specifically called for by each of the counts*." [Italics quoted.]

Appellant urges that, although it may be true that the three working examples disclosed in appellee's British application correspond substantially to examples in his United States application, nevertheless, there are approximately 15 pages of working procedure set forth in his United States application which have no counterpart whatsoever in his British application.

Appellant's United States application also, as stated in the Board's decision, contains additional examples which do not disclose the subject matter of the counts. The fact that some of the examples enumerated in appellee's United States application may not disclose the subject matter of the counts is not material in the instant case.

The Board held that the counts are adequately supported by the essential reaction steps given in certain examples in appellee's United States application which are substantially the same as the three working examples given in his British application.

According to the decision of the Board any person skilled in the art having before him appellee's British application would be enabled without the exercise of the inventive faculties to make or compound the dyestuffs described in that application. We are unable to hold that the views thus expressed by the Board are manifestly wrong.

The instant case falls within the rule that a sufficient disclosure of patentable subject matter in a British provisional specification will not be held to be insufficient for constructive reduction to practice by reason of a mistake in that specification which is obvious to any person skilled in the art. *Travis v. Baker et al.*, 30 C. C. P. A. (Patents) 1271, 137 F.(2d) 109, 58 USPQ 558. See also *Patterson et al. v. Clements et al.*, 30 C. C. P. A. (Patents) 1262, 136 F.(2d) 1002, 58 USPQ 539.

The Board in rendering its decision made a number of holdings on subordinate questions to each of which holdings appellant takes vigorous and argumentative exception. The court has given careful consideration to all of the arguments presented by appellant, but is of opinion that the decision of the Board on the highly technical matter here involved is correct.

For the reasons stated, the decision of the Board of Interference Examiners is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE TETER

No. 5,227. Decided January 7, 1947

[158 F.(2d) 1007; 72 USPQ 268]

CLAIMS—LIMITATIONS NOT CLAIMED.

Limitations not recited in a claim cannot be relied upon to impart patentability to that claim.

CLAIMS—PROCESS—APPARATUS LIMITATIONS.

Where appellant relies for patentable distinction upon "Superposed baffling means" adapted to perform a desired result, *Held* that a limitation drawn to such means cannot be relied upon to impart patentability to his claim for process.

SAME—SAME—INDEFINITE.

Where the claim defines the proportions or amount of ingredient by the term "substantial," and reliance is placed upon that term to patentably distinguish over the prior art, *Held* that the claim does not meet the requirement of Sec. 4888 Rev. Statutes, since it is obvious that no person skilled in the art would be enabled to practice the process defined by the claim without considerable research to determine the definite proportions or amounts of ingredients to be employed by him in reaching the desired result.

PRACTICE—ALLEGATION OF NEW RESULT—EVIDENCE TO SUPPORT.

Where allegations of new result find their only support in the record in certain general statements contained in the application, *Held* that those statements are insufficient to establish the involved point.

APPEAL from the Patent Office. Affirmed.

Pennie, Edmonds, Morton and *Barrows* (*Louis D. Forward* and *Clarence M. Fisher* of counsel) for Teter.

W. W. Cochran (*H. S. Miller*, of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in rejecting claim 4 in appellant's application for a patent for alleged improvements in the catalytic cracking of hydrocarbon oils. Claims 2, 3, 5, and 6 were allowed.

Claim 4 was rejected for the stated reason that it defined no subject matter patentable over the disclosure of the patent to Wilson, No. 2,249,924, granted July 22, 1941.

Claim 4 reads—

> 4. In the catalytic cracking of hydrocarbon oils the improvement which comprises heating a substantial liquid body of oil to be cracked at a moderate cracking temperature while in a vertically elongated cracking zone containing superposed baffling means adapted to distribute dispersed upwardly flowing gaseous products and to impede the downward flow of suspended solids, supplying a finely divided argillaceous catalyst dispersed in oil to be cracked to the upper end of said cracking zone, injecting gaseous products into the lower part of said zone, taking off cracked vapors and gases from the upper end of said zone, withdrawing residual oil and admixed spent catalyst from the lower end of said zone, and controlling the rate at which gaseous products are supplied to the lower portion of said zone relative to the rates at which oil to be cracked and admixed catalyst are supplied to the upper part of said zone to maintain a high ratio of dispersed catalyst to oil within said zone.

The subject matter of the rejected claim relates to a process directed to the production of gasoline by the catalytic cracking of hydrocarbon oils in an apparatus.

The elements of the apparatus selected by appellant as pertinent to this appeal are his vertically elongated cracking tower mounted in a furnace setting together with the four communicating connections through which the involved substances are conducted according to the procedure defined by the rejected claim. The cracking tower is internally provided with baffles consisting of an upper section and a similar lower section of packing material.

Two separate heater units are also provided wherein stocks to be processed may be heated by means of a connection through which the stocks are by-passed and preheated prior to their introduction into the cracking tower or zone.

The patent to Wilson describes the steps of a process for the catalytic conversion of hydrocarbons into motor fuels in an apparatus.

The elements of the apparatus described by the specification and indicated in the drawing, so far as pertinent, are a conversion chamber or vertically elongated cracking tower provided internally with suitable baffle plates or other contact means in the upper and lower sections and four communicating connections through which the involved substances are conducted.

Two heater units are also provided wherein gas oil and gases are separately heated and thereafter discharged into the conversion chamber. To control the temperature of that chamber, one of such heaters is provided with a connection through which gas oil to be cracked is by-passed, preheated and partially cracked prior to its introduction into the conversion chamber or cracking zone.

The record discloses that in carrying out the process disclosed by the cited reference, a catalyst dispersed in oil to be cracked is supplied by a connection to the upper end of the cracking tower and near the same point oil is introduced by a separate connection; gaseous products are injected by a pump into the lower part of the tower through a connection; the superposed baffling means permits the liquid to flow from the upper part of the tower without obstruction to the bottom of the tower and permits the vapor and gases in the tower to flow to the top thereof; the cracked vapors and gases are taken off by a connection from the top of the cracking tower while the catalyst and residual oil is withdrawn by a connection from the lower end of the tower.

The Primary Examiner analyzed and discussed the respective steps of the process defined by the appealed claim together with those disclosed by the reference patent and in the following statement indicated that the only difference between them involved no patentable subject matter—

> The rejected claim recites the broad and indefinite limitation of controlling the rate at which gaseous products are supplied to the lower portion of the cracking zone

> relative to the rates at which oil to be cracked and admixed catalyst are supplied to the upper part of said zone to maintain a high ratio of dispersed catalyst to oil within said zone.
>
> While the reference does not mention these limitations in the language of the appealed claim, it seems perfectly obvious that the patentee exercises the control in question. It it obvious that the gas, catalyst and oil are introduced into the cracking tower at controlled rates since the lines by which they are introduced are provided with pumps. * * *
>
> The limitations of the appealed claim are so broad and indefinite that they must be considered as met in the reference.

The Board of Appeals in affirming the action of the Examiner held that the process defined by the appealed claim reads substantially on the process disclosed in the patent to Wilson, and after comparing not only the difference in the respective temperatures to which the oil is heated but also the difference in the proportions of catalyst to oil maintained within the respective towers, agreed on the whole with the rejection of the appealed claim for the reasons stated by the Examiner in his statement on appeal. In rendering its decision the Board made the further pertinent statement—

> The principal difference is that applicant begins his process with what the claim states is a "substantial" body of oil in the tower, whereas Wilson cascades his oil through the tower. The word "substantial," however, is too indefinite and broad to afford a basis on which patentability over Wilson may be predicated. It is not clear whether the word "substantial" means that the body of oil must be of any particular depth in the tower, and it seems quite possible that some oil would accumulate and form a body of oil in Wilson at least below the gas distributor at the end of line 33.

Appellant concedes that there is considerable "superficial" similarity between the process embodied in the rejected claim and the process disclosed by the reference patent but contends that in reality they have little in common and that the rejection of the claim was due largely to the alleged error of the Examiner and the Board in comparing the respective features of the processes singly instead of comparing such features as a whole.

Appellant relies upon 17 reasons of appeal and devotes 12 paragraphs of his brief to a comparative analysis of enumerated differences which he alleges define subject matter patentable over the disclosure of the cited reference. The Solicitor for the Patent Office concedes that appellant's application discloses invention but suggests that the subject matter of that invention was completely measured and protected by the claims allowed by the Examiner.

It is noted that the rejected claim is directed not to an apparatus but to a process performed by the operation of the elements of an apparatus. Accordingly the question here in issue is not whether the apparatus and the process defined by the limitations of the rejected claim differ from the apparatus and process disclosed by the patent to Wilson but whether the respective processes in and of themselves are patentably different.

Appellant contends that the very essence of his invention resides in that limitation of the rejected claim which defines the maintenance of a moderate cracking temperature in the zone wherein catalytic cracking is effected whereas the Wilson patent mentions temperatures only as temperatures which are to be maintained in the pipe heater where no catalyst, no gas, and no baffling means of any form are present.

The Board as hereinbefore noted discussed and passed upon the point involving the respective temperatures upon which appellant here relies as a patentably distinguishing feature of his process over the process of the cited reference.

The specific cracking temperature to which the oil is heated in appellant's process, as described by his specification and correctly pointed out by the Board of Appeals, is 600° to 900° F. compared to the cracking temperature ranging from 850° to 900° or 950° F. disclosed by the patent to Wilson. The record discloses that one of appellant's exemplified values is 900° F., a cracking temperature included within the range of cracking temperatures disclosed by the patent to Wilson.

Accordingly there is no basis for holding that the rejected claim defines patentable subject matter in the limitation which defines "a moderate cracking temperature."

It is true that in the process disclosed by the patent to Wilson gas oil is preheated to cracking temperature in a pipe heater and partially cracked before its admission to the conversion chamber. Under those conditions "about 10 to 25% of the gas oil may be converted to gasoline." Moreover a slurry of catalyst and cooler gas oil is separately introduced near the same point in the conversion chamber to avoid "the necessity of directly heating the catalyst to the desired conversion temperature."

The maintenance of the desired cracking temperature in the conversion chamber of the patent to Wilson, as hereinbefore described, is accomplished by introducing a stream of heated gas oil to flow countercurrent to the reaction mixture in the conversion zone or chamber wherein catalyst, gas, and baffling means are present during the cracking process.

Appellant likewise provides in his specification that stocks to be cracked may be subjected to preliminary heating in a heater prior to their introduction into the vertically elongated cracking zone, as follows:

> In carrying out the process of my invention substantially all of the heating may be directly applied to the oil in the cracking zone, as by external or internal indirect heat exchange. However, the heating load directly applied to the cracking zone may be reduced by preliminary heating of the gaseous products supplied to the lower end of the cracking zone and also by preheating the fresh charge of reflux condensate or both prior to their introduction into the cracking zone. * * *

A careful analysis of the respective disclosures fails to convince the court that a patentable distinction over the cited reference resides in the fact that in the patent to Wilson the gas oil is preheated to cracking temperature and partially cracked before such oil is admitted to the reaction chamber or cracking zone.

Appellant relies upon an alleged patentable distinction over the disclosure of the patent to Wilson in the alleged fact that the conversion chamber of the patent cannot be characterized as a zone "containing superposed baffling means adapted to distribute upwardly flowing gaseous products and to impede the downward flow of suspended solids" since that portion of the conversion chamber which lies below the point of gas introduction as disclosed by the cited reference "does not contain any form of baffling means, much less baffling means of the particular type required to meet the recitations of rejected claim 4."

The rejected claim contains no particular limitation reciting apparatus other than "superposed baffling means" adapted to perform a desired result. Limitations not recited in a claim cannot be relied upon to impart patentability to that claim. *In re Saunders et al.*, 33 C. C. P. A. (Patents) 1001, 154 F.(2d) 693, 69 USPQ 341, 590 O. G. 11. Furthermore, a limitation drawn to "superposed baffling means" cannot be relied upon by appellant to impart patentability to his claim for process. *In re Oakley*, 22 C. C. P. A. (Patents) 834, 73 F.(2d) 934, 24 USPQ 75, 454 O. G. 536.

In any event, appellant's contention on the specific point in issue is without merit for the reason pointed out by the Primary Examiner that the patentee uses superposed baffling means in his conversion chamber which perform a suggestively similar if not the same function that is performed by the baffling means in the cracking zone disclosed by appellant.

The Board held in effect that the ratio of liquid oil in the respective towers during the cracking process was a difference only in proportions or amounts of ingredients and that a patentable distinction was not defined by the term "substantial" as employed in the rejected claim for the stated reason that such term was too broad and indefinite.

It is obvious that no person skilled in the art would be enabled to practice the process defined by the rejected claim without considerable research to determine the definite proportions or amounts of ingredients to be employed by him in reaching the desired result.

Therefore appellant's claim does not meet the requirement of the statute which provides that an applicant for a patent shall particularly point out and distinctly claim the part, improvement, or combination which he claims as his invention or discovery. *In re Beach*, 33 C. C. P. A. (Patents) 815, 152 F.(2d) 981, 68 USPQ 196, 585 O. G. 5.

Counsel for appellant in his oral argument made a statement to the effect that appellant was the first person ever to use the process defined by the rejected claim with a new result. The only support in the record for that assertion are certain general statements contained in appellant's application. The court does not, however, consider those statements sufficient to establish the involved point by a proper showing. *In re Berger*, 31 C. C. P. A. (Patents) 1234, 143 F.(2d) 971, 62 USPQ 299, 568 O. G. 389.

The alleged differences between the respective processes when analyzed show no feature, singly or as a whole, which patentably distinguishes the process defined by the rejected claim from the process disclosed by the patent to Wilson.

The record clearly discloses moreover that appellant has done only the thing that the reference patent suggests doing. For that reason appellant is not entitled to the allowance of the rejected claim. *In re Stover*, 32 C. C. P. A. (Patents) 823, 146 F.(2d) 299, 64 USPQ 186, 573 O. G. 367; *In re Herthel*, 33 C. C. P. A. (Patents) 1202, 156 F.(2d) 170, 70 USPQ 234, 592 O. G. 3.

In view of the foregoing conclusion no useful purpose would be served in presenting and passing upon other points raised by appellant and the decision of the Board of Appeals is accordingly affirmed.

Affirmed.

TRADE-MARK REGISTRATIONS CANCELED

309,832. Prepared muffin flour. A. D. W. Food Products Co., San Francisco, Calif. Registered Jan. 30, 1934. Canceled May 19, 1947.

341,639. Oil burning heaters. American Gas Machine Company, Albert Lea, Minn. Registered Dec. 15, 1936. Canceled May 14, 1947.

374,439. Ladies' and children's underwear. Blue Swan Mills Inc., New York, N. Y. Registered Jan. 9, 1940. Canceled May 19, 1947.

393,613. Women's, misses' and juniors' dresses. Oxford Dress Company, Boston, Mass. Registered Feb. 17, 1942. Canceled May 13, 1947.

407,731. Fresh vegetables. O. R. Recker, doing business as O. R. Recker Packing Co., Phoenix, Ariz. Registered June 20, 1944. Canceled May 15, 1947.

423,270. Pipes. Lane Tobacco, Ltd., New York, N. Y. Registered Aug. 27, 1946. Canceled May 19, 1947.

423,402. Misses' and juniors' dresses and coats. S. F. Iszard Co., Elmira, N. Y. Registered Aug. 27, 1946. Canceled May 19, 1947.

425,078. Candy. M. J. Holloway & Co., Chicago, Ill. Registered Oct. 29, 1946. Canceled May 19, 1947.

NOTICES

Notice of Tentative Recordation of Trade Name

Tentative recordation of trade name under section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943

TREASURY DEPARTMENT
Office of the Commissioner of Customs
Washington, D. C., May 15, 1947

To Collectors of Customs and Others Concerned:

An application has been filed in the Treasury Department for the recordation of the following-described trade name under the provisions of section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943:

> "Midwest Railroad Supply Company," owned by E. J. Ford, 2044 North Fifty-fifth Street, Omaha, Nebraska, which is applied to, and used in connection with the sale of, railroad utility and industrial supplies, the merchandise being manufactured in the United States.

The recordation of the foregoing trade name shall become final at the expiration of 30 days after June 3, 1947. Any person who desires to file an opposition to the recordation of this trade name shall file it with the Commissioner of Customs prior to the expiration of such 30-day period.

Until the expiration of the above-mentioned 30-day period any articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and thereafter shall receive the treatment provided for in section 11.17, Customs Regulations of 1943, unless notice of the cancellation of the recordation is sooner received.

(Signed) G. H. GRIFFITH,
Acting Commissioner of Customs.

Interference Notice

U. S. Patent Office, *Washington, D. C., May 8, 1947.*

Oxford Confectionery Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of H. L. Hildreth Co., 549 Albany Street, Boston, Mass., for registration of a trade-mark and trade-mark registered October 28, 1930, No. 276,718, to Oxford Confectionery Company, South and Franklin Sts., Oxford, Pa., and the notice of such declaration sent by registered mail to said Oxford Confectionery Company at the said address of record having been returned by the post office undeliverable, notice is hereby given that unless said Oxford Confectionery Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notices of Cancellation

U. S. Patent Office, *Washington, D. C., May 13, 1947.*

Fort Pitt Bedding Company, its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Charles H. Johnson, 730 W. Arlington St., Youngstown, Ohio, to effect the cancellation of trade-mark registration of Fort Pitt Bedding Company, No. 422,674, dated August 6, 1946. The assignment records of this Office show a transfer of title to this registration to The Englander Co., Inc., Chicago, Illinois, which has been substituted for said Fort Pitt Bedding Company to defend the registration concerned. The Patent Office having been unable to obtain service upon The Englander Co., Inc., notice is hereby given that unless the assigns, legal representatives, or other person claiming an interest in the registration shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., May 19, 1947.*

Fess and Fischer, their assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Altheimer & Baer, 404 N. Wells St., Chicago, Ill., to effect the cancellation of trade-mark registration of Fess and Fischer, 1648 Vine St., Chicago, Ill., No. 299,983, dated January 3, 1933, and the notice of such proceeding sent by registered mail to the said Fess and Fischer at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Fess and Fischer, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., May 26, 1947.*

P. Centemeri & Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Sol W. Meyerson, Inc., 566 Seventh Ave., New York, N. Y., to effect the cancellation of trade-mark registration of P. Centemeri & Co., 334 Fourth Ave., New York, N. Y., No. 246,794, dated September 11, 1928, and the notice of such proceeding sent by registered mail to the said P. Centemeri & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said P. Centemeri & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Roster of Attorneys and Agents

U. S. Patent Office, *Washington 25, D. C., May 26, 1947.*

For the purpose of revising the roster of registered patent attorneys and agents and bringing it up to date, with eventual publication in view, a circular letter was mailed on April 15, 1947, to all individuals believed to be then actively engaged in practice before the Patent Office. Some active practitioners so registered, and particularly those whose latest addresses are not on file, may have failed to receive that circular letter and the form inclosed therewith. In all such cases it is requested that the Office be immediately advised, in order that additional forms may be mailed.

LESLIE FRAZER,
Chairman, Committee on Enrollment and Disbarment.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,374,449, E. C. Mulcahy, Method of producing cores for electrical induction apparatus, decided May 5, 1947, claims 1 and 3.

Pat. 2,370,883, Graydon Smith, Apparatus for heating materials for molding, decided May 23, 1947, claim 6.

Disclaimer

2,398,298.—*Walter L. Finlay*, Fairfield, and *Gilbert E. Hutchinson*, Bridgeport, Conn. Firearm. Patent dated Apr. 9, 1946. Disclaimer filed May 17, 1947, by the assignee, *Remington Arms Company, Inc.*

Hereby disclaims from the subject matter of claim 1 any device in which the shot mass first traverses an enlarged and vented chamber and thereafter traverses a pattern controlling device, as illustrated in Figs. 1 and 4 of the patent drawing; and further disclaims the entire subject matter of claim 2.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Re. 20,210. Safety System. Reissued Dec. 22, 1936. (Original No. 1,809,280, dated June 9, 1931.) Groups 33—63; 36—19. Reg. No. 5,725.

Pat. 1,872,880. Fuel Burner Control System. Patented Aug. 23, 1932. Groups 33—63; 36—19. Reg. No. 5,726.

Pat. 1,899,744. Oil Burner Control System. Patented Feb. 28, 1933. Groups 33—63; 36—19. Reg. No. 5,727.

Pat. 1,911,347. Oil Burner Control System. Patented May 30, 1933. Groups 33—63; 36—19. Reg. No. 5,728.

Pat. 1,924,304. Fuel Burner System. Patented Aug. 29, 1933. Groups 33—63; 36—19. Reg. No. 5,729.

Pat. 1,936,784. Fuel Burner System. Patented Nov. 28, 1933. Groups 33—63; 36—19. Reg. No. 5,730.

Pat. 2,162,501. Control Apparatus. Patented June 13, 1939. Groups 33—63; 36—19. Reg. No. 5,731.

The seven patents listed above relate, in general, to fuel burner systems with instantaneous safety control. A system may include a combustion component, a flame responsive component (such as a flame electrode positioned to extend into a flame) and a control associated therewith. The control may comprise an electronic tube arranged to effect energization of a suitable fuel supply control element, such as a solenoid valve, in accordance with the presence or absence of a flame at the flame electrode. Features relating to ignition of the combustion component and safety protection in the event of accidental grounding of the flame electrode are also covered. (Owner) Westinghouse Electric Corporation. Address correspondence to Patent Department, Westinghouse Electric Corporation, East Pittsburgh, Pa.

Pat. 2,337,828. Stiffened Garment Hanger. Patented Dec. 28, 1943. Hanger formed of corrugated board or like material has an integral longitudinal stiffener. Portions of the hook and stiffener are strengthened by double folds. The stiffener is held in position by bifurcated ends interlockingly engaged with extended lugs formed on the main body of the hanger. Modifications are shown. (Owner) Paul Lipman, 98—120 Queens Blvd., Forest Hills, Long Island, N. Y. Group 26—91. Reg. No. 5,732.

Pat. 2,080,315. Grass Trimmer. Patented May 11, 1937. Group 35—22. Reg. No. 5,733.

Pat. 2,082,764. Grass Trimmer. Patented June 1, 1937. Group 35—22. Reg. No. 5,734.

These two patents relate to a motor driven device of simple form and light weight construction to trim grass along walks, under hedges, and other places not reached by lawn mowers without the operator bending over or exerting unusual effort. The trimmer consists of a platform mounting and shaft, an elongated stationary knife bar, and a sliding knife bar driven by a motor and an eccentric coupling. (Owners) John M. Hosler and Robert F. Martin, 1010 Shoreham Bldg., Washington 5, D. C.

Pat. 2,271,526. Safety Timing Traffic Light. Patented Feb. 3, 1942. Traffic light is timed by a vertically extending tube of wavy or zigzag contour into which an amber or yellow signal fluid is pumped. The tube is supported within its own frame above the conventional red and green lights. The arrangement includes liquid and suction pumps, a solenoid and valve arrangement and an auxiliary tank for storing the liquid. When the red light is lit, the liquid pump is set into operation and the liquid slowly drawn into the tube. When the fluid reaches the top of the tube the pump is stopped, the red light extinguished and the green light illuminated. While the green light is in operation, the liquid in the tube is drained back into the tank by a solenoid which operates the suction pump. (Owner) George D. McGuinness, 1445 Otis Place, N. W., Washington 10, D. C. Group 36—62. Reg. No. 5,735.

Pat. 2,377,222. Bimetallic Clamp. Patented May 29, 1945. The heat responsive and flexing properties of a bimetallic material such as brass and invar (an alloy of nickel and steel) are utilized to effect a release or gripping action on various objects. The objects may range from mirrors or pictures to cutting tools, ophthalmic mountings, jeweled bearings, etc. The objects are firmly gripped under normal temperature conditions but may be released by chilling or the application of heat. Numerous modifications given. (Owner) Hal F. Fruth. Address correspondence to Carlson, Pitzner, Hubbard & Wolfe, 1 North La Salle St., Chicago 2, Ill. Group 34—39—41—51. Reg. No. 5,736.

Pat. 2,400,404. Method of Making Electrical Resistors. Patented May 14, 1946. This patent relates to a low cost method of manufacturing resistors such as those used in electronic circuits. Screw threaded glazed ceramic cores are given a thin overall coating of a platinum iridium alloy by cathodic deposition and then subjected to the action of carborundum granules in a tumbling mill. The second step removes the coating from the tops of the core ridges so that a conductive strip remains in the groove. Depending on the duration of the tumbling action, the width and hence the resistance may be varied. Resistors made by this method are comparable to the usual wire wound resistors. (Owner) Hal F. Fruth. Address correspondence to Carlson, Pitzner, Hubbard & Wolfe, 1 North La Salle St., Chicago 2, Ill. Groups 34—72; 36—19—99. Reg. No. 5,737.

Patents Dedicated to the Public

Air Conditioning—Group 35—84

The following patents owned by the Auditorium Conditioning Corp., a corporation of New Jersey, having a regular and established place of business at New York, N. Y., have been dedicated to the people of the United States of America by instrument recorded in the United States Patent Office.

The instrument reads in part as follows:

"* * * does hereby assign, transfer and dedicate to the people of the United States of America, all its rights, title and interest in, to and under the said inventions and Letters Patent for their free use thereof * * *"

Re. 17,998. Method and Means for Reducing Temperature by Dehydration. Reissued Mar. 10, 1931. (Original No. 1,749,763, dated Mar. 11, 1930.)

Re. 18,831. Method of Cooling and Drying Air. Reissued May 16, 1933. (Original No. 1,819,643, dated Aug. 18, 1931.)

Re. 20,069. Method and Apparatus for Conditioning Air. Reissued Aug. 18, 1936. (Original No. 1,904,468, dated Apr. 18, 1933.)

Re. 20,944. Air Conditioning. Reissued Dec. 13, 1938. (Original No. 1,878,618, dated Sept. 20, 1932.)

Re. 21,946. Method for Conditioning Air. Reissued Nov. 18, 1941. (Original No. 1,956,707, dated May 1, 1934.)

Pat. 1,817,384. Ventilating and Air Conditioning Method and System for Inclosures. Patented Aug. 4, 1931.

Pat. 1,840,565. Method of and Apparatus for Controlling Temperature and Humidity. Patented Jan. 12, 1932.

Pat. 1,863,576. Apparatus and Method of Air Conditioning. Patented June 21, 1932.

Pat. 1,863,577. Apparatus and Method of Air Conditioning. Patented June 21, 1932.

Pat. 1,863,578. Apparatus and Method of Air Conditioning. Patented June 21, 1932.

Pat. 1,863,579. Method and Apparatus of Air Conditioning. Patented June 21, 1932.

Pat. 1,846,875. Air Conditioning. Patented Feb. 23, 1932.

Pat. 1,895,444. Heating, Ventilating, and Air Conditioning. Patented Jan. 31, 1933.

Pat. 1,902,563. Apparatus for Conditioning Inclosures. Patented Mar. 21, 1933.

Pat. 1,955,406. Apparatus for Controlling Humidity. Patented Apr. 17, 1934.

Pat. 1,977,315. Method of Ventilating and Providing Desired Atmospheric Conditions in Inclosures. Patented Oct. 16, 1934.

Pat. 1,983,023. Method and Apparatus for Ventilation. Patented Dec. 4, 1934.

Pat. 2,009,529. Air Conditioning Apparatus and Control Therefor. Patented July 30, 1935.

Pat. 2,105,692. Air Conditioning Apparatus. Patented Jan. 18, 1938.

Pat. 2,110,203. Air Conditioning System. Patented Mar. 8, 1938.

Pat. 2,110,164. Air Conditioning. Patented Mar. 8, 1938.

Pat. 2,131,725. Method and System for Treating Air or Other Fluids. Patented Oct. 4, 1938.

Pat. 2,150,505. Air Conditioner. Patented Mar. 14, 1939.

Pat. 2,202,946. Air Conditioning System. Patented June 4, 1940.

Pat. 2,112,685. Method of and Apparatus for Ventilating. Patented Mar. 29, 1938.

Pat. 2,123,742. Air Conditioning. Patented July 12, 1938.

Pat. 2,213,350. Air Conditioning Apparatus. Patented Sept. 3, 1940.

Pat. 2,249,856. Air Conditioning. Patented July 22, 1941.

Pat. 2,259,780. Air Conditioning Apparatus. Patented Oct. 21, 1941.

The twenty-nine patents listed above relate to methods and apparatus for conditioning air in auditoriums, theatres, factories, dwellings, or other enclosures, which deal with economically creating and maintaining desirable conditions of temperature and humidity within such enclosures with freedom from annoying or discomforting drafts. Refrigerating apparatus is generally used with most of the units. Various arrangements of thermostatically controlled devices, including pressure operated valves, are utilized for automatically controlling operation of the units.

A brief description of the above patents will be included in the "Supplement No. 2 to Dedicated Patents" to be published about July 5, 1947.

Copies of the supplement will be mailed upon request to the Commissioner of Patents.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 10, 1947

[Vol. 599. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 494,811. Boston Manufacturing Company, Boston, Mass. Filed Jan. 16, 1946.

B-M-C

FOR WINDOW BOXES MADE OF WOOD, ALUMINUM, OR COPPER.
Claims use since Dec. 19, 1945.

Ser. No. 500,296. Extruded Plastics, Inc., Norwalk, Conn. Filed Apr. 16, 1946.

TULOX

FOR PLASTIC CONTAINERS—NAMELY, THERMOPLASTIC TUBING WITH END CLOSURES.
Claims use since Sept. 6, 1945.

Ser. No. 502,959. Fibrcan Corporation, New York, N. Y. Filed May 29, 1946.

PRIZE PERFORMANCE

FOR MATERIAL OR WASTE CANS OF PLASTIC, PAPER, OR BASE METAL.
Claims use since Mar. 15, 1946.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 514,600. Fashioncraft Cloth Products, Inc., Brooklyn, N. Y. Filed Dec. 20, 1946.

kosméo

(I ADORN)

FOR COSMETIC BAGS AND COSMETIC KITS, MADE OF LEATHER, CLOTH, OR PLASTIC AND SOLD EMPTY.
Claims use since Feb. 28, 1946.

Ser. No. 515,855. Berkeley Bags, Inc., Mauch Chunk, Pa. Filed Jan. 17, 1947.

"MILJAN"

FOR LADIES' HANDBAGS.
Claims use since Dec. 24, 1946.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 492,062. Charles F. Lawley, doing business as Chem-L-Co Industries, Pompton Lakes, N. J. Filed Nov. 23, 1945.

SKILCO

FOR SHUFFLE-BOARD ANTI-FRICTION POWDER CONSISTING OF SPHERICAL GRAINS OR PARTICLES OF SYNTHETIC RESIN.
Claims use since March 1945.

Ser. No. 493,620. Polan Industries, also doing business as Zenith Optical Company, Huntington, W. Va. Filed Dec. 20, 1945.

CEBAR

FOR GLASS POLISHING COMPOUNDS.
Claims use since Mar. 6, 1944.

Ser. No. 500,542. Ideal Industries Inc., Sycamore, Ill. Filed Apr. 19, 1946.

IDEAL

FOR ABRASIVE RESURFACER STONES.
Claims use since Oct. 15, 1946.

Ser. No. 503,183. Bernard Perfumer, Incorporated, St. Louis, Mo. Filed June 3, 1946.

Rolz

FOR HAND CLEANER.
Claims use since May 13, 1946.

Ser. No. 504,585. Charles W. Scott, Butte, Mont. Filed June 25, 1946.

S·K·S

FOR WATERPROOFING COMPOUND, FOR LEATHER GOODS, SUCH AS HARNESS, SADDLES, HUNTING BOOTS, AND WORK SHOES.
Claims use since Sept. 15, 1945.

Ser. No. 505,314. Felix Bethel Parker, Los Angeles, Calif. Filed July 9, 1946.

MASTER

FOR CHEMICALLY TREATED CLEANING CLOTHS.
Claims use since Mar. 1, 1946.

Ser. No. 505,370. Victoria, Ltd., New York, N. Y. Filed July 10, 1946.

VICE VERSA

FOR LIQUID SOAP, TOILET SOAP, AND BATH SOAP.
Claims use since on or about May 25, 1946.

Ser. No. 505,913. Patek and Co., San Francisco, Calif. Filed July 19, 1946.

CYLON

FOR WET CLEANING AID OF THE NEUTRAL DETERGENT TYPE.
Claims use since on or about Dec. 1, 1945.

Ser. No. 506,598. Henry B. Heller Corp., New York, N. Y. Filed July 31, 1946.

TETFOAM-10

FOR SPOT REMOVER.
Claims use since July 15, 1946.

Ser. No. 506,599. Henry B. Heller Corp., New York, N. Y. Filed July 31, 1946.

TETFOAM-20

FOR SOAPLESS CLEANER.
Claims use since July 15, 1946.

Ser. No. 506,781. Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris and Asnieres, France. Filed Aug. 2, 1946.

RAUCOUR

FOR TOILET SOAP.
Claims use since May 6, 1946.

Ser. No. 506,886. Miami Products and Chemical Company, Dayton, Ohio. Filed Aug. 5, 1946.

AQUAGEN

FOR CLEANING PREPARATION FOR GENERAL USE.
Claims use since May 1, 1946.

Ser. No. 507,042. Calgon, Incorporated, Pittsburgh, Pa. Filed Aug. 8, 1946.

synoca

FOR DETERGENT CHEMICAL COMPOUND FOR FELT-WASHING IN PAPER MILLS.
Claims use since Feb. 8, 1943.

CLASS 5

ADHESIVES

Ser. No. 519,111. Wurzburg Brothers, Memphis, Tenn. Filed Mar. 15, 1947.

RED GIANT

FOR GUMMED SEALING TAPE.
Claims use since Feb. 11, 1947.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 470,902. Dermetics, Inc., Seattle, Wash. Filed June 5, 1944.

TEEN LADY

FOR TOILET PREPARATIONS—NAMELY, OILS AND BLENDS OF OILS FOR CLEANSING AND PROTECTING THE SKIN, CREAMS AND LOTIONS FOR THE SKIN, STIMULANTS FOR BLOOD CIRCULATION, ASTRINGENTS, FACE POWDERS, SKIN ROUGES, LIPSTICKS AND LIP ROUGES, AND BODY DEODORANTS, PUT UP IN PACKAGES CONTAINING TWO OR MORE OF THE PREPARATIONS TO WHICH THE TRADEMARK IS APPLIED.
Claims use since Dec. 29, 1943.

Ser. No. 494,518. Parfum L'Orle, Inc., New York, N. Y. Filed Jan. 9, 1946.

GOLD FLASK

No claim is made to a flask colored gold.
FOR PERFUMES AND TOILET WATERS.
Claims use since Jan. 4, 1946.

Ser. No. 494,520. Parfum L'Orle, Inc., New York, N. Y. Filed Jan. 9, 1946.

SILVER FLASK

No claim is made to a flask colored silver.
FOR PERFUMES AND TOILET WATERS.
Claims use since Jan. 4, 1946.

Ser. No. 500,583. Standard Oil Company, Whiting, Ind., and Chicago, Ill. Filed Apr. 19, 1946.

INDOIL

FOR PETROLEUM SULFONATES, VISCOUS OIL-SOLUBLE LIQUIDS FOR USE AS EMULSIFYING AGENTS, SOLUBILIZING, WETTING AND DISPERSION AGENTS, PLASTICIZERS, RUST PREVENTIVES, DE-INKING COMPOSITIONS, FAT SPLITTING AND SOLUBLE OILS.
Claims use since Jan. 28, 1946.

Ser. No. 501,700. Wernet Dental Mfg. Co., Inc., Jersey City, N. J. Filed May 8, 1946.

I ◆ M

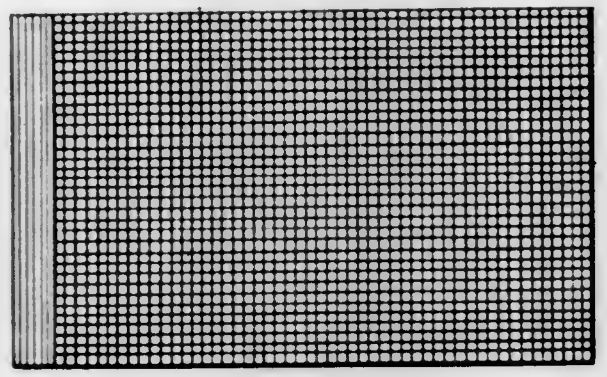
FOR OINTMENT FOR USE ON ARTIFICIAL DENTURES TO EASE THE FITTING OF SUCH DENTURES AND TO MAKE THEM COMFORTABLE TO THE WEARER.
Claims use since May 2, 1946.

Ser. No. 501,725. Endo Products Inc., New York, N. Y. Filed May 9, 1946.

ENDOFER

FOR MEDICINAL PREPARATION USED FOR HYPOCHROMIC ANEMIA.
Claims use since Apr. 1, 1946.

Ser. No. 501,828. Consolidated Cosmetics, Chicago, Ill. Filed May 10, 1946.



The trade-mark consists of a black rectangle with a red edge on one side.

FOR PERFUME, COLOGNE, FACE POWDER, BRILLIANTINE, AND LIPSTICK.
Claims use since Dec. 10, 1932.

Ser. No. 502,273. Lillian Cooper Cosmetics, Ltd., New City, N. Y. Filed May 17, 1946.

Bib 'n Tucker

FOR TALCUM POWDER, BABY OIL, FACE AND HAND CREAMS, AND HAND LOTION.
Claims use since May 1, 1946.

Ser. No. 503,527. Ohio-Apex, Inc., Nitro, W. Va. Filed June 8, 1946.

ADIPOL

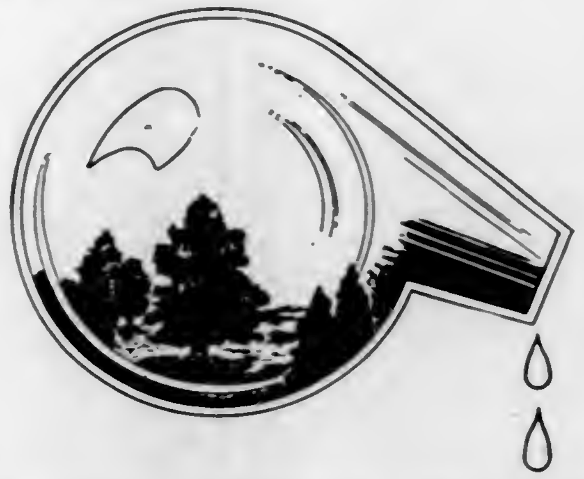
FOR BULK CHEMICAL, SPECIFICALLY DIBUTOXY ETHYL ADIPATE.
Claims use since Oct. 15, 1945.

Ser. No. 503,769. Sterling Drug Inc., Wilmington, Del. Filed June 12, 1946.

ENERGINE

FOR LIGHTER FLUID.
Claims use since July 1, 1927.

Ser. No. 504,147. Airkem, Inc., New York, N. Y. Filed June 19, 1946.



FOR LIQUID COMPOSITION USED AS AN AIR FRESHENER AND DEODORANT.
Claims use since Aug. 20, 1944.

Ser. No. 504,456. Stabelan Chemical Company, Toledo, Ohio. Filed June 22, 1946.

Stabelan

FOR STABILIZERS FOR SYNTHETIC RESINS.
Claims use since June 17, 1946.

Ser. No. 505,332. Peter Bell, doing business as Bell Drug Co., New York, N. Y., assignor to E. M. Bailey & Co. Inc., New York, N. Y. Filed July 10, 1946.

CAPRESOL

FOR PHARMACEUTICAL AND MEDICINAL PREPARATION, WHICH IS USED IN THE PROPHYLAXIS AND TREATMENT OF DANDRUFF, ITCHING SCALP, WITH ACCOMPANYING ALOPECIA AND SEBORRHOEIC DERMATITIS.
Claims use since Nov. 18, 1926.

Ser. No. 505,409. Terry T. Greil, Pittsburgh, Pa., assignor to Greil Drug and Chemical Company, Pittsburgh, Pa., a corporation of Pennsylvania. Filed July 11, 1946.

GALLANT

FOR AFTER SHAVE LOTION.
Claims use since June 17, 1946.

Ser. No. 505,592. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

BETOLIVER

FOR COMBINATION OF CRUDE LIVER EXTRACT WITH PURE CRYSTALLINE B-VITAMINS, FOUND USEFUL IN THE TREATMENT OF B-VITAMIN DEFICIENCIES WHICH ARE ACCOMPANIED BY MILD ANEMIA.
Claims use since November 1941.

Ser. No. 505,594. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

CEBILAKE

FOR TABLETS WHICH PROVIDE ALL OF THE WATER SOLUBLE VITAMINS KNOWN TO BE OF THERAPEUTIC IMPORTANCE.
Claims use since July 26, 1944.

Ser. No. 505,595. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

DECOLAKE

FOR CAPSULES AND SOLUTIONS, CONTAINING SYNTHETIC VITAMIN D FROM ACTIVATED ERGOSTEROL.
Claims use since Feb. 12, 1941.

Ser. No. 505,596. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

EMULGEN

FOR PREPARATION USED AS A DILUENT WITH PENICILLIN.
Claims use since Oct. 25, 1945.

Ser. No. 505,597. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

MENACYL

FOR TABLETS CONTAINING SALICYLATES, MENDIONE AND ASCORBIC ACID, USED IN THE TREATMENT OF ARTHRITIS, RHEUMATIC FEVER, CHRONIC INFECTIOUS DISEASES, OR ANY OTHER CONDITIONS REQUIRING LONG, CONTINUED ADMINISTRATION OF SALICYLATES.
Claims use since Oct. 17, 1945.

Ser. No. 505,598. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

PROCYSTAMINE

FOR SOLUTION USED IN THE TREATMENT OF ARTHRITIS, NEURITIS, MYALGIA AND OTHER RHEUMATOID CONDITIONS.
Claims use since February 1943.

Ser. No. 505,599. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

PYRITHIAD

FOR PREPARATION COMBINING PYRIDOXIN HYDROCHLORIDE AND THIAMINE HYDROCHLORIDE FOR USE IN THE TREATMENT OF NAUSEA AND VOMITING OF PREGNANCY, ADOLESCENT ACNE, RADIATION SICKNESS, AND CERTAIN OTHER CONDITIONS, IN TABLET FORM FOR ORAL ADMINISTRATION, AND IN SOLUTION FORM FOR INTRAMUSCULAR OR INTRAVENOUS INJECTION.
Claims use since Jan. 10, 1945.

Ser. No. 505,601. Lakeside Laboratories, Inc., Milwaukee, Wis. Filed July 13, 1946.

VITALAKE

FOR MULTI-VITAMIN CAPSULES.
Claims use since June 30, 1940.

Ser. No. 505,803. Ciba Limited, Basel, Switzerland. Filed July 18, 1946.

ANTISTINE

FOR PHARMACEUTICAL PREPARATION USED IN THE TREATMENT OF ALLERGIES.
Claims use since Apr. 15, 1946.

Ser. No. 505,806. Ciba Limited, Basel, Switzerland. Filed July 18, 1946.

ELKOSIN

FOR CHEMOTHERAPEUTIC AGENT IN THE FORM OF TABLETS, OINTMENTS, POWDER AND LIQUID USED IN TREATING BACTERIAL AND COCCAL INFECTIONS.
Claims use since September 1944.

Ser. No. 505,807. Ciba Limited, Basel, Switzerland. Filed July 18, 1946.

FENOCYLIN

FOR SYNTHETICALLY PREPARED ESTROGEN.
Claims use since Feb. 15, 1946.

Ser. No. 505,867. Tennessee Eastman Corporation, Kingsport, Tenn. Filed July 18, 1946.

TECQUINOL

FOR HYDROQUINONE.
Claims use since June 27, 1946.

Ser. No. 505,931. The United Piece Dye Works, Lodi, N. J. Filed July 19, 1946.

UNIDURE

FOR CHEMICAL PREPARATION FOR TREATING AND FINISHING FABRICS TO RENDER THE SAME CREASE RESISTANT.
Claims use since Feb. 17, 1944.

Ser. No. 506,500. Botany Worsted Mills, Passaic, N. J. Filed July 30, 1946.

Come-Hither

FOR LIPSTICKS.
Claims use since June 21, 1946.

Ser. No. 506,501. Botany Worsted Mills, Passaic, N. J. Filed July 30, 1946.

Happy Ending

FOR POWDER FOR THE TOILETTE AND LIPSTICKS.
Claims use since June 21, 1946.

Ser. No. 506,660. Flents Products Co. Inc., New York, N. Y. Filed Aug. 1, 1946.

FLENTOL

FOR ANALGESIC NASAL JELLY.
Claims use since July 31, 1932.

Ser. No. 506,918. Campana Corporation, Batavia, Ill. Filed Aug. 6, 1946.

Dreskin

FOR ASTRINGENT-IMPREGNATED PADS FOR USE IN CLEANSING AND REFRESHING THE SKIN.
Claims use since Nov. 22, 1937.

Ser. No. 506,919. Campana Corporation, Batavia, Ill. Filed Aug. 6, 1946.

Campana

FOR ASTRINGENT-IMPREGNATED PADS FOR USE IN CLEANSING AND REFRESHING THE SKIN.
Claims use since Nov. 22, 1937.

Ser. No. 506,920. Campana Corporation, Batavia, Ill. Filed Aug. 6, 1946.

Coolies

FOR ASTRINGENT-IMPREGNATED PADS FOR USE IN CLEANSING AND REFRESHING THE SKIN.
Claims use since Nov. 22, 1937.

Ser. No. 507,049. Fidelity System, Inc., Newark, N. J. Filed Aug. 8, 1946.

Fidel-X

FOR INSECTICIDE FOR EXTERMINATION OF TERMITES.
Claims use since Apr. 13, 1946.

Ser. No. 507,528. Frank H. Hicks, doing business as The Mothimune Co., Los Angeles, Calif. Filed Aug. 16, 1946.

MOTHIMUNE

FOR LIQUID USED FOR PREVENTING MOTH DAMAGE TO FURNITURE, RUGS, CARPETS, AND CLOTHING.
Claims use since May 28, 1945.

Ser. No. 507,747. Parke, Davis & Company, Detroit, Mich. Filed Aug. 21, 1946.

HEMAFOLIN

FOR VITAMIN PREPARATION.
Claims use since July 19, 1946.

Ser. No. 507,798. Calgon, Incorporated, Pittsburgh, Pa. Filed Aug. 22, 1946.

BANOX

FOR CHEMICAL COMPOUND FOR TREATING ALL TYPES OF METALS TO PREVENT CORROSION AND IMPROVE THE RETENTION OF COATINGS SUCH AS PAINTS, LACQUERS, AND ENAMELS.
Claims use since Aug. 19, 1943.

Ser. No. 507,826. Innis, Speiden & Co., New York, N. Y. Filed Aug. 22, 1946.

ISCOBROME

FOR SOIL FUMIGATION.
Claims use since June 30, 1944.

Ser. No. 507,841. Parfums Verlayne, Société à Responsabilité Limitée, Paris, France. Filed Aug. 22, 1946.

TADLA

FOR PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS.
Claims use since Mar. 2, 1945.

Ser. No. 507,901. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed Aug. 23, 1946.

OMILITE

FOR FUNGICIDES AND HORTICULTURAL SPRAY ADJUVANTS.
Claims use since July 20, 1946.

Ser. No. 507,986. Leo E. Mainville, doing business as Stemz Company, Northville, Mich. Filed Aug. 24, 1946.

STEMZ

FOR HORSE LINIMENT.
Claims use since Jan. 18, 1946.

Ser. No. 508,037. Emmett L. Fox, Brooks, W. Va. Filed Aug. 26, 1946.

NOXBLITE

FOR FUNGICIDE FOR CONTROL OF BLIGHT ON POTATOES, CUCUMBERS, AND TOMATO PLANTS.
Claims use since Aug. 15, 1946.

Ser. No. 508,114. Horton and Converse, Los Angeles, Calif. Filed Aug. 27, 1946.

LECILAN

FOR TOILET LANOLIN CREAM.
Claims use since July 29, 1946.

Ser. No. 508,203. Avon Products, Inc., New York, N. Y. Filed Aug. 29, 1946.

RETURN ENGAGEMENT

FOR PERFUME, TOILET WATER, AND COLOGNE.
Claims use since Apr. 17, 1946.

Ser. No. 508,275. D'Orsay Sales Company, New York, N. Y. Filed Aug. 30, 1946.

ALARME

FOR PERFUMES AND TOILET WATERS.
Claims use since Aug. 27, 1946.

Ser. No. 508,317. Societe Anonyme Parfumerie Violet, Paris, France. Filed Aug. 30, 1946.

MÉALYS

FOR PERFUME, TOILET WATERS, ROUGE, POWDER, BRILLIANTINE, SKIN CREAMS, AND AFTER SHAVING LOTION.
Claims use since July 15, 1892.

Ser. No. 509,128. Ashe Laboratories Limited, London and Westminster, London, England. Filed Sept. 16, 1946.

BANDBOX

FOR SHAMPOOS.
Claims use since August 1945.

Ser. No. 509,139. D. R. Collins, Limited, London, England. Filed Sept. 16, 1946.

DECISION

FOR PERFUMERY.
Claims use since Mar. 18, 1946.

Ser. No. 509,349. Kinetic Chemicals, Inc., Wilmington, Del. Filed Sept. 19, 1946.

F-13

FOR MONOCHLOROTRIFLUOROMETHANE, BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS, AND FIRE EXTINGUISHING PREPARATIONS.
Claims use since Dec. 13, 1945.

Ser. No. 509,350. Kinetic Chemicals, Inc., Wilmington, Del. Filed Sept. 19, 1946.

FREON-13

FOR MONOCHLOROTRIFLUOROMETHANE, BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS AND FIRE EXTINGUISHING PREPARATIONS.
Claims use since Dec. 13, 1945.

Ser. No. 509,351. Kinetic Chemicals, Inc., Wilmington, Del. Filed Sept. 19, 1946.

FREON-14

FOR CARBONTETRAFLUORIDE, BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS AND FIRE EXTINGUISHING PREPARATIONS.
Claims use since Feb. 13, 1946.

Ser. No. 509,365. Peerless Laboratories, Dallas, Tex. Filed Sept. 19, 1946.

MARVENE

FOR MEDICINAL PREPARATION OR VAPORIZING COMPOUND USED IN THE TREATMENT OF COLDS AND BRONCHITIS IN POULTRY AND FOR RELIEVING CONGESTION CAUSED BY DISEASES OF THE RESPIRATORY MUCOUS MEMBRANE TRACT OF BOTH CHICKS AND MATURE FOWLS.
Claims use since May 1, 1946.

Ser. No. 509,387. American Cyanamid Company, New York, N. Y. Filed Sept. 20, 1946.

HETRAZAN

FOR DIURETIC PREPARATION.
Claims use since Aug. 30, 1946.

Ser. No. 509,388. American Cyanamid Company, New York, N. Y. Filed Sept. 20, 1946.

PERFOLIN

FOR MULTIVITAMIN CAPSULE.
Claims use since Aug. 30, 1946.

Ser. No. 509,398. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Sept. 20, 1946. Under section 5b of the act of 1905 as amended in 1920.

COLGATE

FOR LIQUID HAND CREAM.
Claims use since February 1944.

Ser. No. 509,563. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Sept. 23, 1946.

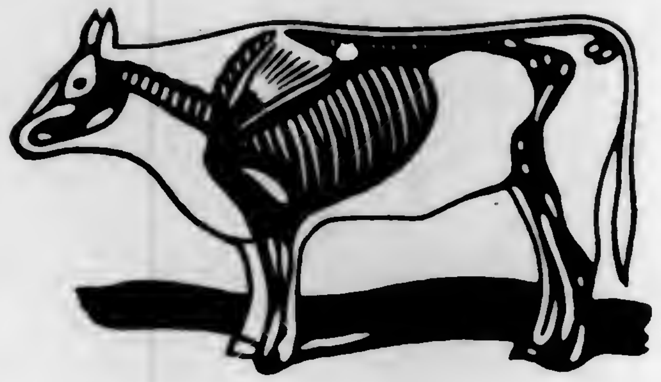
Ahoy!

FOR AFTER SHAVE LOTION.
Claims use since Sept. 4, 1946.

CLASS 10

FERTILIZERS

Ser. No. 494,415. Armour and Company, Chicago, Ill. Filed Jan. 7, 1946.



FOR COMMERCIAL FERTILIZER.
Claims use since Apr. 1, 1897.

Ser. No. 507,083. Swift & Company, Chicago, Ill. Filed Aug. 8, 1946. Under section 5b of the act of 1905 as amended in 1920.

Swift's

FOR FERTILIZERS.
Claims use since December 1903.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 493,777. International Business Machines Corporation, New York, N. Y. Filed Dec. 22, 1945.

ELECTROMATIC

FOR TYPEWRITER RIBBONS AND CARBON PAPER.
Claims use since Mar. 29, 1943, as to typewriter ribbons; and since Oct. 27, 1944, as to carbon paper.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 505,055. Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Filed July 3, 1946.

ALBALOY

FOR ELECTROPLATING ANODES.
Claims use since May 22, 1946.

CLASS 15

OILS AND GREASES

Ser. No. 489,978. National Carbon Company, Inc., New York, N. Y. Filed Oct. 15, 1945.

PRESTONE

FOR LUBRICATING OIL.
Claims use since Sept. 6, 1945.

Ser. No. 493,595. Distillation Products, Inc., Rochester, N. Y. Filed Dec. 20, 1945.

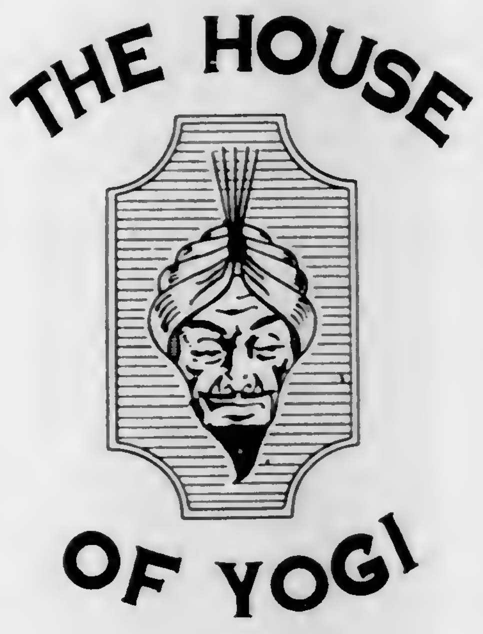
MYVANE

FOR HIGH BOILING POINT HYDROCARBON OILS AND GREASES FOR GENERAL USE IN THE INDUSTRIAL ARTS.
Claims use since Feb. 26, 1944.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 482,118. PRITCHARD & SCHWARZ, Niles, Mich. Filed Apr. 13, 1945.



The drawing is lined for shading only, and the representation of the Yogi is fanciful.

FOR TOY MAGICAL TRICK TUBES AND TOY MAGICAL CARD FRAMES.

Claims use since Mar. 28, 1945.

Ser. No. 492,753. BERNARD M. WILBER, doing business as Wilber & Son, San Francisco, Calif. Filed Dec. 5, 1945.

WILCO

FOR LIFE SAVING EQUIPMENT—NAMELY, LIFE JACKETS, LIFE PRESERVERS, LIFE PRESERVING CUSHIONS AND RING BUOYS; AND CAMPING EQUIPMENT—NAMELY, SLEEPING BAGS PROVIDED WITH A MATTRESS, AND AIR MATTRESSES USED ON THE BEACHES AND WATER.

Claims use since Dec. 1, 1944.

Ser. No. 496,060. THE AERONAUTICAL COMPANY, Kansas City, Mo. Filed Feb. 6, 1946.

DEMOBILIZATION

FOR GAME CONSISTING OF A PLAYING BOARD AND CARDS HAVING CORRESPONDING INDICIA THEREON AND ARTICLES MOVABLE OVER THE BOARD UPON TURNING OF THE CARDS INDICATING THE PLACE OF MOVEMENT FOR THE ARTICLES.

Claims use since Dec. 19, 1945.

Ser. No. 501,292. UNILINE MANUFACTURING CORPORATION, Dallas, Tex. Filed May 1, 1946.

Spinno Minno

No claim is made to the word "Minno" separate and apart from the mark as shown.

FOR FISH LURES.

Claims use since May 1944.

Ser. No. 503,143. UNIQUE ART MANUFACTURING COMPANY, INC., Newark, N. J. Filed May 31, 1946.

SKY RANGERS

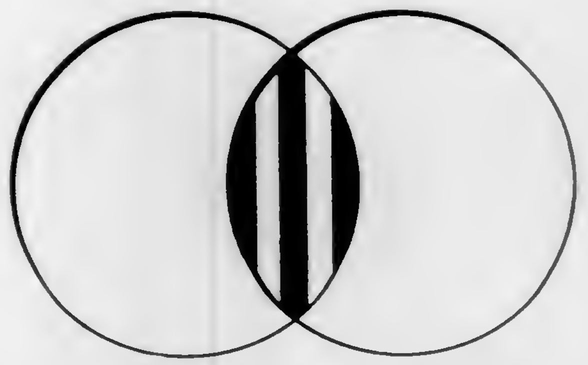
FOR TOY—NAMELY, AN AIRPLANE AND TOY BLIMP CARRIED BY A BOOM.

Claims use since April 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 500,686. MICRO-BILT, INCORPORATED, New York, N. Y. Filed Apr. 22, 1946.



FOR MINIATURE INTERNAL COMBUSTION ENGINES FOR USE WITH MODEL AIRPLANES AND MODEL VEHICLES.

Claims use since Feb. 25, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 500,411. POLARAD ELECTRONICS COMPANY, New York, N. Y. Filed Apr. 17, 1946.

Voltascope

The word feature of the mark is "Voltascope."

FOR POTENTIOMETER APPARATUS FOR USE IN CALIBRATING A CATHODE RAY OSCILLOSCOPE.

Claims use since November 1945.

Ser. No. 500,512. ALCO VALVE COMPANY, University City, Mo. Filed Apr. 19, 1946.

ALCO

FOR REFRIGERANT CONTROL VALVES AUTOMATICALLY OPERATED IN RESPONSE TO CHANGES IN PHYSICAL CONDITIONS SUCH AS, BUT NOT LIMITED TO, TEMPERATURE AND PRESSURE CONDITIONS.

Claims use since 1925 as to "Alco"; and since 1935 as shown.

Ser. No. 504,136. ROBERT D. TOBIAS, New Rochelle, N. Y. Filed June 18, 1946.

TELESCENE

FOR DEVELOPED MOTION PICTURE FILMS FOR TELEVISION TRANSMISSION.

Claims use since May 1, 1945.

Ser. No. 505,164. PRECISION SCIENTIFIC CO., Chicago, Ill. Filed July 6, 1946.

AQUATRATOR

FOR UNITARY APPARATUS FOR DETERMINING MOISTURE CONTENT OF MATERIALS, AND COMPRISING AN ELECTRONIC CONTROL BOX, BURETTES, DRYING TUBE, ELECTRODES, BEAKER, AND STIRRER.

Claims use since Apr. 2, 1946.

Ser. No. 506,105. HARCOURT-HARRIS, INC., New York, N. Y. Filed July 23, 1946.

COLORGRAPH

FOR MOTION PICTURE FILMS, PHOTOGRAPHIC TRANSPARENCIES, UNEXPOSED LIGHT SENSITIZED FILMS, NEGATIVES, POSITIVES, CARTOON-FILMS, COLORED FILMS, STENCIL-FILMS, AND PROJECTORS.

Claims use since Dec. 31, 1938.

Ser. No. 506,606. LOWELL AND GRAYSON MANUFACTURING COMPANY, Monrovia, Calif. Filed July 31, 1946.

TrimaTic

FOR THERMOSTATICALLY CONTROLLED GAS VALVES AND THERMOSTATIC VALVES EMBODYING AUTOMATIC HIGH TEMPERATURE SAFETY AND SAFETY PILOT FEATURES.

Claims use since June 1, 1946.

Ser. No. 507,873. CHARLES AUSTIN, INC., Cincinnati, Ohio. Filed Aug. 19, 1946.

ARTISCOPE

FOR OPTICAL APPARATUS USEFUL IN DRAWING AND SKETCHING.

Claims use since Jan. 1, 1945.

Ser. No. 509,055. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed Sept. 13, 1946.

BUCCANEER

FOR CAMERAS.

Claims use since July 19, 1946.

Ser. No. 509,258. FRANK G. BACK, doing business as Research and Development Laboratory, New York, N. Y. Filed Sept. 13, 1946.

"ZOOMAR"

FOR VARIFOCAL CAMERA LENSES.

Claims use since Apr. 12, 1946.

Ser. No. 509,807. THE WHITE-HAINES OPTICAL COMPANY, Columbus, Ohio. Filed Sept. 26, 1946.

NAKTIC

FOR LENSES FOR OPTICAL PURPOSES.

Claims use since May 1, 1909.

Ser. No. 510,552. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed Oct. 9, 1946.

ROAMER

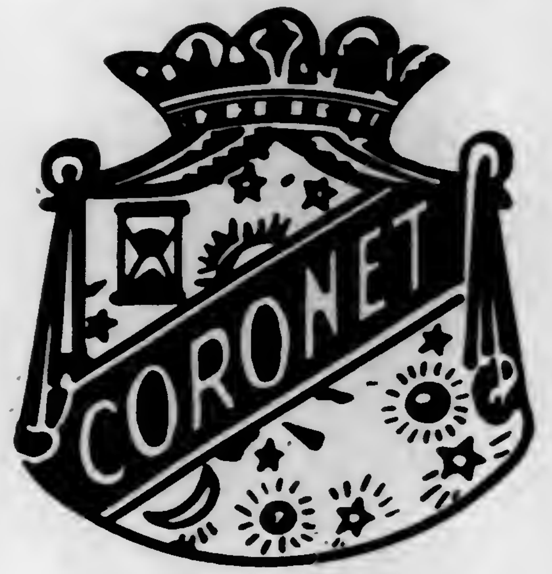
FOR CAMERAS, CAMERA LENSES, OPTICAL VIEW FINDERS, AND RANGE FINDERS.

Claims use since Aug. 9, 1946.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 508,135. MORRIS WEISBROD, doing business as M. Weisbrod, New York, N. Y. Filed Aug. 31, 1945.



FOR WATCHES.
Claims use since January 1938.

Ser. No. 511,920. ALLEMANN & GISIGER, New York, N. Y. Filed Nov. 2, 1946.

Randy

FOR WATCHES AND PARTS THEREOF.
Claims use since Oct. 28, 1946.

Ser. No. 511,921. ALLEMANN & GISIGER, New York, N. Y. Filed Nov. 2, 1946.

Ronde

FOR WATCHES AND PARTS THEREOF.
Claims use since Oct. 28, 1946.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 507,138. WALTER M. MYERS, New York, N. Y. Filed Aug. 9, 1946.

Madame
DuBarry

FOR COSTUME JEWELRY—NAMELY, SIMULATED PEARLS.
Claims use since Oct. 1, 1945.

Ser. No. 509,756. CORO, INC., New York, N. Y. Filed Sept. 26, 1946.

OUR LITTLE DARLING

FOR NECKLACES, BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME: BEADS, PINS, HAT ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES AND JEWELRY INITIALS.
Claims use since March 1946.

Ser. No. 510,267. FRANK MORROW COMPANY, INC., Providence, R. I. Filed Oct. 4, 1946.

M

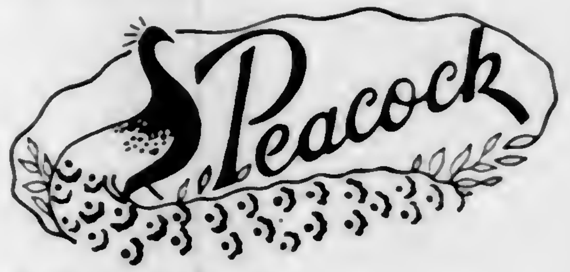
FOR JEWELRY FINDINGS—NAMELY, FINDINGS, STAMPINGS AND CASTINGS FOR JEWELRY PARTS; AND CHAINS, EARRINGS, BRACELETS, PINS, BROOCHES, CLIPS, PENDANTS, NECKLACES, COMPACTS, AND CIGARETTE CASES, ALL MADE WHOLLY OR PARTLY OF PRECIOUS METAL.
Claims use since Sept. 1, 1946.

Ser. No. 511,887. JOSEPH H. MEYER BROS., Brooklyn, N. Y. Filed Nov. 1, 1946.

Lyra

FOR NECKLACES, BRACELETS, FINGER RINGS, JEWELRY CLIPS, BROOCHES, AND EARRINGS.
Claims use since 1938.

Ser. No. 513,198. PAKULA AND COMPANY, Chicago, Ill. Filed Nov. 25, 1946.



FOR IMITATION PEARLS.
Claims use since on or about Oct. 1, 1946.

Ser. No. 513,233. JOSEPH BERLAND, New York, N. Y. Filed Nov. 26, 1946.

MIRRO-LIKE

FOR FINGER RINGS.
Claims use since Jan. 2, 1946.

Ser. No. 513,411. GRAND PRODUCTS CO., Chicago, Ill. Filed Nov. 29, 1946.

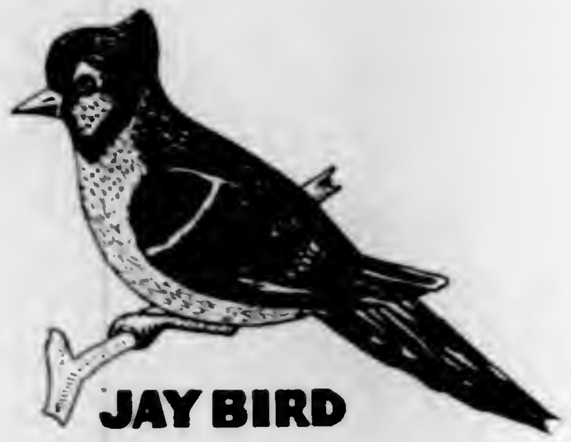
TIPTAP

FOR PERFUME DISPENSERS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME.
Claims use since Feb. 10, 1943.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 513,297. G. L. CREED & SONS, Pineville, La. Filed Nov. 27, 1946.



FOR BROOMS AND MOPS.
Claims use since Oct. 1, 1946.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 518,094. NORTH BROTHERS MANUFACTURING COMPANY, Philadelphia, Pa. Filed Feb. 25, 1947.

"LIGHTNING"

FOR ICE CREAM FREEZERS, BOTH HAND AND MECHANICALLY OPERATED AND DESIGNED FOR HOME AND COMMERCIAL USE.
Claims use since 1888.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 509,378. THAYER COMPANY, Gardner, Mass. Filed Sept. 19, 1946. Under section 5b of the act of 1905 as amended in 1920.

Thayer

Applicant is the owner of Reg. No. 423,063 registered Aug. 20, 1946, under the 10-year proviso.
FOR HIGH CHAIRS; YOUTH CHAIRS; CHAIRS AND TABLES IN SETS; CRIBS; AND PLAY YARDS.
Claims use since April 1943.

Ser. No. 510,072. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 2, 1946.

TONTINE

FOR WINDOW SHADES.
Claims use since Mar. 5, 1925.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 506,204. RONSON ART METAL WORKS, INC., Newark, N. J. Filed July 24, 1946.

ADONIS

FOR PYROPHORIC LIGHTERS INTENDED PRIMARILY FOR LIGHTING CIGARETTES, CIGARS, AND PIPES.
Claims use since June 17, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 488,984. AGENCY PAPER COMPANY, New York, N. Y. Filed Sept. 26, 1945.

"Mink"

FOR AIR MAIL WRITING PAPER, AIR MAIL ENVELOPES, PRINTING PAPER, PAPETERIES, MAIL ENVELOPES, WRITING PAPER, TABLETS, WRAPPING PAPER, AND DUPLICATING PAPERS.
Claims use since Aug. 31, 1945.

Ser. No. 507,260. THE LA BOITEAUX COMPANY, Cincinnati, Ohio. Filed Aug. 12, 1946.

LABCO

FOR SULPHATE PAPERBOARD.
Claims use since May 24, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 502,873. The Associated Press, New York, N. Y. Filed May 28, 1946.

TRUE ENOUGH

FOR SERIES OF CARTOONS.
Claims use since Mar. 11, 1946.

Ser. No. 503,033. Abbott Laboratories, North Chicago, Ill. Filed May 31, 1946.

What's New

FOR HOUSE PUBLICATION DIRECTED TO THE FIELD OF MEDICINE AND DISTRIBUTED TO PHYSICIANS, DENTISTS, AND PHARMACISTS.
Claims use since March 1929.

Ser. No. 507,349. Street & Smith Publications, Inc., New York, N. Y. Filed Aug. 13, 1946.

MORE ABOUT BEAUTY

FOR COLUMN IN A PERIODICAL PUBLISHED AT INTERVALS.
Claims use since May 20, 1946.

CLASS 39

CLOTHING

Ser. No. 494,226. Martini Frocks, New York, N. Y. Filed Jan. 3, 1946.

Sylvan Rich

The mark is a facsimile of the signature of Sylvan Rich, consent given.
FOR CLOTHING FOR WOMEN, MISSES, AND GIRLS—NAMELY, HATS, UNDERWEAR, BRASSIÈRES, PANTIES, NECKTIES, OUTER SHIRTS, BLOUSES, CORSETS, GIRDLES, GLOVES MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF, RAINCOATS, HOSIERY, EVENING GOWNS, HOSTESS GOWNS, DRESSES, SUITS FOR ORDINARY WEAR, FUR COATS, FUR TRIMMED COATS, BATHING SUITS, SUN SUITS, PLAY SUITS, BEACH, BATH, AND LOUNGING ROBES, SLACKS, SPORTCOATS, AND RIDING HABITS.
Claims use since Dec. 1, 1945.

Ser. No. 509,033. Prior Clothes, Inc., Brooklyn, N. Y. Filed Sept. 13, 1946.

PRIOR

FOR MEN'S AND BOYS' SUITS, TOPCOATS, OVERCOATS, JACKETS, AND TROUSERS.
Claims use since Aug. 1, 1946.

Ser. No. 509,212. Fisch & Company, Los Angeles, Calif. Filed Sept. 17, 1946.

SUGAR LOAF

FOR MEN'S SPORT SHIRTS AND SPORT JACKETS MADE OF GABARDINE, FLANNEL, SILK, SUEDE, DOESKIN, AND FLEECE.
Claims use since Aug. 2, 1946.

Ser. No. 510,116. A. Sagner's Son, Baltimore, Md. Filed Oct. 2, 1946.

RENGAS

FOR MEN'S SUITS, COATS, LEISURE JACKETS, TUXEDO JACKETS, SLACKS; WOMEN'S SUITS, SHIRTS, AND SLACKS.
Claims use since July 1946.

Ser. No. 510,324. The Frank H. Lee Company, Danbury, Conn. Filed Oct. 5, 1946.

Adventure

FOR MEN'S HATS.
Claims use since Aug. 20, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 496,702. Hemisphere Fabrics Corporation, New York, N. Y. Filed Feb. 16, 1946.

FLAKERETTE

FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since Jan. 2, 1946.

Ser. No. 498,518. Hemisphere Fabrics Corporation, New York, N. Y. Filed Mar. 19, 1946.

COBBLY COOK

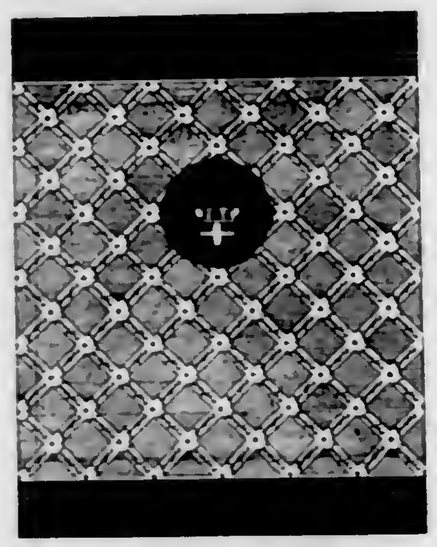
FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since Jan. 2, 1946.

Ser. No. 498,520. Hemisphere Fabrics Corporation, New York, N. Y. Filed Mar. 19, 1946.

TIDDLYWINK

FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since Jan. 2, 1946.

Ser. No. 502,900. Joseph E. Rosenblum, doing business as Joseph Manufacturing Co., New York, N. Y. Filed May 28, 1946.



The squares in the drawing are lined to indicate the color blue.
FOR CARRIAGE COVER SETS CONSISTING OF CARRIAGE COVER AND CARRIAGE COVER CASE SOLD AS A UNIT; AND CARRIAGE COVERS, INFANTS' RUGS AND BLANKETS.
Claims use since Dec. 15, 1945.

Ser. No. 504,543. Folker Fabrics Corp., New York, N. Y. Filed June 25, 1946.

BILLIONAIRE

FOR TEXTILE FABRICS IN THE PIECE, OF RAYON AND PROTEIN FIBRES.
Claims use since Nov. 15, 1945.

Ser. No. 507,860. Albert D. Smith & Co. Inc., New York, N. Y. Filed Aug. 22, 1946.

STATRON

FOR BOOK CLOTH.
Claims use since Aug. 7, 1946.

CLASS 43

THREAD AND YARN

Ser. No. 516,047. Acme Backing Corporation, Brooklyn, N. Y. Filed Jan. 21, 1947.

METLON

FOR LAMINATED METAL AND PLASTIC FLAT YARN.
Claims use since Jan. 17, 1947.

Ser. No. 516,319. A. & H. Shillman Company, Inc., Baltimore, Md. Filed Jan. 24, 1947.

Shillcraft

FOR YARNS AND THREADS FOR NEEDLEWORK.
Claims use since Oct. 15, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 498,234. Charles H. Lehman, New York, N. Y. Filed Mar. 14, 1946.

TELESONIC

FOR HEARING AIDS.
Claims use since Oct. 1, 1938.

Ser. No. 500,797. Diamond Abrasive Tool Corp., New York, N. Y. Filed Apr. 24, 1946.

DURAPOINT

FOR DIAMOND DENTAL BURRS.
Claims use since Apr. 15, 1946.

Ser. No. 518,853. Miriam E. Rabell, Waterbury, Conn. Filed Mar. 11, 1947.

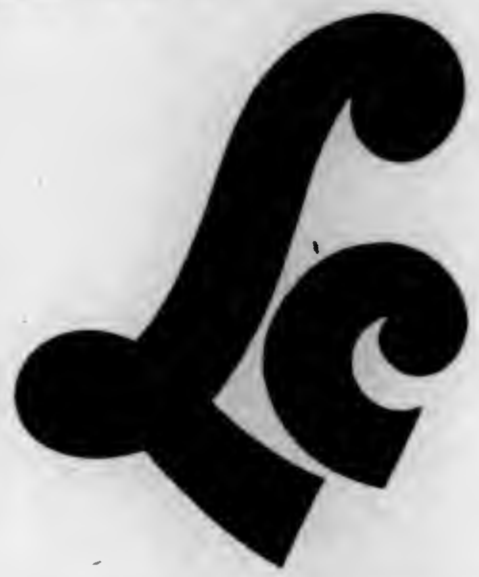
Cashay

FOR TAMPONS.
Claims use since June 1935.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 510,326. Lime Cola Company, Inc., Montgomery, Ala. Filed Oct. 5, 1946.



FOR NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS A SOFT DRINK AND SYRUP, EXTRACT, AND CONCENTRATE FOR MAKING THE SAME.

Claims use since Aug. 22, 1946.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 500,333. United Frozen Food Distributors, Incorporated, New York, N. Y. Filed Apr. 16, 1946.

Winterset

FOR QUICK FROZEN CITRUS FRUIT AND VEGETABLE JUICES FOR FOOD PURPOSES.

Claims use since Apr. 12, 1946.

Ser. No. 510,877. Caltone Corporation, Anaheim, Calif. Filed Oct. 15, 1946.

CALTONE

FOR CANNED CITRUS FRUIT JUICES FOR FOOD PURPOSES.

Claims use since May 1, 1938.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

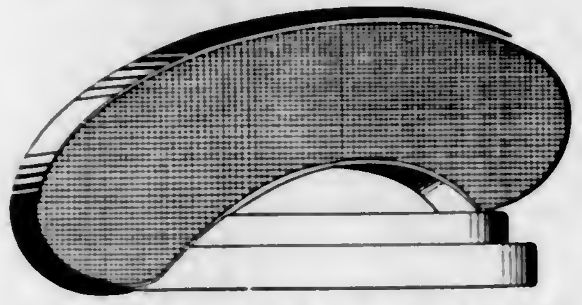
Ser. No. 497,835. American Medical Glass Company, Washington, D. C. Filed Mar. 8, 1946.

ORTHOGLAS

FOR IMPREGNATED GLASS FABRIC FOR FABRICATION OF ORTHOPEDIC APPLIANCES.

Claims use since Mar. 2, 1946.

Ser. No. 501,950. Anchor Rubber Products, Inc., Cleveland, Ohio. Filed May 13, 1946.



The drawing is cross lined to indicate black.

FOR AUTOMOBILE FLOOR MATS MADE OF RUBBER AND FELT.

Claims use since Sept. 1, 1945.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF FEBRUARY 20, 1905

JUNE 10, 1947

430,075. SAUSAGE IN BULK AND IN CASINGS. Parker House Sausage Co., Chicago, Ill.

Filed November 26, 1941. Serial No. 448,949. PUBLISHED APRIL 1, 1947. Class 46.

430,076. SAUSAGE IN BULK AND IN CASINGS. Parker House Sausage Co., Chicago, Ill.

Filed December 23, 1941. Serial No. 449,727. PUBLISHED APRIL 1, 1947. Class 46.

430,077. ABRASIVES IN THE FORM OF WHEELS, DISKS, BELTS, PENCILS, SHAFTS, AND THE LIKE FOR USE IN GRINDING, ETC. Jan Taeyaerts, doing business as Precision Diamond Tool Co., Chicago, Ill., assignor to Precision Diamond Tool Company, Chicago, Ill., a corporation of Illinois.

Filed April 19, 1943. Serial No. 460,010. PUBLISHED MARCH 4, 1947. Class 4.

430,078. HONING STONES. Micromatic Hone Corporation, Detroit, Mich.

Filed March 24, 1944. Serial No. 468,620. PUBLISHED MARCH 18, 1947. Class 4.

430,079. BARE AND COATED WELDING RODS. American Brake Shoe Company, New York, N. Y.

Filed May 24, 1944. Serial No. 470,552. PUBLISHED APRIL 1, 1947. Class 14.

430,080. MECHANICAL DRIVING SYSTEMS—NAMELY, CLUTCHES AND MECHANICAL BRAKES AND ELECTROMECHANICAL CLUTCH AND BRAKE UNITS FOR MACHINERY OTHER THAN VEHICLES. Lear Avia, Inc., Piqua, Ohio, now by change of name to Lear, Incorporated.

Filed July 17, 1944. Serial No. 472,328. PUBLISHED MARCH 4, 1947. Class 23.

430,081. COSMETICS—NAMELY, FACE CREAM AND FACE LOTION. Max Friedman, doing business as Jane Carol Cosmetics, Rockaway, N. Y.

Filed October 4, 1944. Serial No. 474,893. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,082. FOOT POWDER. Galen Laboratories, Pittsburgh, Pa.

Filed October 11, 1944. Serial No. 475,203. PUBLISHED MARCH 11, 1947. Class 6.

430,083. ELECTRONICALLY HEATED BOTTLE WARMERS IN WHICH THE ELECTRON AND ION FLOW THROUGH AN ELECTRICALLY CONDUCTIVE FLUID MEDIUM, ETC. Electrical Industries, Inc., Newark, N. J.

Filed December 13, 1944. Serial No. 477,498. PUBLISHED APRIL 1, 1947. Class 21.

430,084. PERMANENT WAVE PREPARATIONS. Gibbs & Company, Chicago, Ill.

Filed February 12, 1945. Serial No. 479,710. PUBLISHED MAY 1, 1945. Class 6.

430,085. TOOLS, NAMELY, HAND GRINDERS, GRINDING WHEEL DRESSERS, TWIST DRILLS, AUGER BITS, PIPE VISES, BENCH VISES, FILES AND RASPS, HACKSAWS, BENT AND ADJUSTABLE SOCKET WRENCHES, ETC. Oakes & Company, also doing business as Tru-Test, Chicago, Ill., assignor to Oakes & Company, Chicago, Ill., a corporation of Illinois.

Filed March 7, 1945. Serial No. 480,616. PUBLISHED FEBRUARY 25, 1947. Class 23.

430,086. EXERCISERS FOR INFANTS. Infantoy Products Co., New York, N. Y.

Filed March 13, 1945. Serial No. 480,868. PUBLISHED MAY 29, 1945. Class 22.

430,087. SOUND EQUIPMENT—NAMELY, ELECTRICAL AMPLIFIERS, INTER-COMMUNICATION SYSTEMS USING LOUD-SPEAKING TELEPHONE RECEIVERS, AND SPEAKERS AND MICROPHONES FOR SUCH SYSTEMS. David Bogen Company, Inc., New York, N. Y.

Filed April 10, 1945. Serial No. 481,938. PUBLISHED MARCH 25, 1947. Class 21.

430,088. BROACHES. Carl G. Allert, doing business as The Chicago Broach Company, Chicago, Ill.

Filed April 27, 1945. Serial No. 482,663. PUBLISHED FEBRUARY 25, 1947. Class 23.

430,089. ROUGE (CREAM OR CAKE), LIPSTICKS, CAKE MAKE-UPS, MASCARAS, PERFUMES, COLOGNES, PERSONAL USE DEODORANTS, COLD CREAMS AND NAIL ENAMELS. Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill.

Filed April 30, 1945. Serial No. 482,803. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,090. BRAKE FLUID, SHOCK ABSORBENT FLUID, PREPARATION FOR REMOVING RUST, SCALE AND LIME FORMATIONS FROM VEHICLE RADIATORS, PREPARATION ADAPTED TO BE ADDED TO MOTOR OIL AND LUBRICANTS TO PREVENT CONGEALING THEREOF AT LOW TEMPERATURES AND ADAPTED TO INCREASE THE STRENGTH OF LUBRICANTS, ETC. International Metal Polish Co., Inc., Indianapolis, Ind.

Filed May 14, 1945. Serial No. 483,322. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,091. PAINTS (READY MIXED OR LIQUID, PASTE FORM, AND DRY) PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND WOOD FILLERS FOR INDUSTRIAL PURPOSES. The H. B. Davis Company, Baltimore, Md.

Filed May 23, 1945. Serial No. 483,679. PUBLISHED MARCH 11, 1947. Class 16.

430,092. NON-FERROUS METAL ALLOY AND CASTINGS MADE THEREFROM. Doehler-Jarvis Corporation, New York, N. Y.

Filed May 24, 1945. Serial No. 483,719. PUBLISHED MARCH 25, 1947. Class 14.

430,093. ORANGE JUICE FOR FOOD PURPOSES, CANNED SARDINES, COFFEE, FRUIT JAMS, AND FRUIT JELLIES. I. F. Schnier, doing business as I. F. Schnier Company, San Francisco, Calif.

Filed May 24, 1945. Serial No. 483,743. PUBLISHED MARCH 18, 1947. Class 46.

430,094. SALAD DRESSING. G. W. Sparger, doing business as Puny Sparger, Ardmore, Okla.

Filed May 25, 1945. Serial No. 483,797. PUBLISHED MARCH 18, 1947. Class 46.

430,095. MACHINE CUTTING TOOLS AND ACCESSORIES INCLUDING SPOT FACERS, COUNTERBORES, COUNTERSINKS, HOLDERS, ETC. Wesson Company, Ferndale, Mich.

Filed May 28, 1945. Serial No. 483,881. PUBLISHED FEBRUARY 25, 1947. Class 23.

430,096. ABRASIVE BELT GRINDERS. Stuart Industries, Inc., Newton, Mass.

Filed June 15, 1945. Serial No. 484,603. PUBLISHED FEBRUARY 25, 1947. Class 23.

430,097. SCRATCH BRUSHES OF THE WHEEL TYPE, GOBLET BRUSHES, END BRUSHES, WATCH CASE BRUSHES, AND CUP BRUSHES HAVING FILLINGS OF VARIOUS MATERIALS SUCH AS STEEL WIRE, ETC. Dixon & Rippel, Inc., Kingston, N. Y.

Filed June 28, 1945. Serial No. 485,140. PUBLISHED FEBRUARY 25, 1947. Class 23.

430,098. TAPE AND RIBBON USED FOR TYING GIFT AND OTHER PACKAGES AND FOR OTHER TYING USES. Chicago Printed String Company, Chicago, Ill.

Filed July 7, 1945. Serial No. 485,524. PUBLISHED MARCH 25, 1947. Class 7.

430,099. SHIRT COLLAR SUPPORTS MADE OF CARDBOARD AND ADAPTED TO BE INSERTED BENEATH THE COLLAR OF A SHIRT TO KEEP IT UNDENTED. Caesar A. Calder, doing business as Time Savers, Montclair, N. J.

Filed July 17, 1945. Serial No. 485,901. PUBLISHED APRIL 1, 1947. Class 37.

430,100. INSECTICIDES. Enoz Chemical Company, Chicago, Ill.

Filed July 21, 1945. Serial No. 486,092. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,101. HAND PLANES. The Stanley Works, New Britain, Conn.

Filed July 24, 1945. Serial No. 486,223. PUBLISHED MARCH 25, 1947. Class 23.

430,102. HAND PLANES. The Stanley Works, New Britain, Conn.

Filed July 24, 1945. Serial No. 486,224. PUBLISHED MARCH 25, 1947. Class 23.

430,103. UNITARY PORTABLE HAND OPERATED ELECTRIC SAWS, DRILLS, SHEARS, HAMMERS, SANDERS, GRINDERS, SCREW DRIVERS, ROUTER-SHAPERS, BEADING AND FLUTING ATTACHMENTS, AND ROUTERS. The Stanley Works, New Britain, Conn.

Filed July 24, 1945. Serial No. 486,228. PUBLISHED MARCH 11, 1947. Class 21.

430,104. MODEL MINIATURE RAILROADS AND PARTS THEREOF AND ACCESSORIES THEREFOR—NAMELY, CAR BODIES, CAR COUPLERS, CAR TRUCKS, RAILS, TIES, SWITCHES, SWITCH CONTROLS, SIGNALS, STATIONS, AND TOWERS. National Model Railroad Association, Detroit, Mich.

Filed July 26, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 486,327. PUBLISHED MARCH 25, 1947. Class 22.

430,105. FLORAL VASES, HANDKERCHIEF BOXES, FACE POWDER BOXES SOLD IN TRADE EMPTY, JEWELRY BOXES, ALL MADE OF SYNTHETIC PLASTIC MATERIALS. Croasdale & de Angelis, Incorporated, Haverford Township, Delaware County, Pa.

Filed August 9, 1945. Serial No. 486,937. PUBLISHED MARCH 25, 1947. Class 2.

430,106. HAIR DRESSINGS. Standard Laboratories, Inc., New York, N. Y., assignor to Standard Laboratories, Inc., New York, N. Y., a corporation of Delaware.

Filed August 31, 1945. Serial No. 487,871. PUBLISHED MARCH 4, 1947. Class 6.

430,107. ELECTRIC WIRE OF VARIOUS ALLOYS FOR CORROSION-RESISTANT PURPOSES; FOR USE AS GETTERS; AND FOR USE IN THE CONSTRUCTION OF ELECTRONIC DEVICES, ELECTRODES, AND CORROSION-RESISTANT SCREENS FOR USE IN CHEMICAL PROCESSES. Kemet Laboratories Company, Inc., New York, N. Y.

Filed September 13, 1945. Serial No. 488,406. PUBLISHED APRIL 1, 1947. Class 21.

430,108. INK REPELLENT FLUIDS FOR LITHOGRAPHIC REPRODUCTION, LITHOGRAPHIC INKS, LITHOGRAPHIC TYPEWRITING RIBBONS, AND LITHOGRAPHIC CARBON PAPER. Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y.

Filed September 15, 1945. Serial No. 488,508. PUBLISHED FEBRUARY 25, 1947. Class 11.

430,109. HAIR SHAMPOOS, HAIR RINSES, AND HAIR WAVING LOTIONS. Raymond Laboratories, Inc., St. Paul, Minn.

Filed September 18, 1945. Serial No. 488,669. PUBLISHED SEPTEMBER 10, 1946. Class 6.

430,110. TEXTILE FABRICS OF COTTON AND RAYON SOLD BY THE YARD. Concord Chenille Co., New York, N. Y.

Filed September 20, 1945. Serial No. 488,740. PUBLISHED MARCH 18, 1947. Class 42.

430,111. POPCORN IN ITS NATURAL STATE. Premier Popcorn Association, doing business as Premier Popcorn Co., Maple Park, Ill.

Filed September 20, 1945. Serial No. 488,773. PUBLISHED MARCH 25, 1947. Class 46.

430,112. PERFUMES, TOILET WATERS, ROUGE, AND LIPSTICK. Parfums Nattier S. A., Paris, France.

Filed October 5, 1945. .Serial No. 489,482. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,113. ROTARY TYPE GARDEN TRACTORS. Harold E. Pond, doing business as Pond Garden Tractor Company, Ravenna, Ohio.

Filed October 9, 1945. Serial No. 489,676. PUBLISHED MARCH 25, 1947. Class 23.

430,114. LAWNMOWERS, LAWN SPRAYERS, SPRAY-GUNS, NON-ELECTRIC UNATTACHED, HAND OPERATED. Arkwright, Incorporated, New York, N. Y.

Filed October 10. 1945. Serial No. 489,706. PUBLISHED MARCH 25, 1947. Class 23.

430,115. PLAYGROUND EQUIPMENT—NAMELY, SWINGS, BAR GYMNASIUMS, AND SLIDES. Joseph D. Beard, doing business as Riverside Wood Products Company, Riverside, Calif.

Filed October 11, 1945. Serial No. 489,788. PUBLISHED MARCH 25, 1947. Class 22.

430,116. GYMNASIUM PADS. Dunlop Tire and Rubber Corporation, Buffalo, N. Y.

Filed October 23, 1945. Serial No. 490,364. PUBLISHED MARCH 25, 1947. Class 22.

430,117. PADS FOR OPERATING TABLES, EXAMINING TABLES, AND TREATMENT TABLES. Dunlop Tire and Rubber Corporation, Buffalo, N. Y.

Filed October 23, 1945. Serial No. 490,366. PUBLISHED MARCH 25, 1947. Class 44.

430,118. WIRE BRUSHES FORMING PARTS OF INDUSTRIAL MACHINES, BRUSHES MADE FROM WIRE FOR MOUNTING UPON SHAFTING, POWER OPERATED ROTARY BRUSHES FOR POLISHING AND CLEANING AND SECTIONS AND PARTS OF SUCH BRUSHES. The Osborn Manufacturing Company, Cleveland, Ohio.

Filed October 24, 1945. Serial No. 490,441. PUBLISHED MARCH 25, 1947. Class 23.

430,119. TOILET WATER AND PERFUME. Marie Richelieu Parfum Odesant, Inc., New York, N. Y.

Filed October 24, 1945. Serial No. 490,454. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,120. PERFUME AND COLOGNE. Janain Corporation, New York, N. Y.

Filed October 25, 1945. Serial No. 490,491. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,121. LATHE CENTERS. Sturdimatic Tool Co., Detroit, Mich.

Filed October 25, 1945. Serial No. 490,511. PUBLISHED MARCH 25, 1947. Class 23.

430,122. CANNED FISH. La Paloma, Limitada, Lisbon, Portugal.

Filed October 29, 1945. Serial No. 490,671. PUBLISHED MARCH 11, 1947. Class 46.

430,123. CANNED FISH. La Paloma, Limitada, Lisbon, Portugal.

Filed October 29, 1945. Serial No. 490,672. PUBLISHED MARCH 11, 1947. Class 46.

430,124. PIECE GOODS OF RAYON, COTTON, AND MIXTURES OF RAYON AND COTTON, RAYON AND WOOL, AND ALL COMBINATIONS THEREOF. Belvedere Fabrics Inc., New York, N. Y.

Filed November 2, 1945. Serial No. 490,916. PUBLISHED MARCH 25, 1947. Class 42.

430,125. LIQUID PREPARATION FOR CLEANING JEWELRY CONSISTING OF A SOAP COMPOUND IN A SPECIFIC TYPE OF CONTAINER, ETC. Cecil E. Eggleton, Minneapolis, Minn.

Filed November 5, 1945. Serial No. 491,071. PUBLISHED MARCH 25, 1947. Class 4.

430,126. PISTOLS FOR STUNNING ANIMALS PREPARATORY TO SLAUGHTERING. Accles & Shelvoke Limited, Aston, Birmingham, England

Filed November 6, 1945. Serial No. 491,147. PUBLISHED MARCH 4, 1947. Class 9.

430,127. CANDY. New England Confectionery Company, Cambridge, Mass.

Filed November 6, 1945. Serial No. 491,168. PUBLISHED MARCH 25, 1937. Class 46.

430,128. LETTERHEADS, CORRESPONDENCE ENVELOPES, AND BLANK FORMS—NAMELY, BLANK DUE BOOKS, AND WORKING CARDS, ETC. International Brotherhood of Electrical Workers, Washington, D. C.

Filed November 9, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 491,328. PUBLISHED MARCH 18, 1947. Class 37.

430,129. NON-PAINT CORROSION PROTECTIVE COATINGS AND CORROSION PREVENTATIVES—NAMELY, LIQUID ANTI-CORROSIVE MATERIALS WHICH MAY BE APPLIED EITHER AS FURNISHED OR UPON FURTHER DILUTION WITH KEROSENE OR LIKE HYDROCARBON SOLVENTS. UPON EVAPORATION, THEY LEAVE UPON THE METALS TO BE PROTECTED, A SOFT WAX-LIKE COATING WHICH IS TRANSPARENT SO AS TO PERMIT INSPECTION AND WHICH CAN BE WIPED OFF WITH A RAG WHEN SO DESIRED FOR FURTHER PROCESSING. Bee Chemical Company, Chicago, Ill.

Filed November 10, 1945. Serial No. 491,385. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,130. LINIMENT FOR EXTERNAL USE IN THE TREATMENT OF RHEUMATISM, MUSCULAR STRAIN, NEURALGIA, AND CHEST COLDS. Henry L. McCandless, doing business as Live Longer Medicine Company, Longview, Tex.

Filed November 19, 1945. Serial No. 491,869. PUBLISHED MARCH 11, 1947. Class 6.

430,131. AIRPLANES AND PARTS THEREOF. Northrop Aircraft, Inc., Hawthorne, Calif.

Filed November 19, 1945. Serial No. 491,877. PUBLISHED MARCH 18, 1947. Class 19.

430,132. THREADING TOOLS—NAMELY, SCREW-CUTTING TAPS AND DIES. Henry L. Hanson Company, North Attleboro, Mass.

Filed November 23, 1945. Serial No. 492,044. PUBLISHED MARCH 25, 1947. Class 23.

430,133. ELECTRIC EXTENSION CORDS. Lighter-Lite Products, Chicago, Ill.

Filed November 23, 1945. Serial No. 492,064. PUBLISHED MARCH 4, 1947. Class 21.

430,134. HAND OPERATED GREASE PUMPS. Balcrank, Inc., Cincinnati, Ohio.

Filed November 30, 1945. Serial No. 492,417. PUBLISHED MARCH 25, 1947. Class 23.

430,135. MEDICINAL PREPARATION FOR THE TREATMENT OF THE NASAL PASSAGES. Mol-La Laboratories, New York, N. Y.

Filed December 1, 1945. Serial No. 492,508. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,136. MEDICINAL PREPARATION FOR THE TREATMENT OF RECTAL INFECTIONS AND FOR USE IN PROCTOLOGICAL TREATMENTS. Mol-La Laboratories, New York, N. Y.

Filed December 1, 1945. Serial No. 492,510. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,137. DOLLS. Curran Cushion & Textile Co., Downers Grove, Ill.

Filed December 6, 1945. Serial No. 492,763. PUBLISHED MARCH 25, 1947. Class 22.

430,138. TOY METAL FURNITURE SETS CONSISTING OF A TABLE AND FOUR CHAIRS. Republic Precision Mfg. Co., Chicago, Ill.

Filed December 6, 1945. Serial No. 492,791. PUBLISHED MARCH 25, 1947. Class 22.

430,139. CONCENTRATED MOUTH WASH. Ernst Peritz, doing business as Delex Products, New York, N. Y.

Filed December 8, 1945. Serial No. 492,950. PUBLISHED JUNE 18, 1946. Class 6.

430,140. ELECTRICAL DEVICES—NAMELY, RADIO RECEIVING SETS AND PARTS; AND ELECTRIC MOTORS. Amperex Electronic Corp., New York, N. Y., assignor to Amperex Electronic Corporation, New York, N. Y., a corporation of Delaware.

Filed December 15, 1945. Serial No. 493,309. PUBLISHED MAY 28, 1946. Class 21.

430,141. TOOL HOLDERS FOR LATHE TAIL STOCKS. Eugene V. Bradley, doing business as Bradley Tool & Engineering, Toledo, Ohio.

Filed Dec. 20, 1945. Serial No. 493,589. PUBLISHED APRIL 1, 1947. Class 23.

430,142. LIQUID PLASTIC SKIN COATING ADAPTED TO PROVIDE A WATERPROOF FLEXIBLE COVERING FOR MINOR CUTS AND SCRATCHES, ABRASIONS AND MINOR INJURIES. David Rosenberg, New York, N. Y.

Filed December 21, 1945. Serial No. 493,695. PUBLISHED JUNE 25, 1946. Class 6.

430,143. MEDICATED SOAP COMPOUND FORTIFIED WITH AROMATIC OILS. Brown-Vaughan Pharmacal Co., San Francisco, Calif.

Filed December 27, 1945. Serial No. 493,914. PUBLISHED MARCH 11, 1947. Class 4.

430,144. CATTLE. Grafe-Callahan Construction Co., Los Angeles, Calif.

Filed December 29, 1945. Serial No. 494,062. PUBLISHED APRIL 1, 1947. Class 1.

430,145. AGRICULTURAL LOADING MACHINES FOR LOADING BULK GRAIN. Dannie D. Birt, doing business as Dandee Manufacturing Company, Guymon, Okla.

Filed January 4, 1946. Serial No. 494,255. PUBLISHED MARCH 11, 1947. Class 23.

430,146. TELEGRAPH ENCIPHERING AND DECIPHERING APPARATUS. The Western Union Telegraph Company, New York, N. Y.

Filed January 5, 1946. Serial No. 494,379. PUBLISHED MARCH 18, 1947. Class 21.

430,147. WRAPPING PAPER FOR FROZEN FOOD PRODUCTS. Comet Envelope & Paper Co. Inc., New York, N. Y.

Filed January 8, 1946. Serial No. 494,426. PUBLISHED APRIL 1, 1947. Class 37.

430,148. SHOE POLISH. Beau Brummel Polish Corp., Brooklyn, N. Y.

Filed January 12, 1946. Serial No. 494,650. PUBLISHED OCTOBER 8, 1946. Class 4.

430,149. WATCH STRAPS MADE OF PLASTIC MATERIAL. Ranger-Tennere, Inc., New York, N. Y.

Filed January 24, 1946. Serial No. 495,329. PUBLISHED APRIL 1, 1947. Class 40.

430,150. PAPER CUTTING KNIVES. E. R. Raetsch, doing business as E. R. Raetsch and Assoc., Chicago, Ill.

Filed January 26, 1946. Serial No. 495,504. PUBLISHED APRIL 1, 1947. Class 23.

430,151. THERMO-PLASTIC POTTING COMPOUND, IN THE NATURE OF A WAX-LIKE COMPOUND WHICH BECOMES PLASTIC UPON FURTHER TREATMENT, ETC. Ernst Bischoff Company, Inc., Ivoryton, Conn.

Filed January 29, 1946. Serial No. 495,567. PUBLISHED APRIL 1, 1947. Class 1.

430,152. CANNED DOG FOOD. Coastal Canning Corporation, Philadelphia, Pa.

Filed January 29, 1946. Serial No. 495,580. PUBLISHED JULY 16, 1946. Class 46.

430,153. TOBACCO PIPES, TOBACCO POUCHES, ORNAMENTAL TOBACCO BOXES AND JARS, TOBACCO-PIPE SCRAPERS, ASH TRAYS, CIGARETTE AND CIGAR CASES, CIGARETTE AND ORNAMENTAL CIGAR BOXES AND HUMIDIFIERS FOR TOBACCO PRODUCTS, CIGAR AND CIGARETTE HOLDERS, CIGAR PIERCERS, SMOKERS' KNIVES, AND PIPE CLEANERS. The Parker Pipe Company Limited, London, England.

Filed January 29, 1946. Serial No. 495,620. PUBLISHED APRIL 1, 1947. Class 8.

430,154. BELT CEMENT AND REDUCER THEREFOR. Holyoke Belting Company, Holyoke, Mass.

Filed January 30, 1946. Serial No. 495,780. PUBLISHED APRIL 1, 1947. Class 5.

430,155. LIQUID CLEANING PREPARATION—NAMELY, A LIQUID CLEANING PREPARATION FOR WASHING AUTOMOBILES, TRUCKS, AND SIMILAR VEHICLES. George Cantor, doing business as Security Mfg. Co., New York, N. Y.

Filed February 2, 1946. Serial No. 495,861. PUBLISHED MARCH 25, 1947. Class 4.

430,156. SLACKS FOR WOMEN. King of Slacks, Inc., New York, N. Y.

Filed February 5, 1946. Serial No. 496,032. PUBLISHED AUGUST 27, 1946. Class 39.

430,157. WINDOW CURTAINS, DRAPERIES, AND BEDSPREADS. J. London & Co., Philadelphia, Pa.

Filed February 5, 1946. Serial No. 496,034. PUBLISHED MARCH 18, 1947. Class 42.

430,158. TOY COMPRISING A FLYING PROPELLER-LIKE MEMBER AND A ROTATABLE MEMBER FOR CAUSING SAID MEMBER TO FLY. Zippo-Copter Company, Longmeadow, Mass.

Filed February 5, 1946. Serial No. 496,058. PUBLISHED MARCH 25, 1947. Class 22.

430,159. TOY COMPRISING A FLYING PROPELLER-LIKE MEMBER AND A ROTATABLE MEMBER FOR CAUSING SAID MEMBER TO FLY. Zippo-Copter Company, Longmeadow, Mass.

Filed February 5, 1946. Serial No. 496,059. PUBLISHED MARCH 25, 1947. Class 22.

430,160. PRINTING INK AND PRINTING LACQUER, PARTICULARLY FOR USE ON PLASTIC SHEETED ARTICLES, ETC. Herbert J. Heribert, New York, N. Y.

Filed February 7, 1946. Serial No. 496,139. PUBLISHED MARCH 4, 1947. Class 11.

430,161. VITAMIN TONIC. R. J. Moran Co., Boston, Mass.

Filed February 8, 1946. Serial No. 496,257. PUBLISHED JULY 2, 1946. Class 6.

430,162. HIGH-SPEED TOOLS—NAMELY, REAMERS, DRILLS, COUNTERBORES, MILLS, AND CUTTERS. Acromatic Tool Company, Detroit, Mich.

Filed February 15, 1946. Serial No. 496,592. PUBLISHED OCTOBER 1, 1946. Class 23.

430,163. PAPER FOR TOILET PURPOSES. A. P. W. Products Company, Inc., Albany, N. Y.

Filed February 16, 1946. Serial No. 496,679. PUBLISHED MARCH 25, 1947. Class 37.

430,164. STERILIZERS FOR DENTAL AND SURGICAL INSTRUMENTS, APPLIANCES, AND DRESSINGS. The Ohio Chemical & Mfg. Co., Cleveland, Ohio.

Filed February 16, 1946. Serial No. 496,727. PUBLISHED MARCH 25, 1947. Class 44.

430,165. FRESH VEGETABLES—NAMELY, TOMATOES AND PEPPERS. Emilia L. Oliver, doing business as E. L. Oliver, Nogales, Ariz.

Filed February 16, 1946. Serial No. 496,729. PUBLISHED NOVEMBER 12, 1946. Class 46.

430,166. ELEVATOR PARTS—NAMELY, LIMIT SWITCHES AND GATE SWITCHES. The Shepard Elevator Company, Cincinnati, Ohio.

Filed February 16, 1946. Serial No. 496,734. PUBLISHED APRIL 1, 1947. Class 21.

430,167. PERFUMES, COLOGNE, TOILET WATER, SACHET POWDER, BATH POWDER, TALCUM POWDER, FACE POWDER, AND HAND CREAM. Frank M. Sagona, doing business as Scharmouché Parfum Labs., Chicago and Rockford, Ill.

Filed February 18, 1946. Serial No. 496,864. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,168. PAPERBOARD PACKAGING TUBE. Sherman Paper Products Corporation, Newton, Mass.

Filed February 18, 1946. Serial No. 496,868. PUBLISHED MARCH 25, 1947. Class 2.

430,169. CHEMICAL PRODUCTS FOR DEODORIZING THE AIR AND THE ODOR OF HUMAN AND ANIMAL BODIES, ETC. Commanditaire Vennootschap Chemische Fabriek Rids, Ijmuiden, Netherlands.

Filed February 19, 1946. Serial No. 496,886. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,170. VANISHING CREAMS, COLD CREAMS, CLEANSING CREAMS, MAKE-UP CREAMS, ROUGES, LIPSTICKS, EYE-SHADOW, ETC. Commanditaire Vennootschap Chemische Fabriek Rids, Ijmuiden, Netherlands.

Filed February 19, 1946. Serial No. 496,888. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,171. HAIR ROLLS. Sitroux Inc., New York, N. Y.

Filed February 19, 1946. Serial No. 496,930. PUBLISHED APRIL 1, 1947. Class 40.

430,172. FLUOROSCOPES FOR SURGICAL AND DIAGNOSTIC USE. Edward Emanuel Sheldon, New York, N. Y.

Filed February 20, 1946. Serial No. 496,990. PUBLISHED APRIL 1, 1947. Class 44.

430,173. FINGER NAIL CLIPPERS, MANICURE SCISSORS, MANICURE FILES, MANICURE TWEEZERS, AND KITS CONTAINING COMBINATIONS OF THE FOREGOING NAMED ARTICLES. Howard Arnold Company, Chicago, Ill.

Filed February 23, 1946. Serial No. 497,097. PUBLISHED MARCH 25, 1947. Class 44.

430,174. CLEANING COMPOUNDS FOR RUGS, UPHOLSTERY, WINDOWS, WALLS, WOODWORK, AND FLOORS. Pamar Manufacturing Co., Los Angeles and Arroyo Grande, Calif.

Filed February 25, 1946. Serial No. 497,191. PUBLISHED MARCH 11, 1947. Class 4.

430,175. NON-TELESCOPIC GUN SIGHTS. Swain Nelson Company, Glenview, Ill.

Filed February 26, 1946. Serial No. 497,276. PUBLISHED FEBRUARY 25, 1947. Class 9.

430,176. LAMINATED TEXTILE FABRIC IN THE PIECE COMPOSED OF A PLASTIC RESIN FORMING THE FACE OF THE FINISHED GOODS WITH AN ELASTIC TEXTILE FABRIC BACKING USED FOR SHOE UPPERS AND HANDBAGS. Alfred Vamos Inc., New York, N. Y.

Filed February 26, 1946. Serial No. 497,280. PUBLISHED MARCH 25, 1947. Class 42.

430,177. SCREW DRIVERS HAVING PLASTIC HANDLES The Irwin Auger Bit Company, Wilmington, Ohio.

Filed February 27, 1946. Serial No. 497,312. PUBLISHED MARCH 11, 1947. Class 23.

430,178. FLEXIBLE MOISTURE PROOF COMPOSITION BAGS. Standard Cap and Seal Corporation, Chicago, Ill.

Filed February 27, 1946. Serial No. 497,345. PUBLISHED MARCH 25, 1947. Class 2.

430,179. MANICURE IMPLEMENT SETS, MANICURE SCISSORS, NAIL FILES, CUTICLE PUSHERS, CUTICLE KNIVES, TWEEZERS, AND NAIL BUFFERS. Associated Products, Inc., Chicago, Ill.

Filed February 28, 1946. Serial No. 497,362. PUBLISHED MARCH 25, 1947. Class 44.

430,180. PERFUMES. Joseph Rubenstein, Chicago, Ill.

Filed March 2, 1946. Serial No. 497,570. PUBLISHED MARCH 11, 1947. Class 6.

430,181. PERFUMES. George C. Hester, doing business as Janet Hester, Glendale, Calif.

Filed March 4, 1946. Serial No. 497,608. PUBLISHED OCTOBER 15, 1946. Class 6.

430,182. DRY COMPOUND FOR GENERAL WASHING AND CLEANING—NAMELY, FOR HOUSEHOLD APPLIANCES AND EQUIPMENT, ETC. Herbert H. McJunkin, doing business as Cle Products Company, Dallas, Tex.

Filed March 4, 1946. Serial No. 497,618. PUBLISHED MARCH 11, 1947. Class 4.

430,183. SCISSOR SHARPENING ABRASIVE STONE AND HOLDER THEREFOR. Precision Tool and Gage Co., Monterey Park, Calif.

Filed March 4, 1946. Serial No. 497,627. PUBLISHED MARCH 25, 1947. Class 4.

430,184. BOX COVERS, DISPLAY BOXES, CONTAINERS AND FRONTS FOR CONTAINERS, MADE FROM PLASTIC MATERIAL. Celanese Corporation of America, New York, N. Y.

Filed March 6, 1946. Serial No. 497,702. PUBLISHED MARCH 25, 1947. Class 2.

430,185. AUTO BABY SEATS AND HAMMOCKS. Dennis-Mitchell Industries, Philadelphia, Pa.

Filed March 6, 1946. Serial No. 497,705. PUBLISHED APRIL 1, 1947. Class 19.

430,186. CANNED PEAS. Minnesota Valley Canning Company, Le Sueur, Minn.

Filed March 6, 1946. Serial No. 497,733. PUBLISHED APRIL 1, 1947. Class 46.

430,187. CHEMICAL PREPARATION FOR REMOVING STAINS FROM FABRICS. Kroner Laboratories, New York, N. Y.

Filed March 7, 1946. Serial No. 497,802. PUBLISHED FEBRUARY 25, 1947. Class 4.

430,188. COMPOSITION FOR CLEANING MACHINERY. Socony-Vacuum Oil Company, Incorporated, New York, N. Y.

Filed March 8, 1946. Serial No. 497,884. PUBLISHED FEBRUARY 25, 1947. Class 4.

430,189. IRON AND IRON ALLOYS IN THE FORM OF BLOCKS, BARS, BILLETS, ROUGH AND SEMI-FINISHED FORGING BLANKS AND CASTINGS APPROPRIATE FOR MACHINING INTO FINISHED MOLDS AND DIES AND IRON AND IRON ALLOYS FOR MAKING MOLDS, PLASTIC FORMING MOLDS AND LIGHT METAL FORMING MOLDS. Darwin & Milner, Inc., Cleveland, Ohio.

Filed March 9, 1946. Serial No. 497,921. PUBLISHED APRIL 1, 1947. Class 14.

430,190. ELECTRICAL CONTROL APPARATUS, ELECTRICAL MACHINES, AND ELECTRICAL SUPPLIES, CONSISTING OF: CONTROLLERS FOR DYNAMO-ELECTRIC MACHINES—TO-WIT: STARTING, STOPPING, REVERSING, ETC. Cutler-Hammer, Inc., Milwaukee, Wis.

Filed March 13, 1946. Serial No. 498,118. PUBLISHED APRIL 1, 1947. Class 21.

430,191. METAL WORK HOLDERS AND METAL ROTARY TABLES USED IN CONJUNCTION WITH MILLING MACHINES AND MACHINE TOOLS. Alfred A. Troyke, doing business as Troyke Mfg. Co., Cincinnati, Ohio.

Filed March 13, 1946. Serial No. 498,184. PUBLISHED APRIL 1, 1947. Class 23.

430,192. SACHET. V. Vivaudou, Inc., Long Island City, N. Y.

Filed March 16, 1946. Serial No. 498,362. PUBLISHED APRIL 1, 1947. Class 40.

430,193. BUN ENCASED FRANKFURTER. Clark V. Blocher, San Luis Obispo, Calif.

Filed March 18, 1946. Serial No. 498,387. PUBLISHED MARCH 18, 1947. Class 46.

430,194. SCALP PREPARATION. International 3 Out of 5 Corporation, El Monte, Calif., assignor to Slav J. Youcheff, New York, N. Y.

Filed March 19, 1946. Serial No. 498,523. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,195. PRODUCT COMPOSED OF CARBON BLACK, ARTIFICIAL RESIN AND A PLASTICIZER FOR A COLORING AGENT USED BY THE PAINT, OR PROTECTIVE COATING, AND PLASTICS INDUSTRIES. Binney & Smith Company, New York, N. Y.

Filed March 20, 1946. Serial No. 498,578. PUBLISHED FEBRUARY 4, 1947. Class 16.

430,196. PLASTIC VARNISH. Grand Rapids Paint and Enamel Company, Grand Rapids, Mich.

Filed March 22, 1946. Serial No. 498,764. PUBLISHED FEBRUARY 4, 1947. Class 16.

430,197. BATH CRYSTALS, BUBBLE BATH, PERFUME, TOILET WATER, PERFUMED SACHET IN POWDER FORM, BATH OIL, ETC. Franz Koenigsberger, doing business as Kinghill Laboratories, New York, N. Y.

Filed March 22, 1946. Serial No. 498,775. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,198. SOAP. Earnest O. Gillam, doing business under the name of Gillam Soap Works, Fort Worth, Tex.

Filed March 23, 1946. Serial No. 498,834. PUBLISHED MARCH 11, 1947. Class 4.

430,199. AXMINSTER AND WILTON BROADLOOM AND BORDER RUGS, WOOL BROADLOOM RUGS, WILTON VELVET RUGS, HAIR CARPETING, FIBRE RUGS AND RUNNERS; COTTON RUGS, AND QUILTED CRIB PADS. Oakes & Company, Chicago, Ill., assignor to Oakes & Company, Chicago, Ill., a corporation of Illinois.

Filed March 25, 1946. Serial No. 498,923. PUBLISHED MARCH 18, 1947. Class 42.

430,200. HYDRAULIC PUMPS, HYDRAULIC PRESSES, HYDRAULIC CONTROL VALVES AND OTHER ACCESSORIES FOR CONTROLLING THE TRANSMISSION OF THE FLUID IN AND BETWEEN HYDRAULICALLY OPERATED DEVICES. Hydro-Power, Incorporated, Mount Gilead, Ohio.

Filed March 26, 1946. Serial No. 498,994. PUBLISHED APRIL 1, 1947. Class 23.

430,201. MEDICINAL PREPARATIONS OF THIAMIN CHLORIDE. Eli Lilly and Company, Indianapolis, Ind.

Filed March 29, 1946. Serial No. 499,248. PUBLISHED MARCH 11, 1947. Class 6.

430,202. MEDICINAL PREPARATION CONTAINING SODIUM PROPYL-METHYL-CARBINYL ALLYL BARBITURATE AND USEFUL AS HYPNOTICS. Eli Lilly and Company, Indianapolis, Ind.

Filed March 29, 1946. Serial No. 499,251. PUBLISHED MARCH 11, 1947. Class 6.

430,203. AIRPLANE TOYS. The Porter Chemical Company, Hagerstown, Md.

Filed March 29, 1946. Serial No. 499,275. PUBLISHED APRIL 1, 1947. Class 22.

430,204. .POPCORN IN ITS NATURAL STATE. Mid-West Popcorn Company, Omaha, Nebr.

Filed March 30, 1946. Serial No. 499,340. PUBLISHED MARCH 25, 1947. Class 46.

430,205. PORTABLE AUGER MACHINES FOR MOVING GRAIN. Harry S. Ausherman, Wichita, Kans.

Filed April 1, 1946. Serial No. 499,370. PUBLISHED APRIL 1, 1947. Class 23.

430,206. WETTABLE DISPERSING INSECTICIDE POWDER. St. Lawrence Chemical Company, Inc., Ogdensburg, N. Y.

Filed April 1, 1946. Serial No. 499,443. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,207. PAINT ENAMEL. Vita Var Corporation, Newark, N. J.

Filed April 4, 1946. Serial No. 499,677. PUBLISHED FEBRUARY 25, 1947. Class 16.

430,208. POTATOES IN THEIR NATURAL STATE. Holland & McChesney, Freehold, N. J.

Filed April 5, 1946. Serial No. 499,709. PUBLISHED MARCH 11, 1947. Class 46.

430,209. MULTI-VITAMIN PREPARATION FOR THERAPEUTIC USE IN THE TREATMENT OF VITAMIN DEFICIENCY AND ALLIED CONDITIONS. Hoffmann-La Roche, Inc., Nutley, N. J.

Filed April 6, 1946. Serial No. 499,784. PUBLISHED FEBRUARY 25, 1947. Class. 6.

430,210. POLYSOLUBLE LEATHER DYE. American Handicrafts Company—California, Los Angeles, Calif.

Filed April 8, 1946. Serial No. 499,814. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,211. LIQUID DESIGNED FOR RESIZING MATERIALS AFTER WASHING OR DYEING. Eaton-Clark Company, Detroit, Mich.

Filed April 8, 1946. Serial No. 499,829. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,212. PUMPS FOR DELIVERING FLUID PRESSURE, HYDRAULIC POWER TRANSMISSIONS, STEERING GEARS, WINDLASSES, HOISTS, WINCHES, CAPSTANS, GYPSIES, ETC. American Engineering Company, Philadelphia, Pa.

Filed April 9, 1946. Serial No. 499,885. PUBLISHED MARCH 25, 1947. Class 23.

430,213. LIQUID HAEMOSTATIC, ANTISEPTIC, AND DISINFECTANT. Hance Bros. & White Co., Philadelphia, Pa.

Filed April 9, 1946. Serial No. 499,894. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,214. ALUMINUM ACETATE. Applied Chemical Corporation, New York, N. Y.

Filed April 10, 1946. Serial No. 499,938. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,215. SALVE FOR TREATMENT OF SORE MUSCLES, ACHES, AND PAINS DUE TO SIMPLE NEURALGIA AND EXPOSURE, ETC. Goodwill Industry J. Q. A. Martin, Incorporated, New Bern, N. C.

Filed April 10, 1946. Serial No. 499,949. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,216. VITAMIN SUPPLEMENT FOR VETERINARY USE. Fort Dodge Laboratories, Inc., Fort Dodge, Iowa.

Filed April 11, 1946. Serial No. 499,997. PUBLISHED MARCH 11, 1947. Class 6.

430,217. INSECTICIDES. General Chemical Company, New York, N. Y.

Filed April 11, 1946. Serial No. 500,002. PUBLISHED OCTOBER 29, 1946. Class 6.

430,218. MEDICAL PREPARATION FOR USE AS A CARDIAC STIMULANT. E. Bilhuber, Inc., Orange, N. J.

Filed April 12, 1946. Serial No. 500,048. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,219. MEDICAL PREPARATION FOR USE AS A CARDIAC STIMULANT. E. Bilhuber, Inc., Orange, N. J.

Filed April 12, 1946. Serial No. 500,049. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,220. STAINLESS STEEL SHEET AND PLATE. Eastern Stainless Steel Corporation, Baltimore, Md.

Filed April 12, 1946. Serial No. 500,066. PUBLISHED FEBRUARY 25, 1947. Class 14.

430,221. CHEMICALS FOR CONTROLLING VULCANIZATION OF NATURAL OR SYNTHETIC RUBBER. The B. F. Goodrich Company, Akron, Ohio.

Filed April 12, 1946. Serial No. 500,077. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,222. AIRPLANES AND STRUCTURAL PARTS THEREOF. Piper Aircraft Corporation, Lock Haven, Pa.

Filed April 12, 1946. Serial No. 500,123. PUBLISHED MARCH 25, 1947. Class 19.

430,223. PERFUME AND TOILET WATER. Evelyn Westall, doing business as Parfums Evyan Co., New York, N. Y.

Filed April 12, 1946. Serial No. 500,154. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,224. RODENTICIDES. J. A. Stanley, doing business as Stanley Industries, Seattle, Wash.

Filed April 15, 1946. Serial No. 500,257. PUBLISHED FEBRUARY 4, 1947. Class 6.

430,225. PARASITICIDES—NAMELY, INSECTICIDES, FUNGICIDES, GERMICIDES, HERBICIDES. California Spray-Chemical Corporation, Wilmington, Del.

Filed April 16, 1946. Serial No. 500,278. PUBLISHED MARCH 11, 1947. Class 6.

430,226. PARASITICIDES—NAMELY, INSECTICIDES, FUNGICIDES, GERMICIDES, HERBICIDES. California Spray-Chemical Corporation, Wilmington, Del.

Filed April 16, 1946. Serial No. 500,280. PUBLISHED MARCH 11, 1947. Class 6.

430,227. PARASITICIDES—NAMELY, INSECTICIDES, FUNGICIDES, GERMICIDES, HERBICIDES. California Spray-Chemical Corporation, Wilmington, Del.

Filed April 16, 1946. Serial No. 500,281. PUBLISHED MARCH 11, 1947. Class 6.

430,228. PARASITICIDES—NAMELY, INSECTICIDES, FUNGICIDES, GERMICIDES, HERBICIDES. California Spray-Chemical Corporation, Wilmington, Del.

Filed April 16, 1946. Serial No. 500,282. PUBLISHED MARCH 11, 1947. Class 6.

430,229. LAUNDRY CLEANING FLUID CONSISTING OF A PREPARATION WHICH DEODORIZES, BLEACHES, AND DISINFECTS, AND HAVING THE INCIDENTAL FUNCTION OF A CLEANSER. General Products Co., Brooklyn, N. Y.

Filed April 16, 1946. Serial No. 500,300. PUBLISHED MARCH 11, 1947. Class 6.

430,230. POPCORN IN ITS NATURAL STATE. John W. Leavitt Company, Boston, Mass.

Filed April 16, 1946. Serial No. 500,312. PUBLISHED APRIL 1, 1947. Class 46.

430,231. LIVE TURKEYS SOLD FOR TABLE USE, AND TURKEYS FEATHER-DRESSED, OR DRESSED AND DRAWN. Lee H. Janssen, doing business as Michigan State Hatchery, Corunna, Mich.

Filed April 17, 1946. Serial No. 500,393. PUBLISHED MARCH 25, 1947. Class 46.

430,232. PREPARATION FOR PROTECTING, CLEANSING, BLEACHING, STIMULATING, PRESERVING, RESTORING AND BEAUTIFYING FACE, ETC. Helena Rubinstein, Inc., New York, N. Y.

Filed April 17, 1946. Serial No. 500,419. PUBLISHED MARCH 11, 1947. Class 6.

430,233. MEDICINAL PREPARATION CONTAINING KAOLIN AND BISMUTH COMPOUND USED IN TREATMENT OF SPASTIC CONDITIONS, ETC. Eli Lilly and Company, Indianapolis, Ind.

Filed April 22, 1946. Serial No. 500,675. PUBLISHED MARCH 11, 1947. Class 6.

430,234. CHEMICALLY PREPARED ICE FOR REFRIGERATION IN CONNECTION WITH FOODS. J. N. Sharma, Los Angeles, Calif.

Filed April 22, 1946. Serial No. 500,706. PUBLISHED MARCH 18, 1947. Class 1.

430,235. ELECTRICAL HEATING APPARATUS FOR MAKING YOGURT. Alexander Steinberg, New York, N. Y.

Filed April 22, 1946. Serial No. 500,710. PUBLISHED MARCH 18, 1947. Class 21.

430,236. DYES AND DYESTUFFS. Charles Scott Althouse, doing business as The Althouse Chemical Company, Reading, Pa.

Filed April 23, 1946. Serial No. 500,720. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,237. FUNGICIDES. United States Rubber Company, New York, N. Y.

Filed April 24, 1946. Serial No. 500,846. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,238. INSECTICIDES. United States Rubber Company, New York, N. Y.

Filed April 24, 1946. Serial No. 500,847. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,239. HYDRAULIC AUTOMOTIVE JACKS. Moto Products Co., Chicago, Ill.

Filed April 25, 1946. Serial No. 500,893. PUBLISHED FEBRUARY 25, 1947. Class 23.

430,240. HAIR ORNAMENTS OF NON-PRECIOUS METAL OR METALS OR NON-PRECIOUS STONES OR PLASTIC. Scherb Novelty Co., Huntington Park, Calif.

Filed April 25, 1946. Serial No. 500,905. PUBLISHED MARCH 18, 1947. Class 40.

430,241. FLOOR WAX. Windsor Wax Company, Inc., Hoboken, N. J.

Filed April 25, 1946. Serial No. 500,920. PUBLISHED MARCH 4, 1947. Class 16.

430,242. PORTABLE AND STATIONARY LUBRICATING APPARATUS OF AUTOMATIC, SEMI-AUTOMATIC AND MANUAL TYPES FOR MACHINERY AND AUTOMOTIVE EQUIPMENT, AND MACHINES FOR WASHING AIR FILTERS. Lincoln Engineering Company, St. Louis, Mo.

Filed April 26, 1946. Serial No. 500,989. PUBLISHED MARCH 25, 1947. Class 23.

430,243. PERFUMED SOAPS, LIQUID SOAPS, MEDICATED SOAPS, SOFT SOAP, AND SOFT AND HARD DISINFECTANT SOAPS. Newton, Chambers & Company Limited, near Sheffield, England.

Filed April 26, 1946. Serial No. 501,000. PUBLISHED MARCH 4, 1947. Class 4.

430,244. PICKLES, SAUERKRAUT, MUSTARD, AND VINEGAR. Dreyfus Co., Inc., New York, N. Y.

Filed April 27, 1946. Serial No. 501,056. PUBLISHED APRIL 1, 1947. Class 46.

430,245. PREPARATION FOR REMOVING GREASE FROM FLOORS, LINOLEUM, STOVES, TILES, WINDOWS, DISHES, PANS, AND AUTOMOBILES, AND FOR CLEANING THE HANDS. John R. Ford, doing business as Affiliated Engineering Products, Norfolk, Va.

Filed April 29, 1946. Serial No. 501,125. PUBLISHED MARCH 25, 1947. Class 4.

430,246. WINDOW CURTAINS. Associated Merchandising Corporation, New York, N. Y.

Filed April 30, 1946. Serial No. 501,154. PUBLISHED APRIL 1, 1947. Class 42.

430,247. DISINFECTANT AND ALSO A SUBSTANCE HAVING THE PROPERTY OF PROMOTING THE DISPERSION OF WATER IN CERTAIN SUBSTANCES, ETC. Onyx Oil & Chemical Company, Jersey City, N. J.

Filed April 30, 1946. Serial No. 501,195. PUBLISHED MARCH 11, 1947. Class 6.

430,248. LIQUID AND PASTE PAINTS, PAINT PRIMERS, PAINT ENAMELS AND LACQUERS, AND VARNISHES. Pittsburgh Plate Glass Company, Pittsburgh, Pa.

Filed April 30, 1946. Serial No. 501,197. PUBLISHED MARCH 11, 1947. Class 16.

430,249. ELECTRIC AUTOMOTIVE IGNITION, STARTING AND LIGHTING EQUIPMENT—NAMELY, MOTOR AND GENERATOR BRUSHES, ETC. The Automotive Specialty Corporation, Brooklyn, N. Y.

Filed May 3, 1946. Serial No. 501,356. PUBLISHED APRIL 1, 1947. Class 21.

430,250. PAPER BAGS. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.

Filed May 3, 1946. Serial No. 501,415. PUBLISHED MARCH 25, 1947. Class 2.

430,251. PLASTICIZERS FOR RUBBER AND OTHER ELASTOMERS OR PLASTICS. Standard Oil Company, Whiting, Ind., and Chicago, Ill.

Filed May 3, 1946. Serial No. 501,419. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,252. FOUNTAIN PEN INK, CARBON PAPER, TYPEWRITER RIBBON, AND TATTOOING INK. Consolidated Cosmetics, Chicago, Ill.

Filed May 4, 1946. Serial No. 501,439. PUBLISHED MARCH 25, 1947. Class 11.

430,253. CHEMICALS HAVING FUNGICIDAL AND PRESERVATIVE PROPERTIES FOR USE IN TEXTILES, FABRICS, AND OTHER CELLULOSIC MATERIALS. Monsanto Chemical Company, St. Louis, Mo.

Filed May 6, 1946. Serial No. 501,523. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,254. COMPOUND FOR GENERAL CLEANING OF WINDOWS, WOODWORK, RUGS, AND FOR SCOURING TEXTILES. Haas-Miller Corporation, Philadelphia, Pa.

Filed May 7, 1946. Serial No. 501,573. PUBLISHED MARCH 4, 1947. Class 4.

430,255. GAME FOR TEACHING CHILDREN TO ADD AND SUBTRACT. Milton S. Knapp, Havertown, Pa.

Filed May 7, 1946. Serial No. 501,576. PUBLISHED MARCH 25, 1947. Class 22.

430,256. ELECTRICAL INSULATING TAPE. The Okonite Company, Passaic, N. J.

Filed May 7, 1946. Serial No. 501,588. PUBLISHED MARCH 25, 1947. Class 21.

430,257. ELECTRICALLY HEATED FOOD WARMERS AND COOKERS, ELECTRICALLY HEATED BOTTLE WARMERS, ELECTRICALLY HEATED VAPOR STERILIZERS, ETC. Electrical Industries, Inc., Newark, N. J.

Filed May 8, 1946. Serial No. 501,653. PUBLISHED MARCH 18, 1947. Class 21.

430,258. DYESTUFFS. Geigy Company, Inc., New York, N. Y.

Filed May 8, 1946. Serial No. 501,658. PUBLISHED MARCH 11, 1947. Class 6.

430,259. CHEMICAL AGENT USED IN THE APPLICATION OF DYES. Geigy Company, Inc., New York, N. Y.

Filed May 8, 1946. Serial No. 501,662. PUBLISHED MARCH 11, 1947. Class 6.

430,260. INTESTINAL ASTRINGENT FOR POULTRY. Howard M. Jacobs, doing business as Jacobs Remedy Co., Louisville, Ky.

Filed May 8, 1946. Serial No. 501,668. PUBLISHED MARCH 11, 1947. Class 6.

430,261. ELECTRIC SOLDERING IRONS. Nelpin Manufacturing Co. Inc., Long Island City, N. Y.

Filed May 8, 1946. Serial No. 501,680. PUBLISHED APRIL 1, 1947. Class 21.

430,262. VARNISH. Bruning Brothers, Baltimore, Md.

Filed May 9, 1946. Serial No. 501,712. PUBLISHED MARCH 11, 1947. Class 16.

430,263. DIE-CASTING METAL AND DIE CASTINGS. Doehler-Jarvis Corporation, New York, N. Y.

Filed May 9, 1946. Serial No. 501,720. PUBLISHED FEBRUARY 25, 1947. Class 14.

430,264. LIQUID AND PASTE PAINTS, PAINT PRIMERS, PAINT ENAMELS AND LACQUERS, AND VARNISHES. Pittsburgh Plate Glass Company, Pittsburgh, Pa.

Filed May 9, 1946. Serial No. 501,774. PUBLISHED MARCH 11, 1947. Class 16.

430,265. LIQUID PREPARATION FOR GENERAL CLEANING PURPOSES. Clorox Chemical Co., Oakland, Calif.

Filed May 10, 1946. Serial No. 501,825. PUBLISHED MARCH 11, 1947. Class 4.

430,266. INSECTICIDAL SHAMPOO, FLEA AND TICK KILLER, WALL AND SCREEN SPRAY IN THE NATURE OF INSECTICIDES, AND FLEA KILLER. McCormick & Co., Incorporated, Baltimore, Md.

Filed May 13, 1946. Serial No. 501,996. PUBLISHED MARCH 11, 1947. Class 6.

430,267. INSECTICIDES. The Tanglefoot Company, Grand Rapids, Mich.

Filed May 13, 1946. Serial No. 502,035. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,268. FOLIC ACID WITH IRON FOR AN ANTI-ANEMIA PREPARATION. Lederle Laboratories, Inc., New York, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine.

Filed May 14, 1946. Serial No. 502,071. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,269. NATURAL AND CULTIVATED FOLIAGE AND PLANTS. Ariston, Incorporated, New York, N. Y.

Filed May 15, 1946. Serial No. 502,115. PUBLISHED MARCH 18, 1947. Class 1.

430,270. WHEEL DRESSER TOOL FOR REDRESSING AND TRUEING GRINDING WHEELS. Wolf and Scherer, Eatontown, N. J.

Filed May 15, 1946. Serial No. 502,175. PUBLISHED APRIL 1, 1947. Class 23.

430,271. CARBIDE TIPPED ROTARY BITS FOR DRILLING MASONRY MATERIAL, ROCK AND OTHER MATERIAL ENCOUNTERED IN MINING OR OIL WELL DRILLING. New England Carbide Tool Co., Inc., Cambridge, Mass.

Filed May 16, 1946. Serial No. 502,229. PUBLISHED APRIL 1, 1947. Class 23.

430,272. RADIO RECEIVING SETS AND RADIO PHONOGRAPH COMBINATIONS. Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J.

Filed May 17, 1946. Serial No. 502,249. PUBLISHED APRIL 1, 1947. Class 21.

430,273. ACCESSORY FOR INTERNAL COMBUSTION ENGINES FOR HUMIDIFYING, ATOMIZING AND CLEANING THE AIR OF THE FUEL MIXTURE THEREOF. American Octanator Corporation, Providence, R. I.

Filed May 17, 1946. Serial No. 502,250. PUBLISHED APRIL 1, 1947. Class 23.

430,274. ROUGE AND LIPSTICK. Henri Bendel, Inc., New York, N. Y.

Filed May 17, 1946. Serial No. 502,256. PUBLISHED MARCH 11, 1947. Class 6.

430,275. PORTABLE, HOUSE FORM ASSEMBLY, TOGETHER WITH A TRACTOR-DRAWN LIFTING AND TRANSPORT TRAILER THEREFOR. R. G. Le Tourneau, Inc., Stockton, Calif.

Filed May 17, 1946. Serial No. 502,307. PUBLISHED MARCH 11, 1947. Class 23.

430,276. RUG SHAMPOO AND UPHOLSTERY CLEANER. Harry Prince, doing business as Royal Chemical Products Co., Troy, N. Y.

Filed May 17, 1946. Serial No. 502,327. PUBLISHED MARCH 11, 1947. Class 4.

430,277. ELECTRIC ARC WELDING MACHINES, PARTS AND ACCESSORIES THEREFOR INCLUDING ELECTRODE HOLDERS. Air Reduction Sales Company, New York, N. Y.

Filed May 18, 1946. Serial No. 502,362. PUBLISHED MARCH 11, 1947. Class 21.

430,278. HAIR DRESSING. The Mennen Company, Newark, N. J.

Filed May 18, 1946. Serial No. 502,387. PUBLISHED MARCH 11, 1947. Class 6.

430,279. HAIR DRESSING. The Mennen Company, Newark, N. J.

Filed May 18, 1946. Serial No. 502,388. PUBLISHED MARCH 11, 1947. Class 6.

430,280. SEEDERS, COMBINATION SEEDERS AND CULTIVATORS, BROADCAST SEEDERS, GARDEN RAISERS AND MULCHERS, WHEEL HOES, DISC HOES, CRUST BREAKERS AND CEMENT BLOCK MAKING MACHINES. The Midland Company, South Milwaukee, Wis.

Filed May 18, 1946. Serial No. 502,392. PUBLISHED MARCH 25, 1947. Class 23.

430,281. AUTOMATIC PRESSURE-ACTUATED ELECTRIC SWITCH FOR CUTTING OUT THE IGNITION CIRCUIT OF AN AUTOMOTIVE ENGINE IN CASE OF FAILURE OF THE OIL SUPPLY. Oiltrol Company, Denver, Colo.

Filed May 18, 1946. Serial No. 502,400. PUBLISHED MARCH 18, 1947. Class 21.

430,282. SCISSORS. Perfecut Scissors Co., Oklahoma City, Okla.

Filed May 18, 1946. Serial No. 502,406. PUBLISHED APRIL 1, 1947. Class 23.

430,283. HAIR TONIC. Cosmo Longo, doing business as The Lonquin Company, Toronto, Ontario, Canada.

Filed May 20, 1946. Serial No. 502,443. PUBLISHED MARCH 11, 1947. Class 6.

430,284. FUNGICIDES, INSECTICIDE, AND GERMICIDE. Imperial Chemical Company, Shenandoah, Iowa.

Filed May 21, 1946. Serial No. 502,516. PUBLISHED MARCH 11, 1947. Class 6.

430,285. HAND CLEANER. Stapo Chemical Co., Los Angeles, Calif.

Filed May 21, 1946. Serial No. 502,541. PUBLISHED MARCH 11, 1947. Class 4.

430,286. TOOL STEEL. Columbia Tool Steel Company, Chicago Heights, Ill.

Filed May 23, 1946. Serial No. 502,621. PUBLISHED MARCH 18, 1947. Class 14.

430,287. PERFUMES, TOILET WATERS, ROUGE, LIPSTICK AND FACE CREAM. Les Parfums Verchere (Parfums Jérome) Société à Responsabilité Limitée, St. Honore, Paris, France.

Filed May 23, 1946. Serial No. 502,646. PUBLISHED MARCH 4, 1947. Class 6.

430,288. WASHING COMPOUND FOR NYLON ARTICLES OF CLOTHING. Nylosh Corporation, Boston, Mass.

Filed May 23, 1946. Serial No. 502,661. PUBLISHED MARCH 18, 1947. Class 4.

430,289. TOOL STEEL. Columbia Tool Steel Company, Chicago Heights, Ill.

Filed May 24, 1946. Serial No. 502,689. PUBLISHED MARCH 4, 1947. Class 14.

430,290. DRY CLEANING FLUIDS. E. I. du Pont de Nemours and Company, Wilmington, Del.

Filed May 24, 1946. Serial No. 502,691. PUBLISHED MARCH 18, 1947. Class 4.

430,291. BINDER TWINE MADE OF VEGETABLE HARD FIBRE. Plymouth Cordage Company, Plymouth, Mass.

Filed May 27, 1946. Serial No. 502,840. PUBLISHED MARCH 25, 1947. Class 7.

430,292. DRIED CITRUS PULP FOR USE IN STOCK FEEDS, AND DRIED MIXED STOCK FEEDS. Quality Products, Inc., La Feria, Tex.

Filed May 29, 1946. Serial No. 503,001. PUBLISHED MARCH 11, 1947. Class 46.

430,293. KAYAKS. Westin New Haven Company, Inc., Mount Carmel, Conn.

Filed May 29, 1946. Serial No. 503,028. PUBLISHED MARCH 25, 1947. Class 19.

430,294. SHOE POLISH. Bootone Polish Company, Inc., Lindenhurst, N. Y.

Filed May 31, 1946. Serial No. 503,049. PUBLISHED MARCH 18, 1947. Class 4.

430,295. ACIDS FOR INDUSTRIAL USE. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.

Filed May 31, 1946. Serial No. 503,121. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,296. CIGARS. A. Sensenbrenner Sons, Los Angeles, Calif.

Filed June 3, 1946. Serial No. 503,223. PUBLISHED APRIL 1, 1947. Class 17.

430,297. CIGARS. A. Sensenbrenner Sons, Los Angeles, Calif.

Filed June 3, 1946. Serial No. 503,224. PUBLISHED APRIL 1, 1947. Class 17.

430,298. PREPARATION FOR USE IN THE TREATMENT OF THE CIRCULATORY SYSTEM. Sharp & Dohme, Incorporated, Philadelphia, Pa.

Filed June 4, 1946. Serial No. 503,265. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,299. ELECTRICAL ILLUMINATED SIGNS. David W. Van Gieson, New York, N. Y.

Filed June 4, 1946. Serial No. 503,269. PUBLISHED MARCH 11, 1947. Class 21.

430,300. PERFUMES. Parfums Barroche, Inc., New York, N. Y.

Filed June 6, 1946. Serial No. 503,385. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,301. TRAILERS—NAMELY, HOUSE TRAILERS. The Village Green Trailer Company, Media, Pa.

Filed June 6, 1946. Serial No. 503,403. PUBLISHED MARCH 25, 1947. Class 19.

430,302. CONCRETE BLOCK MACHINES. Dempster Brothers, Incorporated, Knoxville, Tenn.

Filed June 7, 1946. Serial No. 503,436. PUBLISHED APRIL 1, 1947. Class 23.

430,303. ROTARY WING AIRCRAFT. Hoppi-Copters, Inc., Seattle, Wash.

Filed June 8, 1946. Serial No. 503,517. PUBLISHED MARCH 25, 1947. Class 19.

430,304. AUTOMOTIVE REPLACEMENT PARTS—NAMELY, AUTOMOTIVE SPARK PLUGS, AUTOMOTIVE ELECTRIC CABLES, AUTOMOTIVE WIRING ASSEMBLIES, AND AUTOMOTIVE WIRING HARNESSES. Le Riche-International, Inc., St. Louis, Mo.

Filed June 8, 1946. Serial No. 503,519. PUBLISHED APRIL 1, 1947. Class 21.

430,305. MOTOR SCOOTERS. Comet Manufacturing Co., Inc., Minneapolis, Minn.

Filed June 10, 1946. Serial No. 503,554. PUBLISHED FEBRUARY 25, 1947. Class 19.

430,306. CANNED HORSE MEAT AND GRAVY. Clement L. Hirsch, doing business as Packers Canning Company, Los Angeles, Calif., assignor to Victory Packing Co., Los Angeles, Calif., a corporation of California.

Filed June 10, 1946. Serial No. 503,571. PUBLISHED MARCH 18, 1947. Class 46.

430,307. TOOL STEEL IN BARS. Ziv Steel & Wire Co., Chicago, Ill.

Filed June 10, 1946. Serial No. 503,620. PUBLISHED APRIL 1, 1947. Class 14.

430,308. RESISTORS, FIXED RESISTORS, POWER RESISTORS, BALLAST RESISTORS, AND GLASS INSULATED RESISTORS. Clarostat Mfg. Co. Inc., Brooklyn, N. Y.

Filed June 11, 1946. Serial No. 503,634. PUBLISHED MARCH 25, 1947. Class 21.

430,309. RESISTORS, FIXED RESISTORS, POWER RESISTORS, BALLAST RESISTORS, AND CERAMIC INSULATED RESISTORS. Clarostat Mfg. Co. Inc., Brooklyn, N. Y.

Filed June 11, 1946. Serial No. 503,635. PUBLISHED MARCH 25, 1947. Class 21.

430,310. SANDWICHES COMPOSED OF BUNS WHICH ARE CORED AND CONTAIN SAUSAGE OR OTHER FILLINGS. Jesse D. McDonald, Enid, Okla.

Filed June 11, 1946. Serial No. 503,658. PUBLISHED APRIL 1, 1947. Class 46.

430,311. PERFUME AND BATH OIL. Tuvaché Co., New York, N. Y.

Filed June 11, 1946. Serial No. 503,682. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,312. PERFUME. Avon Products, Inc., New York, N. Y.

Filed June 12, 1946. Serial No. 503,696. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,313. TAPES AND BINDINGS. J. Sullivan & Sons Manufacturing Company, Philadelphia, Pa., assignor to Continental-United Industries Co., Inc., New York, N. Y., a corporation of Delaware.

Filed June 12, 1946. Serial No. 503,771. PUBLISHED MARCH 25, 1947. Class 40.

430,314. POWER OPERATED MACHINE FOR MOWING GRASS AND WEEDS. Earl L. Coddington, doing business as Coddington Machine Co.,, Middletown, Ohio.

Filed June 13, 1946. Serial No. 503,799. PUBLISHED MARCH 18, 1947. Class 23.

430,315. NAIL OIL. Imogene Shepherd, Ltd., Chicago, Ill.

Filed June 13, 1946. Serial No. 503,833. PUBLISHED MARCH 4, 1947. Class 6.

430,316. MIXTURE OF SODIUM FORMALDEHYDE SULFOXYLATE AND LEUCOTROPE W FOR WHITE DISCHARGE ON INDIGO DYED GOODS IN TEXTILE PROCESSING. Jacques Wolf & Co., Clifton, N. J.

Filed June 13, 1946. Serial No. 503,852. PUBLISHED MARCH 4, 1947. Class 6.

430,317. SULPHONATED OIL WITH SOLVENTS USED AS A SCOURING AGENT FOR SYNTHETIC AND NATURAL FIBRES AND AS A PENETRATOR AND EMULSIFIER IN TEXTILE PROCESSING. Jacques Wolf & Co., Clifton, N. J.

Filed June 13, 1946. Serial No. 503,853. PUBLISHED MARCH 4, 1947. Class 6.

430,318. LIPSTICK, NAIL POLISH, ROUGE, AND PERFUME. Primrose House, Inc., New York, N. Y.

Filed June 14, 1946. Serial No. 503,937. PUBLISHED MARCH 11, 1947. Class 6.

430,319. PERFUME. Avon Products, Inc., New York, N. Y.

Filed June 15, 1946. Serial No. 503,966. PUBLISHED MARCH 11, 1947. Class 6.

430,320. RAZOR BLADES. Frye's Cigar Company, Brockton, Mass.

Filed June 15, 1946. Serial No. 503,982. PUBLISHED MARCH 18, 1947. Class 23.

430,321. TOILET TISSUE SOLD IN PACKAGES CONTAINING FOUR ROLLS. Comfort Paper Corporation, San Francisco, Calif.

Filed June 17, 1946. Serial No. 504,036. PUBLISHED APRIL 1, 1947. Class 37.

430,322. SALAD DRESSINGS. Old Smoky Sales Co., Los Angeles, Calif.

Filed June 17, 1946. Serial No. 504,062. PUBLISHED MARCH 11, 1947. Class 46.

430,323. MULTIPLE VITAMIN PRODUCT. Seven Seas Trading Corp., Los Angeles, Calif.

Filed June 17, 1946. Serial No. 504,072. PUBLISHED MARCH 11, 1947. Class 6.

430,324. VALVE TAPPET SCREWS. Arnold F. Von Hausen, Portland, Oreg.

Filed June 17, 1946. Serial No. 504,081. PUBLISHED MARCH 18, 1947. Class 23.

430,325. NUT SHELLING MACHINES. Paul Dragon, Stockton, Calif.

Filed June 18, 1946. Serial No. 504,098. PUBLISHED MARCH 18, 1947. Class 23.

430,326. COTTON PIECE GOODS. Wm. O'Hanlon & Co. Limited, Manchester, England.

Filed June 20, 1946. Serial No. 504,284. PUBLISHED MARCH 18, 1947. Class 42.

430,327. OXFORD SHIRTING FABRICS, OF COTTON, RAYON OR MIXTURES THEREOF IN THE PIECE. Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated.

Filed June 20, 1946. Serial No. 504,296. PUBLISHED MARCH 18, 1947. Class 42.

430,328. ELECTRIC LIGHTING FIXTURES FOR WINDOW AND INTERIOR DISPLAY LIGHTING AND FOR STAGE LIGHTING. Century Lighting, Inc., New York, N. Y.

Filed June 21, 1946. Serial No. 504,326. PUBLISHED MARCH 18, 1947. Class 21.

430,329. FRESH DECIDUOUS FRUITS AND FRESH VEGETABLES. Palmer C. Mendelson Co., San Francisco, Calif.

Filed June 21, 1946. Serial No. 504,374. PUBLISHED APRIL 1, 1947. Class 46.

430,330. REBUILT ELECTRIC MOTORS. National Industrial Service Association, Inc., St. Louis, Mo.

Filed June 24, 1946. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 504,503. PUBLISHED MARCH 11, 1947. Class 21.

430,331. POWER DRIVEN MOWING MACHINE. National Metal Products Company, Kansas City, Mo.

Filed June 24, 1946. Serial No. 504,504. PUBLISHED MARCH 25, 1947. Class 23.

430,332. VITAMIN PREPARATION. Parke, Davis & Company, Detroit, Mich.

Filed June 24, 1946. Serial No. 504,508. PUBLISHED MARCH 4, 1947. Class 6.

430,333. ANTISEPTIC WETTING AND CLEANSING SOLUTION TO BE USED WITH PLASTIC CONTACT LENSES. Barnes-Hind Laboratories, San Francisco, Calif.

Filed June 25, 1946. Serial No. 504,527. PUBLISHED MARCH 11, 1947. Class 6.

430,334. PHARMACEUTICAL CHEMICAL ENTITLED 8-HYDROXY-QUINOLINE ESPECIALLY PREPARED FOR USE AS A FUNGICIDE. Darsyn Laboratories, Inc., Paterson, N. J.

Filed June 25, 1946. Serial No. 504,531. PUBLISHED MARCH 11, 1947. Class 6.

430,335. CANDY. Gilliam Candy Company, Paducah, Ky.

Filed June 25, 1946. Serial No. 504,549. PUBLISHED MARCH 11, 1947. Class 46.

430,336. FRESH CITRUS FRUITS. Indian River Producers, Inc., Fort Pierce, Fla.

Filed June 25, 1946. Serial No. 504,554. PUBLISHED MARCH 11, 1947. Class 46.

430,337. RAZOR BLADES. Pal Blade Co., Inc., New York, N. Y.

Filed June 25, 1946. Serial No. 504,576. PUBLISHED MARCH 25, 1947. Class 23.

430,338. LEG MAKE-UP. Virginia Specialty Corporation, Lynchburg, Va.

Filed June 25, 1946. Serial No. 504,590. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,339. SULFONAMIDE DRUG FOR THE PREVENTION AND TREATMENT OF BACTERIAL INFECTIONS. Winthrop Chemical Company, Inc., New York, N. Y.

Filed June 25, 1946. Serial No. 504,592. PUBLISHED MARCH 11, 1947. Class 6.

430,340. PACKAGED FROZEN POTATOES. Libby, McNeill & Libby, Chicago, Ill.

Filed June 26, 1946. Serial No. 504,622. PUBLISHED MARCH 11, 1947. Class 46.

430,341. CIGARETTES. N. V. Cigarettes Import Company (Sigaretten Import Maatschappij), The Hague, Netherlands.

Filed June 26, 1946. Serial No. 504,628. PUBLISHED MARCH 18, 1947. Class 17.

430,342. STARCH FOR LAUNDRY PURPOSES. Corn Products Refining Company, New York, N. Y.

Filed June 27, 1946. Serial No. 504,661. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,343. PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS. Charles Edouard, Parfumeur, (Société à Responsabilité Limitée), Paris, France.

Filed June 27, 1946. Serial No. 504,663. PUBLISHED MARCH 11, 1947. Class 6.

430,344. PERFUMES, TOILET WATERS, ROUGE, LIPSTICK AND FACE CREAMS. Charles Edouard, Parfumeur, (Société à Responsabilité Limitée), Paris, France.

Filed June 27, 1946. Serial No. 504,664. PUBLISHED MARCH 11, 1947. Class 6.

430,345. LIQUID PETROLEUM GASES. Socony-Vacuum Oil Company, Incorporated, New York, N. Y.

Filed June 27, 1946. Serial No. 504,707. PUBLISHED MARCH 11, 1947. Class 6.

430,346. PARASITICIDES. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.

Filed June 28, 1946. Serial No. 504,743. PUBLISHED MARCH 11, 1947. Class 6.

430,347. PARASITICIDES. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.

Filed June 28, 1946. Serial No. 504,744. PUBLISHED MARCH 11, 1947. Class 6.

430,348. PARASITICIDES. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.

Filed June 28, 1946. Serial No. 504,745. PUBLISHED MARCH 11, 1947. Class 6.

430,349. METAL DESCALING PREPARATION CONTAINING AN INHIBITED ACID. The Cowles Detergent Company, Cleveland, Ohio.

Filed June 29, 1946. Serial No. 504,823. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,350. LIQUID STARCH FOR LAUNDERING. The Hubinger Company, Keokuk, Iowa.

Filed July 1, 1946. Serial No. 504,899. PUBLISHED MARCH 11, 1947. Class 6.

430,351. FRESH GRAPES. Kay Karahadian, Los Angeles, San Francisco, and Thermal, Calif.

Filed July 1, 1946. Serial No. 504,906. PUBLISHED MARCH 11, 1947. Class 46.

430,352. COSMETICS AND TOILET PREPARATIONS—NAMELY, PERFUME, TOILET WATER, FACE POWDER, TALC POWDER, LIPSTICK, AND BRILLIANTINE. Colgate-Palmolive-Peet Company, Jersey City, N. J.

Filed July 2, 1946. Serial No. 504,965. PUBLISHED MARCH 11, 1947. Class 6.

430,353. MEDICINAL PREPARATION OF VITAMINS, MINERALS, COENZYMES AND AMINO ACIDS FOR USE AS AN ADJUVANT WITH INDICATED CARDIAC THERAPY. Pharmaceutical Organics, Inc., New York, N. Y.

Filed July 2, 1946. Serial No. 505,002. PUBLISHED MARCH 11, 1947. Class 6.

430,354. LIVE AND DRESSED POULTRY. Roesch and Rhodes, Clarence Center, N. Y.

Filed July 2, 1946. Serial No. 505,009. PUBLISHED MARCH 18, 1947. Class 46.

430,355. ANTIGENIC PREPARATION FOR USE IN THE CONNECTION WITH A RESPIRATORY AILMENT AS WHOOPING COUGH. Sharp & Dohme, Incorporated, Philadelphia, Pa.

Filed July 2, 1946. Serial No. 505,016. PUBLISHED MARCH 11, 1947. Class 6.

430,356. ANTACID PREPARATION. Abbott Laboratories, North Chicago, Ill.

Filed July 3, 1946. Serial No. 505,027. PUBLISHED MARCH 11, 1947. Class 6.

430,357. ANTACID PREPARATION. Abbott Laboratories, North Chicago, Ill.

Filed July 3, 1946. Serial No. 505,028. PUBLISHED MARCH 11, 1947. Class 6.

430,358. TALCUM POWDER, BABY OIL, AND SKIN CREAM. Avon Products, Inc., New York, N. Y.

Filed July 3, 1946. Serial No. 505,034. PUBLISHED MARCH 11, 1947. Class 6.

430,359. TALCUM POWDER, BABY OIL, AND SKIN CREAM. Avon Products, Inc., New York, N. Y.

Filed July 3, 1946. Serial No. 505,036. PUBLISHED MARCH 11, 1947. Class 6.

430,360. AROMATIC CHEMICAL PERFUME BASE. United States Rubber Company, New York, N. Y.

Filed July 3, 1946. Serial No. 505,088. PUBLISHED MARCH 11, 1947. Class 6.

430,361. VITAMIN D-IODINE COMBINATION FOR TREATMENT OF ARTHRITIS. The Farastan Company, Philadelphia, Pa.

Filed July 5, 1946. Serial No. 505,099. PUBLISHED FEBRUARY 18, 1947. Class 6.

430,362. CHEMICAL PREPARATION HAVING PRIMARY USE AS A RUBBER PLASTICIZER BUT NOT LIMITED THERETO, ETC. Golden Bear Oil Co., Los Angeles, Calif.

Filed July 5, 1946. Serial No. 505,102. PUBLISHED MARCH 11, 1947. Class 6.

430,363. RADIO AND TELEVISION RECEIVING SETS. Tradio, Inc., Deal, N. J.

Filed July 6, 1946. Serial No. 505,166. PUBLISHED APRIL 1, 1947. Class 21.

430,364. ALGIN PRODUCT FOR USE AS A HYDROPHILIC COLLOID POSSESSING CREAMING, STABILIZING, BODYING, BLOCKING, ETC. Kelco Company, San Diego, Calif.

Filed July 8, 1946. Serial No. 505,208. PUBLISHED MARCH 11, 1947. Class 6.

430,365. SERVICE UNITS CONSISTING OF METAL DRUMS AND/OR TANKS FOR STORING AND DISPENSING MOTOR FUEL AND LUBRICANTS. Agricultural Petroleum Equipment Corporation, Chicago, Ill.

Filed July 10, 1946. Serial No. 505,329. PUBLISHED APRIL 1, 1947. Class 2.

430,366. TIME SWITCHES, FLASHERS, INTERVAL TIMERS AND RELAYS, THE TIME SWITCHES, INTERVAL TIMERS AND FLASHERS BEING USED TO CLOSE AND OPEN OR "MAKE" AND "BREAK" ELECTRICAL CIRCUITS AT PREFIXED OR DEFINITELY ESTABLISHED TIMES, THE FLASHERS INCLUDING ONE CIRCUIT AND TWO CIRCUIT FLASHERS. Automatic Electric Mfg. Company, Mankato, Minn.

Filed July 10, 1946. Serial No. 505,331. PUBLISHED APRIL 1, 1947. Class 21.

430,367. DEODORANT CREAM. René Joseph Bienvenu, doing business as The Pronto Company, Alexandria, La.

Filed July 11, 1946. Serial No. 505,388. PUBLISHED MARCH 11, 1947. Class 6.

430,368. WATCH STRAPS MADE WHOLLY OF LEATHER, CLOTH, AND BASE METALS. David Guss & Company, Philadelphia, Pa.

Filed July 12, 1946. Serial No. 505,494. PUBLISHED MARCH 18, 1947. Class 40.

430,369. PREFABRICATED, PLASTICIZED BONDED PLYWOOD CABIN UNITS FOR TUG BOATS AND WORK BOATS AND BUILT-IN PLYWOOD SEATS AND BUILT-IN CABINETS FOR BOATS. Higgins, Inc., New Orleans, La.

Filed July 15, 1946. Serial No. 505,650. PUBLISHED MARCH 25, 1947. Class 19.

430,370. PLASTIC BABY FEEDING SET CONSISTING OF A DISH AND TUMBLER. Development Engineering Corporation, Newark, N. J.
Filed July 17, 1946. Serial No. 505,739. PUBLISHED APRIL 1, 1947. Class 2.

430,371. POTATO CHIPS. Chipzels, Inc., Lansdale, Pa.
Filed July 18, 1946. Serial No. 505,802. PUBLISHED MARCH 18, 1947. Class 46.

430,372. YARN. Viking Yarn Mills, Inc., Philadelphia, Pa.
Filed July 19, 1946. Serial No. 505,932. PUBLISHED APRIL 1, 1947. Class 43.

430,373. ELECTRIC STOVES AND RANGES AND ELECTRICAL OVENS. A. J. Lindemann & Hoverson Company, Milwaukee, Wis.
Filed July 20, 1946. Serial No. 505,966. PUBLISHED MARCH 25, 1947. Class 21.

430,374. CANNED FRUIT JUICES FOR FOOD PURPOSES—NAMELY, A BLENDED ORANGE, APRICOT, AND LEMON JUICE. California Canners Associates, Los Angeles, Calif.
Filed July 22, 1946. Serial No. 506,007. PUBLISHED MARCH 25, 1947. Class 46.

430,375. FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH VEGETABLES, AND DRIED FRUITS. Felix G. Cohen, doing business as The Felix Cohen Co., Oakland, Calif.
Filed July 22, 1946. Serial No. 506,009. PUBLISHED APRIL 1, 1947. Class 46.

430,376. APPARATUS FOR THE ELECTRICAL TREATMENT OF WATER TO PREVENT OR DIMINISH THE EFFECTS OF THE HARDNESS THEREOF, WHICH APPARATUS IS USED IN CONNECTION WITH BOILERS, TANKS, COMPRESSORS, EVAPORATORS, CONDENSERS AND OTHER VESSELS, MACHINES, AND APPARATUSES USING WATER. Electronic Water Treatment Corp., New York, N. Y., and Jersey City, N. J.
Filed July 25, 1946. Serial No. 506,235. PUBLISHED MARCH 25, 1947. Class 21.

430,377. CHEMICAL PRODUCTS FOR USE AS RODENTICIDES AND INSECTIVORICIDES. Monsanto Chemical Company, St. Louis, Mo.
Filed July 25, 1946. Serial No. 506,252. PUBLISHED MARCH 11, 1947. Class 6.

430,378. PILE LOTION. Edith M. Campbell, Paris, Ky.
Filed July 26, 1946. Serial No. 506,292. PUBLISHED MARCH 11, 1947. Class 6.

430,379. LIPSTICKS. Botany Worsted Mills, Passaic, N. J.
Filed July 30, 1946. Serial No. 506,502. PUBLISHED MARCH 11, 1947. Class 6.

430,380. BOUILLON POWDER AND FOOD FLAVORING MATERIAL COMPRISING HYDROLYZED PLANT PROTEINS AND SALT. Anheuser-Busch, Inc., St. Louis, Mo.
Filed August 1, 1946. Serial No. 506,632. PUBLISHED MARCH 25, 1947. Class 46.

430,381. INDUSTRIAL, STORE, AND HOUSEHOLD LIGHTING FIXTURES. Albert Kurtzon, doing business as Al-K-Co Manufacturers, Chicago, Ill., assignor to Alkco Manufacturing Co., Chicago, Ill., a corporation of Illinois.
Filed August 1, 1946. Serial No. 506,673. PUBLISHED MARCH 11, 1947. Class 21.

430,382. CANDY. M. J. Holloway & Co., Chicago, Ill.
Filed August 2, 1946. Serial No. 506,753. PUBLISHED APRIL 1, 1947. Class 46.

430,383. GOLF CLUBS. Tracy S. Park, Houston, Tex.
Filed August 2, 1946. Serial No. 506,765. PUBLISHED MARCH 25, 1947. Class 22.

430,384. ELECTRICALLY OPERATED HAIR BRUSHES. Hershey Mfg. Co., Chicago, Ill.
Filed August 5, 1946. Serial No. 506,871. PUBLISHED MARCH 11, 1947. Class 21.

430,385. ELECTRIC STEAM IRONS. Hope Products, Inc., St. Louis, Mo.
Filed August 9, 1946. Serial No. 507,128. PUBLISHED MARCH 11, 1947. Class 21.

430,386. RADIO RECEIVING SETS. Algene Mfg. Co., New York, N. Y.
Filed August 10, 1946. Serial No. 507,180. PUBLISHED APRIL 1, 1947. Class 21.

430,387. ELECTRIC SPACE HEATER. W. Wesley Hicks, San Francisco, Calif.
Filed August 10, 1946. Serial No. 507,187. PUBLISHED MARCH 11, 1947. Class 21.

430,388. VISIBLE AND AUDIBLE ELECTRIC SIGNALS, INDICATORS AND ALARMS, FOR HIGHWAYS, VEHICLES, TRAFFIC AND IN PLANTS AND ESTABLISHMENTS FOR CALLING, ALARM AND INFORMATION PURPOSES, ASSEMBLIES THEREOF AND PARTS THEREFOR. Faraday Electric Corporation, Adrian, Mich., and Boston, Mass.
Filed August 14, 1946. Serial No. 507,380. PUBLISHED APRIL 1, 1947. Class 21.

430,389. VISIBLE AND AUDIBLE ELECTRIC SIGNALS, INDICATORS AND ALARMS, FOR HIGHWAYS, VEHICLES, TRAFFIC AND IN PLANTS AND ESTABLISHMENTS FOR CALLING, ALARM AND INFORMATION PURPOSES, ASSEMBLIES THEREOF AND PARTS THEREFOR. Faraday Electric Corporation, Adrian, Mich., and Boston, Mass.
Filed August 14, 1946. Serial No. 507,381. PUBLISHED APRIL 1, 1947. Class 21.

430,390. VISIBLE AND AUDIBLE ELECTRIC SIGNALS, INDICATORS AND ALARMS, FOR HIGHWAYS, VEHICLES, TRAFFIC AND IN PLANTS AND ESTABLISHMENTS FOR CALLING, ALARM AND INFORMATION PURPOSES, ASSEMBLIES THEREOF AND PARTS THEREFOR. Faraday Electric Corporation, Adrian, Mich., and Boston, Mass.
Filed August 14, 1946. Serial No. 507,382. PUBLISHED APRIL 1, 1947. Class 21.

430,391. CATHODE RAY TUBES. Lectrovision Inc., New Rochelle, N. Y.
Filed August 14, 1946. Serial No. 507,407. PUBLISHED MARCH 11, 1947. Class 21.

430,392. ELECTRICALLY HEATED WOOLEN BLANKETS. The Woolectra Blanket Mfg. Company, Piqua, Ohio.
Filed August 14, 1946. Serial No. 507,449. PUBLISHED MARCH 11, 1947. Class 21.

430,393. BARE AND INSULATED ELECTRIC WIRES AND CABLES. General Cable Corporation, New York, N. Y.
Filed August 15, 1946. Serial No. 507,469. PUBLISHED MARCH 11, 1947. Class 21.

430,394. ELECTRIC SPACE HEATERS. The Firan Co., Santa Monica, Calif.
Filed August 16, 1946. Serial No. 507,524. PUBLISHED MARCH 18, 1947. Class 21.

430,395. ELECTRICAL HOUSEHOLD APPLIANCES—NAMELY, ELECTRIC FLAT IRONS, ELECTRIC TABLE STOVES OR HOT PLATES. Dominion Electrical Manufacturing, Inc., Mansfield, Ohio.
Filed August 21, 1946. Serial No. 507,716. PUBLISHED APRIL 1, 1947. Class 21.

430,396. SYNTHETIC RESINOUS MATERIALS AND SOLUTIONS THEREOF SUITABLE FOR BONDING WOOD SURFACES TOGETHER. The Resinous Products & Chemical Company, Philadelphia, Pa.
Filed August 22, 1946. Serial No. 507,847. PUBLISHED APRIL 1, 1947. Class 5.

430,397. ELECTRIC PHONOGRAPHS AND REPRODUCERS. Franklin Photographic Industries, Chicago, Ill., assignor to Franklin Photographic Industries, Inc., Chicago, Ill., a corporation of Illinois.
Filed August 28, 1946. Serial No. 508,153. PUBLISHED APRIL 1, 1947. Class 21.

430,398. CONVERTER USED FOR TRANSFORMING ELECTRICAL CURRENTS. Grover Photo Products, Los Angeles, Calif.
Filed August 30, 1946. Serial No. 508,284. PUBLISHED APRIL 1, 1947. Class 21.

430,399. ELECTRIC TABLE, FLOOR, WALL, AND OVERHEAD LAMPS AND FIXTURES, AND PARTS THEREOF INCLUDING LAMP SHADES. Dunhill Mfg. & Distributors Corp., New York, N. Y.
Filed August 31, 1946. Serial No. 508,371. PUBLISHED APRIL 1, 1947. Class 21.

430,400. WIRE ROPE AND WIRE ROPE CABLES FOR USE IN THE LUMBER INDUSTRY. Union Wire Rope Corporation, Kansas City, Mo.
Filed September 3, 1946. Serial No. 508,452. PUBLISHED MARCH 18, 1947. Class 7.

430,401. WIRE ROPE AND WIRE ROPE CABLES FOR USE IN THE MINING INDUSTRY. Union Wire Rope Corporation, Kansas City, Mo.
Filed September 3, 1946. Serial No. 508,453. PUBLISHED MARCH 18, 1947. Class 7.

430,402. ELECTRIC TABLE LAMPS. Soundbrite Corporation, Holyoke, Mass.
Filed September 4, 1946. Serial No. 508,496. PUBLISHED APRIL 1, 1947. Class 21.

430,403. LADIES' HANDBAGS. The Codette Manufacturing Company, Baltimore, Md.
Filed September 6, 1946. Serial No. 508,575. PUBLISHED APRIL 1, 1947. Class 3.

430,404. YARN. Spinnerin Yarn Co., Inc., New York, N. Y.
Filed September 7, 1946. Serial No. 508,674. PUBLISHED MARCH 18, 1947. Class 43.

430,405. BUTTONS. The Rayon Company, Tullahoma, Tenn.
Filed September 10, 1946. Serial No. 508,821. PUBLISHED MARCH 25, 1947. Class 40.

430,406. FIBRE-BLENDED YARN OF WOOL AND COTTON, RAW OR DYED. Trüb & Co., Uster, Zurich, Switzerland.
Filed September 12, 1946. Serial No. 508,941. PUBLISHED MARCH 18, 1947. Class 43.

430,407. INSULATED ELECTRICAL WIRE. Diamond Wire & Cable Co., Chicago Heights, Ill.
Filed September 13, 1946. Serial No. 508,982. PUBLISHED APRIL 1, 1947. Class 21.

430,408. CIDER VINEGAR, WHITE VINEGAR, JELLIES, AND MARMALADES. Duffy-Mott Company, Inc., New York, N. Y.
Filed September 14, 1946. Serial No. 509,080. PUBLISHED MARCH 18, 1947. Class 46.

430,409. DISTRIBUTOR CONTACT POINTS, DISTRIBUTOR ROTORS, DISTRIBUTOR LEADS, DISTRIBUTOR CONDENSERS, IGNITION COILS, STARTER SWITCHES, IGNITION SWITCHES, GENERATOR CUTOUTS, STARTER AND GENERATOR BRUSHES, STARTER AND GENERATOR BUSHINGS, VOLTAGE REGULATORS, AND IGNITION CABLE SETS FOR INTERNAL COMBUSTION ENGINES. National Ignition Manufacturing Company, Inc., New York, N. Y.
Filed September 14, 1946. Serial No. 509,097. PUBLISHED APRIL 1, 1947. Class 21.

430,410. TRIFLUOROMETHANE OR FLUOROFORM, BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS, AND FIRE EXTINGUISHING PREPARATIONS. Kinetic Chemicals, Inc., Wilmington, Del.
Filed September 19, 1946. Serial No. 509,346. PUBLISHED MARCH 4, 1947. Class 6.

430,411. CARBONTETRAFLUORIDE BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS, AND FIRE EXTINGUISHING PREPARATIONS. Kinetic Chemicals, Inc., Wilmington, Del.
Filed September 19, 1946. Serial No. 509,347. PUBLISHED MARCH 4, 1947. Class 6.

430,412. TRIFLUOROMETHANE OR FLUOROFORM, BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS, AND FIRE EXTINGUISHING PREPARATIONS. Kinetic Chemicals, Inc., Wilmington, Del.
Filed September 19, 1946. Serial No. 509,348. PUBLISHED MARCH 4, 1947. Class 6.

430,413. LADIES' HANDBAGS. Gaybrand Bags Inc., New York, N. Y.
Filed September 25, 1946. Serial No. 509,702. PUBLISHED MARCH 18, 1947. Class 3.

430,414. ANESTHETICS, CHEMOTHERAPEUTIC AGENTS, HYPNOTICS, SEDATIVES, AND STIMULANTS—NAMELY, BENZOCAINE SOLUTION, ETC. Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y.
Filed September 27, 1946. Serial No. 509,868. PUBLISHED MARCH 11, 1947. Class 6.

430,415. WRAPPING STRING OR TAPE USED AS TYING MATERIAL. Chicago Printed String Company, Chicago, Ill.
Filed September 28, 1946. Serial No. 509,920. PUBLISHED MARCH 25, 1947. Class 7.

430,416. TWINE AND CORDAGE MADE OF COTTON, HEMP, FLAX, JUTE, SISAL, MANILA, TINSEL, LINEN, AND COMBINATIONS THEREOF. Empire Twine & Yarn Co. Inc., New York, N. Y.
Filed October 1, 1946. Serial No. 510,019. PUBLISHED APRIL 1, 1947. Class 7.

430,417. YARNS. Bernhard Ulmann Co. Inc., New York, N. Y.
Filed October 5, 1946. Serial No. 510,298. PUBLISHED APRIL 1, 1947. Class 43.

430,418. YARN (FOR WEAVING) WHOLLY OF COTTON. Glazebrook, Steel & Company Limited, Manchester, England.
Filed October 14, 1946. Serial No. 510,836. PUBLISHED APRIL 1, 1947. Class 43.

430,419. FISH LURES. Shurebite Inc., Bronson, Mich.
Filed October 21, 1946. Serial No. 511,248. PUBLISHED MARCH 25, 1947. Class 22.

430,420. HAND SLEDS. The Kalamazoo Sled Company, Kalamazoo, Mich.
Filed October 24, 1946. Serial No. 511,395. PUBLISHED MARCH 25, 1947. Class 22.

430,421. HAND SLEDS. The Kalamazoo Sled Company, Kalamazoo, Mich.
Filed October 24, 1946. Serial No. 511,396. PUBLISHED MARCH 25, 1947. Class 22.

430,422. A POWDERED CLEANER FOR GENERAL HOUSEHOLD USE AND ALSO CERTAIN COMMERCIAL USES, SUCH AS IN LAUNDRIES AND IN THE CLEANING OF DAIRY EQUIPMENT. Purex Corporation, Ltd., South Gate, Calif.
Filed October 31, 1946. Serial No. 511,831. PUBLISHED FEBRUARY 4, 1947. Class 4.

430,423. ORGANIC COMPOUND FOR USE IN THE FLAMEPROOFING OF TEXTILES AND MATERIALS BY DIPPING, SPRAYING, DYEING OR OTHER COATING OR IMPREGNATING PROCEDURES. Eronel Industries, Los Angeles, Calif.
Filed November 8, 1946. Serial No. 512,247. PUBLISHED JANUARY 21, 1947. Class 6.

430,424. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. YOUNGS RUBBER CORPORATION, New York, N. Y.
Filed December 4, 1946. Serial No. 513,705. PUBLISHED MARCH 18, 1947. Class 44.

430,425. EAR STOPS OR PLUGS FOR DEADENING NOISES DURING REPOSE. EDWARD C. HEMPHILL, doing business as Sleep Shade Co., San Francisco, Calif.
Filed December 18, 1946. Serial No. 514,474. PUBLISHED MARCH 25, 1947. Class 44.

430,426. GLUE. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill.
Filed December 21, 1946. Serial No. 514,644. PUBLISHED APRIL 1, 1947. Class 5.

430,427. PERFUMES. SOCIETE D'ETUDES ET D'EXPANSION DE LA PARFUMERIE DE LUXE, Paris and Asnieres, France.
Filed January 2, 1947. Serial No. 515,201. PUBLISHED FEBRUARY 25, 1947. Class 6.

430,428. POWDER FOR USE IN MAKING ARTIFICIAL STONES USED IN PREPARATION OF DENTURE MODELS. COSMOS DENTAL PRODUCTS, INC., New York, N. Y.
Filed January 8, 1947. Serial No. 515,476. PUBLISHED MARCH 25, 1947. Class 44.

430,429. TOY TOPS. THE SOCK-IT COMPANY, High Point, N. C.
Filed January 13, 1947. Serial No. 515,686. PUBLISHED MARCH 25, 1947. Class 22.

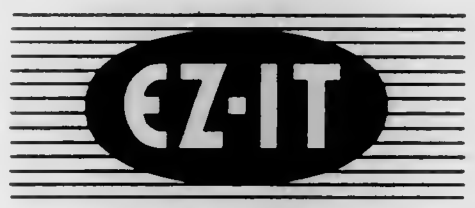
430,430. TOY PHONOGRAPHS. MUTUAL INTERNATIONAL CORPORATION, New York, N. Y.
Filed January 14, 1947. Serial No. 515,720. PUBLISHED MARCH 25, 1947. Class 22.

430,431. CONDENSERS, JACKS, PLUGS, RHEOSTATS, DIALS, RADIO RECEIVING SETS AND PARTS THEREOF. PILOT RADIO CORPORATION, New York, N. Y.
Filed February 19, 1947. Serial No. 517,795. PUBLISHED APRIL 1, 1947. Class 21.

ACT OF MARCH 19, 1920, SEC. 1 (b)

These registrations are not subject to opposition

430,432. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT L. GADDY, Gainesville, Fla. Filed Mar. 17, 1943. Serial No. 459,215.



FOR PREPARATION FOR THE RELIEF OF ATHLETE'S FOOT, RINGWORM, IMPETIGO, ITCHING SKIN IRRITATIONS, BLISTERS, AND MINOR CUTS, AND CALLUSES, CORNS, AND WARTS.
Claims use since July 5, 1918.

430,433. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) ROLAND REED, Oakland, Calif. Filed Oct. 14, 1943. Serial No. 464,145.

TUBERCHOKE

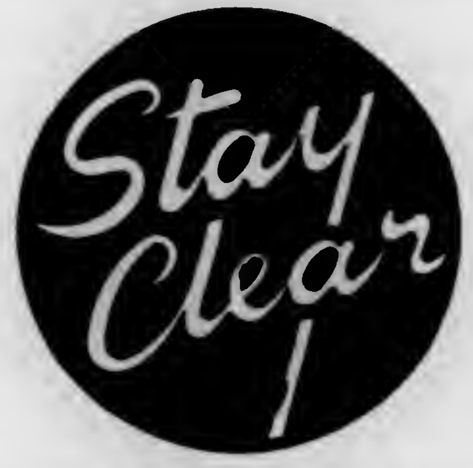
FOR SEED TUBERS OF THE JERUSALEM ARTICHOKE.
Claims use since Apr. 6, 1943.

430,434. (CLASS 19. VEHICLES.) NORTHROP AIRCRAFT, INC., Hawthorne, Calif. Filed May 6, 1944. Serial No. 470,001.

FLYING WING

FOR AIRPLANES.
Claims use since Aug. 1, 1939.

430,435. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) EMANUEL WEISSBERG, Newark, N. J. Filed Sept. 7, 1944. Serial No. 473,968.



FOR FOG PROOFING AND CLEANSING PREPARATION FOR EYE GLASSES, OPTICAL INSTRUMENTS, AND GLASS-LIKE SURFACES.
Claims use since July 21, 1944.

430,436. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GRANAT BROS., INC., San Francisco, Calif. Filed Sept. 12, 1944. Serial No. 474,122.

WED LOK

FOR FINGER RINGS.
Claims use since Aug. 10, 1934.

430,437. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. B. T. MANUFACTURING CORP., Chicago, Ill. Filed Dec. 18, 1944. Serial No. 477,679.

RIFLE SPORT

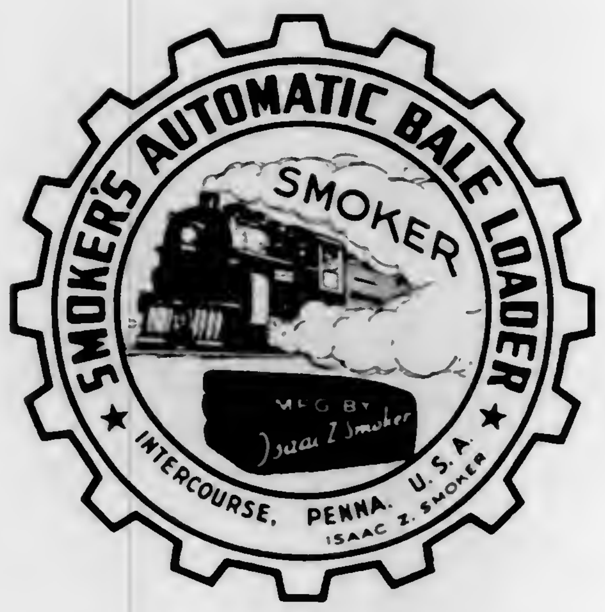
FOR AIR RIFLES.
Claims use since May 8, 1944.

430,438. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 1, 1945. Serial No. 480,375.

HUDSON

FOR FIRE PUMPS, TROMBONE, BARREL AND BUCKET PUMPS; SPRAYERS AND DUSTERS AND ATTACHMENTS AND PARTS THEREOF; BULL STAFFS; CHAIN AND LEVER HOISTS; HAY UNLOADING TOOLS—NAMELY, CARRIERS, HAY SLINGS, AND ATTACHMENTS AND PARTS THEREOF; COMMERCIAL AND INDUSTRIAL OVERHEAD CONVEYING EQUIPMENT—NAMELY, CARRIERS, CHAIN AND LEVER HOISTS, CARRIER TRUCKS, PULLEYS, GRAPPLES, AND ATTACHMENTS AND PARTS THEREOF; WATER WELL PUMPS; PUMP CYLINDERS; PUMP VALVES, AND PLUNGERS.
Claims use since 1930.

430,439. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ISAAC Z. SMOKER, Intercourse, Pa. June 9, 1945. Serial No. 484,372.



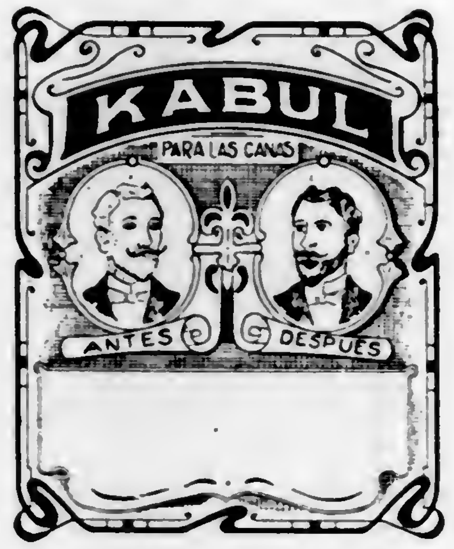
FOR AUTOMATIC BALE LOADERS FOR ELEVATING BALES FOR DELIVERY TO A VEHICLE.
Claims use since June 2, 1945.

430,440. (CLASS 27. HOROLOGICAL INSTRUMENTS.) J. BERNHEIM & CO., TIMOR WATCH CO., La Chaux-de-Fonds, Switzerland. Filed Aug. 8, 1945. Serial No. 486,884.

TIMOR

FOR WATCHES, PARTS OF WATCHES, AND WATCH CASES.
Claims use since 1927.

430,441. (CLASS 6, CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAUSTINO RODRIGUEZ Y GARCIA, Habana, Cuba. Filed Sept. 13, 1945. Serial No. 488,402.



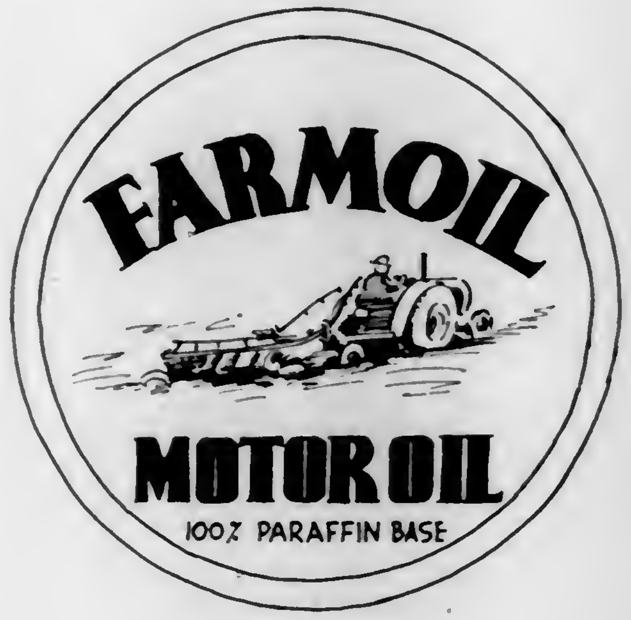
The portraits appearing on the drawing are merely fanciful.
FOR PREPARATION FOR DYEING THE HAIR.
Claims use since 1902.

430,442. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AL A. BANKS, doing business as Lyk-Nu Company, New York, N. Y. Filed Sept. 15, 1945. Serial No. 488,500.

LYK-NU

FOR AUTOMOBILE DETERGENT FOR ADDITION TO WATER, LIQUID SURFACE CLEANER, AUTOMOBILE DETERGENT FOR USE WITH DAMPENED CLOTH PAD, WHITE TIRE CLEANER, LACQUER CLEANER, BLACK TIRE DRESSING, BLACK TOP DRESSING, FABRIC CLEANER, WHITE TIRE CLEANER FOR USE WITH CLOTH PAD, DRESSING FOR RESTORING AND REFINISHING RUBBER MATS, GREASE AND OIL ABSORBENT, AND RUBBER RESTORING LIQUID.
Claims use since 1935 for automobile detergent for addition to water; since 1936 for liquid surface cleaner; since 1937 for automobile detergent for use with dampened cloth pad; since 1938 for white tire cleaner; since 1939 for lacquer cleaner; since 1930 for black tire dressing; since 1931 for black top dressing; since 1930 for fabric cleaner; since 1931 for white tire cleaner for use with cloth pad; since 1940 for dressing for restoring and refinishing rubber mats; since 1942 for grease and oil absorbent; and since 1943 for rubber restoring liquid.

430,443. (CLASS 15. OILS AND GREASES.) O. B. STEPHENS, doing business as United Oil & Grease Co., Abilene, Tex. Filed Sept. 15, 1945. Serial No. 488,551.



FOR MOTOR, ENGINE, AND CHASSIS LUBRICATING OILS.
Claims use since Feb. 17, 1945.

430,444. (CLASS 39. CLOTHING.) EDWARD S. JAMISON, doing business as James Jamison Company, New York, N. Y. Filed Oct. 12, 1945. Serial No. 489,871.

Inventor's Own

KUSHON
TRED

FOR MEN'S SOCKS.
Claims use since Sept. 20, 1945.

430,445. (CLASS 39. CLOTHING.) FLUID FIT FURS, INC., New York, N. Y. Filed Oct. 29, 1945. Serial No. 490,646.

TEENER

FOR FUR COATS.
Claims use since Oct. 8, 1945.

430,446. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) RILEY H. TAYLOR, doing business as Ace-Lectric Heating Company, Portland, Oreg. Filed Oct. 29, 1945. Serial No. 490,715.

watt-air

FOR UNITARY ELECTRIC AIR CONDITIONING, HEATING AND CIRCULATING APPARATUS FOR DOMESTIC AND SIMILAR USES.
Claims use since Sept. 16, 1945.

430,447. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) RALPH S. HARTE, San Francisco, Calif. Filed Oct. 31, 1945. Serial No. 490,827.

Tri-Plastic

FOR THIN TRANSPARENT OR TRANSLUCENT SHEETS OR FILMS OF POLYVINYL RESIN, SOLD AS PIECE GOODS FOR USE IN MAKING SHOWER CURTAINS, BATHROOM CURTAINS, ETC.
Claims use since Aug. 1, 1945.

430,448. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTHA LEE, INC., Waco, Tex. Filed Nov. 5, 1945. Serial No. 491,100.

FOR PERFUMED CREAM FOR THE SKIN.
Claims use since April 1940.

430,449. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DU-MORE FARM EQUIPMENT, INC., Wichita, Kans. Filed Nov. 19, 1945. Serial No. 491,813.

NO-KRAK

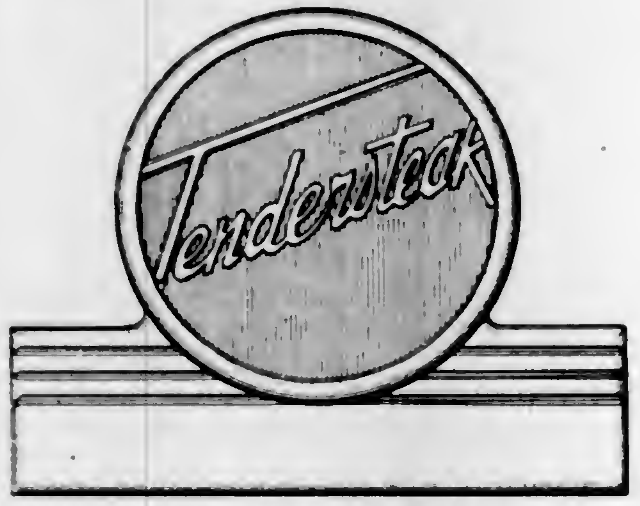
FOR BLOWERS FOR CONVEYORS FOR DRY, COMMINUTED AND GRAIN MATERIALS.
Claims use since Aug. 3, 1945.

430,450. (CLASS 39. CLOTHING.) RUSSELL HOSIERY MILL, Star, N. C., and New York, N. Y. Filed Nov. 27, 1945. Serial No. 492,279.

STRIKING COLORS

FOR HOSIERY.
Claims use since Nov. 15, 1945.

430,451. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) U. S. SLICING MACHINE COMPANY, La Porte, Ind. Filed Dec. 3, 1945. Serial No. 492,597.



The lining on the drawing indicates the color red.
FOR BREAD AND MEAT SLICING MACHINES AND MECHANICAL MEAT TENDERING MACHINES, AND PARTS THEREOF.
Claims use since Feb. 18, 1944.

430,452. (CLASS 39. CLOTHING.) HOLSBERG & LASOFF, INC., Boston, Mass., assignor to Betty Brief, Inc., Boston, Mass., a corporation of Massachusetts. Filed Dec. 8, 1945. Serial No. 492,921.

Betty Brief

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Nov. 2, 1945.

430,453. (CLASS 39. CLOTHING.) SACO-MOC SHOE CORPORATION, Portland, Maine. Filed Dec. 22, 1945. Serial No. 493,830.

STA-ON-MOCS

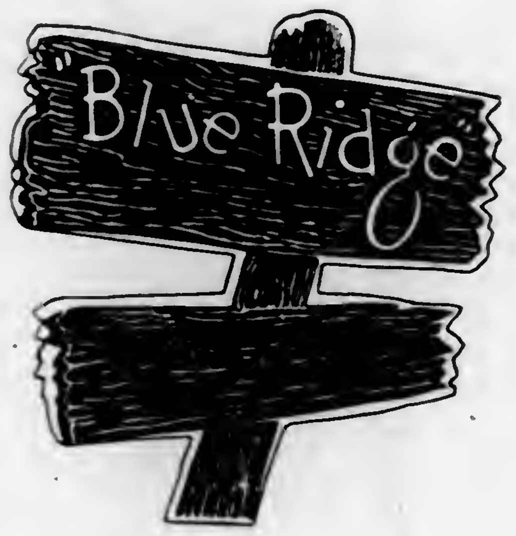
FOR MOCCASINS AND SHOES OF LEATHER OR FABRIC OR OF COMBINATIONS OF SAID MATERIALS.
Claims use since Dec. 4, 1945.

430,454. (CLASS 39. CLOTHING.) MARTINI FROCKS, New York, N. Y. Filed Dec. 28, 1945. Serial No. 493,972.

Diminutives

FOR CLOTHING FOR WOMEN, MISSES, AND GIRLS—NAMELY, SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF, HATS, UNDERWEAR, BRASSIÈRES, PANTIES, NECKTIES, OUTER SHIRTS, BLOUSES, CORSETS, GIRDLES, GLOVES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF, RAINCOATS, EVENING GOWNS, HOSTESS GOWNS, DRESSES, SUITS FOR ORDINARY WEAR, BATHING SUITS, SUN SUITS, PLAY SUITS, BEACH, BATH AND LOUNGING ROBES, SLACKS, SPORTCOATS, AND RIDING HABITS.
Claims use since Jan. 2, 1942.

430,455. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HIPSH, INCORPORATED, Kansas City, Mo. Filed Dec. 29, 1945. Serial No. 494,068.



FOR MEN'S TOILETRIES—NAMELY, OIL SHAMPOO, COLOGNE, AFTER SHAVE LOTION AND TALCUM POWDER.
Claims use since Dec. 10, 1945.

430,456. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Hipsh, Incorporated, Kansas City, Mo. Filed Dec. 29, 1945. Serial No. 494,069.

FOR MEN'S TOILETRIES—NAMELY, OIL SHAMPOO, COLOGNE, AFTER SHAVE LOTION AND TALCUM POWDER.
Claims use since Dec. 10, 1945.

430,457. (CLASS 39. CLOTHING.) Lorraine Frocks, Chicago, Ill. Filed Dec. 29, 1945. Serial No. 494,092.

"instantly
yours"

FOR WOMEN'S AND GIRLS' SUITS AND DRESSES.
Claims use since Nov. 13, 1945.

430,458. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Banks & Shorr, New Rochelle, N. Y. Filed Jan. 3, 1946. Serial No. 494,206.

Spray-Tan

FOR GREASELESS SUN TAN LOTION.
Claims use since Dec. 11, 1945.

430,459. (CLASS 39. CLOTHING.) Hipsh, Inc., Kansas City, Mo. Filed Jan. 16, 1946. Serial No. 494,844.

Pla-Jac
by PINE RIDGE

FOR MEN'S JACKETS MADE OF CLOTH, LEATHER OR COMBINATIONS OF CLOTH AND LEATHER.
Claims use since Dec. 10, 1945.

430,460. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Vegetabilis Vapor Company, St. Augustine, Fla. Filed Jan. 17, 1946. Serial No. 494,947.

VEGETABILIS
VAPOR

FOR A VEGETABLE COMPOUND USED IN THE TREATMENT OF ASTHMA AND BRONCHITIS.
Claims use since Nov. 30, 1945.

430,461. (CLASS 39. CLOTHING.) El-Ee's Foundations, Inc., Newark, N. J. Filed Jan. 18, 1946. Serial No. 494,961.

TISSUE-LITE

FOR FOUNDATION GARMENTS.
Claims use since August 1945.

430,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Shell Oil Company, Incorporated, San Francisco, Calif., Filed Jan. 19, 1946. Serial No. 495,103.

WALL-TOX

FOR INSECTICIDE.
Claims use since Dec. 6, 1945.

430,463. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) Wolf & Klar Wholesale Supply Co., Forth Worth, Tex. Filed Jan. 19, 1946. Serial No. 495,121.

Langley

FOR RADIO RECEIVING SETS.
Claims use since August 1945.

430,464. (CLASS 27. HOROLOGICAL INSTRUMENTS.) Wolf & Klar Wholesale Supply Co., Forth Worth, Tex. Filed Jan. 19, 1946. Serial No. 495,122.

LANGLEY

FOR WATCHES AND WATCH MOVEMENTS.
Claims use since September 1944.

430,465. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Peerless Confection Company, Chicago, Ill. Filed Jan. 29, 1946. Serial No. 495,621.

Peerless Maid
P. M. MIX

FOR CANDY.
Claims use since Oct. 1, 1945.

430,466. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Tommy Scott, doing business as The Katona Medicine Co., Toccoa, Ga. Filed Feb. 4, 1946. Serial No. 495,993.

Katona

FOR LAXATIVE COMPOUND.
Claims use since Dec. 27, 1945.

430,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Irresistible, Inc., New York, N. Y. Filed Feb. 6, 1946. Serial No. 496,083.

LERNER

FOR PERFUME.
Claims use since Jan. 30, 1946.

430,468. (CLASS 15. OILS AND GREASES.) Pushin Grease Dispenser Company, Chicago, Ill. Filed Feb. 14, 1946. Serial No. 496,569.

PUSHIN

FOR LUBRICATING GREASE SOLD IN A COLLAPSIBLE DISPENSER-CONTAINER.
Claims use since March 1940.

430,469. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Accurate Parts Manufacturing Company, Cleveland Ohio. Filed Feb. 16, 1946. Serial No. 496,681.

CLUTCH
Accurate
SERVICE

FOR AUTOMOTIVE CLUTCHES AND PARTS THEREOF, CLUTCH PLATES, CLUTCH FACINGS, AND SPRINGS, SCREWS, BOLTS, NUTS, AND WASHERS FOR CLUTCHES.
Claims use since Jan. 18, 1946.

430,470. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Affiliated Retailers, Inc., New York, N. Y. Filed Feb. 21, 1946. Serial No. 497,008.

FAIRFIELD

FOR LAWN MOWERS.
Claims use since Dec. 15, 1945.

430,471. (CLASS 39. CLOTHING.) Snowdon, Inc., Des Moines, Iowa. Filed Feb. 23, 1946. Serial No. 497,137.

Snowdon

FOR WOMEN'S AND CHILDREN'S PLAY SUITS, SUN SUITS, ROMPERS, DRESSES, SLIPS, NIGHTGOWNS, HOSIERY AND UNDERWEAR.
Claims use since Jan. 21, 1946.

430,472. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Thorvald Henrick McGregor, doing business as MacGregor & Co., New York, N. Y. Filed Feb. 28, 1946. Serial No. 497,396.

COTTONVALLEY

FOR COLD CREAM, FINISHING AND BEAUTIFYING CREAM, VITAMIN D CREAM, LEMON CREAM, ALMOND CREAM, ROSE CREAM, CREAM LOTION, BRILLIANTINE, BABY SKIN CREAM, DUSTING POWDER, CLEANSING CREAM, TALC POWDER, TOILET WATER, BABY POWDER, LIPSTICK, FACE ROUGE, FACE POWDER, BATH SALTS, HAIR SHAMPOO, EYEBROW PENCILS, MASCARA, PERFUME AND HAIR POMADE.
Claims use since Feb. 14, 1946.

430,473. (CLASS 39. CLOTHING.) Jack Borgenicht, Inc., Forest City, Pa. Filed Mar. 1, 1946. Serial No. 497,447.

JB JACK BORGENICHT

FOR WOMEN'S, CHILDREN'S AND INFANTS' DRESSES.
Claims use since Feb. 25, 1946.

430,474. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Hydroloc Syndicate, Chicago, Ill. Filed Mar. 1, 1946. Serial No. 497,481.

OILTORK

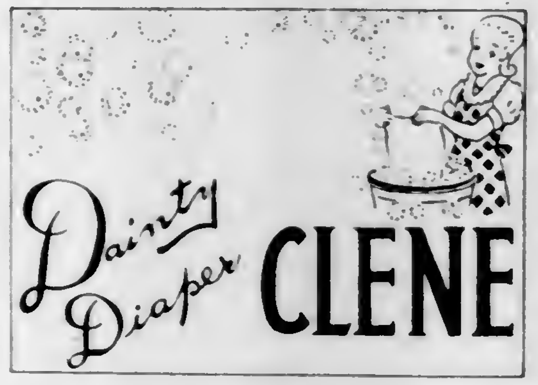
FOR HYDRAULIC TRANSMISSIONS.
Claims use since Feb. 13, 1946.

430,475. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. Mendelson Co., New York, N. Y. Filed Mar. 1, 1946. Serial No. 497,489.

Jíní Línn

FOR FACE AND BODY POWDERS AND CREAMS AND LIPSTICKS.
Claims use since Feb. 4, 1946.

430,476. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) Herbert H. McJunkin, doing business as Cle Products Company, Dallas, Tex. Filed Mar. 4, 1946. Serial No. 497,619.



FOR DRY COMPOUND FOR WASHING AND CLEANING DIAPERS.
Claims use since July 28, 1943.

430,477. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Elizabeth Arden Sales Corporation, New York, N. Y. Filed Mar. 6, 1946. Serial No. 497,692.

CHAP-PRUF

FOR LIP BALM.
Claims use since Mar. 1, 1945.

430,478. (CLASS 39. CLOTHING.) Charels H. Levy Company, New Orleans, La. Filed Mar. 7, 1946. Serial No. 497,803.

English Aston

FOR MEN'S NECKTIES.
Claims use since Feb. 27, 1946.

430,479. (CLASS 39, CLOTHING.) J. C. Penney Company, Wilmington, Del., and New York, N. Y. Filed Mar. 12, 1946. Serial No. 498,075.

Penney Teen

FOR MISSES' AND GIRLS' DRESSES, COATS, SKIRTS AND BLOUSES.
Claims use since Feb. 16, 1946.

430,480. (CLASS 39. CLOTHING.) Julius Kayser & Co., New York, N. Y., and elsewhere. Filed Mar. 13, 1946. Serial No. 498,150.

FIT-ALL-HEEL

FOR HOSIERY.
Claims use since Feb. 11, 1946.

430,481. (CLASS 37. PAPER AND STATIONERY.) American Greeting Publishers Incorporated, Cleveland, Ohio. Filed Mar. 18, 1946. Serial No. 498,375.

WRITE-A-NOTE

FOR NOTE PAPER.
Claims use since Dec. 1, 1945.

430,482. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Sophie R. Gordon, doing business as Gordon Wheat Germ Co., New York, N. Y. Filed Mar. 19, 1946. Serial No. 498,514.

ALFAGELS

FOR NATURAL MIXED TOCOPHEROLS.
Claims use since Jan. 10, 1946.

430,483. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Walter S. Sosin, doing business as Walstan Co., New York, N. Y. Filed Mar. 21, 1946. Serial No. 498,726.

SEASONED

FOR COLOGNE.
Claims use since January 1946.

430,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Sidney Greenberg, doing business as The Tuf-Skin Company, New York, N. Y. Filed Mar. 23, 1946. Serial No. 498,839.

FOR SKIN LOTION FOR TOUGHENING THE HANDS BEFORE BOWLING.
Claims use since Mar. 1, 1946.

430,485. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Alvin T. Stumpf, doing business as John Stumpf's Son, Gretna, La. Filed Mar. 25, 1946. Serial No. 498,938.

"RUST-A-WAY"

FOR CHEMICAL PREPARATION ADAPTED FOR THE REMOVAL OF RUST STAINS IN FABRICS.
Claims use since Feb. 1, 1936.

430,486. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Societe Anonyme de Diffusion Internationale de Parfumerie, Paris, France. Filed Mar. 28, 1946. Serial No. 499,159.

PARFUMS DE VILLIERS

FOR PERFUMES, TOILET CREAMS, AND DENTIFRICES.
Claims use since Oct. 1, 1945.

430,487. (CLASS 39. CLOTHING.) Peppy Footwear, Inc., New York, N. Y. Filed Mar. 30, 1946. Serial No. 499,346.

Qualit-ease

FOR SHOES AND SLIPPERS MADE OF LEATHER OF FABRIC, OR COMBINATIONS THEREOF.
Claims use since Mar. 4, 1946.

430,488. (CLASS 39. CLOTHING.) Shoes Associated, Inc., New York, N. Y. Filed Apr. 8, 1946. Serial No. 499,860.

"STRAP-O-MOC"

FOR SHOES, MADE OF LEATHER, FABRIC, RUBBER AND/OR ANY COMBINATION THEREOF.
Claims use since Mar. 1, 1946.

430,489. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Kuchler-Huhn Company, Inc., Sharon Hill, Pa. Filed Apr. 12, 1946. Serial No. 500,087.

LUBE O FREE

FOR MACHINERY BEARINGS AND BUSHINGS.
Claims use since Apr. 4, 1946.

430,490. (CLASS 39. CLOTHING.) Mavest, Inc., New York, N. Y. Filed Apr. 12, 1946. Serial No. 500,102.

ALDINE

FOR WOMEN'S AND MEN'S SUITS, COATS AND PANTS.
Claims use since Mar. 1, 1946.

430,491. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Elmo Sales Corporation, Philadelphia, Pa. Filed Apr. 15, 1946. Serial No. 500,209.

Lord
Baltimore

FOR DEODORANT, AFTER-SHAVE LOTION, HAIR TONIC, TALCUM POWDER AND COLOGNE.
Claims use since Jan. 8, 1946.

430,492. (CLASS 2. RECEPTACLES.) Dri-Shaker Products, Inc., Miami, Fla. Filed Apr. 17, 1946. Serial No. 500,374.

Dri-Shaker

FOR PLASTIC CONDIMENT SHAKERS.
Claims use since Mar. 22, 1946.

430,493. (CLASS 33. GLASSWARE.) Dri-Shaker Products, Inc., Miami, Fla. Filed Apr. 17, 1946. Serial No. 500,375.

Dri-Shaker

FOR CONDIMENT SHAKER MADE OF GLASS.
Claims use since Mar. 22, 1946.

430,494. (CLASS 39. CLOTHING.) Charles Navasky & Co., Philipsburg, Pa. Filed Apr. 19, 1946. Serial No. 500,557.

Moshannon

FOR MEN'S AND BOYS' SHIRTS, SUITS, LEISURE JACKETS, SLACKS AND SPORT COATS.
Claims use since Apr. 10, 1946.

430,495. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Peerless Products Co., Memphis, Tenn. Filed Apr. 19, 1946. Serial No. 500,567.

"This Is the Jack That Peerless Built"

FOR AUTOMOBILE JACK.
Claims use since Mar. 22, 1946.

430,496. (CLASS 39. CLOTHING.) Bretter & Levine, Inc., New York, N. Y. Filed Apr. 20, 1946. Serial No. 500,598.

Bonnie Gibbs
ORIGINAL

FOR MISSES' AND JUNIORS' DRESSES.
Claims use since January 1942.

430,497. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) McCarthy & Simon, Inc., New York, N. Y. Filed Apr. 22, 1946. Serial No. 500,677.

RAYCORDE

FOR PIECE GOODS MADE OF COTTON, OF RAYON, OF SILK, OF WOOL, AND VARIOUS COMBINATIONS OF THOSE FIBERS, SUITABLE PARTICULARLY FOR THE MANUFACTURE OF ACADEMIC CAPS AND GOWNS, ECCLESIASTICAL ROBES, CHURCH VESTMENTS, AND JUDICIAL ROBES.
Claims use since Dec. 15, 1941.

430,498. (CLASS 39. CLOTHING.) Alfred Norton Ltd., New York, N. Y. Filed Apr. 22, 1946. Serial No. 500,688.

Alfred Norton

FOR MEN'S AND WOMEN'S SUITS, VESTS, COATS, SLACKS, RIDING HABITS, SHOES MADE OF LEATHER, FABRIC, AND RUBBER, RAINCOATS, STOCKINGS, HATS, OUTER SHIRTS, UNDERSHIRTS, PAJAMAS, GLOVES MADE OF LEATHER AND FABRIC, SWEATERS, NECKTIES, UNDERWEAR, HANDKERCHIEFS, GARMENT BELTS, BATH ROBES, LOUNGING ROBES, BEACH ROBES, COLLARS, MUFFLERS, AND BATHING SUITS.
Claims use since February 1943.

430,499. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Koch Products Company, also doing business as Koch Chemical Co., Winona, Minn. Filed Apr. 25, 1946. Serial No. 500,882.

BABEE

FOR WASHING COMPOUND IN POWDER FORM, HAVING INCIDENTAL WATER SOFTENING PROPERTIES.
Claims use since Mar. 19, 1946.

430,500. (CLASS 39. CLOTHING.) Lou Tishman Co., Inc., New York, N. Y. Filed Apr. 30, 1946. Serial No. 501,214.

SMALL-N-PETITE

FOR CLOTHING FOR WOMEN, NAMELY, LADIES' AND MISSES' COATS, SUITS, DRESSES, JACKETS, BLOUSES, SWEATERS, AND SLACKS.
Claims use since on or about Dec. 1, 1945.

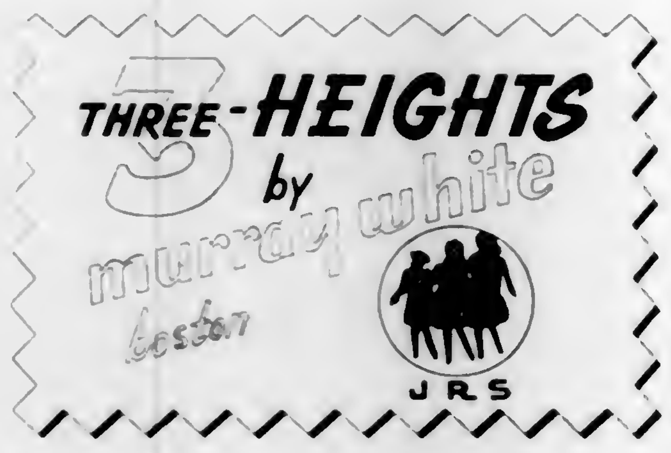
430,501. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) Ernest O. Anders, doing business as Fluorescent Fixtures of California, San Francisco, Calif. Filed May 6, 1946. Serial No. 501,491.

FOR ELECTRICAL LIGHTING FIXTURES.
Claims use since Oct. 1, 1944.

430,502. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) Consolidated Research Co., Cincinnati, Ohio. Filed May 9, 1946. Serial No. 501,718.

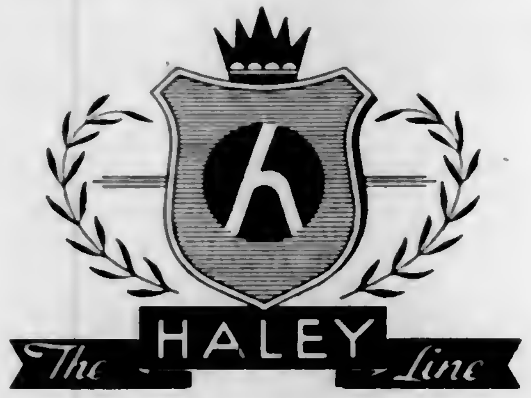
FOR CLEANING PREPARATION FOR PLASTIC PRODUCTS HAVING DISINFECTING PROPERTIES.
Claims use since Feb. 11, 1946.

430,503. (CLASS 39. CLOTHING.) Murray White Company, Boston, Mass. Filed May 18, 1946. Serial No. 502,414.



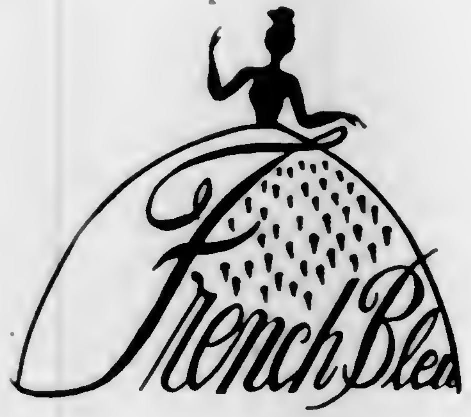
FOR MISSES' AND LADIES' DRESSES.
Claims use since Apr. 1, 1946.

430,504. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) The Rayell Co., Inc., New York, N. Y. Filed May 21, 1946. Serial No. 502,532.



FOR COSTUME JEWELRY AND PRECIOUS METAL JEWELRY (NOT INCLUDING WATCHES), NAMELY, FINGER RINGS, BRACELETS, ARM BANDS, WRIST WATCH BANDS, WATCH CHAINS, EARRINGS, BROOCHES, PINS, COMBINATION PINS AND CLIPS, CLIPS, PENDANTS, LOCKETS, NECKLACES, LAVALIERES, TIE PINS, TIE CLASPS, CUFF LINKS, BELT BUCKLES, ORNAMENTAL SHOE BUCKLES, ORNAMENTAL BUTTONS, HAT PINS, HAIRPINS, HAIR ORNAMENTS, HEAD ORNAMENTS, AND TIARAS.
Claims use since February 1946.

430,505. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Reine Inc., New York, N. Y. Filed May 21, 1946. Serial No. 502,534.



FOR PERFUME, TOILET WATER, AND COLOGNES.
Claims use since January 1946.

430,506. (CLASS 39. CLOTHING.) Danmor Frocks, New York, N. Y. Filed May 22, 1946. Serial No. 502,564.

A Smar-Teen
– CLASSIC –

FOR LADIES' DRESSES.
Claims use since Jan. 15, 1946.

430,507. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Dutch Mill Candy Co., Chicago, Ill. Filed May 25, 1946. Serial No. 502,740.

MUNCH

FOR CANDIES AND BONBONS.
Claims use since Apr. 1, 1946.

430,508. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) The Sprague Mfg. Co. Inc., Lyndhurst, N. J. Filed May 29, 1946. Serial No. 503,016.

Jaccard

FOR AUTOMATIC MUSIC BOXES AND PARTS THEREOF.
Claims use since Jan. 7, 1946.

430,509. (CLASS 39. CLOTHING.) Pauson & Company, San Francisco, Calif. Filed June 5, 1946. Serial No. 503,322.

FOR MEN'S AND BOYS' SUITS, OVERCOATS, AND TOPCOATS.
Claims use since February 1944.

430,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Alfred S. Metzner, doing business as National Products Company, Orlando, Fla. Filed June 7, 1946. Serial No. 503,459.

CHALK-LINE

FOR INSECTICIDAL CRAYON.
Claims use since Mar. 15, 1946.

430,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DAVISON CHEMICAL CORPORATION, Baltimore, Md. Filed June 10, 1946. Serial No. 503,559.

DAVISON

FOR COMPOUND FOR DEHUMIDIFICATION OF THE AIR.

Claims use since August 1940.

430,512. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) CLARENCE S. BROWN & CO., INC., New York, N. Y. Filed June 12, 1946. Serial No. 503,700.

BROWN'S COMFORT CONDITIONED

FOR PIECE GOODS OF COTTON, RAYON, AND MIXTURES THEREOF.

Claims use since Mar. 19, 1946.

430,513. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PICTSWEET FOODS, INC., Mount Vernon, Wash. Filed June 12, 1946. Serial No. 503,744.

Big BLEND

FOR CANNED PEAS.

Claims use since May 15, 1945.

430,514. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PICTSWEET FOODS, INC., Mount Vernon, Wash. Filed June 12, 1946. Serial No. 503,746.

Big PACK

FOR CANNED PEAS.

Claims use since Mar. 15, 1945.

430,515. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PICTSWEET FOODS, INC., Mount Vernon, Wash. Filed June 12, 1946. Serial No. 503,748.

Little BLEND

FOR CANNED PEAS.

Claims use since May 15, 1945.

430,516. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) CREST FABRICS CORP., New York, N. Y. Filed June 18, 1946. Serial No. 504,093.

MAGNIFICO

FOR THIN TRANSPARENT OR TRANSLUCENT VINYL TYPE PLASTIC SHEETING FOR USE IN THE MANUFACTURE OF SHOWER CURTAINS, BATHROOM CURTAINS, RAINWEAR, APRONS, CRIB SHEETS, BED SHEETING, TABLE COVERS, SANITARY COVERS, BABY BIBS, KITCHEN SHELVING, PILLOW CASES, AND GARMENT BAGS.

Claims use since Jan. 3, 1945.

430,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARRIE DAVIDSON, Selma, Ala. Filed June 18, 1946. Serial No. 504,095.

Carrie Davidson's
ALABAMA KITCHEN

FOR FIG, STRAWBERRY, RASPBERRY, PEACH, ORANGE, LEMON, GRAPEFRUIT AND KUMQUAT PRESERVES, COOKIES, PICKLED AND MUSTARD RELISHES, JAMS, FRUITCAKES AND JELLIES.

Claims use since January 1933.

430,518. (CLASS 39. CLOTHING.) WHITE & SKLAR INC., New York, N. Y. Filed June 18, 1946. Serial No. 504,141.

Kay Allyson

FOR WOMEN'S AND MISSES' DRESSES.

Claims use since June 1945.

430,519. (CLASS 39. CLOTHING.) THE LITTLE MANUFACTURING CORPORATION, New York, N. Y. Filed June 25, 1946. Serial No. 504,567.

Sir Little

FOR YOUNG MEN'S AND BOYS' SUITS, COATS, TROUSERS, SLACKS, VESTS, JACKETS, TOPCOATS, SPORTS COATS, SPORTS JACKETS, RAINCOATS, BLOUSES, PLAY SUITS, OVERALLS, HATS AND CAPS.

Claims use since Nov. 1, 1945.

430,520. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) POLARIS PRODUCTS, INC., Milwaukee, Wis. Filed June 25, 1946. Serial No. 504,582.

SPEEDGRIP AUTOMATIC

FOR WRENCHES.

Claims use since May 1945.

430,521. (CLASS 15. OILS AND GREASES.) ROBERT JACKSON STEWART, El Paso, Tex. Filed June 27, 1946. Serial No. 504,713.

STEWART-LUBE

FOR LUBRICATING OILS AND GREASES.

Claims use since January 1946.

430,522. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FLEURIER WATCH CO., Fleurier, Switzerland. Filed July 1, 1946. Serial No. 504,893.

ARCADIA

FOR WATCHES AND PARTS OF WATCHES.

Claims use since 1915.

430,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AVON PRODUCTS, INC., New York, N. Y. Filed July 3, 1946. Serial No. 505,032.

CHINA SEA

FOR LIPSTICKS.

Claims use since Apr. 1, 1946.

430,524. (CLASS 39. CLOTHING.) STYLE MISS DRESS CO., INC., New York, N. Y. Filed July 9, 1946. Serial No. 505,321.

Style Miss

FOR LADIES' AND MISSES' DRESSES.

Claims use since July 1944.

430,525. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FERRO-GLO CORPORATION, Erie, Pa. Filed July 17, 1946. Serial No. 505,746.

FERRO GLO

FOR CHEMICAL COMPOUND FOR PREVENTING AND REMOVING RUST, AND FOR CLEANSING, POLISHING AND PRESERVING METALLIC AND NON-METALLIC SURFACES.

Claims use since Dec. 26, 1945.

430,526. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN D. SMITH, doing business as Smith Manufacturing Company, Utica, N. Y. Filed July 23, 1946. Serial No. 506,132.

DEAD-TOX

FOR INSECTICIDES.

Claims use since June 15, 1945.

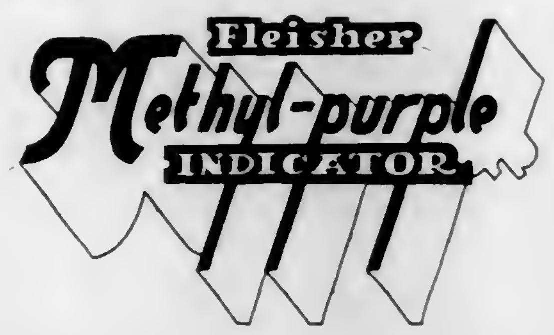
430,527. (CLASS 39. CLOTHING.) MELORI SHOE CORP., Boston, Mass. Filed July 25, 1946. Serial No. 506,251.

Toni Drake

FOR WOMEN'S SHOES.

Claims use since February 1946.

430,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Harry Fleischer, doing business as Fleisher Chemical Company, Washington, D. C. Filed July 29, 1946. Serial No. 506,436.



FOR CHEMICAL INDICATOR FOR USE IN VISUALLY IDENTIFYING THE ENDPOINT OF A VOLUMETRIC TITRATION BY VIRTUE OF INHERENT COLOR CHANGES (GREEN TO GRAY TO PURPLE, OR VICE-VERSA) WHICH TAKE PLACE AT THE PRESCRIBED ENDPOINT.

Claims use since June 30, 1945.

430,529. (CLASS 39. CLOTHING.) Berton of California, Los Angeles, Calif. Filed Aug. 1, 1946. Serial No. 506,635.

BERTON
of California

FOR MEN'S SHIRTS, SPORT COATS, SUITS, SLACKS, SLACK SUITS AND WOMEN'S SUITS AND BLOUSES.

Claims use since May 5, 1945.

430,530. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Schrade-Walden Cutlery Corp., Walden, N. Y. Filed Aug. 10, 1946. Serial No. 507,221.

EVERLASTINGLY SHARP

FOR PEN KNIVES, POCKET KNIVES, PARING KNIVES AND KITCHEN KNIVES.

Claims use since September 1915.

430,531. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Joseph Pottgieser, doing business as San Jose Ointment Co., San Jose, Calif. Filed Aug. 13, 1946. Serial No. 507,340.

JOSEPH POTTGIESER

FOR MASSAGE OIL TO RELIEVE SIMPLE MUSCULAR ACHES AND PAINS.

Claims use since Aug. 1, 1945.

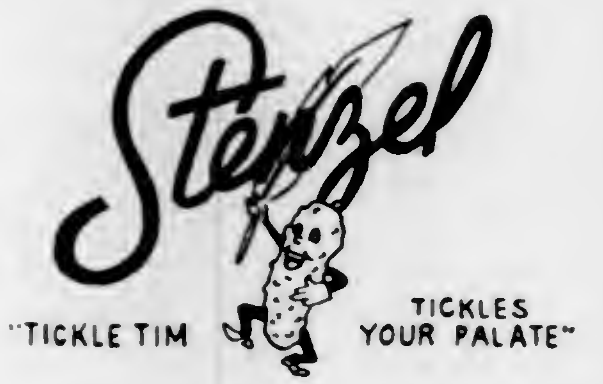
430,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Home Style Foods, Inc., Philadelphia, Pa. Filed Aug. 17, 1946. Serial No. 507,584.

Henry Martin's

FOR FROZEN FRIED CHICKEN CUTLETS AND CHICKEN PATTIES, LOBSTER CUTLETS, SCALLOPS, CRABS, CRAB CAKES, AND CODFISH CAKES.

Claims use since November 1945.

430,533. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Rudolph John Stenzel, doing business as Stenzel Pickle Products and as R. Stenzel Pickle Products, San Leandro, Calif. Filed Aug. 21, 1946. Serial No. 507,756.



FOR SWEET PICKLES, SWEET MIXED PICKLES, DILL PICKLES, SOUR PICKLES, SOUR MIXED PICKLES, CHOW CHOW PICKLES, SWEET SLICED PICKLES, SOUR SLICED PICKLES, SWEET DILL PICKLES, SWEET MUSTARD PICKLES, DILL SLICED PICKLES, CROSS CUT DILL PICKLES, CROSS CUT SOUR PICKLES, CROSS CUT SWEET PICKLES, SWEET BURR GHERKINS, CHILI PEPPERS, PIMIENTO PEPPERS, BELL PEPPERS, ITALIAN STYLE PEPPERS, PREPARED MUSTARD, WORCESTERSHIRE SAUCE, CIDER VINEGAR, DISTILLED VINEGAR, AND SWEET RELISH COMPOSED OF CUCUMBERS, CAULIFLOWER, PEPPERS, VINEGAR, SUGAR AND SPICES; MEXICAN HOT RELISH, COMPOSED OF CUCUMBERS, CAULIFLOWER, PEPPERS, VINEGAR AND SALT; AND HAMBURGER RELISH COMPOSED OF CUCUMBERS, CAULIFLOWER, PEPPERS, VINEGAR, SAUCE, AND SPICES.

Claims use since March 1946.

430,534. (CLASS 27. HOROLOGICAL INSTRUMENTS.) O. Marchand, Inc., New York, N. Y. Filed Aug. 24, 1946. Serial No. 507,987.

MARCHAND

FOR WATCHES AND PARTS THEREOF.

Claims use since Jan. 8, 1946.

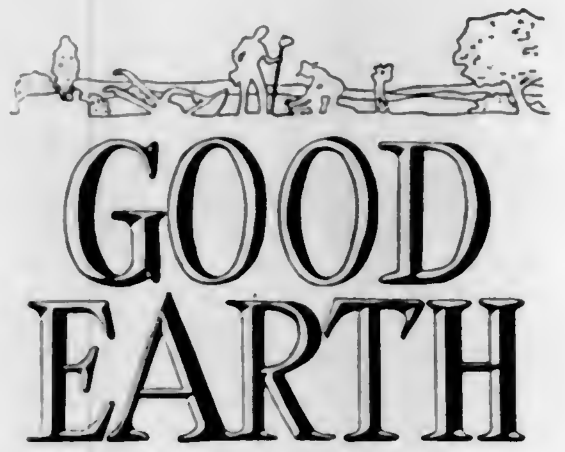
430,535. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) James L. Fouch, doing business as Universal Microphone Company, Inglewood, Calif. Filed Aug. 27, 1946. Serial No. 508,106.

HANDI-MIKE

FOR MICROPHONES.

Claims use since Dec. 1, 1929.

430,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Central Coast Marketing Association, Inc., Watsonville, Calif. Filed Sept. 10, 1946. Serial No. 508,788.



FOR FRESH VEGETABLES.

Claims use since Aug. 9, 1945.

430,537. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Standard Brands Incorporated, New York, N. Y. Filed Sept. 10, 1946. Serial No. 508,823.

SAROMA

FOR FOOD FLAVORING OR SEASONING COMPOSITION, CONTAINING YEAST-VEGETABLE EXTRACT, IN PASTE FORM AND IN LIQUID OR SAUCE FORM AND BOUILLON IN GRANULATED AND IN CUBE FORM.

Claims use since June 30, 1941.

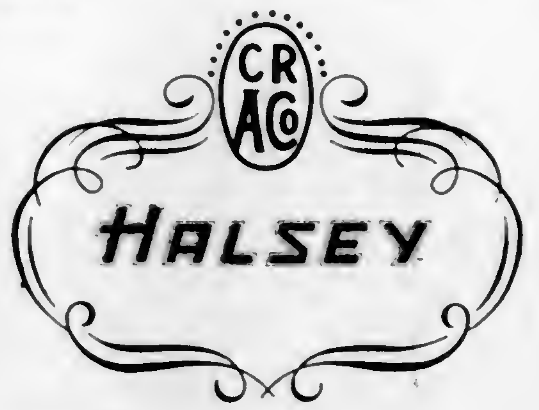
430,538. (CLASS 37. PAPER AND STATIONERY.) Rolla Ball Pen Corporation, New York, N. Y. Filed September 13, 1946. Serial No. 509,036.

ROLBALL

FOR FOUNTAIN PENS.

Claims use since Apr. 19, 1946.

430,539. (CLASS 39. CLOTHING.) C. R. Anthony Co., Oklahoma City, Okla. Filed Sept. 18, 1946. Serial No. 509,264.



FOR MEN'S AND BOYS' HATS.

Claims use since July 1, 1945.

430,540. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) American Bird Products, Inc., Chicago, Ill. Filed Sept. 23, 1946. Serial No. 509,554.

LITTLE
VITTLES

FOR DOG FOOD, COMPRISING WHEAT FLOUR, SOUP BONE STOCK, MEAT EXTRACT, DEXTROSE, COD LIVER OIL, BONE MEAL, AND HYDROLYZED VEGETABLE PROTEINS.

Claims use since June 30, 1946.

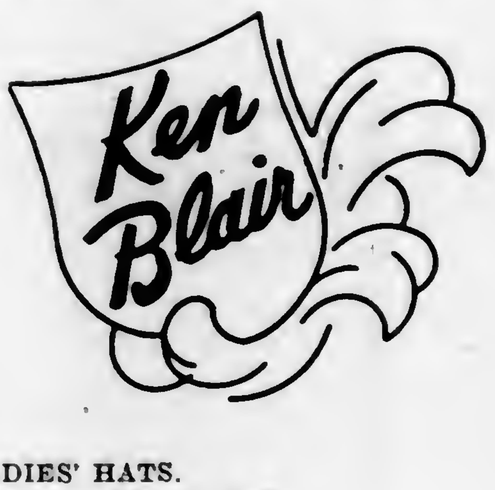
430,541. (CLASS 39. CLOTHING.) Henry Mandelbaum, New York, N. Y. Filed Sept. 26, 1946. Serial No. 509,779.

PETITE PARISIENNE TAILORED BY INWOOD

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS, TOPCOATS, SKIRTS, AND COAT AND SUIT ENSEMBLES.

Claims use since June 1, 1945.

430,542. (CLASS 39. CLOTHING.) Goldstein Millinery Company, Chicago, Ill. Filed Sept. 27, 1946. Serial No. 509,839.



FOR LADIES' HATS.

Claims use since May 1, 1945.

430,543. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ERGOLYTE MANUFACTURING Co., Philadelphia, Pa. Filed Sept. 23, 1946. Serial No. 510,464.

ERGOLYTE MANUFACTURING CO.
ARC
PHILADELPHIA, PENNA.

FOR ELECTRIC ARC WELDING MACHINES.
Claims use since July 19, 1944.

430,544. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 11, 1946. Serial No. 510,689.

HUDSON

FOR LITTER CARRIER TRACK AND SWITCHES; HAY TRACK AND SWITCHES; OVERHEAD CONVEYOR TRACK AND SWITCHES.
Claims use since 1930.

430,545. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HAFT & SONS, INC., Brooklyn, N. Y. Filed Oct. 21, 1946. Serial No. 511,213.

HAFTSON

FOR ELECTRIC EXTENSION CORDS, SOCKETS, PLUGS, CUTOUT SWITCHES, DISPLAY SWITCH BOXES, AND RELAY SWITCHES.
Claims use since Aug. 20, 1945.

430,546. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COSMEX CORP., New York, N. Y. Filed Nov. 2, 1946. Serial No. 511,935.

Teen
Kleen

FOR SKIN LOTION OR WASH ADAPTED TO REMOVE STALE COSMETICS AND IMPURITIES FROM THE SKIN.
Claims use since May 31, 1945.

430,547. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE CURTMAN CO., INC., Providence, R. I. Filed Nov. 25, 1946. Serial No. 513,162.

A
Curtis
Creation

FOR BRACELETS, CHAINS, BROOCHES, LOCKETS, NECKLACES, AND PINS, ALL MADE OF PRECIOUS OR SEMI-PRECIOUS METALS.
Claims use since Mar. 1, 1941.

430,548. (CLASS 31. FILTERS AND REFRIGERATORS.) C. BLUM, doing business as Chase Industrial Refrigerator Equipment & Engineering Co., Norwood, Ohio. Filed Dec. 6, 1946. Serial No. 513,800.

STA-TITE Jr.

FOR INDUSTRIAL REFRIGERATOR DOOR FASTENERS OPERATIVE AUTOMATICALLY UPON CLOSING THE DOOR TO APPLY FORCE FOR MAINTAINING THE DOOR IN TIGHTLY CLOSED CONDITION.
Claims use since on or about June 1, 1933.

430,549. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AMERICAN METALCRAFT CORPORATION, Detroit, Mich. Filed January 7, 1947. Serial No. 515,357.

Autowagon

FOR TOY WAGONS.
Claims use since Mar. 10, 1946.

430,550. (CLASS 39. CLOTHING.) DANBURY RUBBER COMPANY, INC., Danbury, Conn. Filed Feb. 25, 1947. Serial No. 518,447.

DANBURY
D

FOR SHOE SOLES AND HEELS.
Claims use since Oct. 1, 1944.

430,551. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WASHINGTON IRON WORKS, Seattle, Wash. Filed Mar. 18, 1947. Serial No. 519,715.

TRAKLOADER

FOR TRACTOR-MOUNTED LOADING CRANE.
Claims use since July 10, 1945.

TRADE-MARK REGISTRATIONS RENEWED

29,613. **STRATHMORE.** WRITING PAPERS. Registered Mar. 2, 1897. MITTINEAGUE PAPER COMPANY, Mittineague, Mass. Re-renewed Mar. 2, 1947, to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Class 37.

29,815. **"SAYLES BLEACHERY" ETC. AND DESIGN.** FINISHED CLOTHS. Registered Apr. 13, 1897. FRANK ARTHUR SAYLES, Saylesville, R. I. Re-renewed Apr. 13, 1947, to Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y., a corporation of Rhode Island. Class 42.

50,338. **ROYAL WORCESTER.** CORSETS. Registered Mar. 13, 1906. ROYAL WORCESTER CORSET Co. Re-renewed Mar. 13, 1946, to Royal Worcester Corset Co., Worcester, Mass., a corporation of Michigan. Class 39.

50,339. **BON TON.** CORSETS. Registered Mar. 13, 1906. ROYAL WORCESTER CORSET Co. Re-renewed Mar. 13, 1946, to Royal Worcester Corset Co., Worcester, Mass., a corporation of Michigan. Class 39.

52,295. **QUAKER FINISH.** PRINTING-PAPER. Registered May 8, 1906. DILL & COLLINS Co., Philadelphia, Pa. Re-renewed May 8, 1946, to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio. Class 37.

54,135. **"D" IN A DIAMOND-SHAPED FIGURE.** PRINTING AND WRITING PAPER. Registered June 19, 1906. DILL & COLLINS Co., Philadelphia, Pa. Re-renewed June 19, 1946, to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio. Class 37.

55,343. **"D" IN A DIAMOND-SHAPED FIGURE.** CERTAIN NAMED PAPERS. Registered Aug. 14, 1906. DILL & COLLINS Co., Philadelphia, Pa. Re-renewed Aug. 14, 1946, to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio. Class 37.

55,344. **"D" IN A DIAMOND-SHAPED FIGURE.** WRAPPING PAPER. Registered Aug. 14, 1906. DILL & COLLINS Co., Philadelphia, Pa. Re-renewed Aug. 14, 1946, to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio. Class 37.

55,827. **MOLASSINE.** PREPARED FOOD AND COMPOUNDS FOR USE AS AND FOR ADMIXTURE WITH FOOD FOR STOCK. Registered Aug. 21, 1906. THE MOLASSINE COMPANY, LD. Re-renewed Aug. 21, 1946, to The Molassine Company Limited, London, England, a company incorporated under the laws of Great Britain. Class 46.

56,731. **"PEQUOT" AND DRAWING.** COTTON SHEETINGS. Registered Oct. 16, 1906. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass., a corporation of Massachusetts. Re-renewed Oct. 16, 1946. Class 42.

56,750. **KNICKERBOCKER.** MEN'S, WOMEN'S AND CHILDREN'S LEATHER BOOTS AND SHOES. Registered Oct. 16, 1906. E. W. BURT & Co., INC., Boston, Mass. Re-renewed Oct. 16, 1946, to The Selby Shoe Company, Portsmouth, Ohio, a corporation of Ohio. Class 39.

56,775. **"NAUMKEAG" AND DRAWING.** COTTON SHEETINGS. Registered Oct. 16, 1906. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass., a corporation of Massachusetts. Re-renewed Oct. 16, 1946. Class 42.

56,829. **"GEDNEY'S" ETC. AND DRAWING.** PICKLES, PICKLED ONIONS, CATSUP, OLIVES, CHOW-CHOW, MUSTARD, PEPPER-SAUCE, CHILLI-SAUCE, AND VINEGAR. Registered Oct. 23, 1906. THE M. A. GEDNEY PICKLING Co. Re-renewed Oct. 23, 1946, to M. A. Gedney Company, Minneapolis, Minn., a corporation of Minnesota. Class 46.

56,849. **"G HIAWATHA BRAND" AND DRAWING.** PICKLES, PICKLED ONIONS, CATSUP, OLIVES, CHOW-CHOW, MUSTARD, PEPPER SAUCE, CHILLI SAUCE, AND VINEGAR. Registered Oct. 23, 1906. The M. A. Gedney Pickling Co. Re-renewed Oct. 23, 1946, to M. A. Gedney Company, Minneapolis, Minn., a corporation of Minnesota. Class 46.

57,000. **GEDNEY'S.** PICKLES, PICKLED ONIONS, CATSUP, OLIVES, CHOW-CHOW, MUSTARD, PEPPER-SAUCE, CHILLI-SAUCE, AND VINEGAR. Registered Oct. 30, 1906. The M. A. Gedney Pickling Co. Re-renewed Oct. 30, 1946, to M. A. Gedney Company, Minneapolis, Minn., a corporation of Minnesota. Class 46.

57,086. **REPRESENTATION OF A MAN, TENNIS RACKET AND BASEBALL.** IMPLEMENTS, APPARATUS, AND ARTICLES USED IN TENNIS, CRICKET, GOLF, BOWLING, CROQUET, POLO, FIVES, BASE-BALL, FOOT-BALL, LACROSSE, BOXING, FENCING, QUOITS, HAMMER-THROWING AND CERTAIN OTHER GAMES, TOYS, AND SPORTING GOODS. Registered Oct. 30, 1906. Wright & Ditson, Jersey City, N. J., and Boston, Mass. Re-renewed Oct. 30, 1946, to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware. Class 22.

57,749. **"DIAMOND-POINT" AND DESIGN.** SAWS OF ALL KINDS. Registered Nov. 27, 1906. E. C. Atkins & Company, Indianapolis, Ind., New York, N. Y., Memphis, Tenn., Atlanta, Ga., Minneapolis, Minn., Portland, Oreg., etc. Re-renewed Nov. 27, 1946, to E. C. Atkins and Company, Indianapolis, Ind., a corporation of Indiana. Class 23.

57,904. **MULTIGRAPH.** INK AND INKED RIBBONS FOR TYPEWRITERS, PRINTING MACHINES, ETC. Registered Dec. 4, 1906. The American Multigraph Company. Re-renewed Dec. 4, 1946, to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware. Class 11.

58,243. **REPRESENTATION OF A CROWN.** LINEN DAMASKS. Registered Dec. 11, 1906. George William MacCutcheon. Re-renewed Dec. 11, 1946, to John Wanamaker New York, New York, N. Y., a corporation of New York. Class 42.

58,725. **DOYLEMARX.** PIANOS AND ORGANS. Registered Dec. 25, 1906. Martin Doyle Marks, Elmira, N. Y. Re-renewed Dec. 25, 1946. Class 36.

58,946. **MOSS-BACK.** SAWS OF ALL KINDS. Registered Dec. 25, 1906. E. C. Atkins & Company, Indianapolis, Ind., New York, N. Y., Memphis, Tenn., Atlanta, Ga., Minneapolis, Minn., Portland, Oreg., etc. Re-renewed Dec. 25, 1946, to E. C. Atkins and Company, Indianapolis, Ind., a corporation of Indiana. Class 23.

58,950. **REPRESENTATION OF A STAR ON A RED CROSS ETC.** CERTAIN NAMED SURGICAL APPARATUS. Registered Dec. 25, 1906. The Hospital Supply Company, New York, N. Y. Re-renewed Dec. 25, 1946, to The Ohio Chemical & Mfg. Co., Cleveland, Ohio, a corporation of Delaware. Class 44.

59,225. **"OWL OIL GARFIELD" AND REPRESENTATION OF OWL.** LINIMENT FOR EXTERNAL USE. Registered Jan. 1, 1907. Garfield Tea Co., New York and Brooklyn, N. Y. Re-renewed Jan. 1, 1947, to Garfield Tea Co., Brooklyn, N. Y., a corporation of New York. Class 6.

59,484. **"GALVANIZED WIRE" AND DRAWING.** CARDS FOR CARDING COTTON. Registered Jan. 8, 1907. L. S. Watson Manuf'g. Co. Re-renewed Jan. 8, 1947, to Watson-Williams Mfg. Co., Leicester, Mass., a corporation of Massachusetts. Class 23.

59,625. **"LILY" ETC. AND REPRESENTATION OF LILY WITHIN A CIRCLE.** SHOE AND GLOVE LEATHER. Registered Jan. 15, 1907. Surpass Leather Company, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Jan. 15, 1947. Class 1.

59,629. **CELLULOID.** PLASTICS COMPOSED IN PART OF PYROXYLIN OR SOLUBLE COTTON. Registered Jan. 15, 1907. The Celluloid Company, New York, N. Y., and Newark, N. J. Re-renewed Jan. 15, 1947, to Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Class 1.

60,248. **REMINGTON.** SHOT-GUNS, PISTOLS, REVOLVERS, AND RIFLES. Registered Jan. 29, 1907. Remington Arms Company, New York and Ilion, N. Y. Re-renewed Jan. 29, 1947, to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware. Class 9.

60,449. **TEXODERM.** FIBROUS MATERIALS COVERED, COATED, OR IMPREGNATED WITH A PLASTIC COMPOUND WHICH CONSISTS OF A BASE OF PYROXYLIN INCORPORATED WITH SOLVENTS AND OTHER SOLID MATERIALS. Registered Feb. 12, 1907. The Celluloid Company, New York, N. Y., and Newark, N. J. Re-renewed Feb. 12, 1947, to Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Class 1.

61,050. **"EMPERORS" AND DESIGN.** TEA. Registered Mar. 5, 1907. Chase & Sanborn, Boston, Mass. Re-renewed Mar. 5, 1947, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Class 46.

61,191. **EBONITE.** DYESTUFFS. Registered Mar. 5, 1907. American Dyewood Company, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Mar. 5, 1947. Class 6.

61,278. **"ROCK SPRING" ETC. AND DESIGN.** MINERAL WATERS. Registered Mar. 12, 1907. Jacob Ries. Re-renewed Mar. 12, 1947, to Jacob Ries Bottling Works, Inc., Shakopee, Minn., a corporation of Minnesota. Class 45.

61,493. **"REDLEAF" AND ILLUSTRATION OF TWO LEAVES.** BROAD SILKS, DRESS-SILKS, AND PIECE SILK. Registered Mar. 26, 1907. John Wanamaker. Re-renewed Mar. 26, 1947, to John Wanamaker Philadelphia, Philadelphia, Pa., a corporation of Pennsylvania. Class 42.

61,660. **WALLACE.** CANDY. Registered Apr. 2, 1907. Wallace & Co., New York, N. Y. Re-renewed Apr. 2, 1947, to Wallace & Co., Brooklyn, N. Y., a corporation of New Jersey. Class 46.

61,758. **PELLITOL.** OINTMENTS. Registered Apr. 2, 1907. Pitman-Myers Company. Re-renewed Apr. 2, 1947, to Allied Laboratories, Inc., doing business as Pitman-Moore Co., Indianapolis, Ind., a corporation of Delaware. Class 6.

61,834. **A FIGURE HAVING PARALLEL TOP AND BOTTOM LINES AND TWO OUTWARDLY CURVED ENDS.** LOCKS AND PARTS THEREOF AND KEYS. Registered Apr. 9, 1907. The Yale & Towne Mfg. Co., Stamford, Conn. Re-renewed Apr. 9, 1947, to The Yale & Towne Manufacturing Company, New York, N. Y., a corporation of Connecticut. Class 25.

61,837. **STANDARD.** LOCKS AND PARTS THEREOF AND KEYS THEREFOR. Registered Apr. 9, 1907. The Yale & Towne Mfg. Co., Stamford, Conn. Re-renewed Apr. 9, 1947, to The Yale & Towne Manufacturing Company, New York, N. Y., a corporation of Connecticut. Class 25.

61,875. **REPRESENTATION OF A BADGE WITH RIBBON.** WHEAT-FLOUR. Registered Apr. 9, 1907. George Urban Milling Company, Buffalo, N. Y., a corporation of New York. Re-renewed Apr. 9, 1947. Class 46.

61,876. **LOTUS.** WHEAT-FLOUR. Registered Apr. 9, 1907. George Urban Milling Company, Buffalo, N. Y., a corporation of New York. Re-renewed Apr. 9, 1947. Class 46.

61,877. **IROQUOIS.** WHEAT-FLOUR. Registered Apr. 9, 1907. George Urban Milling Company, Buffalo, N. Y., a corporation of New York. Re-renewed Apr. 9, 1947. Class 46.

61,878. **"LAFAYETTE FLOUR" ETC. AND PICTURE OF LAFAYETTE.** WHEAT-FLOUR. Registered Apr. 9, 1907. George Urban Milling Company, Buffalo, N. Y., a corporation of New York. Re-renewed Apr. 9, 1947. Class 46.

61,924. **LILLY.** MEDICINAL FLUID EXTRACTS, TINCTURES, SOLID EXTRACTS, POWDERED EXTRACTS, CONCENTRATIONS, OLEORESINS, ALKALOIDAL EXTRACTS, ELIXIRS, SUGAR-COATED, CHOCOLATE-COATED, GELATIN-COATED PILLS AND TABLETS, AND CERTAIN OTHER PHARMACEUTICAL PREPARATIONS. Registered Apr. 9, 1907. The Eli Lilly & Company. Re-renewed Apr. 9, 1947, to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana. Class 6.

61,955. **RADWAYS' READY RELIEF.** A REMEDY FOR RHEUMATISM, NEURALGIA, NERVOUS COMPLAINTS, MALARIOUS COMPLAINTS, AND ALL BODILY ACHES AND PAINS. Registered Apr. 9, 1907. Radway & Company. Re-renewed Apr. 9, 1947, to Radway & Co. Inc., New York, N. Y., a corporation of New York. Class 6.

61,995. **REPRESENTATION OF AN ARMORED KNIGHT ON HORSEBACK.** MALT EXTRACT. Registered Apr. 16, 1907. Malt-Diastase Company, Brooklyn, N. Y., a corporation of New York. Re-renewed Apr. 16, 1947. Class 48.

210,189. **"VAREX" ETC. AND DRAWING.** MEDICINAL PREPARATIONS FOR HUMAN USE IN THE TREATMENT OF BAD LEGS, VARICOSE ULCERS, AND KINDRED COMPLAINTS. Registered Mar. 9, 1926. Ernest Healy, Foxton, Wellington, New Zealand. Renewed Mar. 9, 1946, to Ernest Healey, Sydney, Australia. Class 6.

214,195. **GRACELINE.** HAND BAGS. Registered June 15, 1926. L. J. & M. Lefkowitz, Inc. Renewed June 15, 1946, to Graceline Handbags, Inc., New York, N. Y., a corporation of New York. Class 3.

215,324. **"GABA-TABLETTEN" AND DESIGN.** VOICE AND THROAT TABLETS. Registered July 13, 1926. Gaba A. G., Basel, Switzerland, a corporation of Switzerland. Renewed July 13, 1946. Class 6.

215,331. **"GABA" AND DESIGN.** VOICE AND THROAT TABLETS. Registered July 13, 1926. Gaba A. G., Basel, Switzerland, a corporation of Switzerland. Renewed July 13, 1946. Class 6.

215,499. **ARMADA.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered July 20, 1926. Ventura Citrus Association, Ventura, Calif., a corporation of California. Renewed July 20, 1946. Class 46.

216,101. **SLATER MAID.** COTTON PIECE GOODS. Registered Aug. 3, 1926. S. Slater & Sons, Inc., Webster, Mass. Renewed Aug. 3, 1946, to Slater Manufacturing Co., Inc., Slater, S. C., and Greensboro, N. C., a corporation of Delaware. Class 42.

217,017. **WASH RITE.** LAUNDRY NETS. Registered Aug. 24, 1926. American Mills Company. Renewed Aug. 24, 1946, to American Associated Companies, Inc., Atlanta, Ga., a corporation of Georgia. Class 2.

217,066. **"OH BOY" ETC. AND DRAWING.** FRESH ORANGES AND GRAPEFRUIT. Registered Aug. 24, 1926. Standard Growers Exchange, Orlando, Fla. Renewed Aug. 24, 1946, to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of Delaware. Class 46.

217,067. **"NIGGER BABY" ETC. AND DRAWING.** FRESH ORANGES AND GRAPEFRUIT. Registered Aug. 24, 1926. Standard Growers Exchange, Orlando, Fla. Renewed Aug. 24, 1946, to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of Delaware. Class 46.

217,768. **EKCOMOOR.** LADIES' OUTER COATS. Registered Sept. 7, 1926. Edward Krieger & Co., Inc. Renewed Sept. 7, 1946, to Edward Krieger, New York, N. Y. Class 39.

217,992. **WONDER WEAR.** LAUNDRY NETS. Registered Sept. 14, 1926. American Mills Company. Renewed Sept. 14, 1946, to American Associated Companies, Inc., Atlanta, Ga., a corporation of Georgia. Class 2.

218,361. **TWI-LITE.** ELECTRIC-LIGHT SWITCHES. Registered Sept. 28, 1926. McGill Manufacturing Company, Inc., Valparaiso, Ind., a corporation of Indiana. Renewed Sept. 28, 1946. Class 21.

218,823. **LUMINITE.** WALL-PAPER PRINT ROLLERS AND BLOCKS. Registered Oct. 5, 1926. Frederick P. Dustan, Buffalo, N. Y. Renewed Oct. 5, 1946, to Luminite Products Corporation, Salamanca, N. Y., a corporation of New York. Class 23.

219,224. **"GEX".** LIQUID MEASURING AND DISPENSING DEVICES. Registered Oct. 12, 1926. Joseph Jean Marie Gueux, Paris, France. Renewed Oct. 12, 1946, to Joseph Jean Marie Gueux, Ivry (Seine), France. Class 26.

219,321. **"THE HERCULES GAS ENGINE CO." ETC. AND DRAWING.** GAS ENGINES. Registered Oct. 19, 1926. The Hercules Corporation, doing business as The Hercules Gas Engine Co., Evansville, Ind. Renewed Oct. 19, 1946, to Hercules Motors Corporation, Canton, Ohio, a corporation of Ohio. Class 23.

219,360. **"DICTATE TO THE DICTAPHONE" AND DRAWING.** PHONOGRAPHS, MACHINES FOR PHONOGRAPHICALLY RECORDING, MACHINES FOR PHONOGRAPHICALLY REPRODUCING, MACHINES FOR PHONOGRAPHICALLY RECORDING AND REPRODUCING DICTATION OR OTHER SOUNDS, SOUND RECORDS, SOUND-RECORD BLANKS AND THEIR INDIVIDUAL CONTAINERS, ELECTRICALLY-OPERATED PHONOGRAPHIC SOUND RECORDING AND REPRODUCING MACHINES, HEARING TUBES, HEAD SETS, SPEAKING TUBES, AND EARPIECES FOR USE WITH PHONOGRAPHS, METRONOMES, AND PARTS OF THE ABOVE. Registered Oct. 19, 1926. Dictaphone Corporation, Bridgeport, Conn., a corporation of New York. Renewed Oct. 19, 1946. Class 36.

219,711. **"COTY PARIS" AND DRAWING.** PERFUME, TOILET WATER, FACE POWDER, COMPACT POWDER, SACHET POWDER, TALCUM POWDER, BRILLIANTINE, LOTION FOR THE SKIN AND HAIR, AND ROUGE. Registered Oct. 19, 1926. Coty, Inc., Wilmington, Del., and New York, N. Y. Renewed Oct. 19, 1946, to Coty, Inc., New York, N. Y., a corporation of Delaware. Class 6.

219,817. **"WOLETTA,".** CIGARS, CIGARETTES, CHEWING, SMOKING, AND LEAF TOBACCO. Registered Oct. 26, 1926. A. Harris Limited, Glasgow, Scotland, a corporation of Great Britain. Renewed Oct. 26, 1946. Class 17.

219,836. **RIVER BELLE.** FRESH FRUITS—NAMELY, PEARS, APPLES, PEACHES, PLUMS; FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Oct. 26, 1926. Earl Fruit Company. Renewed Oct. 26, 1946, to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of Delaware. Class 46.

220,550. **KASHMALINA.** WOOLEN PIECE GOODS. Registered Nov. 9, 1926. Forstmann & Huffmann Company. Renewed Nov. 9, 1946, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Class 42.

220,552. **"QUALITY INN" ETC. AND DESIGN.** COFFEE, TEA, COCOA, AND RICE. Registered Nov. 9, 1926. Sorver, McEvoy & Co., Philadelphia, Pa., a firm. Renewed Nov. 9, 1946. Class 46.

220,707. **CHEST O' GOLD.** CANDY PUT UP IN PACKAGES CONTAINING A PRIZE. Registered Nov. 16, 1926. The Folly Town Company, Chicago, Ill., a corporation of Illinois. Renewed Nov. 16, 1946. Class 46.

220,753. **VERLAINE.** COTTON VOILE IN THE PIECE. Registered Nov. 16, 1926. Marshall Field & Company, Chicago, Ill., a corporation of Illinois. Renewed Nov. 16, 1946. Class 42.

220,838. **ADMIRATION.** COTTON VOILE IN THE PIECE. Registered Nov. 16, 1926. Marshall Field & Company, Chicago, Ill., a corporation of Illinois. Renewed Nov. 16, 1946. Class 42.

220,847. **REPRESENTATION OF A CROSSCUT SAW.** CROSSCUT SAWS. Registered Nov. 16, 1926. E. C. Atkins and Company, Indianapolis, Ind., a corporation of Indiana. Renewed Nov. 16, 1946. Class 23.

220,874. **AMAZO.** DYESTUFFS. Registered Nov. 16, 1926. American Dyewood Company, New York, N. Y., a corporation of Pennsylvania. Renewed Nov. 16, 1946. Class 6.

221,438. **A REPRESENTATION OF HAND HOLDING A FLOWER.** YARNS. Registered Nov. 30, 1926. Patons & Baldwins, Limited, Alloa, Scotland, and Halifax, England. Renewed Nov. 30, 1946, to Patons & Baldwins, Limited, Halifax, England, a United Kingdom corporation. Class 43.

221,657. **"NIELCO" AND DESIGN.** CLEANSING COMPOUND IN POWDERED FORM. Registered Dec. 7, 1926. Claudius Nielsen, doing business as Nielco Products Co., Detroit, Mich. Renewed Dec. 7, 1946. Class 4.

221,826. **"PROXIMITY" AND REPRESENTATION OF A KEY.** COTTON DRILLINGS AND SHIRTINGS. Registered Dec. 14, 1926. Cone Export & Commission Company. Renewed Dec. 14, 1946, to Cone Export and Commission Co., Inc., New York, N. Y., a corporation of New York. Class 42.

222,485. **POMPEIAN.** MAYONNAISE AND SALAD DRESSINGS. Registered Jan. 4, 1927. American Mayonnaise Corporation. Renewed Jan. 4, 1947, to Pompeian Olive Oil Corporation, Baltimore, Md., a corporation of Maryland. Class 46.

222,575. **"THOROBREDS" ETC. AND DRAWING.** FRESH FRUITS AND VEGETABLES. Registered Jan. 4, 1927. Standard Growers Exchange, Orlando, Fla. Renewed Jan. 4, 1947, to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of Delaware. Class 46.

222,647. **E Z.** ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. Registered Jan. 4, 1927. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Renewed Jan. 4, 1947, to American Manufacturing Company, Brooklyn, N. Y., a corporation of Massachusetts. Class 7.

223,110. **"WHITE LILAC" AND REPRESENTATION OF LILACS.** TEA, COFFEE, AND COCOA. Registered Jan. 18, 1927. Consolidated Tea Company, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 18, 1947. Class 46.

223,213. **HALF AND HALF.** SMOKING AND CHEWING TOBACCO AND CIGARETTES. Registered Jan. 18, 1927. The American Tobacco Company, New York, N. Y., a corporation of New Jersey. Renewed Jan. 18, 1947. Class 17.

223,214. **"LUCKY STRIKE HALF AND HALF" ETC. AND DRAWING.** SMOKING AND CHEWING TOBACCO AND CIGARETTES. Registered Jan. 18, 1927. The American Tobacco Company, New York, N. Y., a corporation of New Jersey. Renewed Jan. 18, 1947. Class 17.

223,338. **"PEDINOL" ETC. AND REPRESENTATION OF A WOMAN ETC.** CHIROPODISTS' SUPPLIES—NAMELY, FOOT POWDER, FOOT LOTION, HEALING OINTMENT, AND FOOT CREAM. Registered Feb. 1, 1927. Harry L. Goldwag, doing business as Pedinol Products Co., New York, N. Y. Renewed Feb. 1, 1947. Class 6.

223,347. **ORMONT.** RUBBING ALCOHOL, LINIMENTS, MEDICATED OINTMENTS FOR SKIN AFFLICTIONS, BAY RUM, HAIR TONICS, TOILET CREAMS, TOILET POWDERS, DEPILATORIES, TOOTH PASTE, LAXATIVES, BLOOD AND NERVE TONICS, AND COUGH REMEDIES. Registered Feb. 1, 1927. Ormont Drug & Chemical Co. Inc., Long Island City, N. Y., a corporation of New York. Renewed Feb. 1, 1947. Class 6.

223,765. **SUPERWORTH.** MEN'S AND BOY'S COATS, SUITS, AND HOSIERY. Registered Feb. 8, 1927. Nebraska Clothing Company, Omaha, Nebr., a corporation of Nebraska. Renewed Feb. 8, 1947. Class 39.

224,199. **REPRESENTATION OF TUBULAR CORES COLORED TO PROVIDE CONCENTRIC SECTIONS IN RED AND GRAY ETC.** VARNISHED CLOTH, PAPER, AND SILK IN SQUARE-YARD AND TAPE FORM FOR ELECTRICAL INSULATION PURPOSES. Registered Feb. 22, 1927. Irvington Varnish & Insulator Co., Irvington, N. J., a corporation of New Jersey. Renewed Feb. 22, 1947. Class 21.

224,320. **SILVR-COOL.** ALUMINUM PAINT, ALUMINUM-PAINT UNDERCOATER OR PRIMER. Registered Feb. 22, 1927. Detroit Graphite Company. Renewed Feb. 22, 1947, to Detroit Graphite Company, Detroit, Mich., a corporation of Delaware. Class 16.

224,490. **"HUSKIE" AND REPRESENTATION OF A DOG.** NARROW WOVEN AND BRAIDED ELASTICS. Registered Mar. 1, 1927. The Narrow Fabric Co., Reading and West Reading, Pa., a corporation of Pennsylvania. Renewed Mar. 1, 1947. Class 40.

224,528. **EASY-TITE.** NONMETALLIC FAUCET CUSHIONS AND WASHERS. Registered Mar. 1, 1927. J. A. Sexauer Mfg. Co., Inc., New York, N. Y., a corporation of New York. Renewed Mar. 1, 1947. Class 35.

224,643. **QUEEN.** MANICURE SETS, NAIL FILES, NAIL BUFFERS, ORANGE-WOOD STICKS, TWEEZERS, SCISSORS, NIPPERS, CORN KNIVES, CUTICLE KNIVES, MANICURE HANDLE PIECES, AND NAIL CLIPS. Registered Mar. 1, 1927. C. J. Bates & Son, Chester, Conn., a firm. Renewed Mar. 1, 1947. Class 44.

224,796. **"EMULSOL" AND HEAVY UNDER LINE.** EMULSIFYING EGG PRODUCT FOR MAYONNAISE DRESSING. Registered Mar. 8, 1927. The Emulsol Corporation, Chicago, Ill., a corporation of Illinois. Renewed Mar. 8, 1947. Class 46.

225,038. **"SUNNY CRISP" AND DESIGN.** CANDY. Registered Mar. 8, 1927. Charles N. Miller Co., Boston, Mass., a corporation of Massachusetts. Renewed Mar. 8, 1947. Class 46.

225,070. **THE CLEVELAND GROCER.** MONTHLY MAGAZINE. Registered Mar. 8, 1927. Cleveland Retail Grocers Association, Cleveland, Ohio, an association of Ohio. Renewed Mar. 8, 1947. Class 38.

225,139. **CHRISTMAS CLUB.** MAGAZINE ISSUED QUARTERLY. Registered Mar. 15, 1927. Christmas Club, a corporation, New York, N. Y., a corporation of New York. Renewed Mar. 15, 1947. Class 38.

225,178. **"REAL SPORT" AND REPRESENTATION OF POLO PLAYERS.** COATS, RIDING BREECHES AND KNICKERBOCKERS FOR MEN AND WOMEN; DRESS AND NEGLIGEE SHIRTS, LONG TROUSERS, VESTS, AND SUITS FOR MEN AND WOMEN. Registered Mar. 15, 1927. Real Sport Clothing Company. Renewed Mar. 15, 1947, to Samuel Caplin, doing business as Real Sport Clothing Company, Philadelphia, Pa. Class 39.

225,244. **"EMERALD" AND REPRESENTATION OF AN EMERALD.** WALNUTS IN THE SHELL PACKED IN BAGS OR BOXES OR SHELLED WALNUTS PACKED IN TIN CANS OR BOXES. Registered Mar. 15, 1927. California Walnut Growers Association, Los Angeles, Calif., a corporation of California. Renewed Mar. 15, 1947. Class 46.

225,419. **"R O CO" WITHIN A PAIR OF CIRCLES.** SPECTACLES. Registered Mar. 15, 1927. Riggs Optical Company-Consolidated, Omaha, Nebr. Renewed Mar. 15, 1947, to Riggs Optical Company-Consolidated, Chicago, Ill., a corporation of Delaware. Class 26.

225,457. **OKOCAL.** MINERAL OIL TO BE USED IN COMPOUNDS FOR MAKING IMPREGNATED-PAPER-INSULATED ELECTRIC CABLES. Registered Mar. 22, 1927. The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey. Renewed Mar. 22, 1947. Class 6.

225,569. **"SELECT MILLS" ETC. AND DESIGN.** HOSIERY. Registered Mar. 22, 1927. Abe Herskowitz, Oklahoma City, Okla. Renewed Mar. 22, 1947. Class 39.

225,570. **VIVANI.** TOILET ARTICLES, PREPARATIONS, AND PRODUCTS—NAMELY, ROUGE, FACIAL PREPARATIONS AND BLEACHES, PREPARATIONS AND TONICS FOR THE HAIR, COMPACTS, TOILET AND FACE CREAMS, AND CERTAIN OTHER CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. Registered Mar. 22, 1927. Benjamin Ansehl, doing business as Benjamin Leland & Company. Renewed Mar. 22, 1947, to The Benjamin Ansehl Company, St. Louis, Mo., a corporation of Missouri. Class 6.

225,884. **SATIN BORGIA.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered Mar. 29, 1927. Cheney Brothers, South Manchester, Conn., a corporation of Connecticut. Renewed Mar. 29, 1947. Class 42.

226,042. **OFLYO.** INSECTICIDES. Registered Mar. 29, 1927. American Disinfecting Company. Renewed Mar. 29, 1947, to Adco, Inc., Sedalia, Mo., a corporation of Missouri. Class 6.

226,043. **OBUGO.** INSECTICIDES AND DISINFECTANTS. Registered Mar. 29, 1927. American Disinfecting Company. Renewed Mar. 29, 1947, to Adco, Inc., Sedalia, Mo., a corporation of Missouri. Class 6.

226,044. **NO-TRAX.** PREPARATIONS FOR POLISHING WOOD FLOORS, LINOLEUMS, OILCLOTHS, AND OTHER LIKE FLOOR COVERINGS. Registered Mar. 29, 1927. American Disinfecting Company. Renewed Mar. 29, 1947, to Adco, Inc., Sedalia, Mo., a corporation of Missouri. Class 16.

226,045. **DYO.** DISINFECTANTS AND GERMICIDES. Registered Mar. 29, 1927. American Disinfecting Company. Renewed Mar. 29, 1947, to Adco, Inc., Sedalia, Mo., a corporation of Missouri. Class 6.

226,047. **WEEVILGO.** INSECTICIDES. Registered Mar. 29, 1927. American Disinfecting Company. Renewed Mar. 29, 1947, to Adco, Inc., Sedalia, Mo., a corporation of Missouri. Class 6.

226,048. **SOLPO.** DISINFECTANTS AND GERMICIDES. Registered Mar. 29, 1927. American Disinfecting Company. Renewed Mar. 29, 1947, to Adco, Inc., Sedalia, Mo., a corporation of Missouri. Class 6.

226,061. **CHENAIRE.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered Mar. 29, 1927. Cheney Brothers, South Manchester, Conn., a corporation of Connecticut. Renewed Mar. 29, 1947. Class 42.

226,096. **"ALEXANDER'S" AND REPRESENTATION OF A NEGRO MINSTREL WITH BANJO.** FRESH VEGETABLES—NAMELY, TOMATOES, LETTUCE POTATOES, CAULIFLOWER, CELERY, BEETS; FRESH DECIDUOUS FRUITS—NAMELY, PEACHES, APPLES, PEARS, PLUMS, APRICOTS, CHERRIES; FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. Registered Mar. 29, 1927. Alexander Marketing Company, San Benito, Tex., a corporation of Texas. Renewed Mar. 29, 1947. Class 46.

226,306. **"CORINNE" AND DESIGN.** WEARING APPAREL FOR WOMEN AND MISSES—NAMELY, SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF, GLOVES OF LEATHER, RUBBER, FABRIC AND COMBINATIONS THEREOF, CORSETS, GIRDLES, BRASSIÈRES, AND UNDERWEAR OF TEXTILE MATERIAL. Registered Apr. 5, 1927. Stix, Baer and Fuller Company, St. Louis, Mo., a corporation of Missouri. Renewed Apr. 5, 1947. Class 39.

226,309. **MEADOWS.** WASHING MACHINES. Registered Apr. 5, 1927. The Meadows Manufacturing Co., Bloomington, Ill. Renewed Apr. 5, 1947, to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois. Class 24.

226,322. **ARTFOLD.** PRINTING PAPER. Registered Apr. 5, 1927. S. D. Warren Company, Boston, Mass., a corporation of Massachusetts. Renewed Apr. 5, 1947. Class 37.

226,343. **COON CHICKEN.** SPECIAL KIND OF CHICKEN SANDWICH OR CHICKEN SANDWICH DINNER. Registered Apr. 5, 1927. M. L. Graham, Salt Lake City, Utah. Renewed Apr. 5, 1947, to M. L. Graham, Seattle, Wash. Class 46.

226,367. **"BIG TREE BRAND" AND REPRESENTATION OF TREE.** CEMENT. Registered Apr. 5, 1927. Calaveras Cement Company, San Francisco, Calif., a corporation of Delaware. Renewed Apr. 5, 1947. Class 12.

226,377. **P. D. Q.** FEEDS AND FEEDSTUFFS FOR HORSES, MULES, DAIRY CATTLE, POULTRY, AND SWINE. Registered Apr. 5, 1927. Ferncliff Feed & Grain Co., Louisville, Ky., a corporation of Kentucky. Renewed Apr. 5, 1947. Class 46.

226,484. **HUNTING AND FISHING.** MONTHLY MAGAZINE. Registered Apr. 12, 1927. National Sportsman, Inc., Boston, Mass., a corporation of Maine. Renewed Apr. 12, 1947. Class 38.

226,521. **"SCHOEN'S FERTILIZERS" ETC. AND DRAWING.** FERTILIZERS. Registered Apr. 12, 1927. Schoen Brothers, Inc., Atlanta, Ga., a corporation of Georgia. Renewed Apr. 12, 1947. Class 10.

226,547. **MANSION OF PIRU.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Apr. 12, 1927. Piru Citrus Association, Piru, Calif., a corporation of California. Renewed Apr. 12, 1947. Class 46.

226,551. **PRISCILLA.** WORSTED AND WOOL YARN. Registered Apr. 12, 1927. Priscilla Worsted Mills, Inc., Thornton, R. I., a corporation of Rhode Island. Renewed Apr. 12, 1947. Class 43.

226,552. **"PRISCILLA WORSTED MILLS" AND REPRESENTATION OF WOMAN AT SPINNING WHEEL ETC.** WORSTED AND WOOL YARN. Registered Apr. 12, 1927. Priscilla Worsted Mills, Inc., Thornton, R. I., a corporation of Rhode Island. Renewed Apr. 12, 1947. Class 43.

226,553. **REPRESENTATION OF A WOMAN AT SPINNING WHEEL ETC.** WORSTED AND WOOL YARN. Registered Apr. 12, 1927. Priscilla Worsted Mills, Inc., Thornton, R. I., a corporation of Rhode Island. Renewed Apr. 12, 1947. Class 43.

226,592. **AMERICAN EXPORTER.** MONTHLY PUBLICATIONS. Registered Apr. 12, 1927. Johnston Export Publishing Co., New York, N. Y., a corporation of New York. Renewed Apr. 12, 1947. Class 38.

226,638. **"KOMI".** COTTON THREAD. Registered Apr. 12, 1927. Bay State Thread Works, Springfield, Mass., a corporation of Massachusetts. Renewed Apr. 12, 1947. Class 43.

230,237. **"PRODUCER" AND DRAWING.** WHEAT FLOUR. Registered July 19, 1927. Russell-Miller Milling Co. Renewed July 19, 1947, to Russell-Miller Milling Co., Minneapolis, Minn., a corporation of Delaware. Class 46.

230,238. **"CORAZON DE ORO" AND DRAWING.** WHEAT FLOUR. Registered July 19, 1927. Russell-Miller Milling Co. Renewed July 19, 1947, to Russell-Miller Milling Co., Minneapolis, Minn., a corporation of Delaware. Class 46.

REISSUES

JUNE 10, 1947

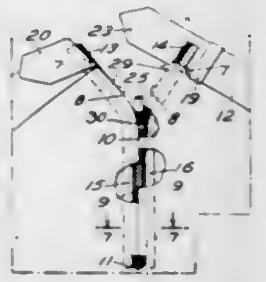
22,888

GARMENT FASTENING DEVICE

Emanuel Di Ianni, Norristown, Pa.

Original No. 2,407,969, dated September 17, 1946, Serial No. 563,869, November 17, 1944. Application for reissue February 21, 1947, Serial No. 729,901

3 Claims. (Cl. 2—234)



1. A garment fastening device for the upper edge portion of a garment whereby smoothness and freedom from wrinkles are substantially attained, comprising the combination of a nether garment having an elongated substantially vertical opening and an attached belt forming the upper edge of said garment, said belt being peripherally effectively of greater extent than such garment and terminating at each end in free tabs arranged for overlapping relation in closing said opening, said opening being delineated in part at least by flexible flaps formed of the material of the garment each extending vertically from the lower end of the opening to termination vertically above and close to the lower edge of said belt peripherally spaced from the tab ends, two slide fastener parts including stringers seamed respectively inwardly of and behind the respective flaps and of a length such as to extend from the bottom of said opening upwardly across the upper terminations of the respective flaps to termination vertically below the upper edge of said belt and peripherally spaced from the respective tab ends, a locking slide for said parts arranged when in locked relation to be disposed vertically between the upper terminations of the flaps and the upper edge of the belt and transversely between the overlapping tabs, said belt and slide fastener parts so arranged that when the latter are locked the tabs conceal the locking element and adjacent portions of the slide fastener parts above the lower edge of the belt while the flaps conceal the slide fastener parts from a point just inside of the lower edge of the belt to the bottom of the opening, while the entire tensile strain of the belt is taken by said locked slide fasteners in the peripheral line of the belt.

PLANT PATENTS

GRANTED JUNE 10, 1947

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

737

ROSE PLANT

Robert G. Jelly, Richmond, Ind., assignor to The E. G. Hill Company, Richmond, Ind., a corporation of Indiana

Application May 31, 1946, Serial No. 673,312

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by its extremely long, gracefully pointed bud, of delicate pink color with brilliant yellow base; the deeper pink coloring of the full blown flower and its very large size; the upright growth of the plant with dark green foliage and its habit of producing such flowers singly on long, stiff stems, substantially as shown and described.

738

ROSE PLANT

Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application April 22, 1946, Serial No. 663,867

1 Claim. (Cl. 47—61)

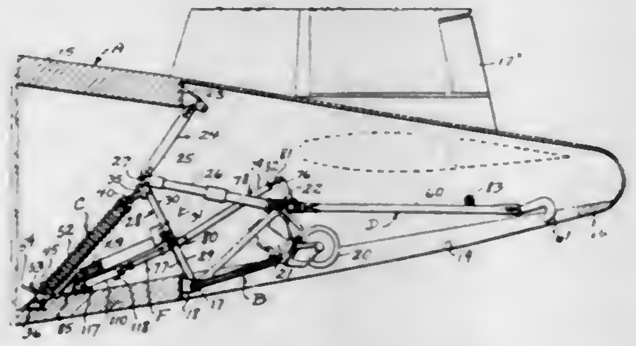
A new and distinct variety of Rose plant of the hybrid tea class, characterized as to novelty dominantly by the color combination of its flowers and greater number of petals per bloom as compared with its parent variety, substantially as shown and described.

PATENTS

GRANTED JUNE 10, 1947

2,421,739
AIRCRAFT TAIL SUPPORT AND ARRESTING MEMBER

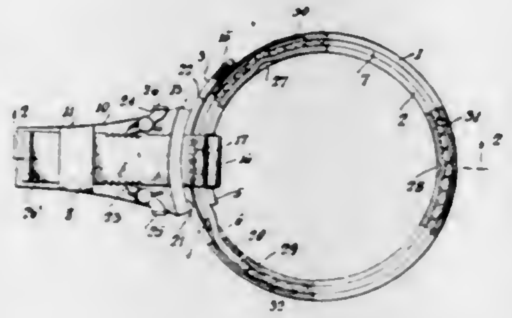
Franklin C. Albright, San Marino, Calif., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application February 11, 1942, Serial No. 430,462
18 Claims. (Cl. 244—110)



1. In combination with an aircraft fuselage, a pivoted tail support comprising a substantially triangular frame including upper and lower frame members extending downwardly and rearwardly from the fuselage, a ground engaging member carried by the frame, at the distal end portion of the lower frame member, and a trailing arresting member including a forward end portion pivotally secured to the tail support frame at the distal end portion of the upper frame member.

2,421,740
BAG HOLDER

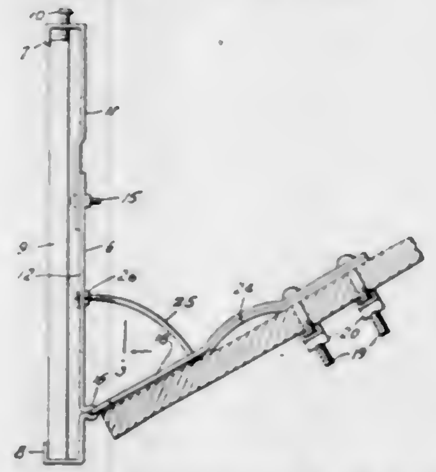
Stephen Birch, Jr., Mahwah, N. J.
Application August 17, 1944, Serial No. 549,904
4 Claims. (Cl. 248—101)



1. A bag holder comprising an outer ring, an inner ring for engaging the inner wall surface of the mouth of a bag and holding the bag open with its wall between said outer and inner rings, adjustable means supporting said outer ring, means pivotally connected with said adjustable supporting means and engaging said inner ring so as to enable raising of said inner ring with respect to said outer ring, means supporting said adjustable supporting means, said second named supporting means having an abutment for arresting the movement of said outer ring in respect to said second named supporting means, and means for holding said adjustable supporting means in an adjusted position with respect to said second named supporting means.

2,421,741
SIGN HOLDER AND SUPPORT

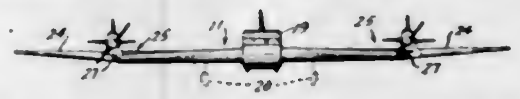
Benjamin Floyd Bloss, Chillicothe, Mo., assignor of fifty per cent to Louis Austin, Chillicothe, Mo.
Application November 17, 1943, Serial No. 510,695
2 Claims. (Cl. 40—125)



2. A sign holder comprising a pair of upright members, channel-shaped flanges at the upper and lower ends of the members and arranged in opposed relation for receiving the upper and lower edges of a sign, a bearing member adjacent the bottom of each member, an arm having an angular end pivotally mounted in each bearing, said arms extending horizontally rearwardly from their respective uprights, means carried by the arms for attaching to a supporting structure, arcuate braces connecting the arms to their associated uprights, and adjusting means for each brace for adjusting the braces in accordance with the slope of the supporting structure to maintain the uprights in a vertical position.

2,421,742
COMPOSITE AIRCRAFT

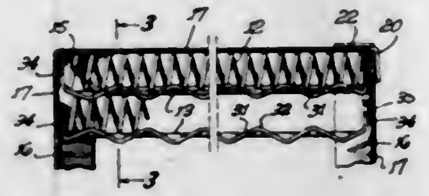
Otto A. Buettner, Pittsburgh, Pa.
Application September 3, 1943, Serial No. 501,089
3 Claims. (Cl. 244—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a motorless monoplane glider adapted to be carried aloft by a pair of powered monoplanes with the fore and aft axes of all three aircraft lying parallel and having the same directional orientation, said monoplane glider comprising a fuselage and right and left wing sections, said wing sections each being provided with a recess in the top surface thereof extending through the wing tip and toward the said fuselage for a distance sufficient to accommodate substantially an entire wing section of one of said powered monoplanes therein, complementary detachable connecting means carried on the underside of the wing sections of said powered monoplanes and in the recessed portions of the said monoplane glider wing sections for securing one wing section of each of said pair of powered monoplanes to one each of said monoplane glider wing sections with the central fore and aft axis of each powered monoplane lying adjacent to the opposite wing tips of the said monoplane glider, release of said complementary detachable connection means releasing said monoplane glider from said powered monoplanes for independent airborne operation.

2,421,743
METAL SCREEN

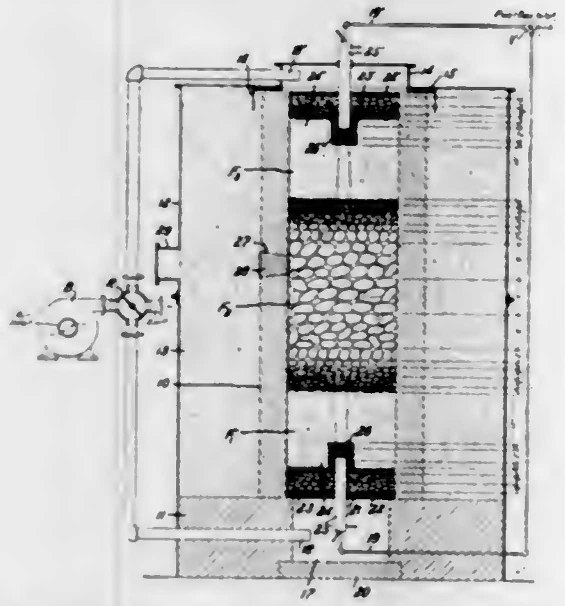
William G. Cartter and Harold A. Duffy, Monrovia, Calif.
Application June 30, 1944, Serial No. 542,866
5 Claims. (Cl. 189—82)



1. A foraminous screen comprising: a channel frame having straight side legs, a series of wire coil sections arranged parallel and in substantially the same plane across said frame with their end portions confined in the channels of said frame side legs, and partitioning ribbons having channel-like portions disposed between said wire coil sections and partially confining said sections between adjacent ribbons.

2,421,744
GAS REACTION FURNACE

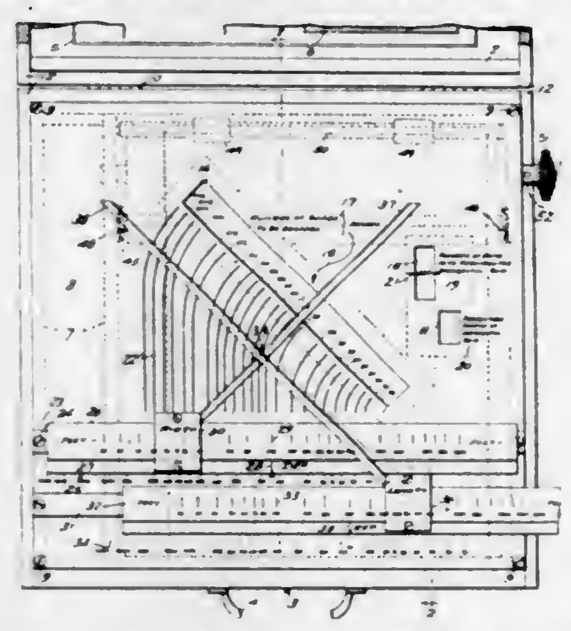
Farrington Daniels, William G. Hendrickson, and Frank M. Wolf, Madison, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin
Application August 16, 1943, Serial No. 498,896
8 Claims. (Cl. 23—277)



1. A furnace of the "pebble bed" type for the thermal treatment of gases, comprising a substantially tubular wall constituting a shaft, a series of transverse beds of refractory filling supported in said shaft said series including a centrally disposed bed of relatively large refractory objects and beds above and below said centrally disposed bed of relatively small refractory objects, said shaft and filling being so constructed and arranged as to provide spaces above and below said filling, reversible means for alternately directing gases to traverse said shaft filling into said spaces, and reversible means arranged to feed fluid fuel to said centrally disposed bed alternately from above and from below the latter, said fuel feeding means including elongated fluid fuel-injecting devices extending from said spaces toward said centrally disposed bed transversely of and at least partly through said beds of relatively small refractory objects.

2,421,745
COMPUTER FOR SOLVING BOMBING PROBLEMS

George B. Dantzig, Arlington, Va.
Application September 16, 1942, Serial No. 458,585
20 Claims. (Cl. 235—86)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



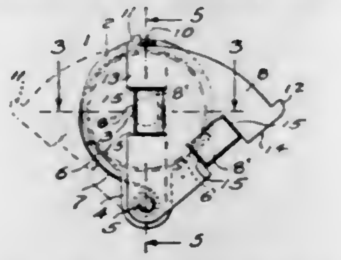
1. A computer comprising a pair of superposed relatively movable members, one of said members having thereon an index mark and also a row of value-representing characters, the latter extending transversely with respect to the direction of relative movement of the members, and the other of said members having two separate groups of value-indicating characters arranged thereon so that during relative movement of the members the characters of one group align successively with the said index mark while the characters of the other group register with the said row of value-representing characters, the characters of the said one group being arranged in a single column extending in parallelism with the direction of relative movement of the members and the characters of the said other group being arranged in several approximately straight lines parallel to each other and obliquely disposed with respect to the direction of relative movement of the members, each line including only characters of a constant value which is a function of the values of a given value-representing character on the index-carrying member and a selected value-indicating character of the column on the other member when the said selected character is aligned with the said index mark.

2,421,746
MASKING ATTACHMENT FOR PHOTOGRAPHIC CAMERAS

Charles Hugh Duffy, Miami, Fla.
Application December 21, 1944, Serial No. 569,174
21 Claims. (Cl. 95—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A camera lens attachment for masking a portion of the normal field of view from a camera lens so that a portion only of a camera film will be exposed upon an exposure operation of a camera shutter, which includes a base-plate having means for centering the same on and in front of

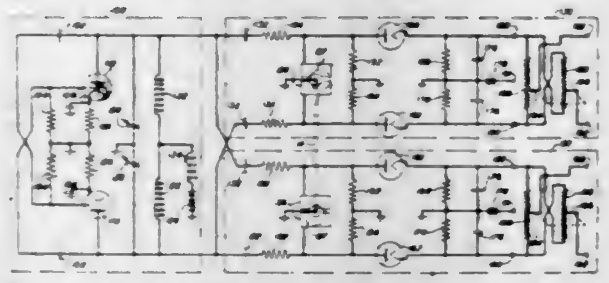
the barrel of a camera lens, and provided with a lens-stop opening to admit light rays to a camera lens, means cooperating with the base-plate centering means for attaching the base-plate to the barrel of a camera lens, a mask, means for pivoting the mask on the base-plate so that the mask may swing on its pivot in front of the base-plate and the lens-stop opening therein, a stop on the base-plate and means on the mask cooperating with said stop to limit the swing of said mask from side to side, said mask including two outwardly and angularly formed portions which are adapted to be successively brought into position in front of the said lens-stop opening upon swinging movement of the mask on its pivot the



effective edges of the said outwardly and angularly formed portions lying in a plane in front of the lens stop opening in the base plate, whereby said effective edges cooperate with the lens stop opening in the base plate to effect a masking of the field of view and control the extent of the masking of the camera film upon lateral adjustment of the said outwardly and angularly formed portions, the whole arranged so that the normal field of view to one side of its center is masked from the camera lens and film by one of the said outwardly and angularly formed portions of the mask and the normal field of view to the opposite side of its center is masked from the camera lens and film by the other of the said outwardly and angularly formed portions of the mask.

2,421,747
OBJECT LOCATING SYSTEM

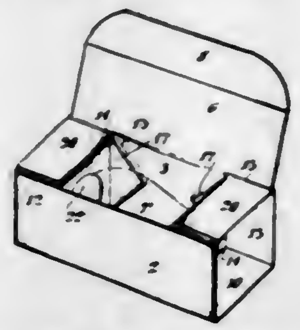
George B. Engelhardt, Hartsdale, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 14, 1943, Serial No. 494,666
11 Claims. (Cl. 250—1.62)



6. In an object locating system of the type in which an exploratory sharply directive pulsed energy beam is turned to scan an area, reflections of said beam from objects within said area are received, and a pattern of indications is obtained on an indicator in which pattern each object is represented by an indication at an angle from a center point corresponding to its azimuth angle with respect to the position of the exploratory means and at a distance from said center point which is proportional to the object's distance from said exploratory means, means for expanding a portion of said pattern which includes means for displacing the center point of said pattern from the center point of the indicator and means for expanding the radial sweep of said indicating means whereby a desired portion of said pattern is expanded to provide a more detailed view thereof.

2,421,748
MERCHANDISE CARTON

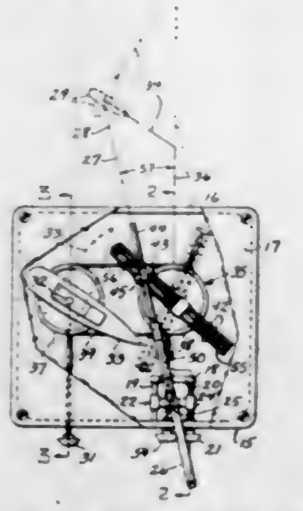
Raymond E. Fink, Foxon, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated, a corporation of Connecticut
Application May 30, 1944, Serial No. 537,985
14 Claims. (Cl. 229—6)



1. An improved carton folder comprising enclosing panels providing a tubular body, and an end closure for said tubular body comprising an end wall panel in-set within the tubular body and hingedly connected to two of said enclosing panels by bellows fold portions, each of said bellows fold portions comprising a main bellows section and a complementary bellows section, each of said main bellows sections being hinged to the adjacent end of the adjacent enclosing panel and adapted to overlie the inside face thereof, said main bellows section presenting an outer part extending from the end of the enclosing panel section to the plane of the erected end wall panel and an inner section extending inwardly beyond the plane of the erected end wall panel, said complementary bellows section being hinged to the inner end of said main bellows section and to the adjacent side edge of the end wall panel and adapted to overlie only the inner part of said main bellows section when the end wall panel is in erect position.

2,421,749
TORPEDO DIRECTOR

Robert M. Freeman, United States Navy
Application August 10, 1942, Serial No. 454,295
6 Claims. (Cl. 33—46.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

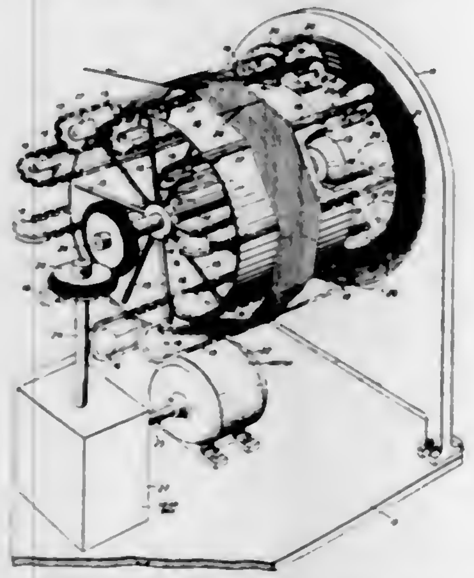


1. In a torpedo carrying aircraft, a torpedo director comprising a firing sight mounted at one end on a horizontally adjustable vertical pivot, a horizontal arm mounted on a second vertical pivot aligned with said horizontal adjustable pivot and having a pivoted guide radially adjustable thereon, the other end of said firing sight being slidably connected in said guide, a vertically pivoted artificial target offset from said firing sight and adapted to be manually adjusted parallel

with an objective target by eye, a belt connecting pulleys connected to said arm and said artificial target for maintaining parallel alignment therebetween, and gyroscopic means for automatically stabilizing the artificial target in any selected position relative to the target course.

2,421,750
MAGNETIC WIRE STORAGE UNIT

Danforth K. Gannett, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 20, 1944, Serial No. 569,088
3 Claims. (Cl. 28—71.6)

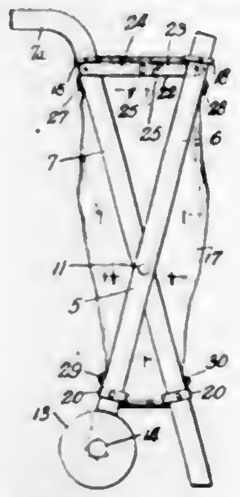


1. In a strand storing device for storing a strand having message material impressed thereon and required to be delivered from storage in the same directional sense in which it is received in storage, a rotatable shaft, means for driving said shaft, a cylindrical drum carried by said shaft for rotation therewith to receive and deliver strand material, a plurality of endless conveyers carried by said drum in radial planes with respect to said drum and having their outer and inner runs disposed exteriorly and interiorly respectively of said drum and parallel to the axis thereof, a pair of sprockets for supporting each of said conveyers, a guide channel for the outer run of each of said conveyers carried by said drum, a plurality of anti-friction rolls carried by said conveyer and adapted to engage said guide channel for free movement of said conveyers with respect to said channels while supporting strand material under tension, a pinion gear secured to each of the sprockets at one end of said drum, and a stationarily mounted helical track engageable in common by said pinions for imparting continuous rotation thereto during rotation of said drum whereby to shift turns of strand material received on said drum axially thereof from a strand receiving plane.

2,421,751
COLLAPSIBLE SHOPPING CART

Michael Giordano, Brooklyn, N. Y.
Application July 25, 1944, Serial No. 546,456
3 Claims. (Cl. 280—41)

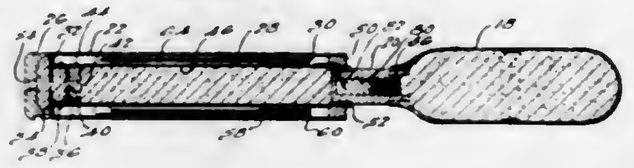
1. A collapsing shopping device, consisting of a pair of folding side frames, each frame consisting of side bars pivotally connected to each other midway of their ends, one side bar of each frame having a ground wheel and the other side bar having a lower end adapted to have frictional bearing engagement with the ground and provided with a handle on its upper end, folding braces connecting the side frames to each other,



and a shopping receptacle supported on and between the two side frames.

2,421,752
ROCKET PROJECTILE

Hilten E. Jones, Detroit, Mich., assignor to Eureka Williams Corporation, a corporation of Michigan
Application February 22, 1943, Serial No. 476,719
1 Claim. (Cl. 102—38)



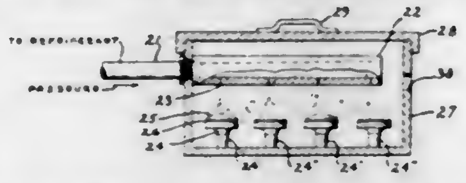
Fixed ammunition comprising a case, a projectile comprising a bomb having a tail and fin assembly disposed in said case, said case being adapted to be muzzle-loaded in a hand firearm and having an explosive charge adapted to be fired by the firing mechanism of the firearm for expelling said projectile from said case, said tail of said projectile having a powder charge therein adapted to be ignited by the firing of said explosive charge and functioning after the discharge of said projectile from said case to generate gas which is discharged rearwardly from said projectile in such a way as to propel said projectile as a rocket through the air along the trajectory on which it was started by the firing of said explosive charge, said fin assembly being operative for directing said projectile along said trajectory, said bomb having a firing pin operable for discharging the same, said firing pin being actuated by contact of said bomb with an object so as to explode said bomb and a safety connection between said pin and tail adapted to be released by the heat generated by the burning of said powder charge.

2,421,753
MEANS FOR UNBLOCKING LENSES

William J. Joyce, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application February 18, 1942, Serial No. 431,404
2 Claims. (Cl. 62—104)

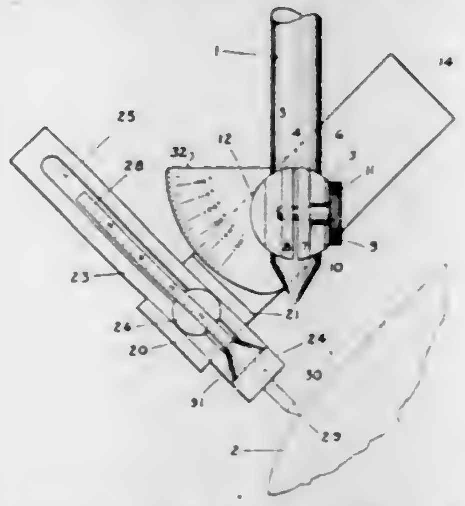
1. In a lens unblocking device the combination of a supply of refrigerant held under pressure, an expansion chamber, a feed line leading from said supply of refrigerant and connected to the chamber, discharge means within the chamber communicating with the feed line and including one or more nozzles, a lens block positioned in

alignment with each nozzle and so arranged that the outer surface of a lens secured thereto will be exposed directly to the discharge of such nozzle and the refrigerant may expand adjacent the lens so as to introduce a chilling action upon said surface of the lens.



2,421,754
PITCHOMETER ATTACHMENT

William E. Little and William S. McKinstry, Richmond, Calif.
Application September 14, 1945, Serial No. 616,432
1 Claim. (Cl. 33—174)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

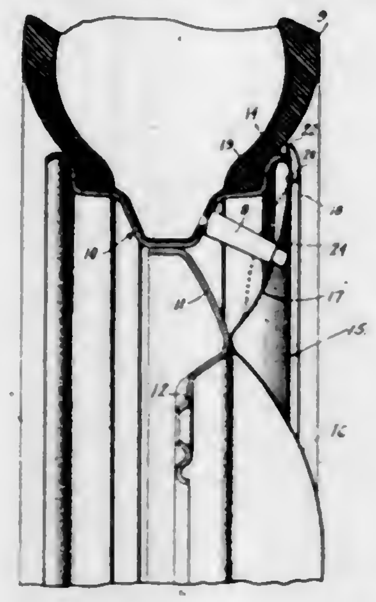


A pitchometer rod attachment comprising a split clamping collar slidably fitted circumjacent a pitchometer rod, means engaging opposite portions of the split clamping collar to maintain the collar in adjusted position on the pitchometer rod, an arm member pivotally mounted on the collar to pivot in a plane parallel to the longitudinal axis of the pitchometer rod and having a transverse channel formed in its outer end portion, a protractor plate supported on the clamping collar to measure angles between the pitchometer rod and the arm member, a gauge rod holder having an elongated longitudinal opening formed therein slidably mounted in the transverse channel of the arm member having an angular extension with an opening provided therein, an adjustment bolt positioned within the elongated opening of the holder and engaging the arm member to permit the securing of the slidably mounted holder in adjusted position, a graduated rod slidably supported in the opening in the angular extension of the holder substantially parallel to the holder and at right angles to the longitudinal axis of the arm member, and indicating means mounted in spaced relation to the graduated rod.

2,421,755
WHEEL COVER

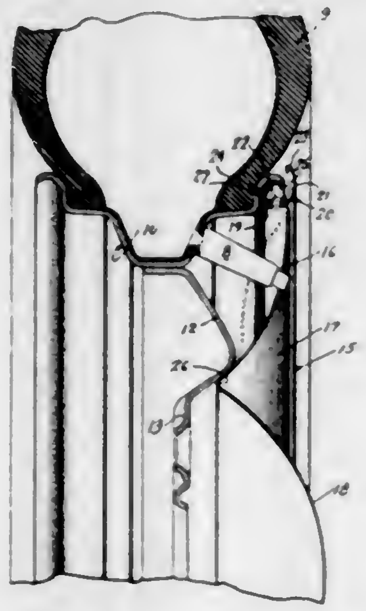
George Albert Lyon, Allenhurst, N. J.
Application November 1, 1943, Serial No. 508,464
4 Claims. (Cl. 301—37)

1. As an article of manufacture, a circular wheel cover member of resilient, deformable plastic material and which resists permanent deformation by springing back to normal position after deflection thereof, said cover member having a re-enforcing annular metallic bead secured to the outer margin thereof, one of said members having resilient axially rearwardly extending wheel attachment means, and said members being interlocked by fingers on one member extending through apertures in the other member, the interlocked junction of said members comprising a rigid annular area relative to which the cover member is flexible in an axial direction radially inward thereof.



2,421,756
VEHICLE WHEEL COVER

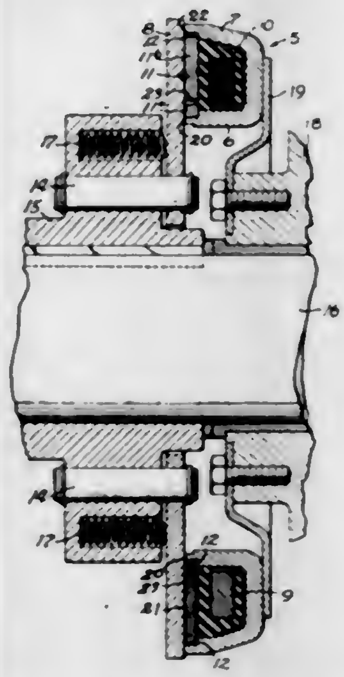
George Albert Lyon, Allenhurst, N. J.
Application November 1, 1943, Serial No. 508,467
7 Claims. (Cl. 301—37)



1. In a wheel structure including a multiflange rim and a body for supporting the rim, a wheel cover of plastic material having an outer margin turned axially rearwardly into the form of an annular skirt disposed adjacent an outermost flange of the rim, and a reinforcing outer annular metallic bead located over the outermost flange of the rim and extending therebeyond so as to be adjacent the tire carried by the rim, said bead having an inner margin formed into a skirt telescoped by the skirt on the cover and suitably anchored thereto, the double thickness of material established by the two skirts also providing a base for retaining fingers formed on the bead and affording resilient slidably engaging shoulders arranged for snap-on pry-off engagement with the outermost flange of the tire rim.

2,421,757
ELECTROMAGNETIC FRICTION DEVICE

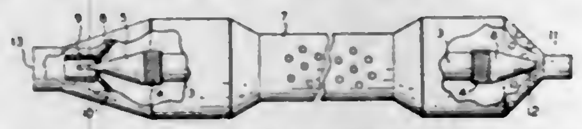
John George Oetzel, Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, Beloit, Wis., a corporation of Illinois
Application April 7, 1944, Serial No. 529,937
4 Claims. (Cl. 188—164)



1. In an electromagnetic friction device, a magnet adapted for axial gripping engagement with a flat annular armature surface and comprising inner and outer concentric annular pole pieces providing axially facing end surfaces radially spaced apart, and non-magnetic friction material supported between said pole pieces and having a gripping face disposed substantially in the plane of the outer one of said end surfaces but spaced axially of the magnet a few thousandths of an inch above the end surface of the inner pole piece so as to prevent actual mechanical contact between the latter surface and the armature surface during the first few energizations of said magnet and thereafter allow actual mechanical contact.

2,421,758
HIGH-POWER RADIO-FREQUENCY AIR-CALORIMETER-WATTMETER

Paul J. Ovrebo, Dayton, Ohio
Application September 25, 1945, Serial No. 618,592
4 Claims. (Cl. 201—63)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

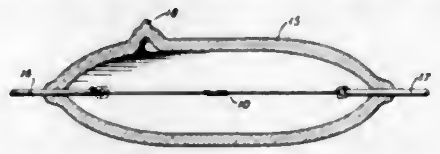


1. In an airflow - calorimeter - wattmeter, a load unit comprising a resistor within a hydrogen-filled container and forming the center conductor of a coaxial line, and an outer conductor for said line having openings therein to enable flow of air past said resistor.

2,421,759
RESISTOR

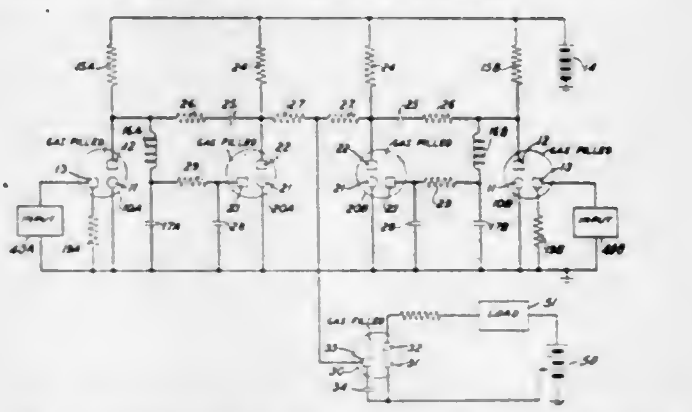
Gerald L. Pearson, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 5, 1944, Serial No. 517,061
2 Claims. (Cl. 201—63)

1. A high resistance-temperature coefficient resistor having high sensitivity to applied power and comprising a fine filament of quartz having a diameter of the order of a few mils to a fraction of a mil, a layer of high resistance-temperature coefficient resistance material of a thickness comparable to the diameter of said filament adhering to an intermediate portion of said filament and forming a continuous band therearound, and films of metallic, conductive material coating the remainder of the filament, said films making contact respectively with opposite edges of the band of resistance material.



2,421,760
ELECTRICAL CONTROL CIRCUIT

George H. Rockwood, Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 13, 1944, Serial No. 530,917
9 Claims. (Cl. 315—269)



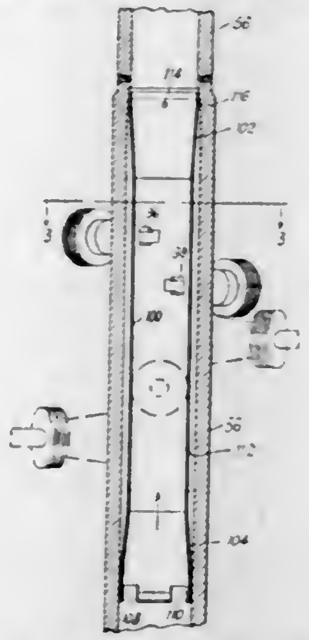
1. An electrical control circuit comprising a gaseous discharge device having a cathode, an anode defining a main gap with said cathode and a control electrode defining a control gap with said cathode, a load circuit connected to said anode, a direct current source connected to said anode and control electrode for applying thereto biasing potentials sufficient to render said device conducting, the potential applied to said anode being below the breakdown potential of said main gap, a normally non-conducting electronic rectifier connected to said source and in circuit with said main gap and effective when conducting to render said device non-conducting, a condenser in parallel with said rectifier, means including a high resistance connecting said condenser in circuit with said control gap, and means for rendering said rectifier conducting.

2,421,761
ATTEMPERATOR

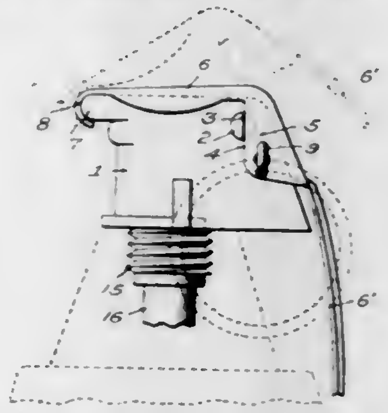
Will H. Rowand, Madison, and Lyle B. Schueler and Paul R. Loughin, Westfield, N. J., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application October 10, 1941, Serial No. 414,446
11 Claims. (Cl. 261—116)

1. A spray type desuperheater including an attemperator chamber receiving superheated steam, a tubular liner spaced from the wall of the chamber, a plurality of spray nozzles of differing water atomizing capacities disposed within the chamber, and means connecting the spray nozzles to a source of water under a pressure higher than the pressure of the steam, the nozzles being disposed interiorly of the liner so that

contact of water with a wall of the chamber will be limited, the arrangement being such that additional nozzles can be cut in as the need for a steam cooling agent increases.



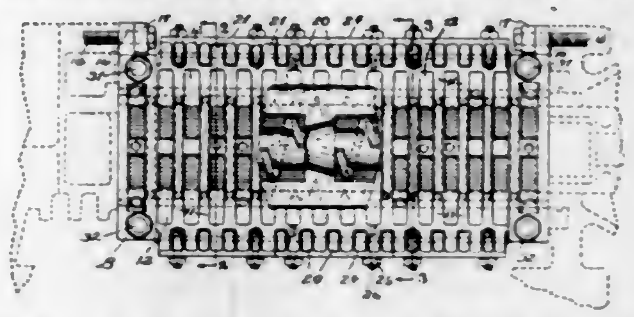
2,421,762
HAND GRENADE
Frank Short, Canton Center, Conn.
Application August 24, 1944, Serial No. 551,048
2 Claims. (Cl. 102—64)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



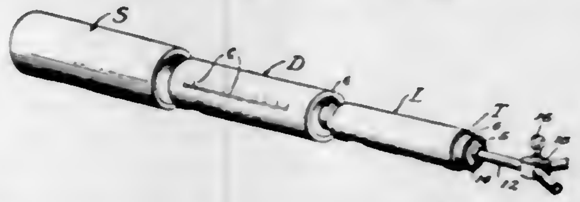
1. In combination with the bouchon of a hand grenade having a lateral extension upon which the safety lever fulcrums in being thrown from the grenade, a safety lever having oppositely disposed ears embracing a portion of the sides of the bouchon and a hook engaging said extension, a hammer pin spanning the space between the sides of the bouchon with its ends extended beyond said sides and positioned to be engaged by said ears of the lever to hold, in cooperation with said hook, the lever against lateral movement on the bouchon in the direction of said extension, after said lever has been released from the bouchon and before the grenade is thrown.

2,421,763
PRESS CAGE
Forrest C. Simon, Piqua, Ohio, assignor to The French Oil Mill Machinery Co., Piqua, Ohio
Application June 9, 1944, Serial No. 539,423
9 Claims. (Cl. 100—50)

1. In a press cage which has an apertured wall bounding a pressing chamber and is divided longitudinally into separable sections, the improved means for separably securing said sections together comprising lugs disposed in spaced relation along contiguous edges of said sections with the lugs on one section overlapping the lugs on the adjacent section, said overlapping lugs having open-sided notches which extend across the outer edges of the lugs and are alineable lengthwise of said edges of said sections, and a locking bar which is removably secured in said alined notches and locks the overlapping lugs together.



2,421,764
AFFIXING CHARACTERS TO TRANSPARENT DRUMS
Joseph L. Swallow, Lombard, Ill., assignor to Wells-Gardner & Co., Chicago, Ill., a corporation of Illinois
Application October 23, 1944, Serial No. 560,083
4 Claims. (Cl. 41—33)

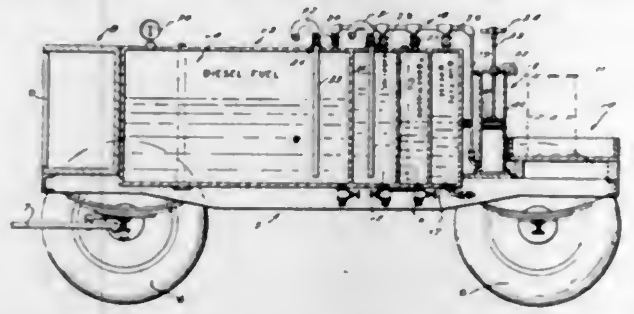


1. The method of adhering characters to the interior surface of a transparent preformed drum which comprises the steps of fitting a tubular decalcomania label over a radially expansible mounting tube prior to expansion, expanding the mounting tube slightly outwardly in a radial direction against the surrounding decalcomania label to secure the one firmly to the other, wetting the outer surface of the decalcomania label, relatively advancing within the drum in spaced relation therewith the slightly expanded mounting tube with the wetted decalcomania label thereon to a desired position for transfer of the decalcomania characters to the drum, further expanding the mounting tube in a radial outward direction to press the tubular decalcomania label against the interior surface of the drum for adhesion thereto, and contracting the mounting tube to produce a spaced relation separation of the mounting tube from the characters transferred from the decalcomania label to the interior of the drum to permit removal of the drum and remaining parts of the label without contact with the characters transferred to the drum and without affecting the rigid form of the drum.

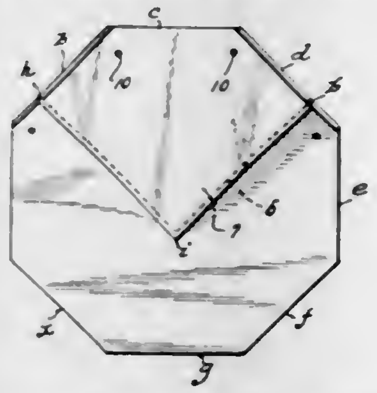
2,421,765
PORTABLE MULTIPLE COMPARTMENT LIQUID DISPENSING SYSTEM
Lloyd B. Taylor, Farmington, N. Mex.
Application April 27, 1944, Serial No. 533,068
1 Claim. (Cl. 222—135)

A servicing trailer for tractors and the like including a portable tank divided into at least two liquid containing compartments, liquid delivery pipes extending through the top wall of at least two such compartments and extending into each such compartment to a point near the bottom wall thereof, a shut-off valve near the upper end of each delivery pipe, a dispensing hose attached to each delivery pipe beyond its respective

shut-off valve, each compartment having a filling opening in its top wall, removable filler caps sealing each filling opening, an air supply pipe disposed above the tank and having a branch pipe leading into the top of each compartment, a shut-off valve in each branch pipe, a pump adjacent the tank and a pipe connecting the pressure end of the pump with the air supply pipe whereby air may be injected into the compartments above the contents thereof and a pressure head built up therein for forcing the contents of the compartments out through a dispensing hose when the valve in its respective discharge pipe is opened.



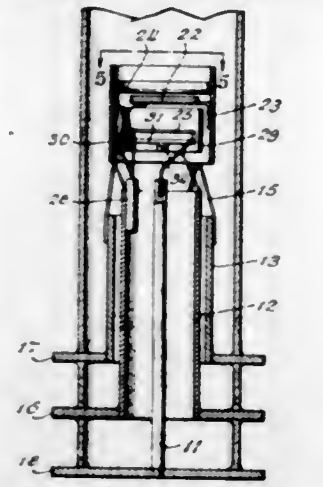
2,421,766
INTERLOCKING SHINGLE
Grover C. Turman, Key West, Fla.
Application May 11, 1943, Serial No. 486,557
2 Claims. (Cl. 108—8)



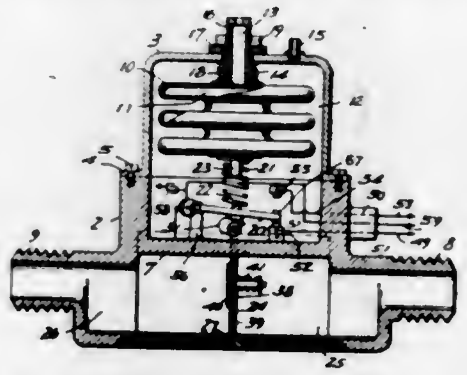
1. A roof covering structure comprising a plurality of courses of similar plate-like shingles, each shingle having two downwardly diverging and downwardly and inwardly beveled edges on the upper portion thereof and being provided with a thickened upper portion defining a depending right angular shoulder on the under side of the shingle, said shoulder having downwardly converging and downwardly and outwardly beveled sides, the beveled edges of each shingle interlocking with adjacent beveled sides of the shoulders of two adjacent shingles in the succeeding course and the beveled sides of the shoulder of each shingle interlocking with adjacent beveled edges of two adjacent shingles in the preceding course so that each shingle is interlocked with other shingles on four sides or with two shingles in the preceding course and two in the succeeding course to provide a rigid self-sustaining structure.

2,421,767
ELECTRODE STRUCTURE
Sigurd F. Varian, Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc., a corporation of New York
Application November 30, 1945, Serial No. 632,032
14 Claims. (Cl. 250—27.5)

1. A cathode structure comprising a pair of coaxial members having a pair of corresponding adjacent ends, a filament having its ends supported respectively from said member ends, said filament extending beyond said members, whereby said coaxial members may serve as leads for supplying current to said filament, a cylindrical member mounted in coaxial relationship with and surrounding said coaxial members and filament, an emitting surface supported by said cylindrical member and adapted to be heated by said filament, whereby said cylindrical member may serve as a lead for supplying current to said emitting surface, a hollow metal cylinder mounted concentrically to said coaxial members and within said cylindrical member and surrounding said filament, whereby electron discharge from said filament in a radial direction to said cylindrical member is prevented, a metal disc mounted perpendicularly and concentrically to said coaxial members and on the side of said filament opposite from said emitting surface, whereby electron discharge from said filament axially in a direction away from said emitting surface is minimized.

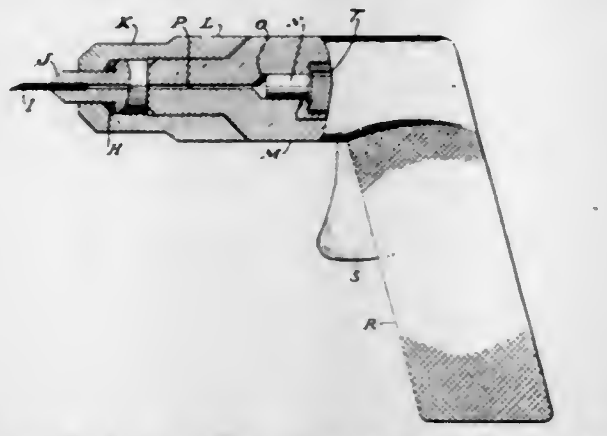


2,421,768
FUEL FLOW WARNING DEVICE
Jesse Voliazzo, Thomasville, Ga., and Vincent Medveckus, Venice, Fla.
Application June 29, 1945, Serial No. 602,244
9 Claims. (Cl. 177—311)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In a fuel system, a carburetor, a fuel source, a fuel feed line connecting the fuel source with the carburetor and including a fuel feed pump, opposed force-exerting means one of which is operatively connected with the carburetor to exert a force which is a function of the air flow through the carburetor and the other of which is operatively connected to the fuel line between the pump and the fuel source to exert a force which is a function of the fuel flow between the pump and the fuel source, and a signal circuit having a circuit-control switch operatively connected with the said opposed force-exerting means to be maintained in circuit-open position when the opposed forces are equal and to be moved to close the circuit when the said forces are unbalanced.

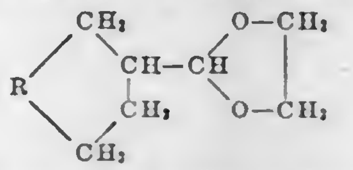
2,421,769
METHOD OF EXPANDING HOLLOW FASTENERS
Richard C. Wolfe, Middletown, R. I.
Application October 9, 1943, Serial No. 505,638
1 Claim. (Cl. 218—29)



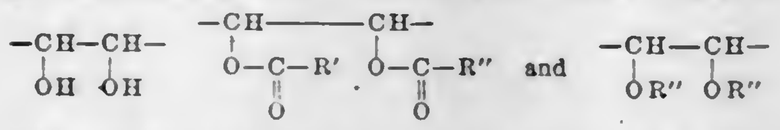
The method of expanding a hollow fastener having a closed end on the shank thereof and a head having a restricted passage into said hollow shank, said method comprising providing a tool having a cartridge receiving chamber, a restricted passage leading from the cartridge receiving chamber and ending in a portion receivable in the restricted passage in said rivet head, placing said restricted portion of the tool in said restricted portion of the rivet head, and exploding said cartridge while pressing said tool into said restricted opening whereby the gases formed by the explosion pass into the hollow rivet to expand the same.

2,421,770
ACETAL COMPOUNDS
Joseph E. Bludworth and Donald P. Easter, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application September 19, 1944, Serial No. 554,859
4 Claims. (Cl. 260—338)

1. Acetals of the following general formula:



wherein R is a divalent radical selected from the group consisting of $-CH{=}CH-$, $-CH_2-CH_2-$,

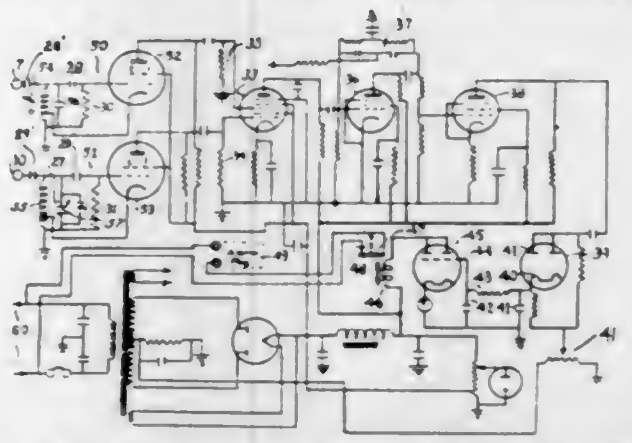


$$-\underset{|\atop \mathrm{OH}}{\mathrm{CH}}-\underset{|\atop \mathrm{OH}}{\mathrm{CH}}-\qquad \begin{array}{l}-\mathrm{CH}\text{———}\mathrm{CH}-\\ \quad|\qquad\qquad\ \ |\\ \mathrm{O}-\underset{\|\atop \mathrm{O}}{\mathrm{C}}-\mathrm{R}'\ \ \mathrm{O}-\underset{\|\atop \mathrm{O}}{\mathrm{C}}-\mathrm{R}''\end{array}\quad\text{and}\quad -\underset{|\atop \mathrm{OR}''}{\mathrm{CH}}-\underset{|\atop \mathrm{OR}''}{\mathrm{CH}}-$$

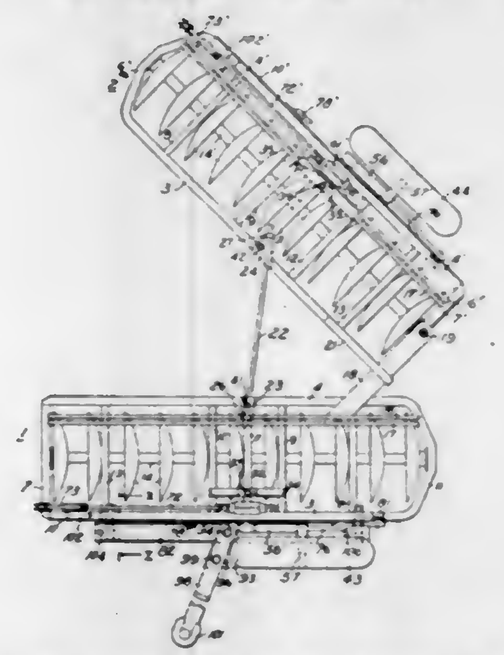
wherein R′ and R″ are selected from the group consisting of alkyl, cycloalkyl, aryl and aralkyl groups.

2,421,771
APPROACH PROTECTIVE SYSTEM
Glenn H. Browning, Winchester, Mass.
Application July 17, 1942, Serial No. 451,279
10 Claims. (Cl. 177—352)

1. An electrical protective system for guarding against the approach of objects or persons comprising dual capacitance to ground elements extending about an area to be protected, means including two separate oscillatory circuits operatively connected, each to one of said elements, said circuits with capacitance elements having each different oscillatory frequencies, means, actuated by the approach of an object or person to one of said capacitance elements to change differentially the frequencies of said oscillatory circuits, selective electrical circuit means operatively connected to said oscillatory circuits and selectively tuned to a beat frequency corresponding to the difference between different harmonic frequencies of said oscillators and means operatively connected to said selective electrical circuit for indicating by a change from a chosen beat frequency, the approach of an object or person.

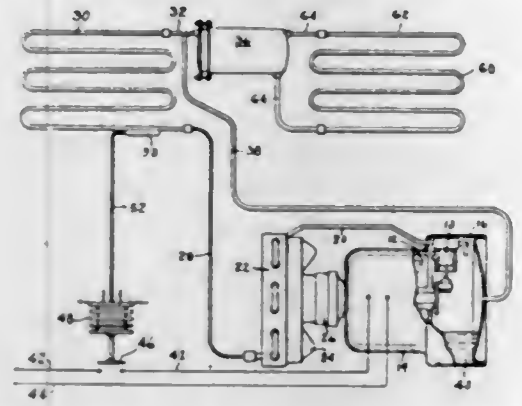


2,421,772
DISK HARROW WITH TRANSPORT MEANS
John F. Brundage, Oxnard, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application October 7, 1943, Serial No. 505,275
33 Claims. (Cl. 55—73)



1. In an earth working implement, a pair of tool supporting frame sections, a transport wheel mounted on one of said frame sections for up and down adjustment relative thereto, another transport wheel mounted on the other of said frame sections for up and down adjustment relative thereto, connecting means between said frame sections affording horizontal angular movement of said one frame section and wheel relative to said other frame section and wheel from a first predetermined position in which said transport wheels are disposed substantially parallel to each other, into a second predetermined position in which said wheels are disposed in relatively diverging planes, a draft structure having a rigid transverse portion and a hitch portion intermediate the ends of said transverse portion for connection with a source of draft, means for operatively mounting said draft structure at said ends of said transverse portion thereof on said frame sections, respectively, when the latter are in said first predetermined position, said mounting means being operable to release said draft structure for movement into an angularly displaced position relative to one of said frame sections, and means for releasably securing said draft structure in said angularly displaced position thereof to said one frame section.

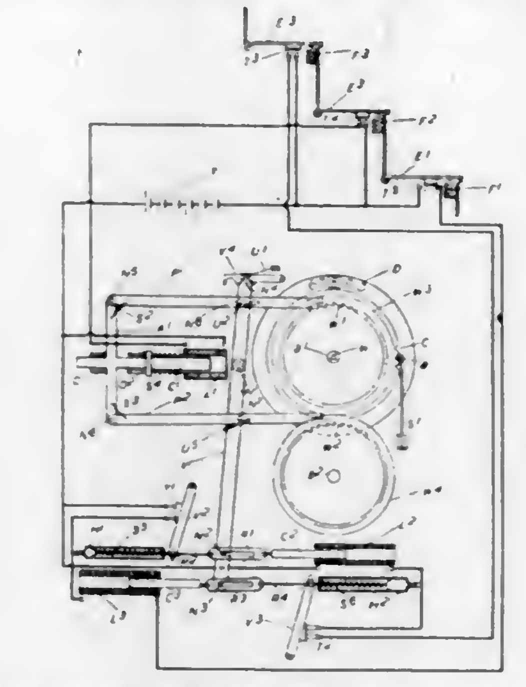
2,421,773
HEAT EXCHANGE APPARATUS IN REFRIGERATION SYSTEMS
Leslie B. M. Buchanan, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 29, 1943, Serial No. 516,006
5 Claims. (Cl. 62—115)



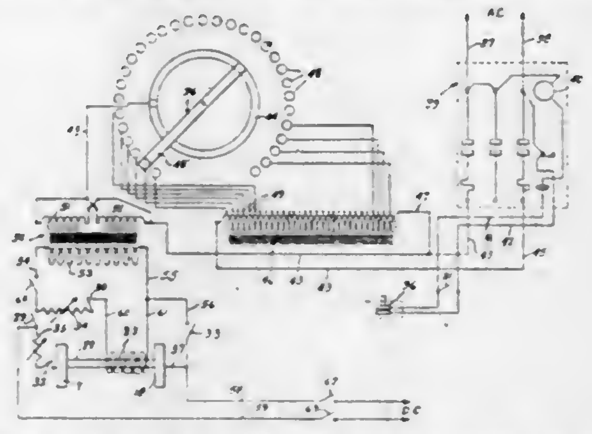
3. Refrigerating apparatus comprising a primary system including a first evaporator, a second evaporator forming a header, a passageway connecting the first and second evaporators, a casing containing a compressor and lubricating oil, a tube connecting said second evaporator with said casing, a condenser receiving compressed refrigerant from said compressor, a conduit connecting said condenser with said first evaporator, a thermostat for starting and stopping said compressor, and a volatile refrigerant in said primary system, said refrigerant having an affinity for the oil in said casing, said refrigerating apparatus also including a secondary refrigerant circuit having a heat-absorbing portion and a heat-rejecting portion in intimate heat-exchange relationship with at least a portion of said second evaporator, said tube of the primary system communicating with an upper portion of said second evaporator, said passageway of the primary system being arranged to prevent drainage of refrigerant liquid from said second evaporator to said first evaporator when said thermostat stops said compressor.

2,421,774
APPARATUS FOR ENUMERATING AND INDICATING THE NUMBER OF AVAILABLE SEATS ON THE DECKS OF PASSENGER CARRYING VEHICLES
George Herbert Colt, London, and Arthur John Chappell, Middlesborough, England
Application August 14, 1943, Serial No. 498,741
In Great Britain March 10, 1943
6 Claims. (Cl. 235—99)

1. Apparatus for enumerating and indicating the number of available seats on the deck of a passenger carrying vehicle including in combination three treads adapted to be elastically depressed in succession by passengers ascending to or descending from said deck, a counting and indicating device, two ratchet mechanisms, one adapted to operate said counting and indicating device in one direction, the other in the other direction, three electric circuits adapted to be connected to and fed by a source of electric current, each tread having a switch mounted thereto, adapted for control of one of said circuits, slow release solenoids included in those of said circuits which are controlled respectively by the first and the third of said treads, said circuits of said slow release solenoids including, reciprocally, switching means in one circuit adapted to be actuated by the slow release solenoid of the other circuit for maintaining the other of said circuits in open condition until a passenger has passed, starting from the tread associated with one of said circuits, the tread associated with said other circuit, and vice versa, at least one fast release solenoid included in the circuit controlled by the second of said treads; actuating mechanism operable by said fast release solenoid for the pawls of said ratchet mechanisms; selector mechanism adapted to be operated alternatively by said slow release solenoids and further adapted to select either of said pawls for operation of its ratchet by means of said actuating mechanism, thereby to actuate one of said ratchet mechanisms when a passenger ascends said treads and the other of said ratchet mechanisms when a passenger descends said treads.



2,421,775
METHOD AND APPARATUS FOR MAGNETIC TESTING
Foster B. Doane, Wilmette, Ill., assignor to Magnaflux Corporation, Chicago, Ill., a corporation of Delaware
Application June 28, 1943, Serial No. 492,557
4 Claims. (Cl. 175—183)

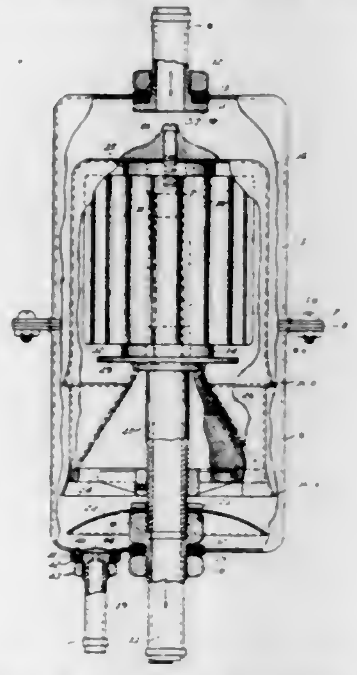


1. The method of magnetizing a test piece including the steps of applying a direct current magnetizing force tending to magnetize the test piece in one direction, simultaneously applying

another direct current magnetizing force tending to magnetize the test piece in another direction, and varying the values of the direct current magnetizing forces.

2,421,776
FILTER DEVICE

Lewis L. Dollinger, Rochester, N. Y., assignor to Staynew Filter Corporation, Rochester, N. Y., a corporation of New York
Application March 24, 1943, Serial No. 480,395
2 Claims. (Cl. 183—65)

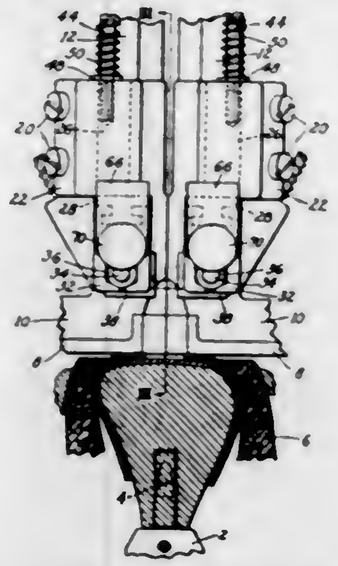


1. In a filter, a housing provided with an inlet and with an outlet, a bell-shaped deflector having its closed end mounted in spaced relation with respect to the inlet and with its open end directed toward said outlet, a porous conical diaphragm having the base thereof in peripheral engagement with the margin of said deflector and having its apex directed toward the deflector to define therewith a closed compartment, said diaphragm being mounted coaxially of said deflector, a hollow filter unit having radiating fins mounted in said deflector coaxially therewith between the conical diaphragm and the closed end of the deflector, and tubular means connecting the interior of the filter unit with said outlet.

2,421,777
LASTING MACHINE

Albin C. Eek, Webster Groves, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 20, 1946, Serial No. 655,754
8 Claims. (Cl. 12—4)

1. In a lasting machine, a pair of wipers movable to wipe the marginal portion of the heel end of an upper inwardly over an insole on a last, members from which to drive fastenings to fasten the upper, said members being mounted to move respectively with the different wipers in fixed relation thereto in the wiping operation, driver blocks mounted to move respectively with said members and each provided with a plurality of drivers for driving corresponding fastenings, the driver blocks being further movable relatively to said members heightwise of the shoe thus to operate the drivers, knife carriers supported by said members also to move with them and the wipers, said knife carriers being guided independently of the driver blocks for movements heightwise of the shoe but being thus movable by the driver blocks, and knives supported by said carriers for slitting the margin of the upper over the insole in response to such movements of the carriers heightwise of the shoe.



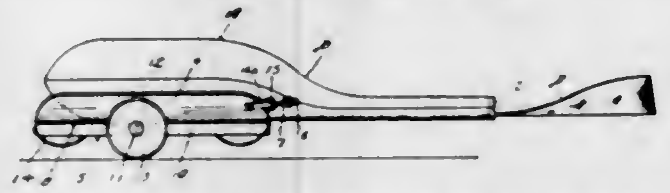
2,421,778
INITIATING EXPLOSIVES

Joseph Fleischer and Jerome G. Burtle, Alton, Ill., assignors to Olin Industries, Inc., a corporation of Delaware
No Drawing. Application December 24, 1943, Serial No. 515,504
8 Claims. (Cl. 52—2)

8. As a new product, crystalline particles of lead azide characterized by the content throughout the particles of a minor proportion of polyvinyl alcohol and comprising substantially 95 to 97% PbN_6, said particles having been formed in an aqueous solution containing said polyvinyl alcohol.

2,421,779
COTTON PICKER'S SACK CARRIER

Hebern B. Foster, Lubbock, Tex.
Application December 20, 1944, Serial No. 569,058
1 Claim. (Cl. 280—8)

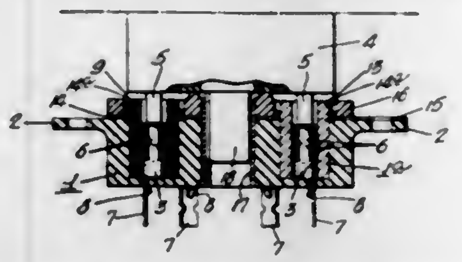


A sack carrier of the character described comprising an elongated pan-like structure provided at its bottom side with a pair of spaced parallel bars extending longitudinally of the pan-like structure for reinforcing said structure, said bars having openings therein, an axle extending through said openings and provided with wheels at the end thereof, and an arcuate shaped runner extending inwardly of each end of each bar and meeting a medial portion of the corresponding bar, the inner ends of the runners of each bar terminating in spaced relation at opposite sides of the axle.

2,421,780
SOCKET STRUCTURE

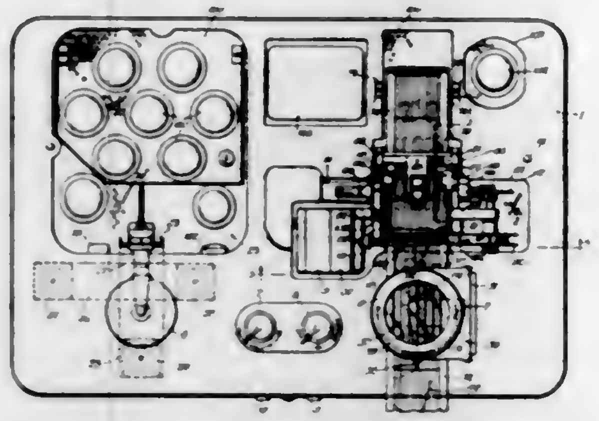
William Frear, Fox Chase, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application March 30, 1944, Serial No. 528,726
10 Claims. (Cl. 250—16)

1. A socket structure for use with a device having contact prongs, said structure comprising a supporting base having recesses therein, a plurality of contact elements disposed in said recesses and adapted to engage the said prongs, a plurality of hollow cylindrical members each disposed in one of said recesses and surrounding the contact element therein, at least some of said members being condensers having coaxial conductive portions, the inner ones of which engage the associated contact elements, the others of said members being formed entirely of insulating material, said members being interchangeable so as to associate the condensers with desired elements of said device, and a grounding member engaging the outer conductive portions of the condensers.



2,421,781
WATCH TIMING RECORDER

Thomas B. Gibbs, Delavan, Wis., assignor, by mesne assignments, to George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application May 24, 1941, Serial No. 395,114
6 Claims. (Cl. 234—36.5)

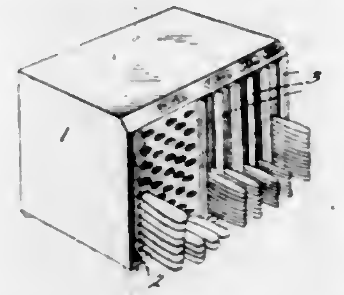


2. In a timing apparatus, a cylinder, a spiral rib extending around and lengthwise of the surface of said cylinder, means for rotating said cylinder at constant speed, a record tape, means for feeding said tape in a straight line past said cylinder in a direction perpendicular to its rotation axis, a printing ribbon, means for feeding said ribbon across and above the tape where the latter passes said cylinder, a printer tape adapted to momentarily press said ribbon and tape against a random section of said rib while the cylinder is rotating, an operating magnet on the opposite side of said tape from said printer bar, and mechanical links connecting the ends of the printer bar with the armature of said magnet.

2,421,782
DISPENSER FOR TABLEWARE

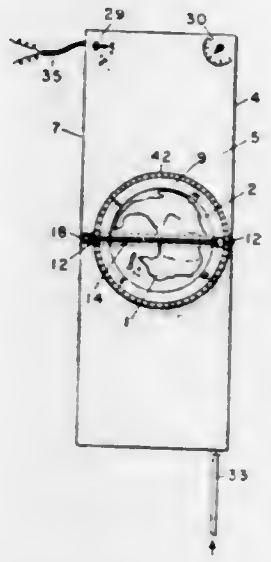
William J. Gibbs and Ernest F. Smith, Brooklyn, N. Y.
Original application December 28, 1939, Serial No. 311,232. Divided and this application August 3, 1943, Serial No. 497,239
3 Claims. (Cl. 312—42)

3. In a storage and dispensing device for tableware such as forks and spoons, a housing support having an open front, a plurality of containers for tableware detachably mounted in said support, each of said containers having an open top and front and consisting of a bottom wall, a rear wall and side walls, said side walls having substantially forward laterally inward complementary extensions thereon defining with the other walls a compartment for receiving the operative ends of tableware and a communicating slot between the wall extensions conforming generally to the outline of part of the handle portions of the ware, whereby handle ends of the ware may project through the front of the container in position to be manipulated by the hand of a user for removal of the ware from the container, and a gravity latch pivotally mounted at the top of each container having means thereon interlocking with the top edge portions of the side wall extensions, said latch being upwardly movable to permit withdrawal of ware from the container at the top thereof but serving normally to prevent replacement of the ware in the container.



2,421,783
POSITION INDICATOR FOR AIRCRAFT IN FLIGHT

Edward D. Glatz, Kenmore, N. Y.
Application March 19, 1945, Serial No. 583,407
4 Claims. (Cl. 73—178)



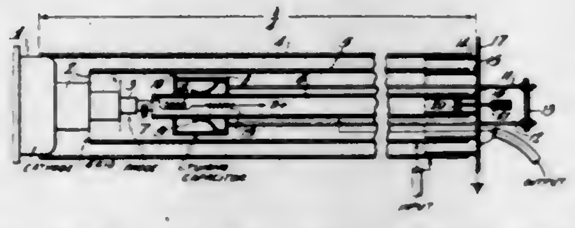
1. An instrument for indicating the position of an aircraft in transit, comprising a section of a map covering the territory to be covered, an indicator movably mounted over said map, a motor operatively connected with said indicator to drive the same, and in circuit with a source of current supply, a rheostat interpolated in the circuit, and an air pressure responsive device connected with the rheostat to adjust the speed of the motor to the air pressure created by the aircraft in transit whereby the indicator is caused to move across the map to indicate the position of the aircraft.

2,421,784
ULTRA HIGH FREQUENCY APPARATUS

Leonard W. Haeseler, Merchantville, and Samuel H. Watson, Audubon, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application February 24, 1943, Serial No. 476,994

9 Claims. (Cl. 179—171)



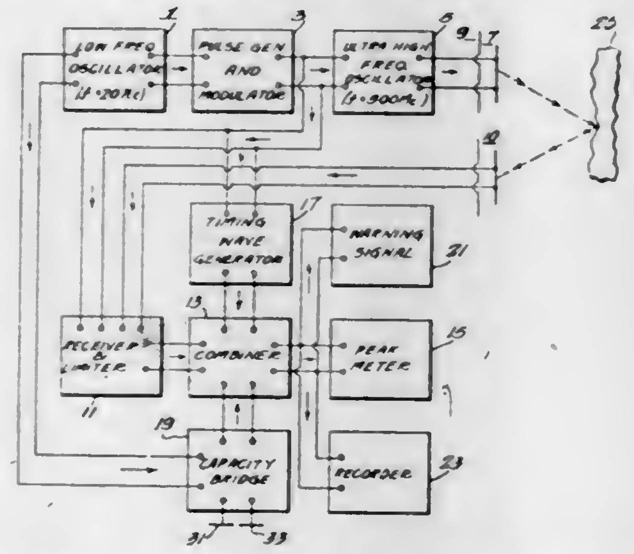
3. An ultra-high frequency circuit which includes a thermionic tube having at least a cathode electrode, a control electrode and an anode electrode, a plurality of concentric cylindrical conductive elements, means connecting one end of a first of said elements to said control electrode, means connecting one end of a second of said elements to said anode, conductive means connecting together the remaining ends of said elements, a movable capacitive element in operative relation to said first and second conductive elements, and means for adjusting the position of said capacitive element with respect to said conductive elements for tuning said circuit.

2,421,785
ELECTRIC ALTIMETER

Jarrett L. Hathaway, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application February 28, 1939, Serial No. 259,066

14 Claims. (Cl. 177—352)



14. Altitude measuring apparatus comprising, in combination, a radio frequency timing type altimeter, a reactive bridge type altimeter and a common indicator responsive simultaneously to both said timing type and said bridge type altimeters.

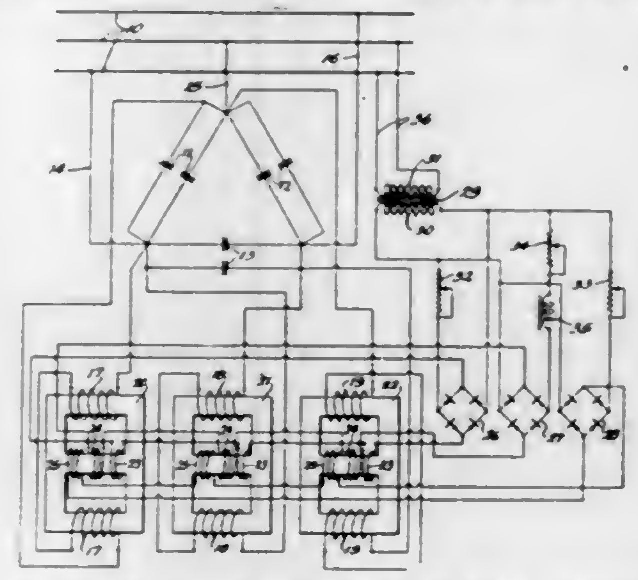
2,421,786
CIRCUIT CONTROL APPARATUS

Eugene H. Haug, Glencoe, Ill., assignor to La Salle National Bank, Chicago, Ill., as trustee

Application July 28, 1944, Serial No. 547,053

12 Claims. (Cl. 172—246)

1. Circuit control apparatus for a three phase three wire alternating current circuit comprising three capacitors connected in delta with the terminals of the delta connected to the three wires of the circuit respectively, inductance coils connected in parallel with the capacitors, cores for the inductance coils, each of the cores having three interconnected legs and each of the coils including two windings in series on two of the legs of a core, three saturating windings on the third leg of each of the cores, the first of said saturating windings having a fixed polarity, the second of said saturating windings having an additive polarity relation to the first of said saturating windings, while the third of said saturating windings has a subtractive polarity relation to the first of said saturating windings, separate rectifiers connected to the saturating windings, separate connections from the rectifiers to a source of alternating current, a resistor in circuit with one of said rectifiers, and a reactor in circuit with another of said rectifiers.

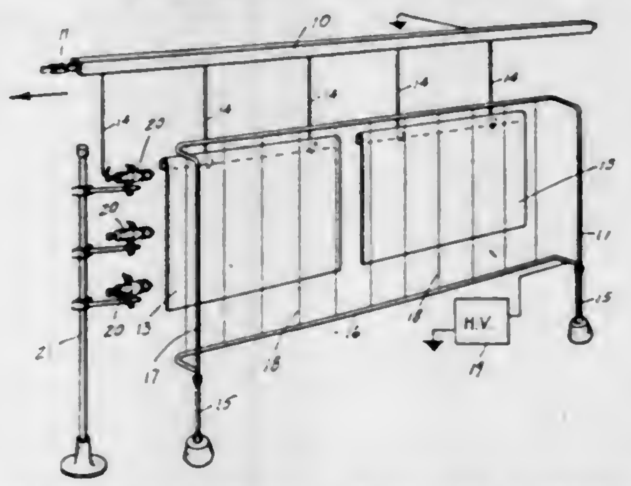


2,421,787
ELECTROSTATIC COATING METHOD

Richard E. Helmuth, Indianapolis, Ind., assignor to Harper J. Ransburg Company, Indianapolis, Ind., a copartnership

Application January 26, 1945, Serial No. 574,722

6 Claims. (Cl. 117—93)



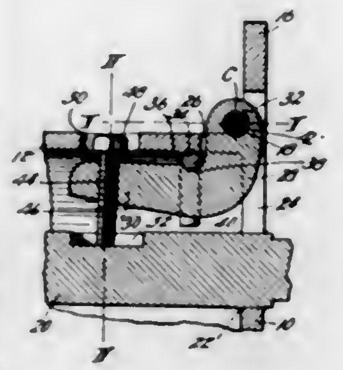
1. The method which comprises establishing over the surface of an article to be coated an electrostatic field having an elongated region of substantially uniform intensity, that portion of said field remote from the article comprising an elongated ionizing zone, spraying an adherent liquid coating material in a dispersed state into said field for deposit on said article, and moving said article transverse to the direction of elongation of said region while introducing said spray of liquid coating material, the distance between said elongated ionizing zone and the article-surface to be coated being materially less than, and the length of the ionizing zone being greater than, the dimension of such surface in a direction parallel to such ionizing zone.

2,421,788
DRUM-CABLE ATTACHING MEANS

Albert R. Henry, Salina, Kans., assignor to Henry Manufacturing Company, Inc., Topeka, Kans., a corporation of Kansas

Application August 24, 1944, Serial No. 551,015

6 Claims. (Cl. 242—117)



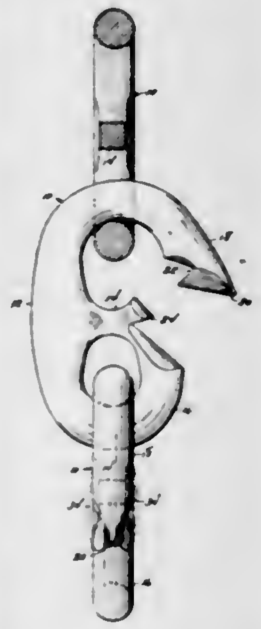
4. In a device of the character described, a drum mounted on a shaft and having a cylindrical body and a radially disposed end flange, a bell-crank lever fulcrumed within said cylindrical body with its one arm positioned to extend from said cylindrical body to rest against a cable positioned at the juncture of said cylinder body with said end flange, and with its other arm positioned substantially parallel with the axis of said drum and provided with an adjustable screw having its inner end resting against said shaft and operable to oscillate said bell-crank lever whereby to securely grip said cable against said drum.

2,421,789
ANCHOR CHAIN LINK

William B. Ingham, Maynard, Mass.

Application November 29, 1945, Serial No. 631,523

5 Claims. (Cl. 59—35)



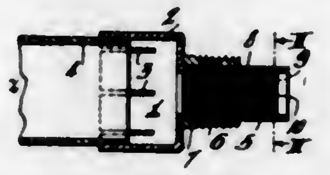
1. The method of making a chain, comprising the steps of forming a blank, having a solid side, and a free arm and a solid loop having a chamfered joint inserting said free arm in the solid loop of a similar blank, bringing the free arm into close relation to said solid loop and welding the same, re-heating the chain and forging the welded area in a die, having the same counter as said link, and then cleaning any flash therefrom to form a continuous chain of any desired length.

2,421,790
ULTRA HIGH FREQUENCY IGNITION DEVICE

Nathaniel I. Korman, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 19, 1943, Serial No. 499,294

7 Claims. (Cl. 315—39)



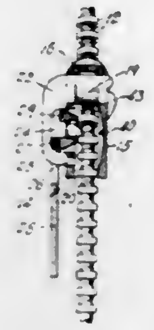
1. A tuned gas ignition device for ultra-high frequency ignition energy derived from a wave guide energy distribution system comprising a hollow conductive dielectric guide element having a first portion formed to engage said wave guide and having a second portion formed to engage a complementarily shaped utilization device, and conductive ignition means tuned to said frequency and disposed transversely of said device at the end thereof remote from and in operative relation with respect to said hollow conductive element whereby ignition currents are induced in said means in response to ultra-high frequency energy derived from said wave guide.

2,421,791
SLIDER FOR FASTENERS

Robert C. Legat, New Britain, Conn., assignor to The G. E. Prentice Mfg. Co., Kensington, Conn., a corporation of Connecticut

Application June 8, 1945, Serial No. 598,220

13 Claims. (Cl. 24—205.5)



4. A slider for separable fasteners comprising a body member having an interior channel, a fixed locking member carried by said body member and projecting into such channel to engage with the fastener elements, a floating member having a cam surface movably mounted on said body member and constructed and arranged to be moved into a position in which the cam surface thereof will deflect the fastened elements traveling through the slider out of locking engagement with said locking member, and a pull tab constructed and arranged to move said floating member into the said position on operation of the slider.

2,421,792
DETACHABLE BOOT AND SHOE HEEL

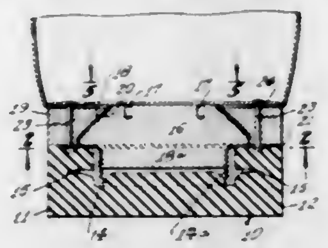
Ely Herman Levine, New Britain, Conn.

Application February 6, 1945, Serial No. 576,401

2 Claims. (Cl. 36—36)

1. In a shoe, a bottom sole having a conical upwardly converging aperture in its rear end, an upwardly converging conical insert loosely fitted in said aperture, extending through said sole, and being provided with a reduced vertical threaded lower section, a heel lift having in its upper surface a tapped socket member shaped to

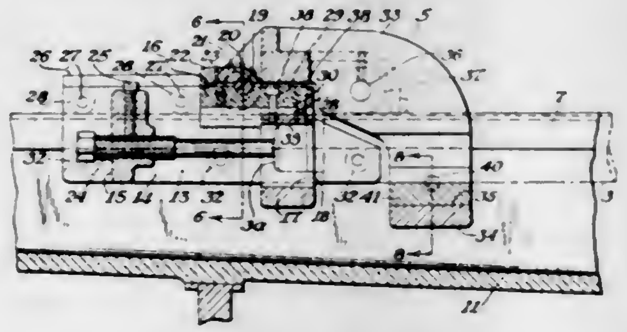
engage said threaded lower section, and means accessible from the top of said sole to rotate said



insert to draw said heel lift upwardly and tightly into operating position.

2,421,793
BROACH CARRIAGE

Raymond H. Liska, Cleveland, Ohio, assignor to The Cleveland Universal Jig Company, Cleveland, Ohio, a corporation of Ohio
Application December 11, 1944, Serial No. 567,621
8 Claims. (Cl. 90—33)



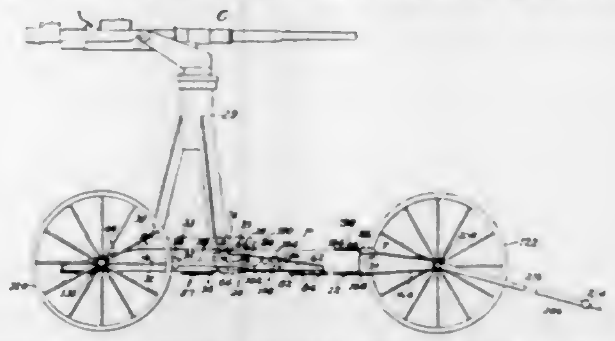
1. In combination, a pair of spaced rails, each having a corresponding straight and inclined surface, a broach carriage movable along said rail surface, said carriage comprising a base and a saddle member provided for travel along said rail surface, said base having a portion thereof adapted for engaging the upper surface of the broach at the tail thereof, and said saddle member having a portion adapted for engaging the lower face of said broach at a point spaced from the point of engagement between the base and broach, means pivotally connecting the saddle member and the base so as to permit movement of the saddle member toward and away from broach engaging position, surfaces on said saddle member in spaced relation to said pivotal mounting for travel along said straight rail surfaces for holding said saddle member in broach clamping position and for travel on said inclined rail surfaces for releasing said broach, and means for moving the broach carriage along said rails, whereby the saddle member is moved into or out of engagement with the broach when the surfaces on the saddle member engage the straight or inclined surfaces of the rails.

2,421,794
GUN PLATFORM

Mieth Maeser, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 19, 1943, Serial No. 510,989
13 Claims. (Cl. 89—40)

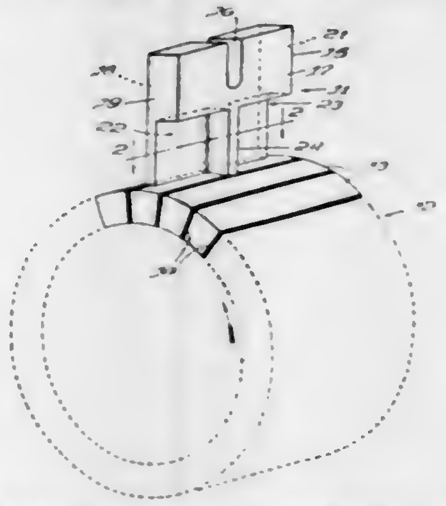
1. A gun-platform having a central support on which the gun may be mounted, bars secured to the support at opposite sides and meeting at an apex, said bars diverging rearwardly to points beyond the support, a crossbar secured to the side-bars and to the rear of the support, and an axle-bar connecting the side-bars at the rear of the crossbar and adapted to receive wheels.

9. A wheeled gun-platform including a gun-support, diverging bars secured at opposite sides of the support, an axle-bar connecting the diverging ends of the side-bars, there being at each end of the axle-bar a bore having portions of different diameters decreasing inwardly, an axle provided with portions fitting the different bores, securing means arranged to force the axle into place in the bores, and a wheel rotatable on each axle.



2,421,795
ARMATURE BRUSH

Frank G. Majer, Berwyn, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application February 8, 1945, Serial No. 576,809
2 Claims. (Cl. 171—325)

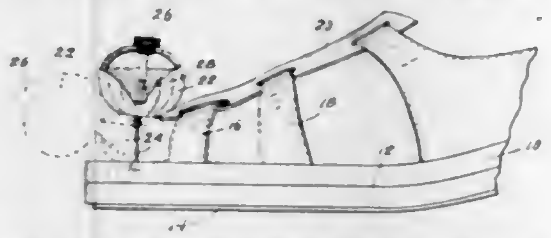


1. An electric current conducting brush comprising a holder end portion and an opposite end portion for engaging an electrical conductor periphery of an electrical machine armature during relative movement between the brush and armature in the direction of a median line directed transversely of the brush, the opposite end portion of said brush including a relative thin detritable electrical conductor rib-like formation projecting endwise of the brush from the holder end portion and disposed transversely of said median line, said opposite end portion also including a single detritable electrical conductor rib disposed transversely of said rib-like formation in registry with said median line and extending lengthwise of the brush from its holder end portion, and said rib-like formation and said rib having free-ended faces at the opposite end of the brush and adapted to bear complementally on the armature periphery in current conducting relation therewith.

2,421,796
OPEN-TOE SHOE

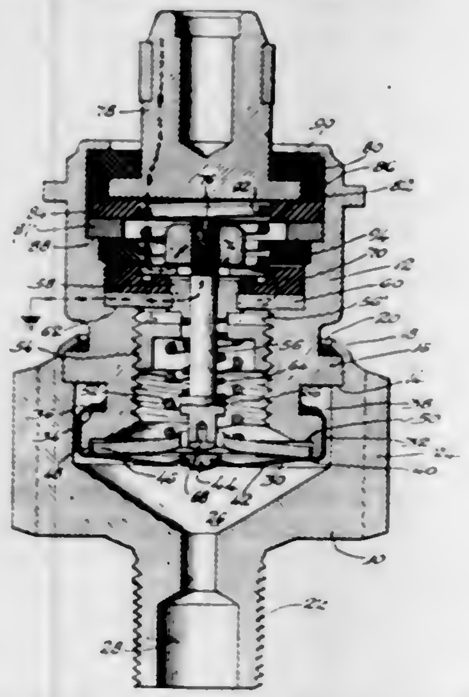
Roy Maling, Chestnut Hill, Mass.
Application August 28, 1946, Serial No. 693,499
3 Claims. (Cl. 36—1)

3. In an open-toe bare-foot sandal having a base part extending for engagement under the toes of a foot, and having an upper including a part for extending over a fore-part of the foot so as to leave the toes exposed, the combination therewith of a toe-nail polish receptacle mounted on one of said sandal parts for engaging above a fore-part of the foot and coacting with a said sandal part to maintain a fore-part of the foot pressed against said base part of the sandal.



2,421,797
PRESSURE SWITCH

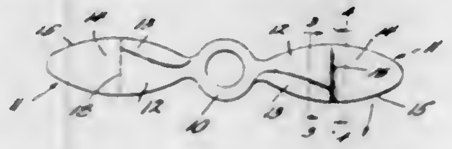
Homer F. Malone, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application August 14, 1943, Serial No. 498,605
17 Claims. (Cl. 200—83)



1. A pressure switch of the class described, comprising a snap acting flexible diaphragm, means supporting said diaphragm and providing a pressure chamber, a pressure member for urging said diaphragm toward one extreme position, said member engaging said diaphragm only adjacent the outer edge thereof, a spring for loading said pressure member and diaphragm, and switch means operated with snap action by flexure of said diaphragm under fluid pressure.

2,421,798
DASHER FOR CHURNS

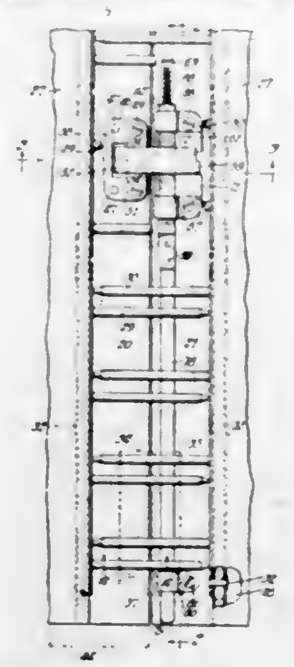
Herman R. Marshall, Carrollton, Ga.
Application July 8, 1946, Serial No. 681,886
3 Claims. (Cl. 259—126)



1. A blade for rotary churn dashers having surfaces lying in the plane of rotation of the dasher and surfaces inclined to the plane of rotation, said surfaces on opposite sides of the blade being reversely placed lengthwise relative to one another.

2,421,799
LOOSE-LEAF BINDER

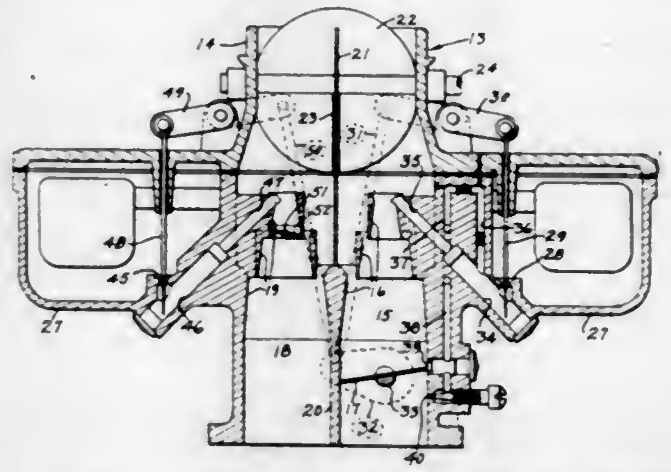
Alfred M. Martin, Park Ridge, Ill.
Application January 29, 1943, Serial No. 473,933
17 Claims. (Cl. 129—17)



4. In a loose leaf binder having a pair of oppositely disposed relatively opening prong-holding parts, the combination of locking mechanism for the parts comprising a latch member on one of the parts longitudinally movable to locking and unlocking positions, a bridge member on the other prong-holding part having a lip engageable with said longitudinally movable latch in two places, in one place to maintain the prong-holding parts fully closed and in another place to maintain the prong-holding parts partially open, said latch and lip when the latch is moved longitudinally to unlocking position being disengaged to permit opening movement of the parts.

2,421,800
DUAL CARBURETOR

Charles L. Martin, Overland, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application September 4, 1943, Serial No. 501,331
11 Claims. (Cl. 123—127)

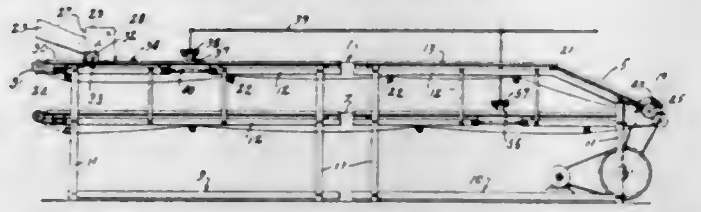


3. In an internal combustion engine, separate main and auxiliary fuel mixture intake conduits individually feeding the engine, a throttle valve in said main conduit and a fuel nozzle discharging thereinto, multiple Venturi tubes in said auxiliary conduit, an auxiliary fuel nozzle discharging into the smallest of said tubes, and a butterfly throttle pivoted in said last-mentioned tube and controlling the passage of air through said tube and the discharge of fuel from said aux-

illiary nozzle, the space around said smallest Venturi tube providing for constant feeding of air to the engine regardless of the emission of fuel from said auxiliary nozzle.

2,421,801
APPARATUS FOR FUSING THE COATING ON TABLETS

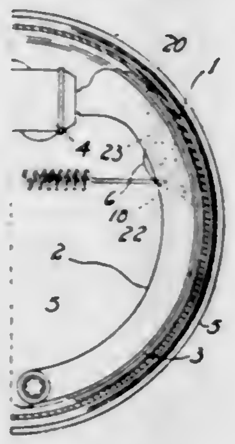
Grover C. Miller, San Gabriel, Calif., assignor to Gromiller, Inc., Los Angeles, Calif., a corporation of California
Application September 22, 1941, Serial No. 411,876
6 Claims. (Cl. 91—2)



1. In an apparatus of the character described, the combination of a tablet feed means including a spacing roller, a conveyer upon which tablets are delivered in spaced relationship by the spacing roller, a flame producing means, means for driving the conveyer to conduct the spaced tablets through the flame and for conveying the tablets until the fused coating is cooled, means for inverting the tablets, a second conveyer upon which the tablets are deposited by the inverted means in inverted position, and a second flame producing means, and means for driving the conveyer to conduct the tablets through the flame produced by the second flame producing means.

2,421,802
SELF-ADJUSTING STOP MEANS FOR THE SHOES OF INTERNAL-EXPANDING BRAKES

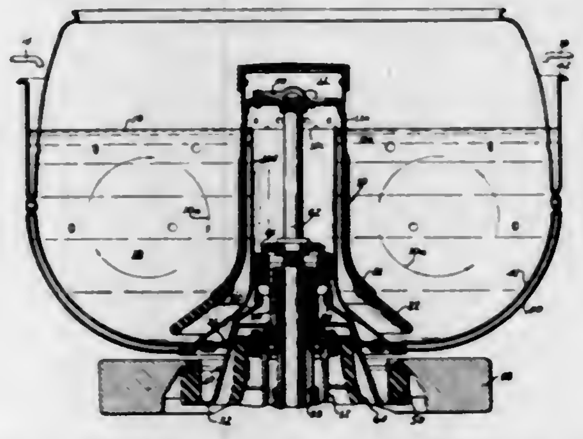
Lyle Henry Mould, Lady Grey, Cape of Good Hope, Union of South Africa
Application March 19, 1945, Serial No. 583,468
In the Union of South Africa April 14, 1944
8 Claims. (Cl. 188—79.5)



1. Self-adjusting stop means for a shoe of an internal-expanding brake assembly of the character described and including a brake drum and a back plate, said stop means comprising a locating part projecting through and fixed to the said back plate, a cam part rotatably associated with said locating part, the parts being so positioned relative to the brake shoe that said cam part coacts in cam fashion with an adjacent portion of the brake shoe, spring means tending to cause rotation of the cam part with respect to the locating part in a direction tending to force the brake shoe towards the brake drum, and spring-urged frictional retarding means interposed between the edge of the cam part and the brake shoe, the spring-urged frictional retarding means and the spring means tending to cause rotation of the cam part, being so adjusted that the normal brake clearance is maintained and slipping between the cam part and said frictional retarding means to advance the retracted position of the shoe, takes place only as and when wear occurs in the brake shoe lining, and means for adjusting the spring pressure of the spring means tending to cause rotation of the cam part.

2,421,803
SCUM OVERFLOW FOR CLOTHES-WASHING MACHINES

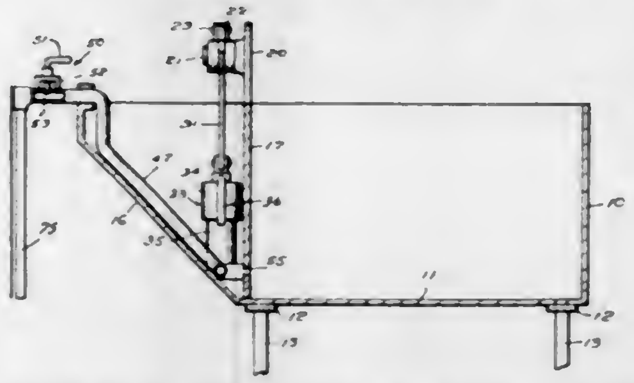
Duane R. Neal, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 18, 1943, Serial No. 506,692
4 Claims. (Cl. 68—23)



1. In a washing machine, a receptacle to hold liquid, an overflow dam fixed in said receptacle, a vertically reciprocable agitator surrounding said dam, said agitator having perforations at the normal liquid level of said tub to permit scum to flow through said perforations and over said dam and having means to produce continuous toroidal circulation, and means for vertically reciprocating said agitator.

2,421,804
APPARATUS FOR REMOVING MELTABLE METAL FROM ARTICLES

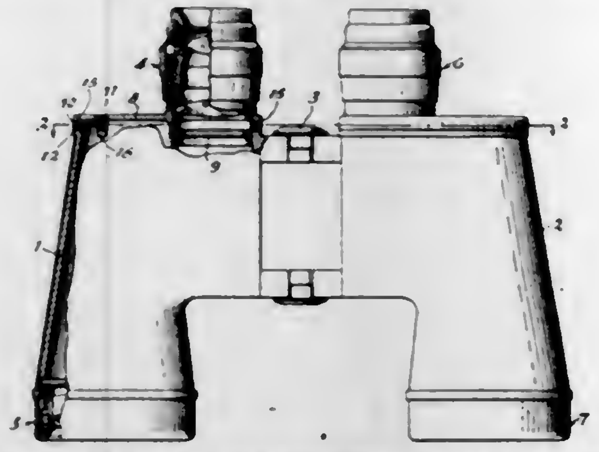
George R. Park, Monaca, Pa.
Application October 31, 1944, Serial No. 561,302
6 Claims. (Cl. 266—38)



1. Apparatus comprising a tank having a working bay separated from the main portion of the tank by a partition wall, said bay having a rim of a height equal to the height of the tank, said tank being adapted to contain molten metal into which articles having adhering meltable metal are adapted to be immersed, the partition wall having submerged openings through which molten metal from the tank enters the bay, pumps submerged in the molten metal in the working bay for expelling molten metal therefrom and a syphon tube connected to the pumps through which molten metal may be extracted from the bay.

2,421,805
SEALING MEANS FOR OPTICAL INSTRUMENTS

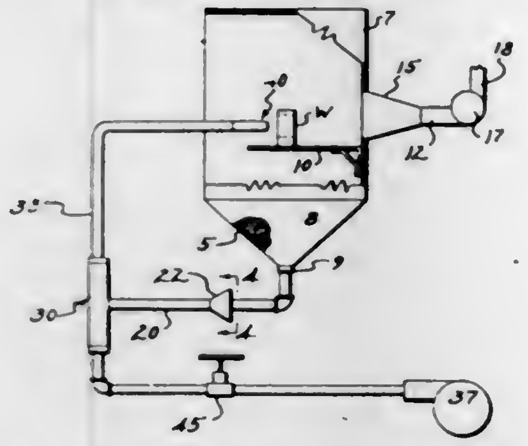
William F. Peck, Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association
Application May 14, 1943, Serial No. 486,957
2 Claims. (Cl. 88—34)



1. In an optical instrument of the type described, the combination of a casing for housing optical elements of the instrument, said casing having a rim surrounding an open end thereof and an external peripheral bead spaced from said rim, a cover for said open end of said casing and adapted to seat directly against said rim, an eyepiece member carried by said cover and positioned thereby in fixed relation to the optical elements housed by said casing, said cover having a peripheral flange in spaced relation to said casing and extending toward said bead, said peripheral flange being slightly spaced from said bead when the cover directly seats against said rim, a heat softenable sealing medium in the space between said flange and said casing and a heat softenable sealing medium between said flange and said bead, the first mentioned sealing medium being adapted to soften at a higher temperature than the second mentioned sealing medium, and means for retaining said cover in seated relation against said rim.

2,421,806
CLEANING METHOD AND MATERIAL THEREFOR

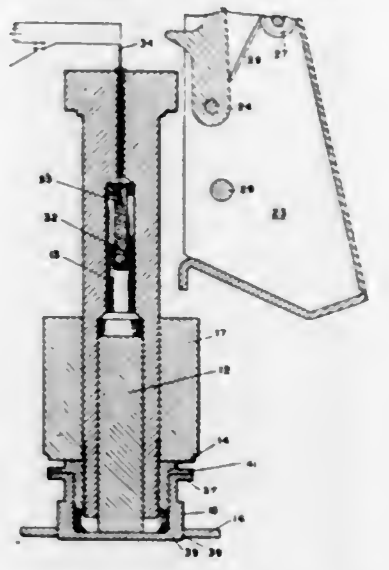
Frank R. Perry, Los Angeles, Calif., assignor to Turco Products, Inc., Los Angeles, Calif., a corporation of California
Application April 14, 1944, Serial No. 530,983
4 Claims. (Cl. 51—282)



1. The method of cleaning metal articles which consists of projecting thereagainst a stream of fluid under pressure carrying, in suspension therein, pelletized nut shells having the hardness of black walnut shells.

2,421,807
EXPLOSIVE-RELEASE MECHANISM

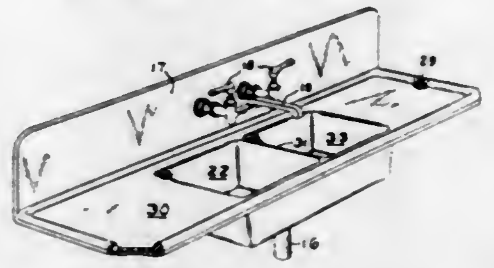
David M. Richey, Devon, and Bernard J. Traynor, Bridgeport, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application April 26, 1945, Serial No. 590,412
3 Claims. (Cl. 89—1.5)



3. A mechanism for releasing equipment from aircraft comprising a rigid member for suspending said equipment from said aircraft, a member slidably mounted on said rigid member for supporting said equipment, a first means positively engaging said rigid member and retaining said supporting member on said rigid member, a second means slidably mounted on said first means and adapted to hold said first means in engagement with said rigid member while so mounted, said second means being attached to said first means by frangible safety elements, an explosive charge secured within said rigid member, and a shock distributing member within said rigid member interposed between said charge and said second member and adapted to distribute the shock of explosion to said second member resulting in sequence in the breaking of the safety elements, disengagement of said second means from said first means, disengagement of said first means from said rigid member and release of said equipment.

2,421,808
LINING FOR SINKS OR THE LIKE

Andrew W. Robertson, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 24, 1945, Serial No. 579,543
2 Claims. (Cl. 4—183)



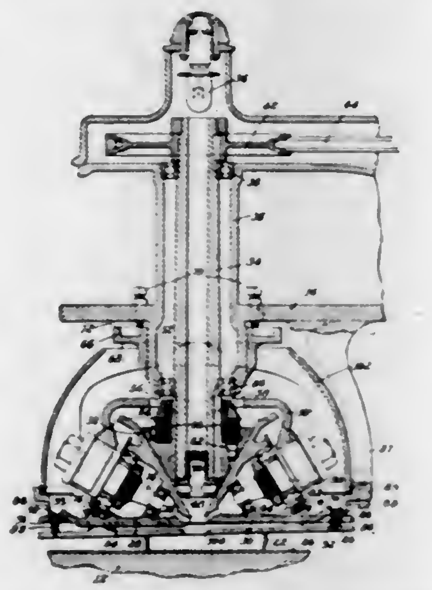
1. As a new article of manufacture, a liner for a sink structure having side walls and a bottom wall providing a well within the sink structure, said bottom wall having a drain opening there-

in, said liner including side walls and a bottom wall integrally formed of a resilient water-proof material and closely fitting within the well of the sink structure and a transverse wall integral with and connecting opposed side walls and the bottom wall of the liner for providing a pair of wells within the liner, said transverse wall having a portion thereof aligned above the drain opening of the sink and defining, with portions of the bottom wall of the liner, a pair of openings providing, respectively, communication between said wells of the liner and the drain opening of the sink structure.

2,421,809

DIEING-OUT MACHINE

Thomas H. Seely, Melrose, and Frank E. Stratton, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 10, 1945, Serial No. 587,456
16 Claims. (Cl. 164—23)



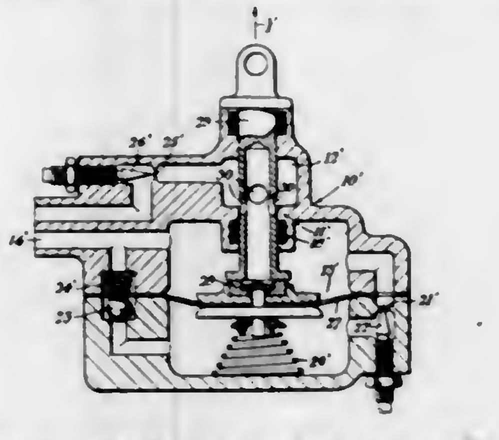
1. A dieing-out machine comprising a cutting bed, an arm supported above the bed for movement angularly across the bed and for movements toward and away from the bed, a vertical shaft carried by the arm, a conical friction roll mounted at the lower end of the shaft, a spider surrounding the shaft and supported by the friction roll, a conical pressure roll carried by the spider and engaging the friction roll, a striking plate loosely carried by the arm and having an upstanding annular bead upon its upper surface arranged to be engaged by the pressure roll, a conical backing roll also carried by the spider and in engagement with the friction roll, the backing roll being mounted slightly above the pressure roll, and means for rotating the shaft thereby to rotate the pressure roll and the backing roll about the axis of the shaft.

2,421,810

INJECTOR FOR FUEL OR OTHER LIQUIDS

Thomas Simpson, Kenilworth, England, assignor to H. M. Hobson Limited, London, England
Application August 29, 1944, Serial No. 551,673
In Great Britain April 11, 1944
4 Claims. (Cl. 251—138)

4. An accelerating device, operable to deliver a controlled amount of liquid in a given time, and comprising a casing divided into front and rear chambers, an inlet for admitting liquid under pressure to the rear chamber, a restricted outlet for permitting egress of liquid from the front chamber, a pressure sensitive device movably mounted in the rear chamber, an abutment carried thereby, an axially movable valve for controlling the flow of liquid from the rear to the front chamber, a spring associated with the pressure sensitive device for urging the abutment into sealing engagement with the valve and serving, on movement of the valve away from the abutment, to displace the pressure sensitive device so as to reseal the valve, an orifice in the rear chamber for permitting of restricted flow only of liquid from front to rear of said pressure sensitive device, a conduit connecting opposite ends of the rear chamber, and a non-return valve in said conduit for permitting unrestricted flow of liquid from rear to front of said pressure sensitive device.



2,421,811

PROCESS FOR PRODUCING CHROMAN COMPOUNDS

Lee Irvin Smith and Herbert E. Ungnade, Minneapolis, Minn., assignors to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 14, 1939, Serial No. 284,457
8 Claims. (Cl. 260—333)

1. A process for producing chroman compounds which comprises reacting a gamma-gamma-dialkyl-substituted allylic alcohol having a double bond in the beta-gamma position to the hydroxyl group with an aromatic compound containing a free hydroxyl group and an unsubstituted position ortho to said hydroxyl and selected from the group consisting of alkyl-substituted-para-di-hydroxy benzenes and their mono ethers and mono esters, said reaction being carried out at super-atmospheric pressure and in the presence of an acid catalyst.

2,421,812

METHOD OF PRODUCING CHROMAN COMPOUNDS

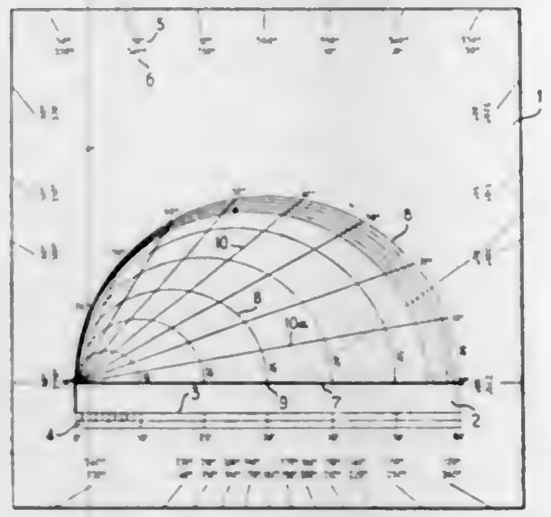
Lee Irvin Smith and Herbert E. Ungnade, Minneapolis, Minn., assignors to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Continuation of application Serial No. 211,078, May 31, 1938. This application July 14, 1939, Serial No. 284,458
8 Claims. (Cl. 260—333)

1. A process for producing chromans which comprises reacting a gamma-gamma-dialkyl-substituted allylic halide having a double bond in the beta-gamma position with an aromatic compound containing a free hydroxyl group and an unsubstituted position ortho to said hydroxyl group and selected from the group consisting of alkyl-substituted-para-di-hydroxy-benzenes, and their mono ethers and mono esters, in the presence of an acidic substance.

2,421,813

NAVIGATION PROTRACTOR

Luis Venancio Staghezza, Lomas de Zamora, Argentina
Application July 9, 1945, Serial No. 603,809
3 Claims. (Cl. 33—1)

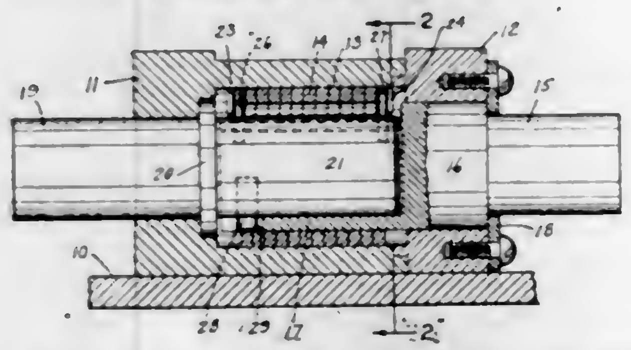


1. A navigation protractor comprising a body of substantially rigid, transparent material having a contour including at least two straight mutually perpendicular edges, a slot in the body portion having an upper straight edge parallel to one of said straight edges, a series of subdivisions calibrated in minutes of a degree of equatorial longitude, parallel to and coextensive with said upper edge, an outer semicircle drawn on the side of the upper edge remote from the slot with said upper edge as diameter, a plurality of inner semicircles drawn within the outer semicircle, with centers on the upper edge successively displaced from the midpoint of the upper edge towards one end thereof, a plurality of secant lines drawn from said one end to make varying angles with the upper edge and to cut said semicircles, said lines representing lengths of a degree of longitude at the latitude corresponding to the angular inclination of said secant lines to said upper edge, to the same scale as said upper edge represents an equatorial degree of longitude, and said inner semicircles dividing each of said secant lines into respective aliquot parts, the contour of the body being divided into angular degrees from a center coinciding with the midpoint of said upper edge.

2,421,814

ANTIKICKBACK CLUTCH

William Carleton Starkey, Indianapolis, Ind., assignor, by mesne assignments, to Fletcher Trust Company, Indianapolis, Ind., a corporation of Indiana, as trustee
Application June 18, 1943, Serial No. 491,301
8 Claims. (Cl. 192—8)

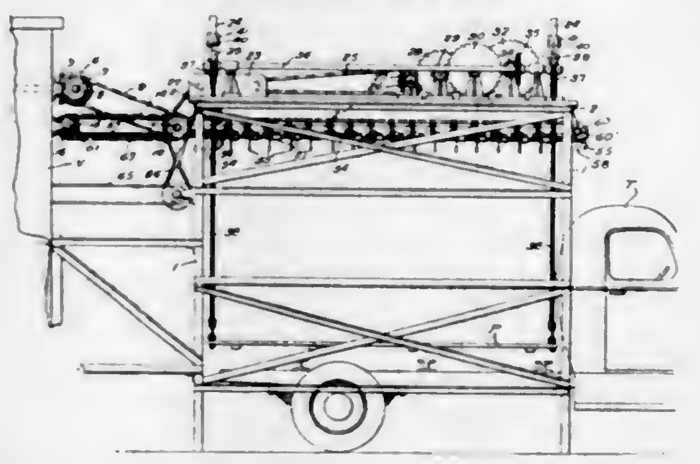


1. In a clutch device, a fixed cylindrical element to provide a clutch engaging surface, a spiral clutch spring concentrically mounted with respect to said element for frictionally engaging said clutch surface, a pair of rotative members concentrically mounted with respect to each other and said spring, actuating lugs secured to said spring adjacent but spaced from each end thereof respectively and extending into the path of movement of one of said members for actuation thereby in either direction to force said spring out of clutching engagement with said element, and a unitary actuating element associated with said members and spring having a pair of spaced projections extending adjacent each end of said spring in the path of its winding, positioned for one of said projections to directly engage the adjacent butt end thereof upon rotative movement of the other of said members to force said spring into clutching engagement with said element by direct compressive action thereon, said unitary actuating element being effective to interconnect said members to transmit rotative movement from one to the other upon said spring being released from said element, whereby one of said rotative members will act to release said spring to permit free rotative movement thereof and the other of said rotating members will act to effect the clutching of said spring to said first element for providing rotative movement of said members.

2,421,815

FEEDER FOR VINERS

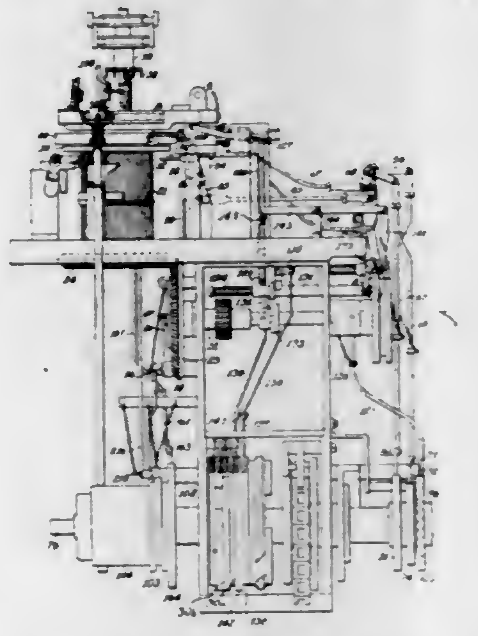
Henry Porterfield Taylor, Walkerton, Va.
Application March 27, 1945, Serial No. 585,209
1 Claim. (Cl. 214—44)



Feeding device for viner comprising a rectangular frame, standards supporting the frame so spaced and positioned as to permit a loaded truck to pass under the frame, a platform adapted to form the removable load platform for a truck, a plurality of endless chains arranged in two series, one on each side of the frame, all of said chains arranged parallel and in a substantially common plane, the inner ends of the chains of the two series spaced apart from the longitudinal center of the platform, other endless chains operating longitudinally of the platform, between the two series and in substantially the same horizontal plane, teeth spaced and pivoted on all said chains, the chains comprising the two transverse series arranged in similar groups and the teeth of each group of each series staggered with respect to the teeth of the next adjacent group of that series and so positioned with respect to the teeth on the longitudinally extending chains that the teeth on the transverse chains most remote from the viner will reach the center chains as teeth on the latter assume operative raking position and successive groups of transverse chains will successively discharge to the center chains as their raking teeth progress toward the viner, means for maintaining the teeth on all of the chains deflected from the bottom reaches of said chains, flexible members for elevating the platform from a truck chassis toward the frame, means for operating the chains of the two series to advance their bottom reaches toward the center, means for operating the longitudinal chains to advance their bottom reaches over one end of the platform and means for operating the flexible platform supporting members to lift in predetermined ratio with the operation of said endless chains.

2,421,816
METHOD AND MACHINE FOR MAKING SEAMLESS HOSIERY

Paul L. Thurston, Harrison F. Hilker, and Harold Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey
Application June 2, 1944, Serial No. 538,422
31 Claims. (Cl. 66—93)

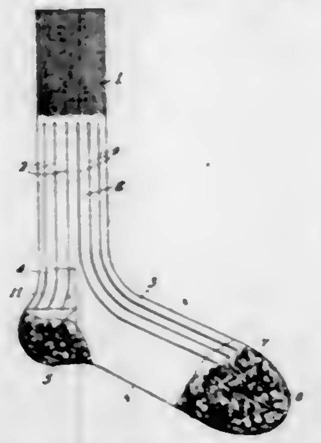


1. A method of knitting an article of hosiery on a knitting machine having a circular series of needles and associated instrumentalities cooperating therewith to form stitches, which comprises knitting a tubular seamless section of fabric to form a leg portion of said article while feeding wrap yarn to selected needles to produce a wrap embroidery pattern in said leg portion, knitting an integral tubular seamless section of fabric to form a sole portion and an instep portion of said article while feeding wrap yarn to selected ones of the needles forming the instep to produce a continuation of said pattern in the instep portion and concurrently feeding terry thread to needles forming the sole and manipulating said needles and associated instrumentalities to draw longer loops of said terry thread only to produce terry fabric in said sole portion.

2,421,817
SEAMLESS HOSIERY

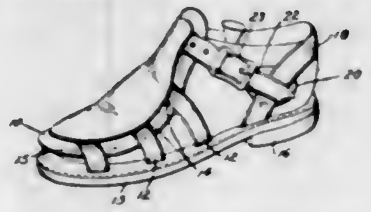
Paul L. Thurston, Harrison F. Hilker, and Harold Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey
Original application June 2, 1944, Serial No. 538,422. Divided and this application January 3, 1945, Serial No. 571,154
13 Claims. (Cl. 66—180)

1. In an article of seamless hosiery, the combination of heel, sole, toe and high splice portions comprising body thread and terry thread knit to form terry looped fabric, and an integral leg portion comprising body thread and wrap thread knit in plating relation at selected stitches to provide a wrap embroidery pattern in said leg portion, the wrap thread extending in a general walewise direction into the high splice portion and being knit at selected stitches in plating relation with the body thread and terry thread to form a continuation of said pattern in said high splice portion.



2,421,818
SANDAL VAMP

Cageton I. Tibiletti, Victoria, Tex.
Application September 16, 1944, Serial No. 554,464
1 Claim. (Cl. 36—11.5)

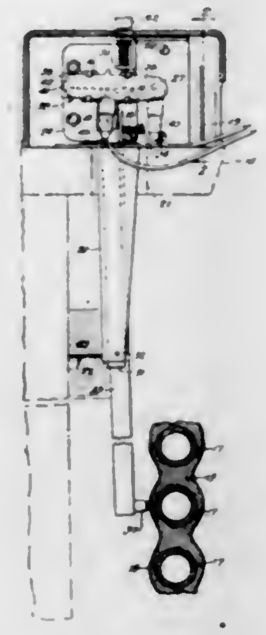


In a sandal, a vamp comprising a top layer having slots spaced inwardly from the side edges thereof, a bottom layer stitched along its edges to said top layer, straps passing through said slots and laterally between the layers, the free extending ends of the straps being attached to the sole of said sandal and constituting the only connecting means between the vamp and the sole at the forward portion of the sandal, each of said straps having an elastic section therein disposed intermediate said layers for conforming the straps yieldably to the shape of the sides of the feet of the wearer.

2,421,819
DEVICE FOR REGULATING THE THICKNESS OF ICE FORMATIONS ON EVAPORATOR COILS

Clarence E. Vandenberg, Blue Island, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 10, 1942, Serial No. 446,520
14 Claims. (Cl. 62—4)

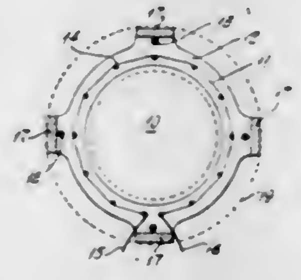
1. The combination with refrigerating apparatus including a compressor, a motor for operating the same, a condenser and an evaporator in circuit with said compressor and said condenser, of a device for controlling the operation of said apparatus to limit the size of ice formations on said evaporator; said device comprising a contactor adapted to move repeatedly to and from a predetermined position to be reached by ice forming on the surface of said evaporator, a movable carrier for the contactor, means for moving the carrier to move the contactor repeatedly to and from the said predetermined position, means resiliently connecting the contactor and the carrier to permit relative movement therebetween upon contact of the contactor with an ice formation projecting from said surface to the said predetermined position, and means actuated by relative movement between the carrier and contactor to stop operation of the carrier-moving means and to stop the operation of said motor.



2,421,820
MICROPHONE

Roelof Vermeulen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 23, 1943, Serial No. 480,191
In the Netherlands March 7, 1941
9 Claims. (Cl. 179—139)

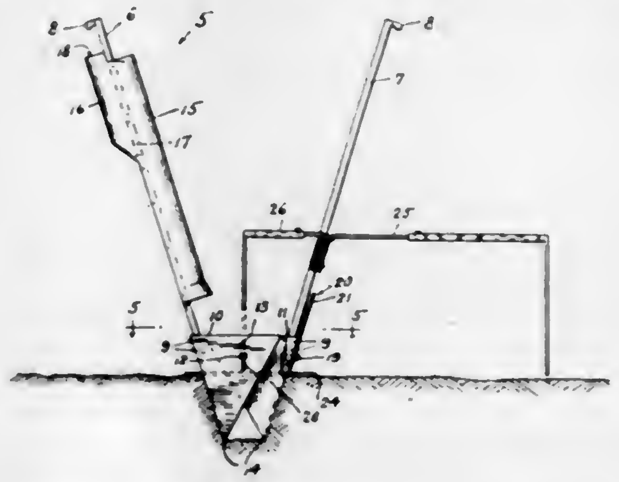
1. A microphone for use where high noise levels occur, comprising sound responsive elements for converting air vibrations into variations of electrical voltages, said sound responsive elements being arranged to form a nearly complete enclosed space, a connection lead joined to the ends of said sound responsive elements, a plurality of magnetic poles adjacent said sound responsive elements, means for leading desired sound waves within said space, whereby the acoustic oscillations originating from the outside of said space act upon the sound responsive elements to set up electrical voltages which substantially neutralize each other whereas the acoustic oscillations coming from within said space act upon said elements to set up voltages which add to each other.



2,421,821
HAND OPERATED POTATO SEED PLANTER

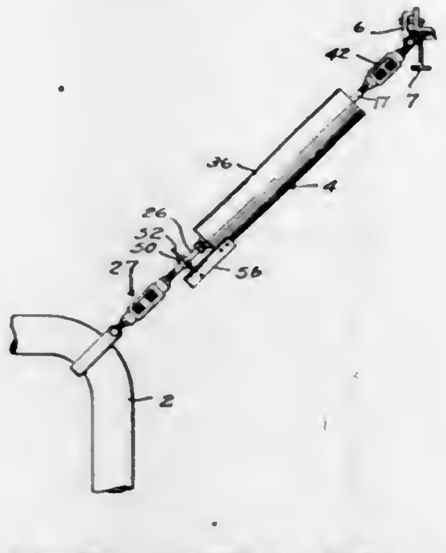
Ernest S. Weite, Wells, Minn.
Application December 28, 1943, Serial No. 515,954
1 Claim. (Cl. 111—92)

A hand operated potato seed planter comprising, a pair of handles, substantially U-shape boots secured to the lower ends of the handles with their open ends disposed in opposed relation and their sides pivotally connected together adjacent their upper edges at points permitting the upper outer edges of the inner boot to abut the opposed handle when the boots are in open position, said boots being of substantially inverted V-shape in side elevation, an inner chute secured to the sides of one of the handles and overlying the inner surface thereof in spaced relation thereto with its discharge end disposed in alignment with that area between the boots, an outer chute having an open upper end secured to the sides of the aforesaid handle and overlying the outer surface of the same in spaced relation thereto with its lower end communicating with the inner chute through an opening in said handle and its end disposed in close relation to the upper end of the inner chute, and hand grips secured to the handles at their upper ends and extending outer thereof, that grip on the chute carrying handle being disposed over and adjacent the upper end of the outer chute.



2,421,822
SPRING DEVICE

Joseph Kaye Wood, New York, N. Y., assignor to General Spring Corporation, New York, N. Y., a corporation of New York
Application April 15, 1944, Serial No. 531,183
17 Claims. (Cl. 248—54)

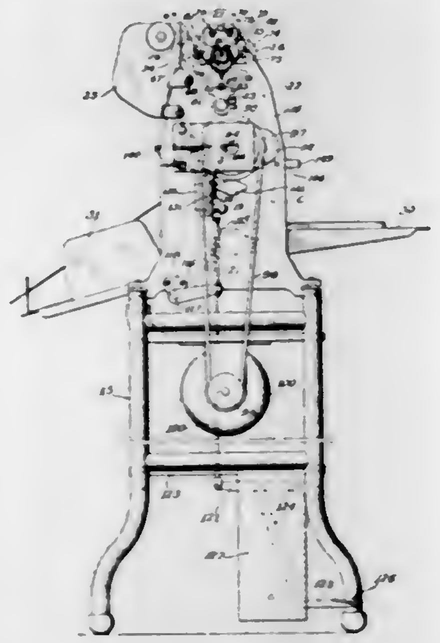


1. A device for mounting piping or the like rigidly against dynamic forces within a safe limit of stress but to yield non-harmonically to greater forces which comprises spring means, means for limiting the relaxation of the spring means to retain therein a force equal to said safe limit of stress, plunger means adapted under force ex-

erted by the piping to move against the force of said spring when such force exceeds said safe limit of stress, and means for connecting said spring means and said plunger means one to the piping and the other to an anchorage.

2,421,823
DRUM STOP MEANS FOR PRINTING MACHINES

William R. Allen, Shaker Heights, and Charles H. Sand, Willoughby, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Application June 29, 1942, Serial No. 448,912
4 Claims. (Cl. 101—142)

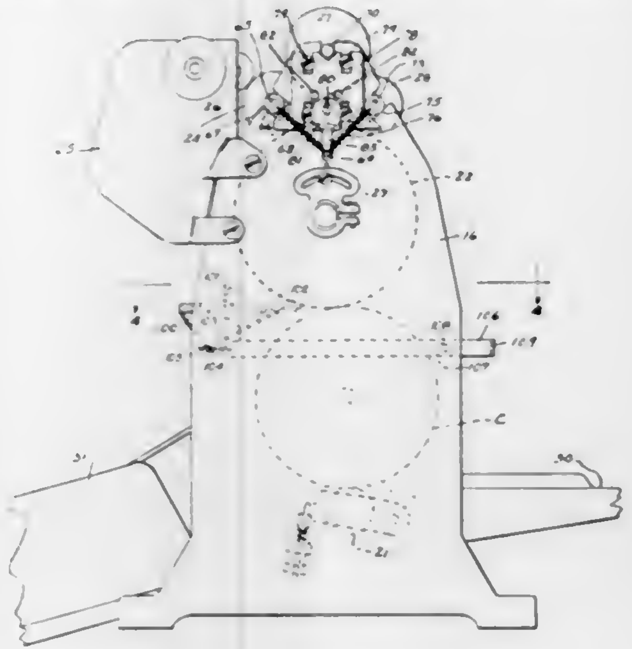


1. In a printing machine, a rotary drum embodying spaced apart means for attaching to the drum the respective ends of a master disposed on the periphery of the drum, driving means for said drum, clutch means interposed between said driving means and said drum, means for effecting engagement of said clutch means to set said drum in rotation, and means for effecting disengagement of the clutch means and operative to bring about disengagement of said clutch means in such angular relation with the positions of the spaced apart means on said drum as to cause said drum to come to rest in selected positions at which access may be readily had to the spaced apart means for attaching a master to the drum to thereby facilitate attachment to the ends of a master to the drum.

2,421,824
PRINTING MACHINE

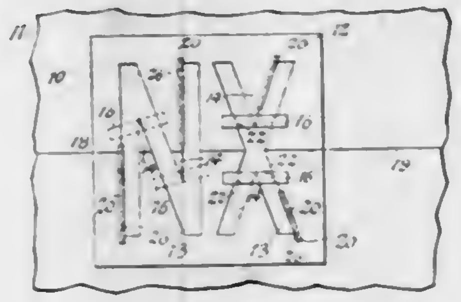
William R. Allen, Shaker Heights, and Charles H. Sand, Willoughby, Ohio, assignors to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Original application June 29, 1942, Serial No. 448,912. Divided and this application March 10, 1944, Serial No. 525,818
3 Claims. (Cl. 101—132.5)

1. An apparatus for printing on the planographic principle comprising the rotary drum, means for holding thereon a master sheet having an ink receptive image, two spacially arranged means for applying repellent to the master sheet, one of said means being constantly in engaging position, the other having a receptacle for liquid and a capillary carrier supplied thereby and normally out of engaging position, means operable at will for moving said carrier into and out of engaging position independent of the constantly acting applicator, and an inking roller adapted to engage the master sheet.



2,421,825
MEANS FOR APPLYING INDICIA

Maxwell K. Aulick, Orlando, Fla., assignor to Scott Aviation Corporation, Lancaster, N. Y., a corporation of New York
Application November 29, 1944, Serial No. 565,587
1 Claim. (Cl. 101—127)

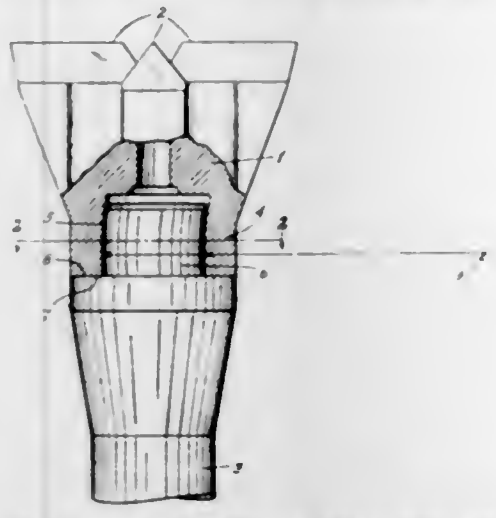


Means for applying indicia on a surface comprising a stencil sheet adapted to engage its rear side with the surface intended to receive the indicia and provided with a stencil opening through which the indicia producing material is applied to said surface, a bridge piece adhesively connected with the front side of said stencil sheet and extending across the opening thereof, a spacing piece arranged within said opening and having its front side adhesively connected with the rear side of said bridge strip and having a non-adhesive rear side which faces the indicia receiving surface opposite said opening, and a fastening strip adhesively connected with the front side of the stencil around said opening and with said surface around said opening.

2,421,826
SEPARABLE DRILL BIT

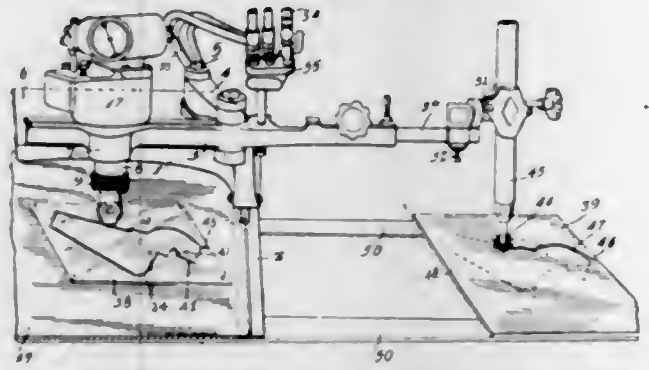
John B. Baker, Jr., Canton, Ohio
Application April 9, 1945, Serial No. 587,263
2 Claims. (Cl. 287—126)

1. A separable drill bit construction comprising a hollow bit having a bore for receiving the end of a drill rod, a rod having a shoulder against which the end of said bit abuts and a projecting pin extending into said bore, said bore and said pin being of constant circular section throughout their length and being curved endwise on an arc of long radius, the center of said arc being located forwardly of the plane of said shoulder.



2,421,827
APPARATUS FOR REPRODUCING SHAPES

Carl N. Boyd, Hollydale, Calif.
Application August 20, 1943, Serial No. 499,371
3 Claims. (Cl. 33—23)

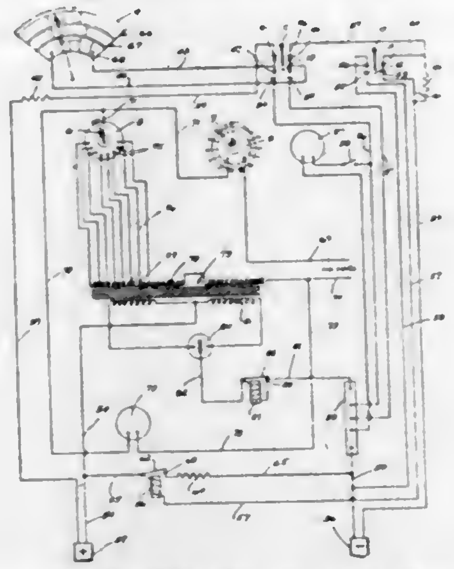


1. A tracer head for pantographic apparatus adapted to follow the contour of a guide groove in a templet, comprising: a swivel frame having a pivotal axis perpendicular to said templet, a drive wheel journaled in said frame, its plane of rotation coincident with said pivotal axis, the periphery of said drive wheel being treated to provide a driving edge; a ball traction member interposed between the edge of said drive wheel and said templet, said ball traction member adapted to be driven by said drive wheel and engage the opposite margins of said guide groove to center the axis of said swivel frame thereon and to move said tracer head in conformity with the contour of said guide groove.

2,421,828
FAST CHARGE UNIT

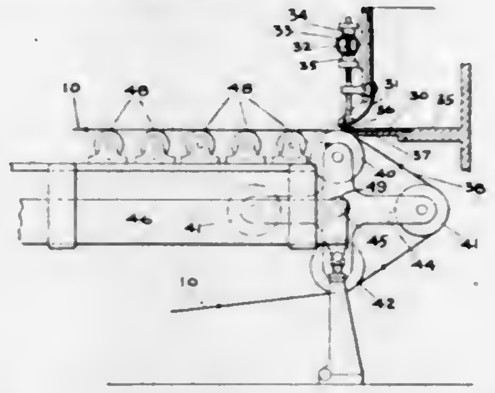
William E. Bruney, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application January 19, 1945, Serial No. 573,541
14 Claims. (Cl. 320—20)

14. The method of charging a storage battery comprising the steps of determining the time required to restore to its normal operating capacity an unsulphated battery having the same state of discharge as the battery to be charged by impressing thereon a substantially constant voltage within a predetermined range, and, after the battery has been charged for a predetermined portion of the aforementioned time interval and without interrupting the charging operation, revising said time interval as required to compensate for the lower current flow due to the degree of sulphation of the battery being charged and to insure the restoration of the battery to its normal operating capacity at the constant voltage selected.



2,421,829
FOURDRINIER PAPERMAKING MACHINE

Everett W. Clem, Shrewsbury, Mass., assignor to Rice Barton Corporation, Worcester, Mass., a corporation of Massachusetts
Application July 28, 1944, Serial No. 546,956
5 Claims. (Cl. 92—44)



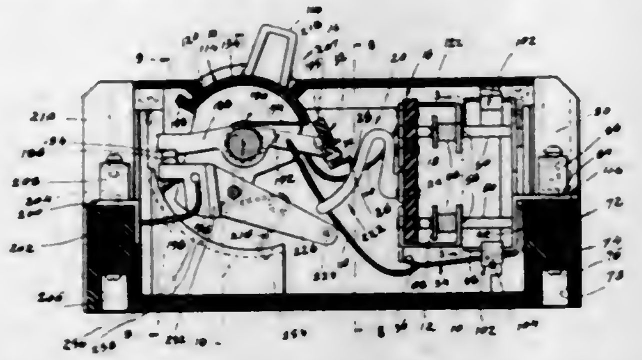
4. A Fourdrinier paper making machine comprising means including table rolls for supporting the wire in substantially a plane and providing unobstructed drainage of water passing through the wire, a head box having slice plates arranged for regulatably flowing pulp directly onto the wire, a set of return wire rolls arranged with their axes in different horizontal planes and with the upper roll forming a first roll that supports the wire in substantially said plane in advance of the first table roll, and a revolvable frame supporting the return wire rolls which provides for movement of the rolls to and from their operative wire supporting positions.

2,421,830
MULTIPOLE TRIPPING DEVICE

Louis W. Cole and Thomas M. Cole, New York, N. Y., assignors to Cole Industries, Inc., Long Island City, N. Y., a corporation of New York
Application December 4, 1942, Serial No. 467,842
25 Claims. (Cl. 200—116)

22. In a tripping device for a multi-pole switch, a tripping member mounted for tilting movement from a set position to a released position, and three triangularly arranged current-responsive thermostatic strips releasably engageable with said tripping member for holding the same in set position, said tripping member and said strips being constructed and arranged so that all three

of said strips act conjointly to hold said tripping member in said set position thereof and so that



said tripping member is movable to said released position thereof when any one of said thermostatic strips releases said tripping member.

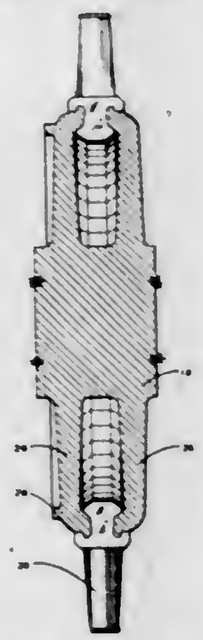
2,421,831
SINGLE STAGE PRODUCTION OF GAS EXPANDED RUBBER

Alfred Cooper, Croydon, England, assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 4, 1943, Serial No. 477,992. In Great Britain February 10, 1941
5 Claims. (Cl. 260—724)

1. A process for the production of gas expanded rubber which comprises incorporating in a vulcanizable rubber mix a vulcanization accelerator and a blowing agent which, on heating, will form a gas; the accelerator being sufficiently active at room temperature and below that at which the blowing agent forms the gas to partially vulcanize the rubber to enable the rubber to retain the said gas when the mix is heated to the final vulcanization temperature; and thereafter, without any intermediate gassing operation enclosing the unexpanded rubber mix in a mold of dimensions sufficient to permit of the desired expansion of the material, heating it to the final vulcanization temperature and finally cooling before opening the mold.

2,421,832
BALANCING A TURBINE ROTOR

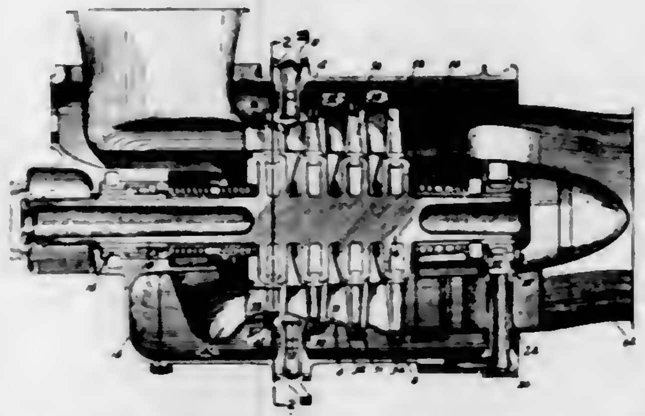
Val Cronstedt, Marlboro, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application July 23, 1943, Serial No. 495,934
6 Claims. (Cl. 253—69)



1. A turbine rotor for an axial flow turbine, said rotor having a number of axially spaced discs integral with and extending radially from a one-piece hub, said discs supporting a number of axially spaced rows of turbine blades, the blades in each row being secured to the discs at their inner ends and extending radially outward therefrom, and a projecting annular rib on the outer side only of each end disc, each rib being located adjacent to the outer radial periphery of the disc, said ribs being integral with the discs and extending beyond the part of the disc essential for carrying the centrifugal loads resulting from rotation of the rotor, the mass of material of the ribs being insufficient to impart substantial bending stresses to the discs or blades during rotation.

2,421,833
TURBINE CONSTRUCTION

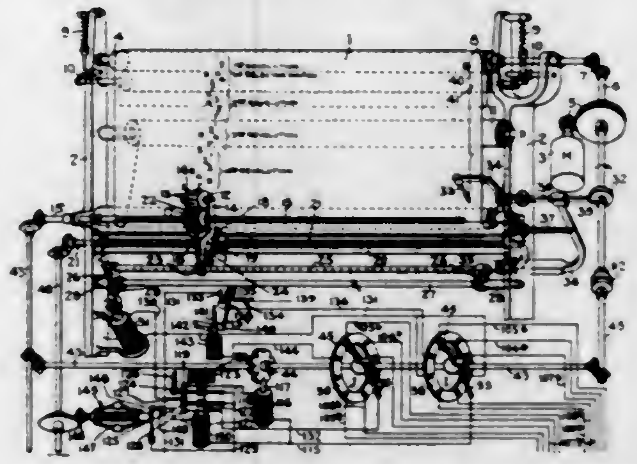
Val Cronstedt, Marlboro, and Walter A. Ledwith, Hartford, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 11, 1943, Serial No. 486,619
9 Claims. (Cl. 253—69)



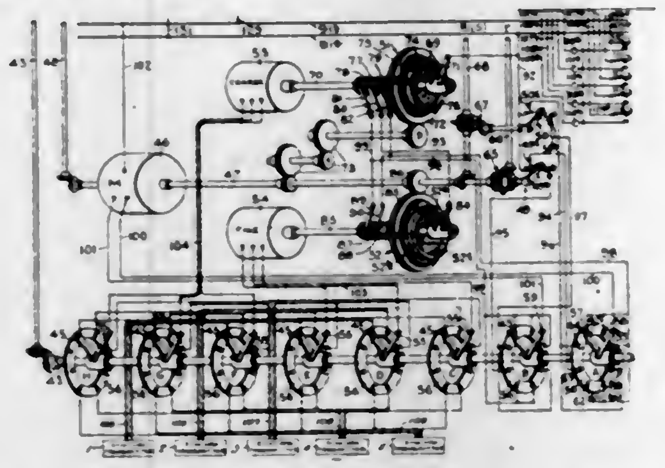
1. In a turbine construction, a housing, a casing within the housing comprising a plurality of rings in end-to-end engagement, at least some of said rings being split longitudinally, and supporting means for the casing extending between the housing and one of said rings, said supporting means constituting the sole support for the casing.

2,421,834
RECORDING MECHANISM

George A. Crowther, Manhasset, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application September 12, 1942, Serial No. 458,159
13 Claims. (Cl. 234—5.5)



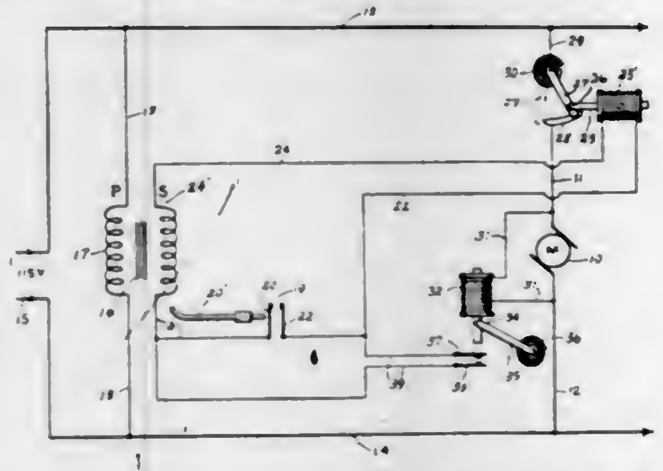
1. In combination with a plurality of electrical circuits carrying variable currents representing positional data, a receiver unit having an element positioned in accordance with the current supplied thereto, a multiple position rotary switch, the switch being effective in each position to connect one of the circuits to the receiver unit, continuous torque applying means connected to drive the switch, a plurality of circuit selecting means corresponding respectively to the plurality of electrical circuits, and torque opposing means effective upon actuation of any one of the circuit selecting means to stop rotation of the switch at the position to connect the receiver unit to the circuit corresponding to the selecting means actuated.



8. In combination with a plurality of electrical circuits carrying variable currents representing positional data, a receiver unit having an element positioned in accordance with the current supplied thereto, a multiple position rotary switch, the switch being effective in each position to connect one of the circuits to the receiver unit, torque applying means connected to drive the switch, a plurality of circuit selecting means corresponding respectively to the plurality of electrical circuits, torque opposing means effective upon actuation of any one of the circuit selecting means to stop rotation of the switch at the position to connect the receiver unit to the circuit corresponding to the selecting means actuated, indicator means having a plurality of characters each corresponding to one of the positions of the switch, means driving the switch and the indicator means in unison to place the character corresponding to the selected switch position in position for indicating, and means actuated by the element of the receiver unit to move the indicating means to a position representing the current carried by the selected circuit.

2,421,835
TIME CONTROLLED MECHANISM FOR PHONOGRAPH APPARATUSES

Lyndon A. Durant, Chicago, Ill.
Application August 12, 1946, Serial No. 689,923
1 Claim. (Cl. 161—1.5)

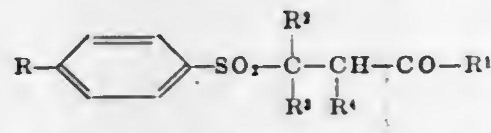


Control mechanism for coin-controlled phonograph apparatuses in which there is an operating motor and a power circuit for said motor, comprising an electrically operated circuit breaker for said circuit, a device for timing the duration of the closing of said circuit by said circuit breaker, an electromagnetic element for conditioning said device for said timing operation, a coin-controlled circuit for said electromagnetic element, a non-coin-controlled circuit for said electromagnetic element including a switch, a member movable in a direction to engage and close said switch, a timing device for moving said member into said switch engaging and closing position, and electromagnetic means for moving said member in an opposite direction and for conditioning said timing device to move said member into said engaging and switch closing position.

2,421,836
KETO-SULFONES

Moses Wolf Goldberg, Montclair, N. J., assignor to Hoffmann-La Roche, Inc., Roche Park, Nutley, N. J., a corporation of New Jersey
No Drawing. Application August 16, 1944, Serial No. 549,797
4 Claims. (Cl. 260—397.6)

1. Sulfones corresponding to the general formula



$$R-C_6H_4-SO_2-\underset{R^3}{\overset{R^2}{C}}-\underset{R^4}{CH}-CO-R^1$$

wherein R is amino, COR^1 is an acyl radical in which R' is a hydrocarbon radical, and R^2, R^3, and R^4 each stands for a member of the group consisting of hydrocarbon radicals and hydrogen.

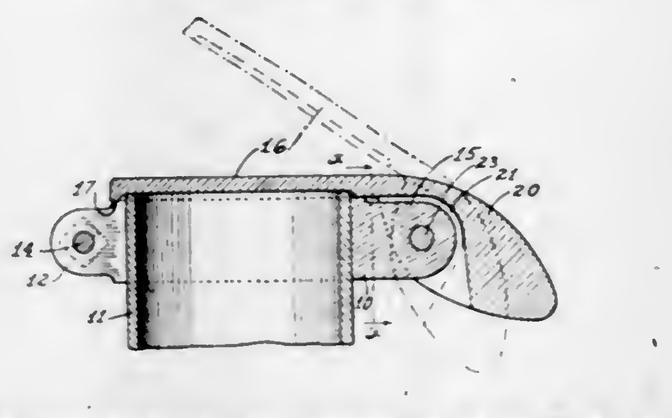
2,421,837
HYDROXY-CYANOALKYL NAPHTHALENES

Albert F. Hardman, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application October 24, 1945, Serial No. 624,327
6 Claims. (Cl. 260—465)

1. A 1-(2-cyanoalkyl)-2-hydroxynaphthalene.

2,421,838
CLOSURE FOR EXHAUST PIPES

Cline Harry Harmon and Dorathea L. Fort, Waterloo, Iowa, assignors to Waterloo Foundry Company, Waterloo, Iowa, a copartnership
Application May 9, 1945, Serial No. 592,902
7 Claims. (Cl. 98—59)



1. In combination, an upwardly extending exhaust pipe constituting a conduit element for the exhaust gases of a gas engine, and a closure device mounted on said conduit element and comprising a frame element surrounding the upper portion of the conduit element, a laterally extending lug connected to said frame element, a

closure flap normally covering the open end of said conduit element and movable to open position by the pressure of exhaust gases discharging through said conduit element, a counterweight connected to said flap and having a portion extending laterally past the axis of said pivotal connection for counterbalancing a substantial portion of the overhanging weight of the flap, said counterweight having a cavity formed in the underside thereof, said flap being mounted on the frame element with said lug fitted in said cavity with the side walls of said cavity around said lug, a pin pivotally connecting the side walls of the cavity to said lug, and stop means carried by said counterweight and adapted to abut one of said elements for limiting opening movement of the closure flap to a position for insuring movement of said closure flap toward closed position upon reduction of pressure of the exhaust gases.

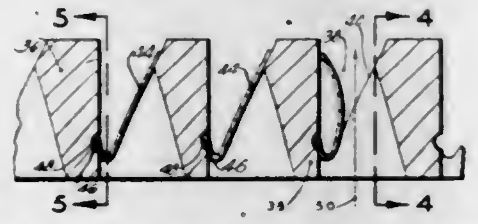
2,421,839

GAS VALVE

Andrew Kalitinsky, Eagleville, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application January 28, 1944, Serial No. 520,058

4 Claims. (Cl. 277—60)



1. A gas valve comprising a base having several spaced similar bars integral therewith and defining gas passages, and several substantially flat elastic valve plates closing these gas passages, each bar supporting one plate and forming the valve seat for the adjoining valve, each supporting bar having a notch and the valve having a flange of which extends back upon the valve and is engageable with the notch for rigidly holding the valve in position, said plate engaging said base adjacent to the flange for holding said flange releasably within the notch.

2,421,840

CLEANING OF CONTACT MASSES BY GASEOUS SUSPENSION AND DELIVERY THEREOF TO A DOWNWARDLY MOVING BED

Charles H. Lechthaler and John W. Payne, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

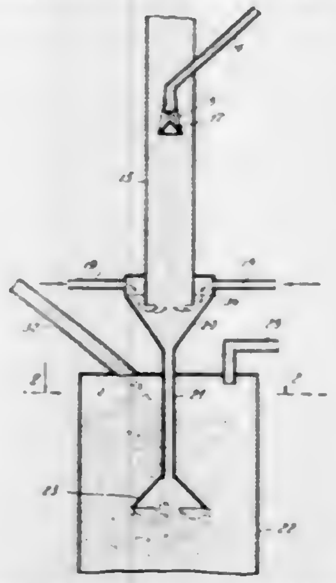
Application July 8, 1943, Serial No. 493,842

2 Claims. (Cl. 209—133)

1. In a system wherein a particle-form solid contact mass material is flowed cyclically through at least two zones, in one of which it moves slowly downwardly at a linear rate V per unit of time as a compact bed over the surface of which bed is maintained a gaseous atmosphere, and in which a portion of the cyclically flowing solid is diverted prior to entry to said bed-zone and subjected to scrubbing in a scrubbing zone with a gaseous atmosphere to remove undersized material, the method of introducing cleaned solid to said bed-zone while substantially preventing gaseous flow between said scrubbing zone and said atmosphere over the surface of said bed, which comprises the steps: directing the cleaned solid from said scrubbing zone as a confined stream of freely falling solid particles to a location in said bed-zone substantially below the surface thereof, said stream being of substantially less cross-sectional area than said bed-zone, and increasing the cross-sectional area of said stream at said location within said bed to such an extent that said increased area is at least equal to the quotient

$$\frac{U}{V}$$

where U is the volume of solid, measured as a compact mass, freely falling in said stream per unit of time.



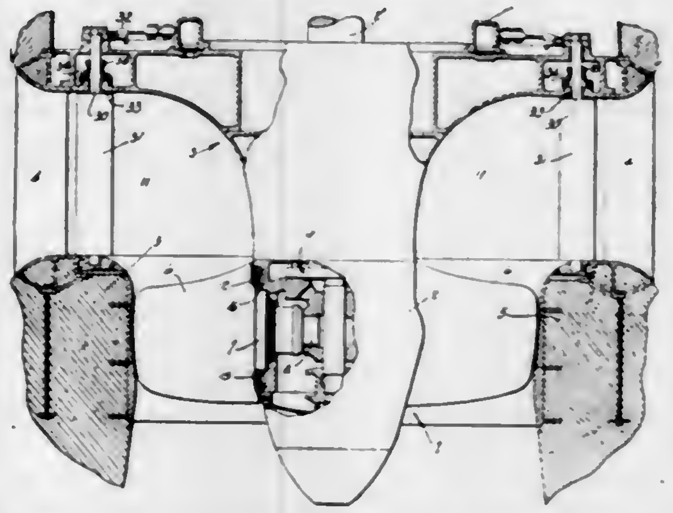
2,421,841

SEAL FOR HYDRAULIC TURBINES AND PUMPS

Robert Lowy, Philadelphia, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania

Application April 3, 1944, Serial No. 529,343

5 Claims. (Cl. 253—148)



1. The combination in a rotary hydraulic machine having a runner hub and angularly adjustable runner blades journalled therein, said blades and hub having relatively large annular surfaces normal to the axis of blade adjustment and both surfaces being located within the width of the runner blades adjacent said hub, a sealing member having a relatively flat but distortable annular sealing portion extending flatwise in a plane normal to said axis between said annular surfaces, means for rigidly securing one edge portion of the sealing member to one of said surfaces, and means for rigidly securing the other edge portion of the sealing member to the other annular surface so that during angular movement of the blade the flat portion of the sealing member is angularly distorted.

2,421,842

PROCESS OF PRODUCING TALL OIL DRYING OILS

Frederick Charles Martin, Guttenberg, N. J.

No Drawing. Application December 1, 1944, Serial No. 566,259

23 Claims. (Cl. 260—97.5)

1. In the process of treating tall oil, the step of esterifying said oil with at least one polyhydric alcohol in the presence of at least one siliceous catalyst.

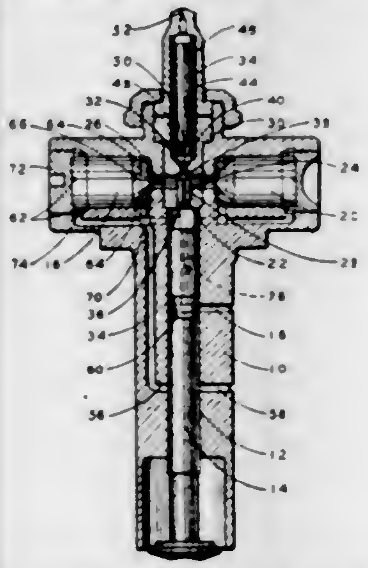
2,421,843

ACCUMULATOR FUEL INJECTION SYSTEM

Donald E. Meitzler, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application July 23, 1943, Serial No. 495,928

6 Claims. (Cl. 103—41)



1. Injection apparatus comprising a pump, an accumulator chamber in which fuel is accumulated by said pump, and means for venting said chamber in any position of the chamber to remove gas bubbles collecting therein, said means including several ports in the chamber so arranged that at least one of the ports will be at the high point of the chamber in substantially any position of the chamber.

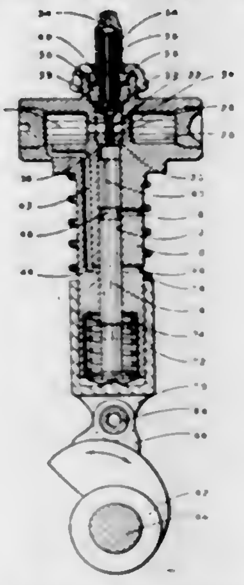
2,421,844

FUEL INJECTION SYSTEM

Donald E. Meitzler, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application January 28, 1944, Serial No. 520,068

9 Claims. (Cl. 103—154)



1. An injection pump including a plunger, a casing in which the plunger reciprocates, a non-circular cam for moving the plunger and a rocking bearing shoe connected to the plunger and engaging the cam, the part of said cam which engages the shoe during the portion of the injection stroke at which the highest pressures on the plunger develop having a substantially constant radius of curvature and the bearing surface of the shoe having substantially the same radius of curvature.

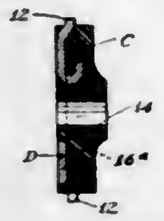
2,421,845

COMMUTATOR STRUCTURE

George L. Moeller, St. Louis, Mo., assignor to Knapp-Monarch Co., St. Louis, Mo., a corporation of Missouri

Application September 11, 1944, Serial No. 553,578

3 Claims. (Cl. 171—320)



1. In a commutator structure, a washer-like disc having hook-like portions adjacent the center opening thereof and having at its periphery radially projecting terminals, provided with offset portions a core molded to surround said offset portions of said terminals and said hook-like portions and substantially flush with one face of the disc, said core having a shaft hole therethrough, and said disc and core being slotted radially between said hook-like portions and said terminals for providing electrically separated commutator disc segments.

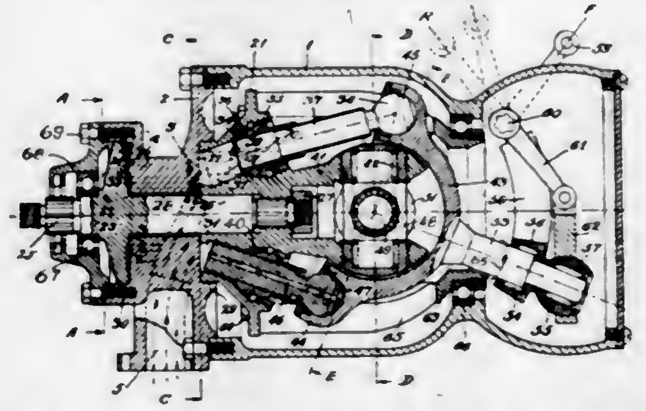
2,421,846

FLUID PRESSURE ENGINE

Alfons H. Neuland, Jersey City, N. J.

Application September 27, 1943, Serial No. 504,030

21 Claims. (Cl. 103—162)



1. A rotary fluid pressure engine comprising in combination a stationary housing having a valve body providing a valve face and inlet and outlet fluid ducts terminating in the valve face and forming inlet and outlet fluid ports; a cylinder rotor including a cylinder element having a tension shaft extending axially between said ports and providing a cylinder face arranged adjacent to the valve face forming a working clearance therebetween and subjected to thrust by fluid under pressure in one of said ports and further providing fluid chambers disposed about the rotational axis of the rotor and arranged in an inclined position to diverge outwardly from the cylinder face, the rotor further including a tension yoke extending beyond said fluid chambers from an inner portion of the cylinder element and an outer support extending beyond the fluid chambers from an outer portion of the cylinder

element providing an outboard bearing supporting the rotor by the housing; a rotatable piston actuating element arranged between the tension yoke and said outer support adapted to rotate with the rotor providing spherical sockets along its outer periphery and a central bearing adapted to rotationally support the piston actuating element on an axis angularly displaced with respect to the rotational axis of the rotor; reciprocable pistons articulatably associated with said sockets, and arranged within said chambers for transferring thrust exerted by fluid under pressure to said piston actuating element; means associated with the tension yoke of the rotor and with said piston actuating element providing a universal driving connection therebetween and forming a thrust joint transferring axial thrust from the piston actuating element to the rotor; thrust transferring means associated with the tension shaft and with the valve body counteracting axial thrust upon said rotor with fluid under pressure from one of said ports; and means associated with the housing and with said central bearing rotatively supporting the piston actuating element on an axis angularly displaced with respect to the rotational axis of the rotor.

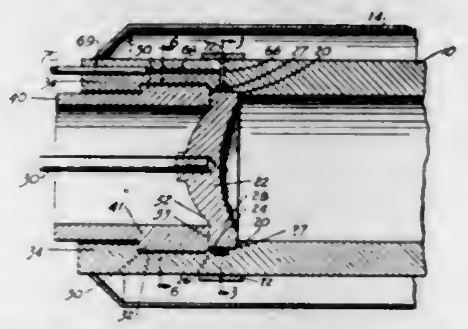
2,421,847

HYDRAULIC CLOSURE FOR AUTOCLAVES

Hans Pfleumer, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware

Substituted for abandoned application Serial No. 445,249, May 30, 1942. This application November 22, 1946, Serial No. 711,577

1 Claim. (Cl. 220—46)



In an autoclave closure device, the combination, with an autoclave having its head end provided with a cylindrical bore having at least three different interior diameters stepped to increase outwardly toward the extreme head end to provide two shoulders, the portion of said bore of smallest diameter serving as a part of the pressure chamber of the autoclave, the portion of the bore of largest diameter serving to receive a holding device, and the portion of the bore of intermediate diameter serving to receive a cover; said autoclave having inward extending arc-shaped lugs, spaced apart, at its head end, the diameter of the inner concentric arcs of said lugs being greater than that of the portion of the autoclave bore of intermediate diameter, said autoclave also having a groove in the inner wall of that portion of the bore of intermediate diameter, and a conduit for fluid pressure extending from said groove to the exterior of the autoclave; of a cover having a cylindrical periphery arranged to fit in the portion of the bore of intermediate diameter and extend across the said groove, the inner face of said cover being arranged to make contact with the shoulder formed between the portions of the bore of intermediate and smallest diameters, said cover having an axially arranged guiding and supporting stem extending outward from the cover; a cylindrical holding device having a face arranged to make contact with the outer face of the cover and also having arc-shaped lugs, on its outside, spaced apart, the exterior diameter of the concentric arcs of said lugs being such as to fit in that part of the bore of largest diameter, that portion of the holding device exterior to its lugs having a diameter such that it will be received within the inward extending lugs carried by the autoclave, said holding device being rotatable within the head end of the autoclave, to bring its lugs in register with the spaces between the inward-extending lugs of the autoclave, and to allow its lugs to interlock behind said lugs of the autoclave while in contact with the outer face of the cover, and an annular elastic gasket located in the groove, said gasket being U-shaped in cross section with its cylindrical base wall of substantially the same diameter as that of the periphery of the cover and its annular flanges in contact with the respective side walls of the groove, the said base wall of the gasket being of such width as to make a packing engagement with the periphery of the cover when said cover is in place and fluid pressure is applied to said conduit.

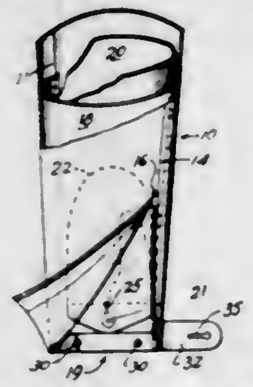
2,421,848

CLOTHING

Alexander Philipps, Chicago, Ill.

Application December 17, 1945, Serial No. 635,438

6 Claims. (Cl. 2—270)



1. In a garment of the character described including a sleeve having an outer covering and a lining, stitching securing a portion of the lower end of the lining to the cuff of the sleeve, the unstitched portion and the outer covering forming a downwardly opening compartment, a button secured in the compartment to the lining, and a mitten pivotally mounted on said button and adapted to rotate on said button from a depending wearing position to an upstanding storage position in said compartment.

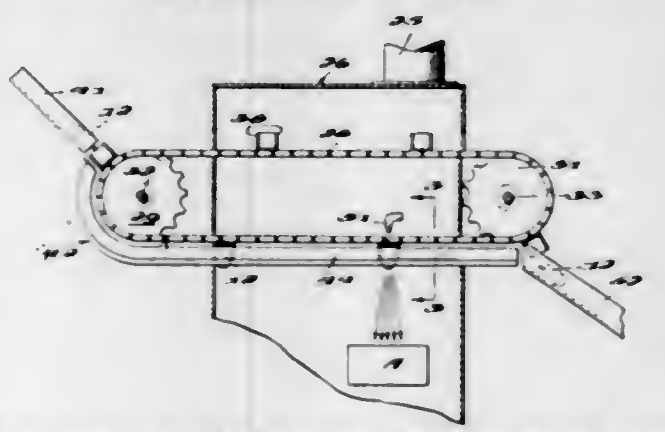
2,421,849

ABRASIVE BLASTING

Percy J. Potter, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland

Application March 13, 1945, Serial No. 582,531

7 Claims. (Cl. 51—282)



7. A method of abrasive blasting which comprises burning a gas generating propellant in a confined space containing abrasive particles and having an orifice, permitting the expanding gases to escape from said confined space through said orifice as a forceful jet containing said abrasive particles, and utilizing said particles to blast an object.

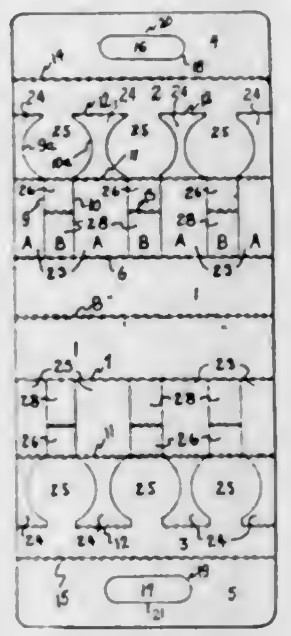
2,421,850

CARRIER FOR MERCHANDISE

William A. Ringler, Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio

Application September 1, 1944, Serial No. 552,293

7 Claims. (Cl. 224—45)



1. In a carrier for articles, an elongated paperboard blank divided by transverse score lines into a bottom wall, side wall members on each side of the bottom wall, additional walls adapted to extend inwardly slantwise and handle grip portions on the outlying sides of the last mentioned walls, the said side walls and said additional walls being divided by cuts in the direction of the length of the blank into a series of strips, certain of said strips arranged to bend on intermediate score lines to provide portions forming said side walls and extending upwardly from the bottom wall in the erected structure, and other portions forming said additional walls and extending upwardly and inwardly to permit juxtaposition and erection of the handle grip portions vertically and above the median portion of the bottom wall, the remainder of said strips arranged to be deflected inwardly of the erected structure, and scored to provide portions substantially vertically disposed in the plane of the handle grip portions, other portions overlying the bottom wall in substantial parallelism thereto, and slantwise disposed portions connecting said first mentioned portions.

2,421,851

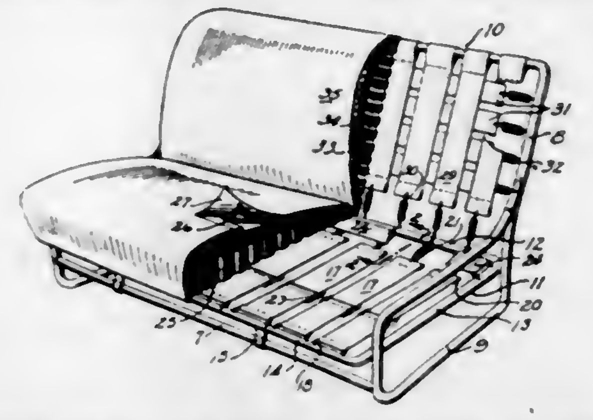
VEHICLE SEAT

Lawrence B. Rivard, Dearborn, and Walter Jensen, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application May 17, 1943, Serial No. 487,266

1 Claim. (Cl. 155—53)

In combination in a vehicle seat construction, a floor engaging portion formed of tubular material, a horizontally extending, substantially rectangular base frame of similar material supported above the floor engaging portion and rigidly secured thereto, a vertically extending back frame arranged at an angle to said floor engaging portion and said horizontally extending base frame and rigidly secured thereto, web structures comprising a plurality of substantially nonextensible spaced longitudinal and spaced transverse fabric straps suspended from each of said frames, said transverse straps in said base frame being equipped with selective tension adjuster loops and being hingedly secured to said base frame at the front thereof and terminating in a spring which, in turn, is attached to the rear member of said base frame, said transverse straps in said back frame being hingedly secured to said back frame at the top thereof and terminating in a spring which, in turn, is secured to the said rear member of the said base frame, the lengths of said springs being small in proportion to the lengths of their respective fabric straps and said springs being concentrated adjacent the rear member of said base frame.



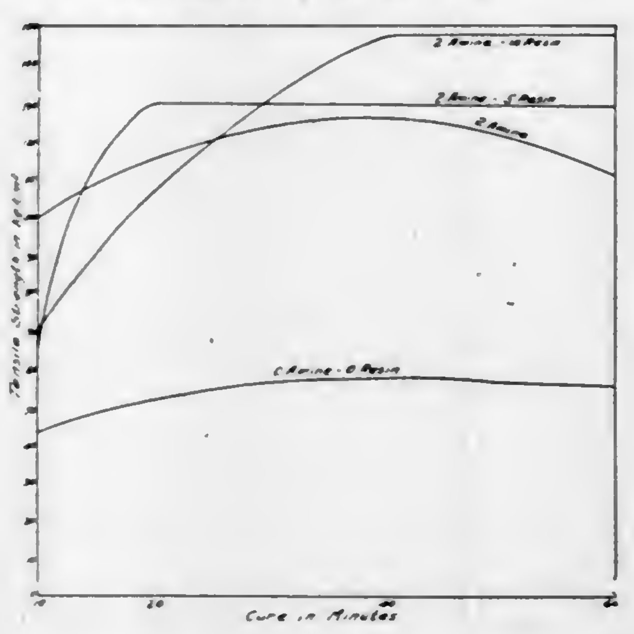
2,421,852

THERMOSETTING COMPOSITION CONTAINING VINYL CHLORIDE-VINYLIDENE CHLORIDE COPOLYMER

Thomas H. Rogers, Jr., and Robert D. Vickers, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application June 11, 1943, Serial No. 490,489

8 Claims. (Cl. 260—43)

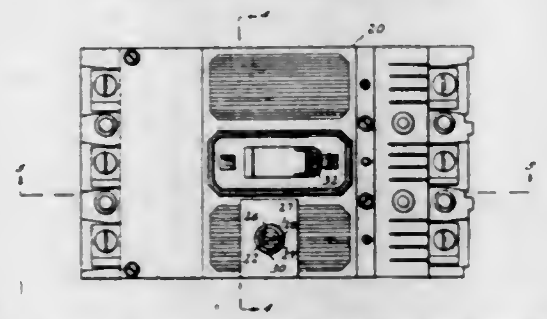


7. A method of preparing a thermoset polymer which comprises mixing a copolymer prepared from 75 to 90 percent by weight of vinyl chloride and 25 to 10 per cent of vinylidene chloride with from 1 to 10 percent of an aliphatic amine made up of only carbon, hydrogen and amino nitrogen atoms and from 2 to 10 percent by weight of a heat-hardenable resin prepared by the condensation of one of the phenols with one of the alde-

hydes, and then subjecting the copolymer to heat until there is obtained a polymeric material having a tensile strength at least 50 percent greater than that of the uncured stock.

2,421,853
CIRCUIT BREAKER LOCKING DEVICE

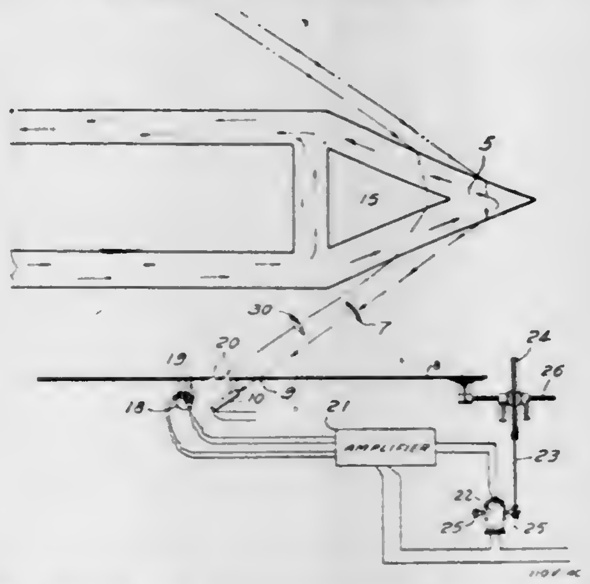
William M. Scott, Jr., Bryn Mawr, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 27, 1942, Serial No. 467,096
3 Claims. (Cl. 200—109)



1. A circuit interrupter having an operating arm and tripping mechanism; a locking device engageable in one position thereof with said tripping mechanism; and in a second position thereof with both the tripping mechanism and the operating arm to render both elements inoperative to open the circuit-breaker; a handle for operating said locking device, said handle being operable on rotation thereof to move said locking device to selected position; and means for locking said handle in said first and second selected positions and thereby locking said locking device in selected position.

2,421,854
TEMPERATURE COMPENSATOR FOR REFRACTOMETERS

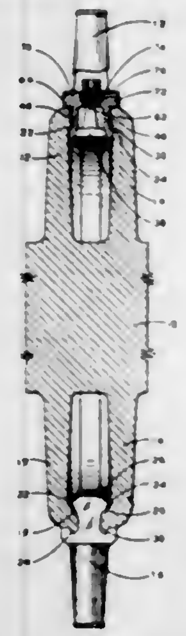
William Seaman, New York, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application September 28, 1944, Serial No. 556,270
4 Claims. (Cl. 250—41.5)



1. A device for transforming changes of refractive index of a fluid into electrical currents which comprises, in combination, means for producing a narrow line or band of substantially monochromatic radiation, a hollow prism, means for passing a fluid therethrough, an opaque plate having an opening and at least one slit, a side of which opening is in the form of a straight edge, a photoelectric device behind said straight edge, means for causing the line or band the axis of which is parallel to the straight edge to pass through the prism and to be imaged on the plane of said plate adjacent the straight edge, a second prism in heat exchanging relation with the fluid and composed of material the refractive index of which changes the temperature at substantially the same rate as the fluid, means for passing a narrow band of radiation of substantially the same wave length as the first band through said prism the axis of the band being parallel to said slit, means for imaging said band on said slit, a photoelectric device behind said slit and rigidly connected to the members defining the slit, the members defining said slit being rigidly connected with said plate, and means for moving said plate and slit defining members as a unit in the direction of movement of the bands of radiation.

2,421,855
TURBINE BLADE LOCKING DEVICE

Carl R. Soderberg, Weston, Mass., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application July 23, 1943, Serial No. 495,923
12 Claims. (Cl. 253—39)

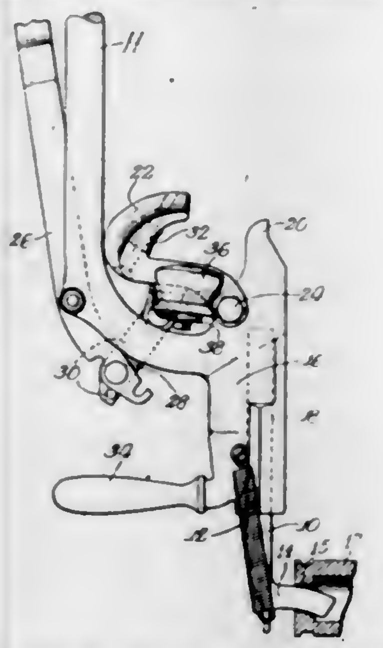


12. A locking device for a turbine rotor having spaced discs between which the root sections of a row of blades are mounted, said device being positioned between and filling the space between the roots of adjacent turbine blades in the row, said device including spaced filling pieces engaging opposed surfaces of said discs and a wedge between and engaging with said pieces for holding them in position, said wedge having opposed surfaces engaging with said filling pieces, said wedge extending substantially radially between said filling pieces, the inner end of said wedge adjacent to the axis of the disc being wider than the outer end so that said wedge converges in a direction radially outward of the disc in order to wedge the filling pieces apart by radial outward movement of the wedge, and means accessible externally of the discs for fastening said wedge in position between said discs.

2,421,856
TIRE REPLACING TOOL

Otto V. Teegarden, Goshen, Ind.
Application June 27, 1944, Serial No. 542,267
4 Claims. (Cl. 157—6)

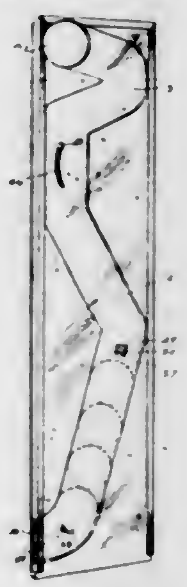
1. In a tire replacing tool, a shank having one end adapted for pivotal mounting relative to the center of rotation of the tire rim, a handle telescopically mounted on said shank, spring means tending to shorten the telescopic connection, a rim engaging shoe mounted on said handle for hooking on the tire rim, said rim engaging shoe having roller means engaging a portion of the outer periphery of the rim against the bias of



said spring means, said portion sloping toward the lateral center of the rim and said roller means substantially fitting said sloping portion of the rim, and a roller carried by said handle in advance of said rim engaging shoe for engaging the tire bead and lifting it over the rim and delivering it against said shoe.

2,421,857
COIN CHUTE

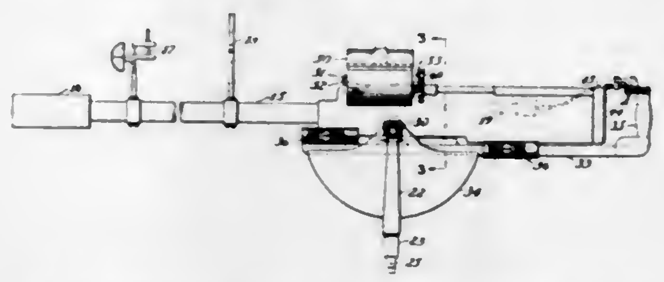
Walter A. Tratsch, Chicago, Ill., assignor to Clarence E. Threedy, Chicago, Ill., as trustee
Application February 19, 1945, Serial No. 578,584
8 Claims. (Cl. 194—1)



1. A coin chute comprising a housing having a coin passage formed therein with an entrance opening communicating with the upper end of the passage and an exit opening communicating with the lower end of the passage, means pivotally carried by the housing and having portions projecting into the passage for temporarily and simultaneously retaining coins at two different positions substantially spaced from each other within said passage, and means for pivoting said means to release the coins temporarily retained in the passage for movement by gravity from one of said two positions to said exit opening and to release coins from the other of said two positions for movement by gravity to said one of two positions.

2,421,858
SHOCK ABSORBING GUN MOUNT

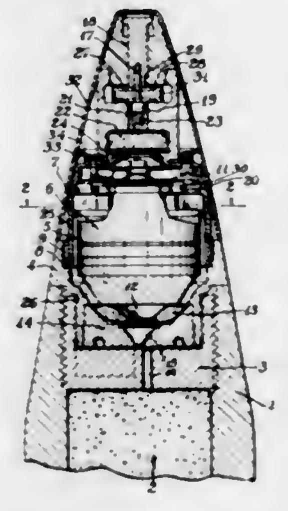
Clem G. Trimbach, Kenmore, N. Y., assignor, by mesne assignments, to Curtiss-Wright Corporation, a corporation of New York
Application December 14, 1934, Serial No. 757,434
7 Claims. (Cl. 89—44)



1. In a machine gun mount, a cradle support, said cradle having a plurality of longitudinal guideways on each longitudinal side thereof and on opposite sides of said cradle support, an element mounted for reciprocation on each said guideway, a recoil and a counter recoil buffer acting between said cradle and the rearward and forward faces, respectively, of each said element, and a plurality of members each engaging a pair of said elements, reciprocable therewith, upon which a machine gun is adapted to be fixedly attached.

2,421,859
MECHANICAL TIME FUSE

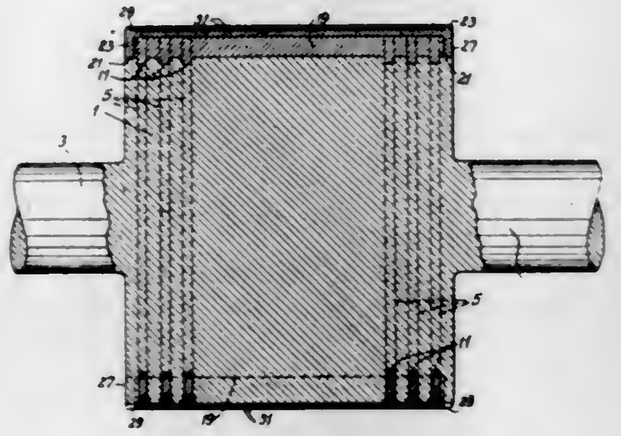
Maurice P. Whitney, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 1, 1943, Serial No. 481,455
1 Claim. (Cl. 102—71)



In an explosive projectile for rifled cannon, a compound fuse comprising a base having a cylindrical socket, a time control mechanism seated in the socket comprising a cylindrical casing, operating gearing mounted therein and a perforated timing disc outside of the casing, a cup-shaped retainer enclosing the time control mechanism and holding it in the socket, said retainer having an opening above the disc, a contact igniting device including a primary charge mounted in the fuse above the time control mechanism, and a secondary charge for igniting the base charge of the projectile in said base beneath the socket; said cylindrical casing having axially arranged exterior channels communicating with the space beneath the timing disc, and the base having openings registering with the channels thereby completing passages for conducting the flame from the primary charge through the openings in the retainer and timing disc to the secondary charge.

2,421,860
SQUIRREL-CAGE ROTOR FOR INDUCTION MACHINES

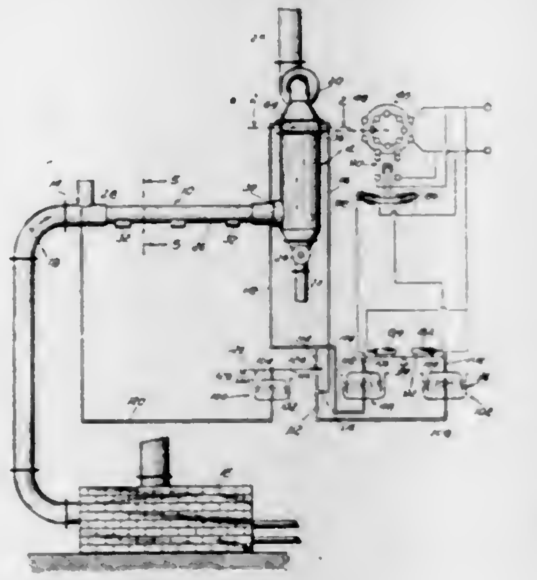
Martin P. Winther, Waukegan, Ill., assignor to Martin P. Winther, as trustee
Application May 2, 1945, Serial No. 591,544
18 Claims. (Cl. 172—120)



3. A rotor for electrical machines comprising a drum, relatively deep peripheral grooves located near the ends of the drum, continuous conducting rings located in the grooves, the radial depth of the rings being less than the depth of the grooves, said grooves being welded shut peripherally outside of the rings.

2,421,861
CONTROL APPARATUS

Henry A. Zeeh, Brooklyn, and Raoul A. Vacher, Lake View, N. Y., assignors to Rockwood & Co., Brooklyn, N. Y., a corporation of Delaware
Application September 1, 1943, Serial No. 500,824
10 Claims. (Cl. 230—2)



1. Means for regulating the flow of a gaseous medium through a conduit having an inlet and an outlet, said means comprising a valve for controlling said outlet, means for adjusting said valve, means responsive to the pressure of said gaseous medium at said outlet of the conduit for controlling the operation of said valve-adjusting means, and means responsive to the pressure of said gaseous medium at the inlet end of said conduit for controlling the operation of said first mentioned pressure-responsive means.

2,421,862
PROCESS FOR PRODUCING POLYHYDRIC ALCOHOLS

Erving Arundale, Colonia, and Louis A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 31, 1940, Serial No. 372,494
3 Claims. (Cl. 260—635)

1. An improved process for obtaining large yields of polyhydric alcohol by reaction of cyclic formals with an aliphatic alcohol, which comprises heating the cyclic formals with methyl alcohol in the presence of an acid reacting catalyst and removing methylal formed in the reaction as a vapor.

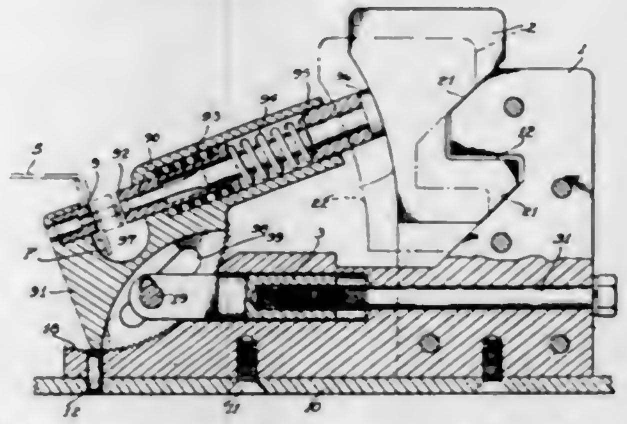
2,421,863
PROCESS FOR DRIVING OUT OCCLUSIONS OF GASES LIKE HYDROGEN FROM THE SURFACE LAYERS OF WORKPIECES

Richard Beck, Wiesbaden, Germany; vested in the Attorney General of the United States
No Drawing. Application April 25, 1941, Serial No. 390,374. In Germany April 26, 1940
3 Claims. (Cl. 204—32)

1. A process for cleaning, comprising driving out of occluded gases and removal of oxide films and surface embedded impurities including carbides from the exterior layers of metals consisting in using the metal to be cleaned as an anode in an aqueous bath where the pH is at least 7, operating this bath with current impulses whose duration varies from one second to sixty seconds according to the metal to be cleaned and is sufficiently long to oxidize impurities in and on the metal surface and to remove occluded gases but is stopped before oxidation and solution of any metal of the surface takes place, repeating these anodic impulses a sufficient number of times to bring about a gas development which is uniform over the entire surface area and depositing an additional metal layer by electro-plating.

2,421,864
ANGLE PUNCH UNIT

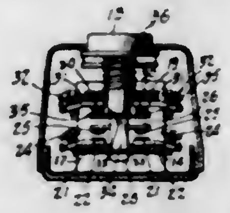
Henry J. Becker, Floral Park, N. Y., assignor to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington
Application September 4, 1945, Serial No. 614,277
13 Claims. (Cl. 164—94)



1. An angle punch unit comprising a base, a die, a cooperating punch, a punch housing supporting the die and punch, and guiding the punch for operative linear movement relative to its die, means to secure said punch housing upon the base in any one of a plurality of angularly adjusted positions, and a plunger guided in said base for movement vertically, the base and plunger having cooperating inclined surfaces affording a lateral component of movement to the plunger coincident with its vertical movement, a surface of the plunger being disposed for engagement with said punch, in any of the latter's adjusted positions, to shift it axially into operative engagement with its die.

2,421,865
PUSH-BUTTON SWITCH

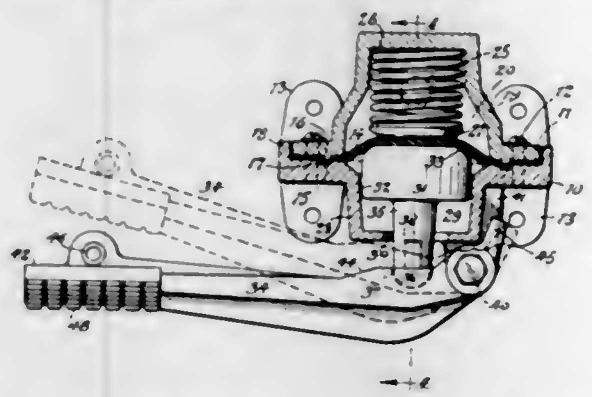
Lyle Beeman, Ann Arbor, Mich., assignor to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Original application February 22, 1943, Serial No. 476,667. Divided and this application March 17, 1945, Serial No. 583,265
3 Claims. (Cl. 200—159)



1. A control switch for electromagnetic controllers comprising a housing, a base plate fixed in said housing, a top plate spaced from and substantially paralleling said base plate, a pair of end plates interlocked with the ends of said base and top plates to form an open frame within said housing, means coacting with said end plates for maintaining said interlocked relation, a pair of stationary switch contacts on said base plate, a plunger guided in said base and top plates, a pair of movable switch contacts carried by said plunger for coaction with said first named contacts to provide a normally open switch, a second pair of stationary contacts on said top plate, a second plunger guided in said base and top plates, and a second pair of movable contacts to provide a normally closed switch, said plungers being separately operable to close said normally open switch and to open said normally closed switch.

2,421,866
COMPRESSOR FOR HYDRAULIC BRAKE UNITS AND THE LIKE

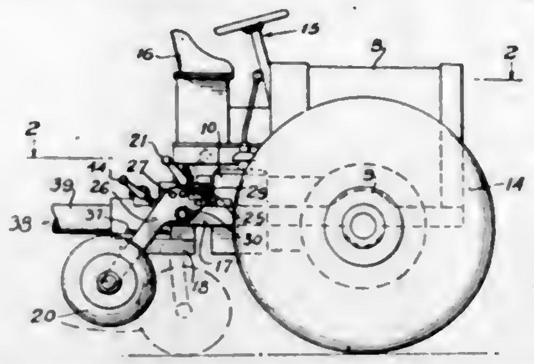
Howard A. Benzel, Marilla, N. Y., assignor to Scott Aviation Corporation, Lancaster, N. Y., a corporation of New York
Application December 24, 1942, Serial No. 470,055
2 Claims. (Cl. 60—54.6)



1. A fluid compressor, comprising a front casing section having a forwardly projecting hollow neck the bore of which is of forwardly tapering form, a rear casing section having a fluid inlet and outlet, a flexible diaphragm having its marginal edge secured between said casing sections and forming with said rear casing section a pressure chamber, a plunger arranged within the front casing section and neck and engaging said diaphragm and having a forwardly tapering periphery, and an operating lever engaging said plunger.

2,421,867
TRACTOR

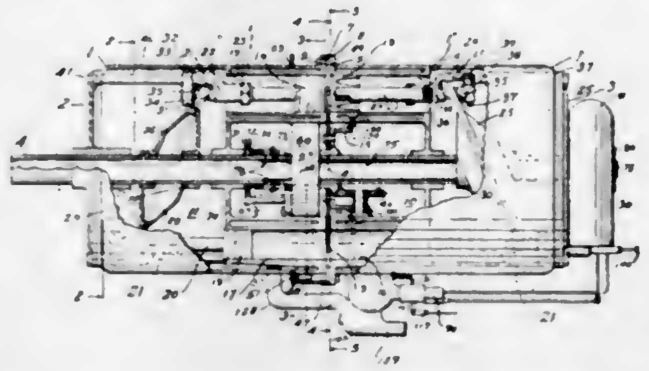
Stanley Bizjak, Crivitz, Wis.
Application October 27, 1944, Serial No. 560,529
4 Claims. (Cl. 180—12)



1. A vehicle of the kind described comprising a frame or chassis, an arm pivoted to said frame to swing in a vertical plane, a ground wheel carried by said arm to be swung thereby to and from a ground-engaging position, said arm having a sector with a series of cog teeth arranged concentrically in relation to the axis about which said arm swings, a cog-wheel mounted upon said frame in mesh with the teeth of said sector, means connected with said cog-wheel to turn it in reverse directions to raise and lower said ground wheel, said sector having a series of apertures extending along its arcuated portion and said frame having a series of apertures individually registrable with the first named apertures, and a locking pin insertable through alined apertures of said two series to releasably lock said ground wheel in adjusted positions.

2,421,868
BARREL TYPE ENGINE

Ransom Y. Bovee, Van Nuys, Calif.
Application April 23, 1943, Serial No. 484,201
12 Claims. (Cl. 123—58)

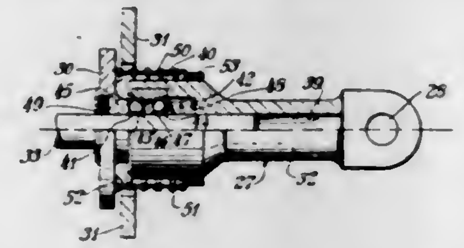


1. In an internal combustion engine of the compression ignition type, said engine comprising alternate opposing pairs of air-compression cylinders and opposing pairs of explosion cylinders, regulated air inlets for the compression cylinders, exhaust outlets for the explosion cylinders, two-stroke action pistons in the compression cylinders and means to move the pistons so that opposing pistons have opposite motion and meet in a predetermined sequence, two-stroke action pistons in the explosion cylinders and means to regulate the movement of these pistons so that opposing pistons have opposite motion and meet in a lead sequence with respect to the compression cylinders supplying the air thereto, a rotating cylinder-head type of valve plate intermediate and between the opposed ends of the cylinders, means adapted to admit air into the compression cylinders and from there transfer the air into the explosion cylinders, means to diffuse fuel into the air while in transfer between

the compression cylinders and the explosion cylinders and ignite the fuel-air mixture by the heat of compression of the air, means to conduct the ignited mixture to the explosion cylinders over the pistons therein during the beginning of their working stroke, and means to exhaust the burned gases at the end of the power strokes of each explosion cylinder.

2,421,869
AUTOMATICALLY ADJUSTABLE FORCE TRANSMITTING LINK

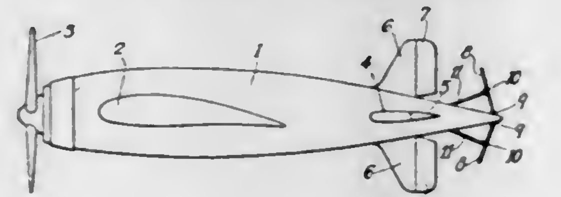
William Hudson James Brock, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England
Application February 15, 1945, Serial No. 577,958
In Great Britain February 18, 1944
10 Claims. (Cl. 192—111)



1. An automatically adjusting force-transmitting link device, comprising in combination first and second telescopically slidable members, means for moving the first telescopic member, a main friction clutch device resiliently urged to connect said telescopic members in force-transmitting relationship, a releasing member for said main friction clutch device, said releasing member moving with the telescopic members when they are operatively connected by the friction clutch device, a fixed abutment which is engaged by the releasing member at a predetermined point in the return movement of the link device whereby continued return movement releases the main friction clutch device, and auxiliary frictional means which are brought into action, by still further return movement of the first telescopic member, thus reconnecting said telescopic members before they reach their fully returned position.

2,421,870
AIR BRAKE FOR AIRCRAFT

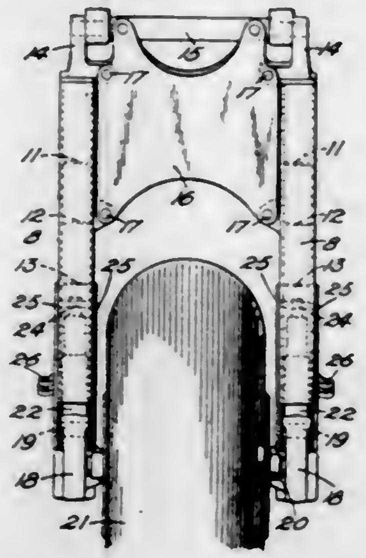
Claude Dornier, Franz Staufer, and Hubert Wähner, Friedrichshafen - on - the - Bodensee, and Franz Bottling, Friedrichshafen-Manzell, Germany; vested in the Attorney General of the United States
Application January 23, 1939, Serial No. 252,298
In Germany January 29, 1938
18 Claims. (Cl. 244—113)



1. An air brake system for aircraft having a fuselage, an extreme fuselage rear end portion protractably and retractably connected with said fuselage, said system comprising brake elements protractably and retractably connected with said rear end portion, and a joint brake-element-and rear-end-protracting and retracting-mechanism affording simultaneous protraction of said rear end and retraction of said brake elements.

2,421,871
LEG STRUCTURE FOR MOUNTING AIRCRAFT LANDING ELEMENTS

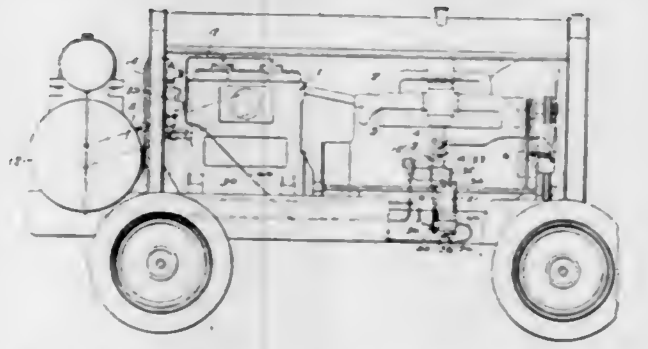
George Herbert Dowty, Cheltenham, England
Application June 30, 1943, Serial No. 492,900
In Great Britain July 22, 1942
10 Claims. (Cl. 244—104)



1. An aircraft landing element mounting comprising a pair of box struts fabricated of sheet metal, a resiliently deformable articulated frame interconnecting the lower ends of said struts for connection to a landing element, and a plate having its opposite upright edges connected, respectively, to the upper ends of said struts and to portions thereof spaced a substantial distance from their upper ends, to maintain said struts in relatively fixed, substantially parallel relationship, and an interior transverse bulkhead within each strut at the lower point of connection of said plate, for transmission of stress.

2,421,872
COMPRESSOR REGULATOR

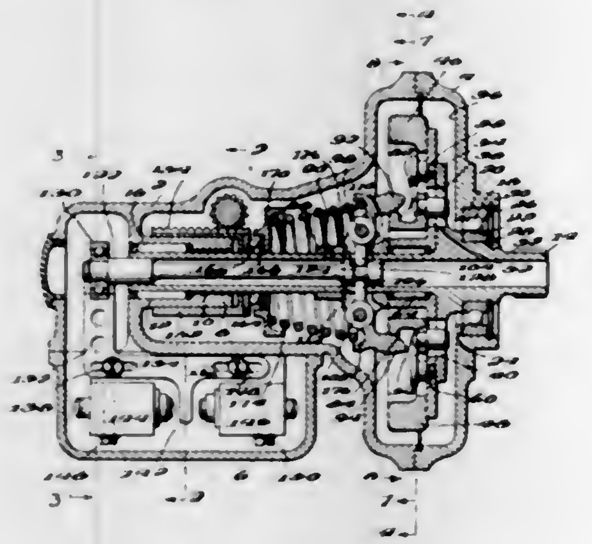
Steven F. Evelyn, Southampton, Mass., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application February 11, 1944, Serial No. 521,913
22 Claims. (Cl. 230—9)



1. In a speed regulator for an engine driven fluid compressor unit having a governor and a throttle valve controlled by the governor, of a second throttle valve operable independently of the governor controlled throttle valve, a pressure actuated modulating speed control device operable upon variances in the discharge pressure of the compressor to vary the setting of said second throttle valve to regulate the speed of operation of the engine and compressor in response to variances in the discharge pressure of the compressor, means to unload the compressor at a predetermined maximum high discharge pressure and to load the compressor at a predetermined low discharge pressure, pressure actuated means operable when the compressor is unloaded to move said second throttle valve to and maintain it at a predetermined minimum speed position, and means providing a slip joint in said pressure actuated means operable to maintain the predetermined minimum speed so as to prevent its interference with operation of the modulating speed control.

2,421,873
GOVERNOR FOR VARIABLE PITCH PROPELLER SYSTEMS

Archibald Graham Forsyth, Cheam, England, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England
Application December 17, 1943, Serial No. 514,730
8 Claims. (Cl. 264—6)

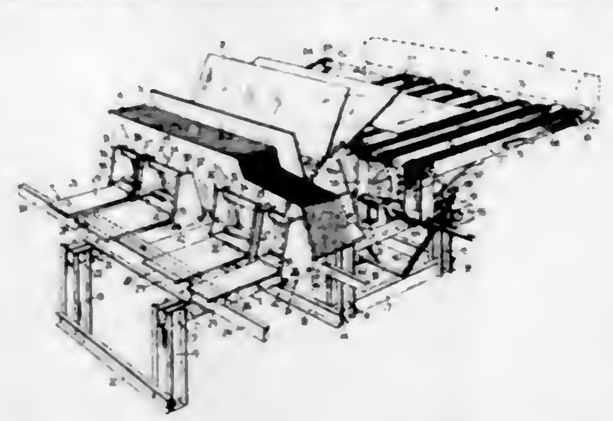


1. An instantaneously operable speed responsive device comprising a rotatable hollow driven shaft, a plate fixed to said shaft for rotation therewith, said plate being provided with non-radial slots, a plurality of weights having pins engaging said slots, all of said weights being radially movable in one and the same plane by centrifugal force in response to gradual changes in the rate of rotation of said shaft and being similarly movable by the cam action of said slots on said pins on sudden changes in the rate of rotation of said shaft, a controlled member within said shaft and having a circumferential groove therein, and means operated by said weights and engaging said groove for moving said controlled member axially in response to changes in the radial position of said weights.

2,421,874
DISCHARGE TABLE

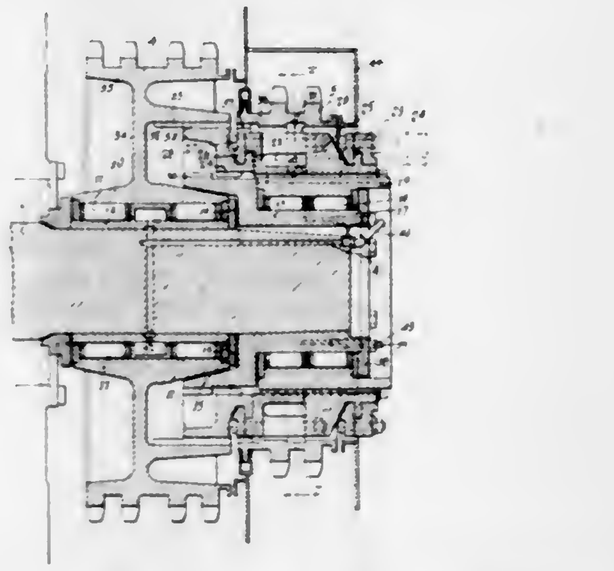
Frederick Z. Fouse, Lancaster, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application June 28, 1943, Serial No. 492,544
5 Claims. (Cl. 271—69)

1. In combination with a discharge table structure of the type described having receiving and discharge portions and adapted for association with the discharge end of a machine, in which the table includes a conveyer of the endless belt type for moving a succession of relatively stiff sheet-like articles in flatwise relation away from the discharge end of the machine and wherein the table structure also includes a rotatable conveyer for receiving the leading edges of said articles and elevating them in spaced fan-shaped relation from the endless belts and depositing them in edgewise relation upon the table; of means associated with said structure for adjusting the width of the receiving portion of said table whereby to accommodate articles of different sizes, means permitting the adjustment of the width of the discharge portion of the table, and means also associated with said structure permitting the raising and/or lowering of the receiving end of said table with relation to the discharge portion of a machine with which the discharge table structure is associated.



2,421,875
CLUTCH AND SPROCKET ASSEMBLY

Marshall R. Gallimore, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 4, 1944, Serial No. 548,019
7 Claims. (Cl. 192—48)



1. In a sprocket mounting, the combination of a shaft, a sprocket journaled on the shaft, a clutch ring secured to the shaft and having clutch teeth extending to a position within the sprocket, a second sprocket journaled on the clutch ring, the first sprocket having internal clutch teeth, the second sprocket having internal clutch teeth in alignment with the clutch teeth of the first sprocket, the clutch ring having external clutch teeth, a movable clutch collar housed within the structure of the first and second sprockets and surrounding the clutch ring and having internal and external clutch teeth, the external clutch teeth being in engagement with the internal clutch teeth of the first sprocket, and means for shifting the movable clutch collar to selectively engage its external clutch teeth with the internal clutch teeth of the second sprocket, or to its internal clutch teeth with the external clutch teeth of the first stated clutch ring.

2,421,876

COPOLYMER OF STYRENE AND A POLYESTER OF ENDOMETHYLENE TETRAHYDROPHTHALIC ACID AND A GLYCOL

Howard L. Gerhart, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application December 3, 1943, Serial No. 512,767

4 Claims. (Cl. 260—42)

1. A method of preparing a hard, resinous copolymer product which comprises heating a mixture composed of 50 to 80% of styrene and 20 to 50% of an ester of endomethylene tetrahydrophthalic acid and a glycol consisting of 2 to 4 ethylene groups between the hydroxyls, the ethylene groups being bridged together by ether-oxygen linkages, the heating operation being effected at a temperature of 60 to 100° C. and in the presence of a peroxide type catalyst and being continued until said hard tough resinous copolymer product is obtained.

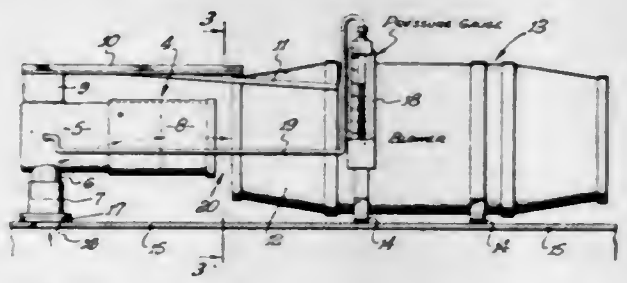
2,421,877

SUCTION ATTACHMENT

Bernard Gross, San Diego, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California

Application August 27, 1945, Serial No. 612,895

7 Claims. (Cl. 230—114)



1. In apparatus of the class described, the combination of a tank with an outlet opening, a blower with a suction inlet opening and a suction attachment aligned therewith, both mounted with gap therebetween upon said tank; said attachment comprising a main tubular member, a tubular neck connected with one end of said member and forming an inlet therein registering with the outlet opening of said tank, and a tubular outlet nozzle adjustably connected with the other end of said member and movable within said gap toward and from the suction inlet opening of said blower.

2,421,878

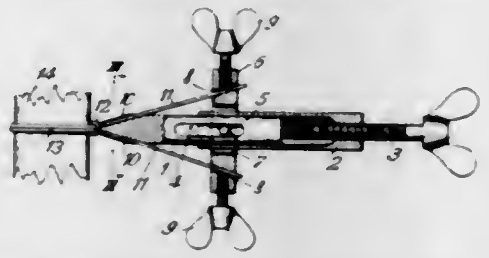
DEVICE FOR TYING WIRE AROUND AN ARTICLE

Anton Gubser, Riedern, and Anton Broder, Sargans, Switzerland

Application February 10, 1944, Serial No. 521,882

In Switzerland January 30, 1943

2 Claims. (Cl. 81—9.3)



1. A wire-tensioning device comprising a stem composed of two telescopic parts, a screw for forcibly moving one of said parts axially with respect to the other, one of said parts having a tapered outer end provided with a pair of oppositely disposed wire accommodating grooves, said one part having a longitudinally extending transverse slot, a pin extending through said slot and through the other portion of said stem whereby the pin is free to move axially with respect to the stem part having the tapered end, a two-armed lever pivotally mounted on said pin, and means in the ends of said lever equidistant from the axis of the pin for clamping the shanks of the wire, whereby when the means for forcing the parts of the stem is actuated the shanks of wire are drawn through the loop of wire with equal tension, regardless of difference in length of the two shanks of the loop.

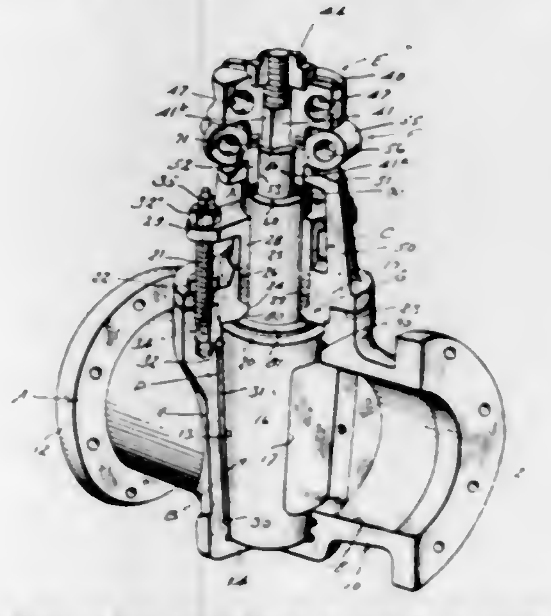
2,421,879

PLUG VALVE

Leland S. Hamer, Long Beach, Calif.

Application July 19, 1944, Serial No. 545,601

9 Claims. (Cl. 251—93)



1. A plug valve including a body, a plug rotatable in the body, the body including a cap arranged over the plug, a stud on the body retaining the cap on the body, and means establishing packing between the plug and body including packing channels between the plug and body, the stud having a port through which packing can be introduced from the exterior of the valve to the channels.

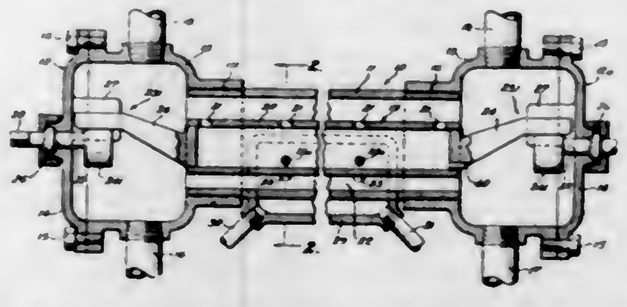
2,421,880

OIL CRACKING UNIT

Nathaniel O. Harmon, Los Angeles, Calif.

Application May 15, 1946, Serial No. 669,893

15 Claims. (Cl. 196—110)



15. An oil cracking unit comprising an elongated horizontally extending tube, chambers connected to the ends of said tube, means for externally heating said tube, a hollow tubular member extending longitudinally inside said tube and spaced therefrom, means for passing oil from one of said chambers through the space between said member and tube into the other of said chambers, means for removing vapors from one of said chambers, said member having end projections extending into said chambers, and adjustable means extending through the chamber walls and cooperable with said end projections to adjust said member vertically within the tube to vary the spacing of the member from the bottom portion of the tube, said adjustable means being operable at the outsides of the chambers.

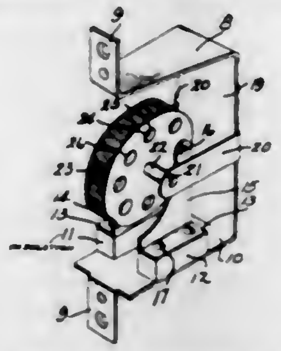
2,421,881

WALL SWITCH

Humphrey N. Heasty, Milwaukee, Wis.

Application April 30, 1945, Serial No. 590,988

12 Claims. (Cl. 200—155)



1. A noiseless switch, comprising the combination with an outlet box having a slotted face plate, of a dielectric disk axially supported for rotation within the box with a portion of its circular periphery exposed in said slot, said disk having its flat faces provided with annular sets of concave recesses with those of one face paired with those on the opposite face, at least one electrically conductive rod extending through the disk with its ends exposed at the bases of the recesses of one of the pairs, and resilient terminals on opposite sides of the disk, each mounted on a dielectric support and biased for pressure contact with the adjacent flat face of the disk, said terminals having embossed convex portions adapted to enter the disk recesses to hold the disk in step-by-step positions of rotary adjustment and to electrically connect said terminals when in contact with the rod ends.

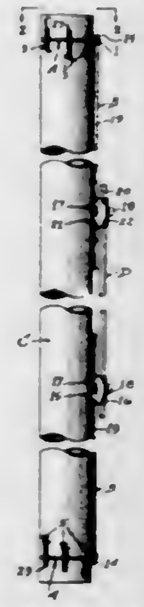
2,421,882

ANGLE CALCULATOR FOR STRUCTURAL MEMBERS

James T. Hogue, deceased, late of San Francisco, Calif., by Lenna M. Hogue, Fresno, Calif., widow and sole owner

Application November 2, 1945, Serial No. 626,445

4 Claims. (Cl. 33—174)



1. An angle calculator for structural members comprising two U-frames, each having side arms adjustable toward and away from each other, an arm connected to each frame and extending at right angles to the plane of the frame, each arm having a longitudinally extending line, a double sleeve coupling for each arm and having one of the sleeves telescoped over the arm, and an extension receiving the free sleeve of each coupling, said extension having a longitudinally extending line, and indicating means on the sleeves, the lines on said arms and extension when registering with the indicating means causing the two frames to be supported in proper position, and measuring screws threaded into openings in the frames and extending at right angles to the planes of the frames.

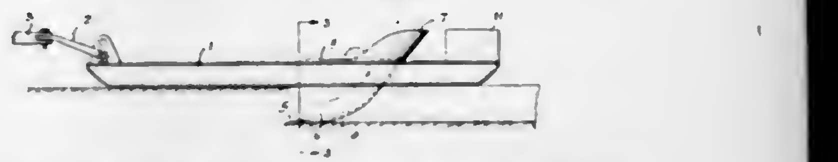
2,421,883

DITCHING MACHINE

William K. Holleron, Victoria, Tex.

Application March 26, 1945, Serial No. 584,938

1 Claim. (Cl. 37—98)



A ditching plow comprising a skid having spaced runners secured in fixed relation to each other and provided with inwardly extended flanges, a forwardly declining curved share between the runners, an approximately vertical plate on each side of the share having external upper and lower flanges secured to the adjacent runner flanges, said vertical plates being also secured to the share on each side thereof, said share and mold boards forming a chute for forming a ditch and elevating the earth therefrom as the plow moves forwardly, the upper end of the chute being at approximately the level of the runners, a vertical side deflector extending longitudinally of, and upwardly from, one of the vertical plates and whose rear end is curved laterally around the upper end of the chute to the opposite side of the skid, to discharge the raised earth laterally in one direction only and a side platform on the opposite side of the chute from the vertical deflector and extending, horizontally, along one side of the chute, in transverse alignment with, and of substantially the same length as, the vertical plates and arranged to receive the elevated earth and conduct the same laterally beyond the skid.

2,421,884

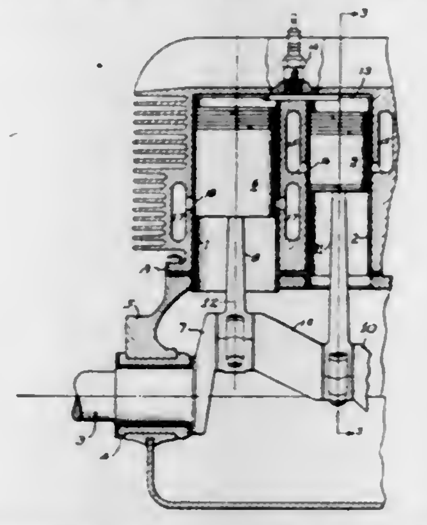
PARALLEL PISTON ENGINE

Carl L. Holmes, Glendale, Calif.

Application May 8, 1944, Serial No. 534,607

24 Claims. (Cl. 123—53)

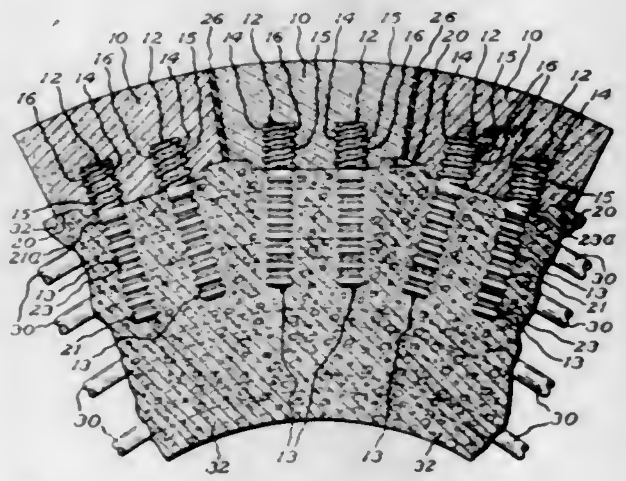
5. In combination in a two-cycle internal combustion engine: a pair of parallelly arranged cylinders communicating with each other at their tops; a work piston mounted in one cylinder and a trailing piston of a smaller diameter than the work piston mounted in the other cylinder; a common crank shaft for both pistons having a relatively long crank arm connected to the work piston and a relatively short crank arm connected to the trailing piston; the long crank being set relative to the short crank so that the working piston leads the trailing piston, and so that the leverages of the two cranks when their pistons are at positions of maximum compression are substantially equal; the position of the crank of the working piston at maximum compression being



about 20 degrees past top dead center; a spark plug for exploding the gases of combustion at about maximum compression for causing the gases to deliver practically all of their power to the work piston for rotating the shaft.

2,421,885
PULPSTONE

Wallace L. Howe, West Boylston, and Lorenzo S. Washburn, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application September 18, 1945, Serial No. 616,984
6 Claims. (Cl. 51—206)

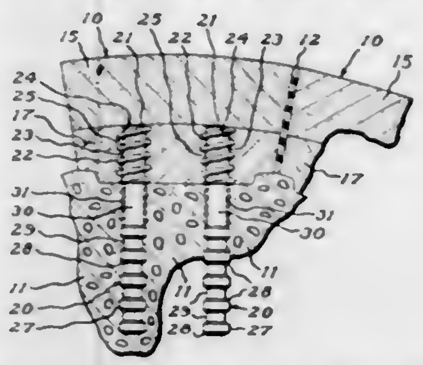


1. A pulpstone in the shape of a body of revolution the curved surface of which is the outer surfaces of a plurality of bonded abrasive blocks, comprising a plurality of said bonded abrasive blocks, a central concrete core, and a plurality of means each including a metal bolt to hold said blocks to said core, each of said means comprising a portion of varying cross-section of said bolt embedded in said concrete core, a thread on said bolt, a mating thread in a hole in said block the thread in the hole being of bonded abrasive material, and a layer of cement in the hole in said block and upon said threads, the pitch of the thread on the bolt being at least .080 inch.

2,421,886
PULPSTONE

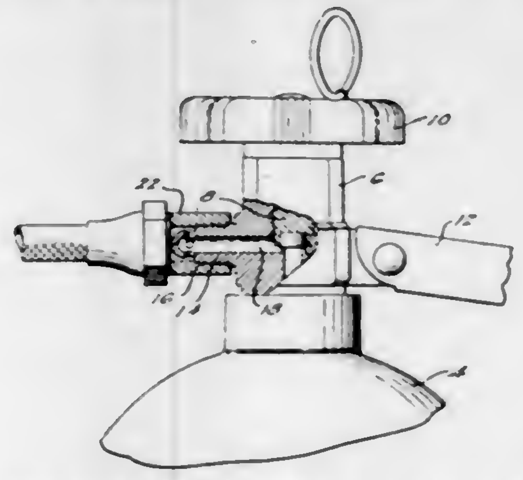
Wallace L. Howe, West Boylston, and Lorenzo S. Washburn, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application September 19, 1945, Serial No. 617,184
2 Claims. (Cl. 51—206)

1. A pulpstone in the shape of a body of revolution the curved surface of which is the outer surface of a plurality of bonded abrasive blocks, comprising a plurality of said bonded abrasive blocks, a central concrete core, a plurality of means each including a metal bolt to hold said blocks to said core, each of said means comprising a portion of varying cross-section of said bolt embedded in said concrete core, a thread on said bolt, a mating thread in a hole in said block, and a layer of cement in the hole in said block and upon said threads, the pitch of the thread on the bolt being at least .080 inch, said blocks having an abrasive zone outside of the radius of said bolts having large induced pores not smaller than the grit size of the abrasive thereof up to several times said grit size and to the extent of at least 5 volume per cent of said abrasive zone, and said blocks having an inner zone holding said bolts which has only fine pores smaller than the grit size of the abrasive grains thereof.



2,421,887
METHOD OF MAKING RECOIL PREVENTING NOZZLES

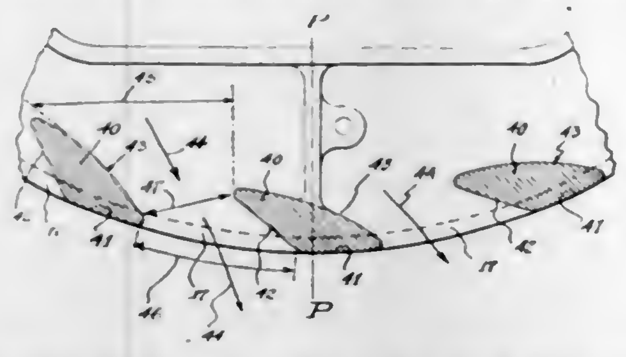
Charles K. Huthsing, Grosse Pointe Farms, Mich.
Application January 2, 1943, Serial No. 471,155
3 Claims. (Cl. 29—157)



1. In the method of making a recoil preventing, high pressure, discharge nozzle for fluids, the steps of providing a valve body with an integral projecting nipple, axially boring said nipple inwardly from its outer end to form a longitudinal passageway through said nipple, drilling radially disposed, diametrically opposed, openings through the wall of said nipple in communication with the passageway therein, and deforming the outer end of said nipple to completely close the outer end of said passageway.

2,421,888
DIFFUSER FOR CENTRIFUGAL BLOWERS

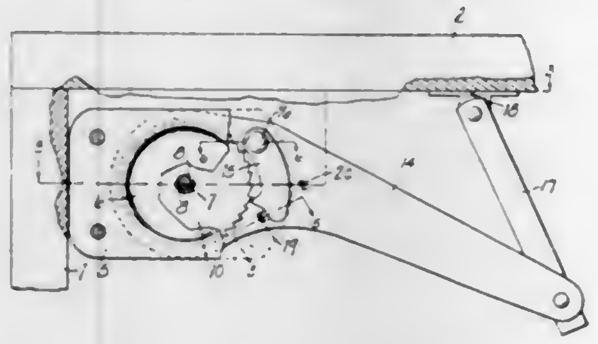
Thomas Jackson, North Muskegon, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application May 27, 1942, Serial No. 444,695
1 Claim. (Cl. 230—132)



In a radial blower housing, a series of openings formed by circumferentially aligned transverse bars annularly spaced around the blower rotor, the bars having a three-sided cross-sectional configuration such that one side of each bar lies in the surface of a cylinder which is common to all the bars, one other side of each bar within the openings extending toward an adjacent bar to create a restricted portion in each opening having smaller dimensions than the opening at the surface of the aforesaid cylinder to provide a venturi effect whereby outward movement of air is facilitated.

2,421,889
FRICTION SUPPORT FOR LIDS

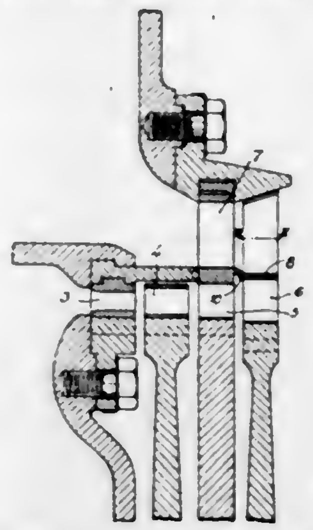
Gerald V. Jakeway, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich.
Application November 18, 1944, Serial No. 564,044
11 Claims. (Cl. 217—60)



11. The combination with a cabinet and a vertically swinging lid therefor, of a lid supporting pivoted arm, a rotatable ratchet-like element, frictional means for retarding said ratchet-like element against rotation, a pawl-like means connected to said arm and engageable with said ratchet-like element for supporting the arm with the lid in open position, and means adapted to disengage the pawl-like means from the ratchet-like element at a predetermined point in the lid closing movement of the arm whereby the arm is freed from frictional restraint and the lid allowed to drop freely into place.

2,421,890
TURBINE BLADE

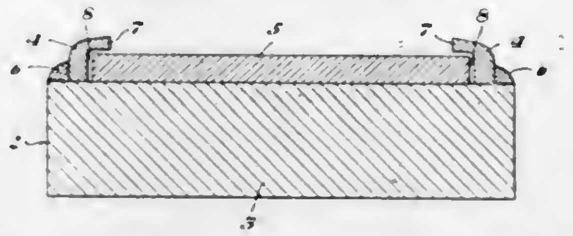
Johan Erik Johansson, Gothenburg, Sweden, assignor to Aktiebolaget Gotaverken, Gothenburg, Sweden, a corporation of Sweden
Application November 19, 1945, Serial No. 629,628
In Sweden November 27, 1944
3 Claims. (Cl. 253—57)



1. In an axial flow turbine, a turbine rotor having straight grooves at the periphery disposed at acute angles to the plane of said rotor, said grooves extending across the rotor from one end to the other end thereof, a number of moving blades having roots inserted into said grooves, and peripheral partitions secured to said blades and adapted to divide said blades into at least two sections located radially outwardly of each other, each of said portions having edges abutting against adjacent partitions and being inclined, with respect to the plane of said rotor, at the same angle as said grooves and roots.

2,421,891
COMPOSITE BILLET AND MANUFACTURE THEREOF

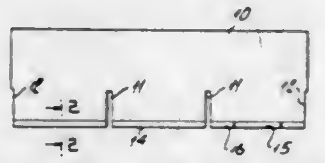
Walter L. Keene, Dormont, and William A. Carlson, Pittsburgh, Pa., assignors to Superior Steel Corporation, Pittsburgh, Pa., a corporation of Virginia
Application March 18, 1943, Serial No. 479,588
8 Claims. (Cl. 29—187.5)



1. A composite billet comprising a metallic backing member, opposed generally L-shaped flanges welded to the backing member with one leg of each flange extending generally at right angles to a face of the backing member and having its extremity butting against said face and with the other legs of the flanges extending toward each other and a metallic facing member disposed against said face of the backing member between the first mentioned legs of the flanges with the second mentioned legs of the flanges overlying a minor portion thereof and held in place against the backing member by the flanges.

2,421,892
SEAL-DOWN COMPOSITION SHINGLE

Lester Kirschbraun, Leonia, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application June 8, 1945, Serial No. 598,411
7 Claims. (Cl. 108—7)

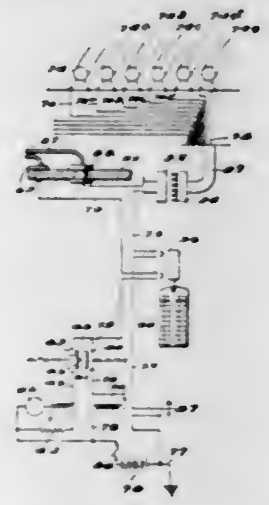


1. A flexible shingle of the asphalt composition type having along the bottom surface of its butt portion a band of thermoplastic characterized by adhesiveness sufficient to effect sealing down of the butt portion of the shingle to its underlying surface after a number of such shingles are applied in overlapping courses and ex-

posed to solar heat, the pressure sensitivity of the adhesive being such as would normally cause sticking together of adjacent shingles packed in bundles, said band of thermoplastic adhesive being covered by a thin sheet material sufficiently strong and tough to prevent being ruptured or permeated by said adhesive whereby sticking together of adjacent shingles packed in bundles for storage and shipment is avoided, yet sufficiently soluble in water to be readily removed by the action of moisture upon exposure of the applied shingles to the weather.

2,421,893
ROCKET FIRING CONTROL MECHANISM

Albert L. Lambert, Narberth, and Walter H. D'Ardenne, Jenkintown Manor, Pa., assignors to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 2, 1944, Serial No. 561,614
11 Claims. (Cl. 89—1)

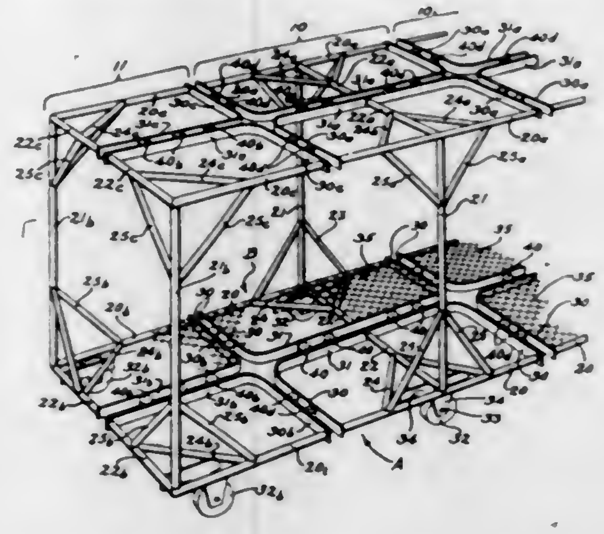


1. A firing control for rocket launchers and the like comprising, an indicating means provided with locations each indicating respectively one of a series of launcher tubes or rails, an indicating element movable to any of said locations, a first contact element, a series of contact elements, there being one of said latter contact elements for each launcher rail and for each location on said indicating means, a bridging member movable with said movable element for bridging said first contact element and any one of said series of contact element, means for moving said movable indicating element and said bridging member, an electric circuit for connecting each launcher rail with one of said series of contact elements and all of said launcher tubes with said first contact element, a firing switch in said circuit, and a time delay mechanism in said circuit for temporarily breaking the circuit after each actuation of said firing switch.

2,421,894
FURNACE TRUCK

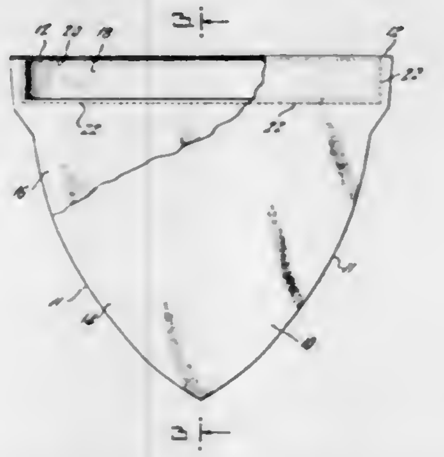
Jess Max Lee, Los Angeles, Calif.
Application September 4, 1944, Serial No. 552,649
17 Claims. (Cl. 211—1)

15. A furnace truck structure of the type described, said structure including a lower horizontal framing composed of a series of longitudinally spaced sections, each section composed of transversely related sub-sections, means forming connections between adjacent sections providing for yielding expansion and contraction of the series of sections longitudinally of the structure, means forming connections between the several transversely related sub-sections providing for yielding expansion and contraction of the transversely related sub-sections transversely of the structure, vertical posts mounted at their lower ends one on each sub-section, and an upper framing interconnecting the upper ends of the several posts, said upper framing being yieldingly expansive and contractive longitudinally of the structure.



2,421,895
SHOULDER PAD

Mortimer Leebow, Lawrence, N. Y.
Application November 21, 1946, Serial No. 711,241
2 Claims. (Cl. 2—268)

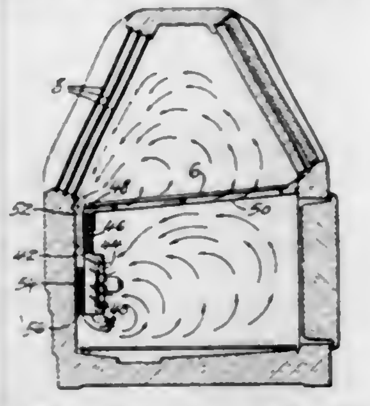


1. A shoulder pad comprising a diamond plan-shaped blank of inherently stiff textile material doubled over on itself along the shorter axis of the diamond resulting in a double-thickness member of triangular outline in plan, and means disposed and secured between the layers adjacent the fold line, to arch the pad in the direction of the line of fold, the arching means comprising a thin, flat strip of resilient, springy material.

2,421,896
REFRIGERATED DISPLAY CASE

Malcolm D. MacMaster, Woodside, Pa., assignor to C. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey
Application September 18, 1944, Serial No. 554,678
11 Claims. (Cl. 62—89.5)

1. In a refrigerated display case having an upper display chamber and a lower storage chamber, means for cooling and circulating air through both of said chambers, comprising a refrigerating coil associated with the display chamber, another refrigerating coil associated with the storage chamber, and means for forcing air over one of said coils and into the chamber with which that coil is associated and thence over the other coil and then into the chamber with which the other coil is associated.



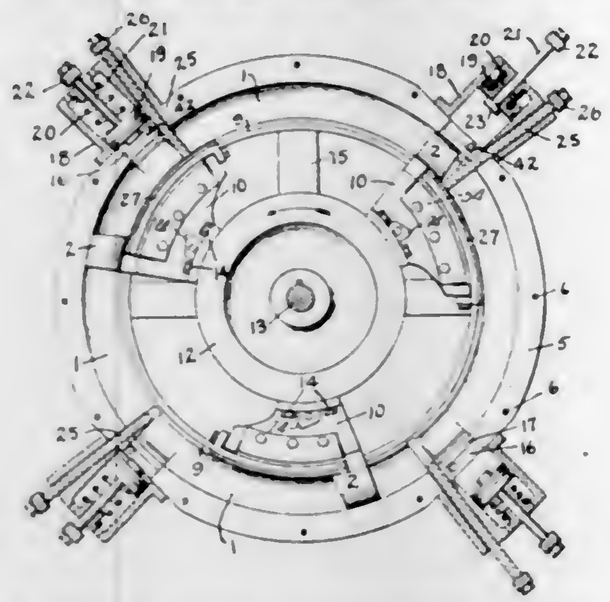
2,421,897
DISSOLVING CELLULOSIC ESTERS

John D. McCaleb, Baltimore, and Joseph J. Reis, Jr., Catonsville, Md., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
No Drawing. Application December 22, 1944, Serial No. 569,420
2 Claims. (Cl. 106—189)

1. A process of forming a uniform and smooth solution of cellulose triacetate in a mixture of methyl alcohol and dichloromethane which is a good solvent for cellulose triacetate, which process comprises preliminarily baking the cellulose triacetate at a temperature of about 212° F. to 220° F. for a period of about 1 to 2 hours, then immediately incorporating the cellulose triacetate with the solvent mixture.

2,421,898
ROTARY INTERNAL-COMBUSTION ENGINE OF THE SLIDING ABUTMENT TYPE

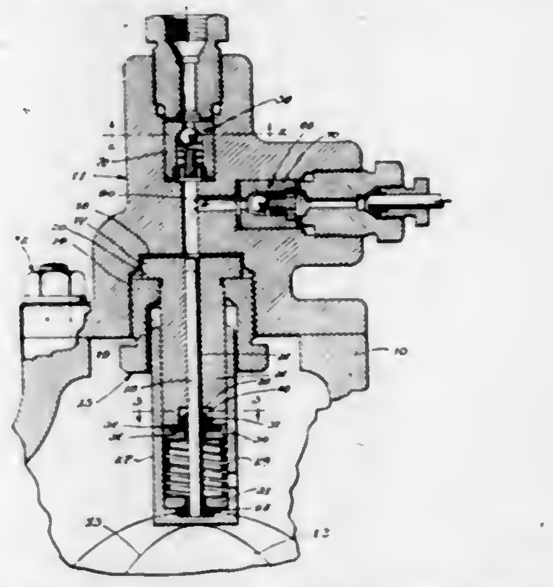
Adolph E. Melrose, Muskegon, Mich., assignor to Adolph E. Melrose, Miles E. Johnson, Milo S. Newman, Benjamin H. Burwell, and John N. Martinson, trustees
Application November 22, 1943, Serial No. 511,316
5 Claims. (Cl. 123—14)



1. A rotary internal combustion engine comprising an annular cylinder having a continuous open annular slot in its inner periphery, a shaft journaled at the axis of the annulus, a fin extending radially of said shaft and projecting through said slot, a piston traversible in said cylinder and attached to said fin, an apron extending rearwardly of said piston and closing a portion of said slot, a gate movable to close said cylinder, automatic means, synchronized with the movement of the piston in the cylinder to open said gate to permit passage of said piston and to close said gate immediately behind said piston, means to inject and compress an explosive charge in said cylinder between said piston and said gate, means to ignite said explosive charge, and means to thrust said apron outwardly against the force of the exploded charge.

2,421,899
FUEL INJECTOR PUMP STRUCTURE

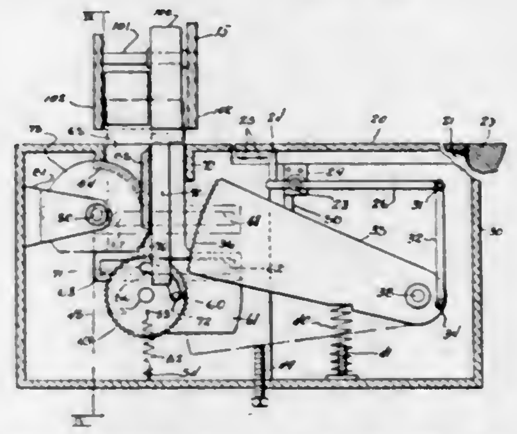
Carlton Messner, Muskegon, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application February 6, 1945, Serial No. 576,381
3 Claims. (Cl. 103—154)



1. A fuel injector comprising a casing having a fuel inlet passage and a recess with which said inlet passage communicates, a pump body seated in said recess and provided with a pump cylinder aligned with the inlet passage in said casing, said pump body having a flange, a nut threaded into said recess and engaging the flange to secure said pump body to said casing, a pump plunger operable in said pump cylinder, a tappet guided on the external surface of said pump body and engaging said pump plunger, and means actuating said tappet.

2,421,900
EMERGENCY DOOR APPARATUS

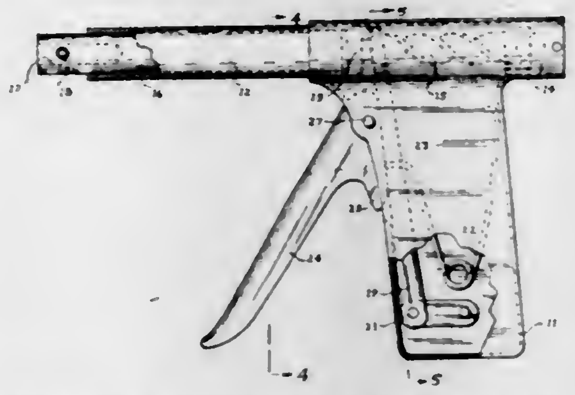
Robert A. Miller, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 28, 1945, Serial No. 585,309
8 Claims. (Cl. 292—94)



1. Locking mechanism comprising a master shaft, bearing means for supporting the shaft, a bolt actuator mounted rigidly on and extending laterally from the shaft, a member mounted ro-

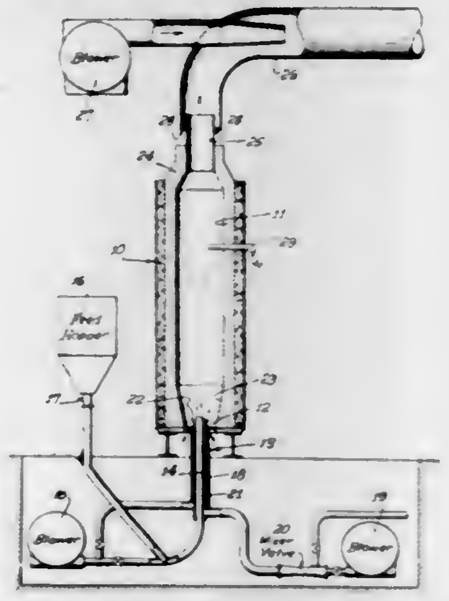
tatably on the shaft and having a lost motion connection to the actuator to permit relative rotation through a predetermined angle between said actuator and member, emergency means movable into and out of engagement with said member to operate the bolt actuator, and bolt-setting means movable into and out of engagement with said member to operate the bolt actuator independently of the emergency means.

2,421,901
MECHANICAL MOVEMENT
Bill B. Murad and John S. Barbic, Cleveland, Ohio
Application September 7, 1944, Serial No. 553,056
1 Claim. (Cl. 74—57)



A hand tool, comprising in combination, a body member made of sheet metal bent to form a hollow handle and a cylinder integral therewith, the said handle having two pins extending between the walls thereof; a spindle member having an implement retaining means on one end and a screw portion on the other end thereof, the said spindle member being rotatably mounted in said cylinder; a first lever member pivotally mounted in the hollow handle on one of the said pins and being engageable with the said screw portion; and a second lever member, made of sheet metal bent to form a trigger means, pivotally mounted on the other of the two pins and being engageable with the first lever member in a manner whereby the spindle member may be rotated in the cylinder.

2,421,902
MEANS OF EXPANDING PEARLITE AND LIKE SUBSTANCES
Robert Neuschotz, Los Angeles, Calif.
Application August 31, 1943, Serial No. 500,657
16 Claims. (Cl. 263—21)

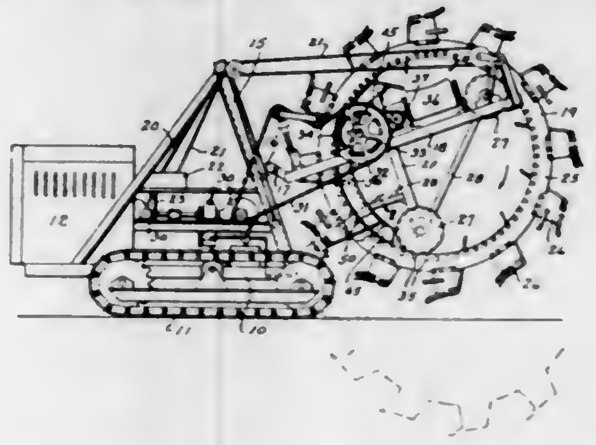


1. A furnace for expanding pearlite granules and the like comprising means providing walls, an upwardly directed burner centrally thereof, means for discharging granules upwardly through the burner, and means providing an upwardly directed air blast about the burner.

2,421,903
PROCESS OF MAKING TRIGLYCOL DICHLORIDE
Joseph C. Patrick, Morrisville, Pa., assignor to Thiokol Corporation, Trenton, N. J., a corporation of Delaware
No Drawing. Application December 4, 1944, Serial No. 566,640
4 Claims. (Cl. 260—615)

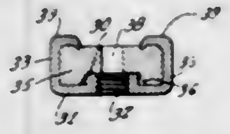
1. Process of making triglycol dichloride which comprises reacting ethylene, chlorine and water and adding to the reaction mixture a proportion of B,B′ dichloroethyl ether equal to at least about two per cent by weight of the water.

2,421,904
TRENCHER
Vincent S. Penote, Cleveland, Ohio, assignor to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio
Application March 7, 1945, Serial No. 581,461
5 Claims. (Cl. 37—97)



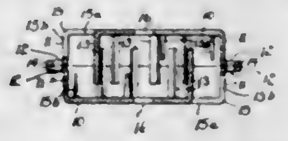
1. In an excavator, a support, an excavating wheel rotatably mounted on said support and comprising spaced annular rings, a series of excavating buckets connecting said rings and extending outward therefrom, a channel member carried by said support within the wheel and having its legs forming inward extensions of the rings.

2,421,905
METHOD OF MAKING SELF-LOCKING NUTS
Walter M. Perry, Darien, Conn.
Application June 28, 1944, Serial No. 542,520
3 Claims. (Cl. 10—86)



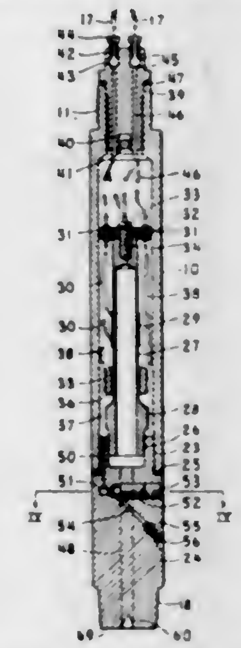
2. The method of forming a self-locking nut of the fibre-insert type from a strip of sheet metal, which consists in extruding a hub from the base, providing a hole through said hub and threading the hole, bending up opposed portions of the strip in the same direction from the base as the hub, inserting a fibre adapted to rest against the opposed portions of the metal strip and having a bore in the base thereof adapted to receive the hub and permit the fibre to rest against the hub and base of the metal strip, the opposed portions of the metal strip extending above the fibre, turning over the excess of the opposed portions to grip the upper surface of the fibre, and providing a hole in the fibre in axial alignment with the hole in the base.

2,421,906
STATOR-SHELL FOR ELECTRIC MOTORS
Arthur B. Poole, Harwinton, Conn.
plication November 8, 1945, Serial No. 627,478
7 Claims. (Cl. 172—275)



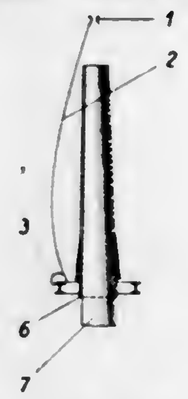
1. A cup-like stator-shell formed of magnetic material and including in combination: an end-wall; an annular side-wall projecting substantially perpendicularly from the said end-wall; the said stator-shell being formed with a plurality of circumferentially-spaced-apart slots, each slot intersecting both the said side-wall and the said end-wall of said stator-shell, the portions of said slots in said end-wall extending inwardly radially in the said end-wall only part way from the said side-wall toward the center of the said stator-shell, and the portions of the said slots in the said side-wall being substantially perpendicular to said end-wall and tapering in width as they extend more remotely from the said end-wall; and a plurality of substantially rectangular pole-salients integral with the said end-wall and formed from material displaced therefrom and from the said side-wall to form the said slots.

2,421,907
WELL PRESSURE GAUGE
William R. Postlewaite, Menlo Park, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application December 26, 1944, Serial No. 569,691
12 Claims. (Cl. 201—63)



1. A pressure gauge adapted to be lowered into a well tubing with an electrical conductor cable leading to an indicator at the surface, comprising means forming a generally tubular pressure responsive chamber, one wall of which is exposed to ambient fluid pressure and the other wall of which is exposed to a constant reference pressure substantially below atmospheric whereby said constant reference pressure is unaffected by change in ambient temperature, a resistance winding associated with said member and elastically bonded to one wall thereof throughout its effective length to respond to mechanical deformation of said member due to ambient pressure, a second resistance winding exposed to ambient temperature, and a support for said second named winding which is independent of mechanical deformation of said member.

2,421,908
PRODUCTION OF COPS IN RING SPINNING AND RING DOUBLING MACHINES
Friedrich Preysch, Winterthur, Switzerland, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland
Application June 8, 1945, Serial No. 598,384
In Switzerland May 24, 1944
1 Claim. (Cl. 57—75)

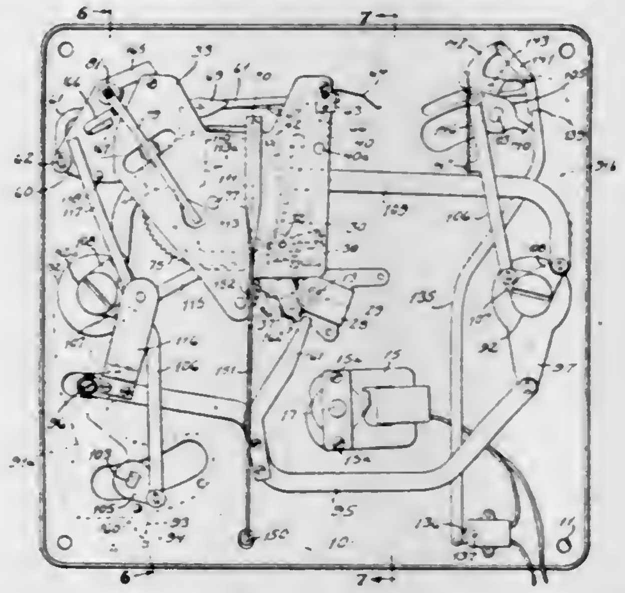


Apparatus for winding long lengths of thread into cops of extra length with comparatively small size of balloon during the winding and therefore smaller spacing of winding spindles during winding in combination, a winding spindle, a cop carrier, a thread ring having a traveler, said ring encircling the carrier during the winding operation, said ring and carrier being relatively movable axially, a guide eyelet spaced from the traveler in a generally axial direction, and a carrier extension for attachment to the carrier for supplementing its length when the winding of the cop approaches the finally wound end of the carrier, the distance between said traveler and guide eyelet corresponding substantially to that which would be required for winding the carrier without the extension, whereby the balloon produced between the guide eyelet and traveler is of less width than the width that would be produced if the distance between the guide eyelet and traveler corresponded to that required in winding a carrier of a length equal to the said carrier and its extension whereby the space required for the winding apparatus is less than otherwise required.

2,421,909
RECORD CHANGER MECHANISM FOR PHONOGRAPHS
Howard A. Roe, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Original application January 20, 1942, Serial No. 427,468. Divided and this application July 3, 1943, Serial No. 493,476
6 Claims. (Cl. 274—10)

1. In a tone-arm moving mechanism adapted for use with a record changing mechanism for an automatic phonograph wherein the sequentially lowermost records of a relatively elevated stack are supported upon laterally disposed posts, said posts being provided with dispensing means whereby the stacked records are singly released to be deposited onto an underlying turntable when after playing the upper side of a record previously deposited on the turntable the tone

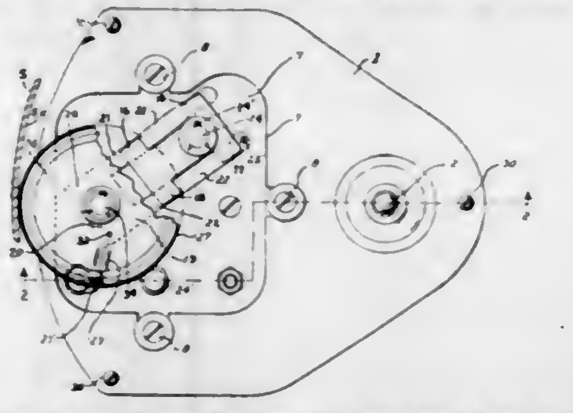
arm is automatically raised and shifted outwardly of the path of the said next descending record from the stack, and characterized by the provision of a motor driven controller operable during non-playing periods for effecting the record changing and tone arm movements in proper sequence whereby the records of the stack are sequentially deposited on the turntable to be played, and the tone arm is elevated and then swung out of the path of each descending record before release thereof, then is swung inwardly a predetermined distance and lowered onto the margin of the last deposited record for playing thereof; said tone arm moving mechanism determining the degree of inward movement of said tone arm according to the diameter of the records supplied to the turntable and comprising a contactor means movable by said motor driven controller in a cyclic path during a cycle of controlled operations, a crank lever, a laterally shiftable support for said crank lever, said crank lever having a pair of divergent arms, a first of said arms engageable with an element of said tone arm and a second arm adapted to be positioned in the path of said contactor means so as to be engaged thereby after deposit of a record upon the turntable for playing thereof, said lever intermediately pivoted upon said support, a manually adjustable element for said dispensing means whereby said means may be moved inwardly or outwardly to operate upon different sized records, a common manual adjustment device to simultaneously adjust said manually adjustable element and adjustably shift said support to vary the lateral position of the lever pivot, whereby the point of initial engagement on said second arm by said contactor is altered to a degree predetermined by the adjusted position of said pivot, and the degree of inward movement of said tone arm over the marginal surface of a record to be played is predetermined by adjustment of said record dispensing means.



2,421,910
TURNTABLE DRIVE FOR PHONOGRAPHS

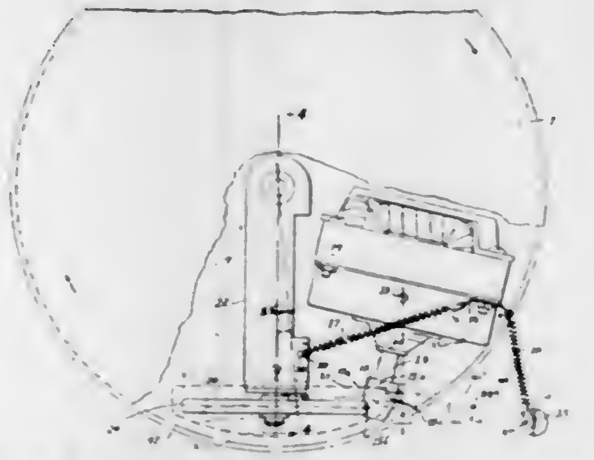
Herbert L. Hartman, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application August 24, 1944, Serial No. 550,995
2 Claims. (Cl. 74—206)

1. An idler wheel supporting mechanism for the idler wheel of a phonograph motor drive mechanism of the class described wherein said wheel concurrently makes peripheral friction contact with a driving roller of relatively small diameter and the inner cylindrical surface of a peripheral turntable flange for driving the turntable and wherein the motor is supported by a stationary portion of a phonograph casing comprising a guide of substantially block type form swivelable on the said casing portion, comprising a main stem or web with laterally extending arm portions at its ends, both pair of arm portions respectively disposed at the two sides of the web being inwardly slotted with the slots of each pair being in longitudinal alignment and a sliding plate having two relatively laterally spaced parallel arms, each of said slide plate arms adapted for bearing sliding engagement within the slots of a different pair of said first element arms, an upstanding bearing spindle rigidly affixed to another portion of said slide plate, said idler wheel by its hub portion being journalled on said spindle.



2,421,911
SPEED COMPENSATING MOTOR DRIVE FOR PHONOGRAPH TURNTABLES

Blake W. Carrington, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application October 24, 1945, Serial No. 624,231
7 Claims. (Cl. 74—206)

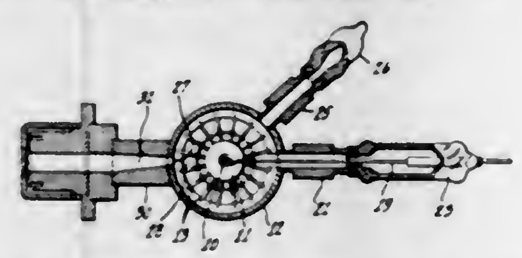


1. In a friction drive mechanism of the type described for phonograph turntables, the combination with a mount, a turntable journalled thereon having a lowermost intra-peripheral, annular and planular smooth turntable surface which is substantially radially spaced from its rotative axis, of an idler wheel disposed in a vertical plane at right angles to a radius of the turntable, said wheel having a peripheral friction tread, an arm journalled to swing in a horizontal plane below the turntable about the vertical axis of said turntable, and said idler wheel journalled on said arm so as to effect frictional engagement between its uppermost wheel tread portion and the said surface, a motor, a driving shaft therefor, a convexly tapered friction driving roller axially secured on said shaft with its smaller end disposed most remote from the motor, said motor being swingably journalled on said mount with its swinging axis extending substantially vertically, and said roller adapted to be swung into frictional engagement with a portion of said wheel tread

surface which is disposed below the horizontal plane of the wheel axis, spring means to yieldably maintain said wheel tread in simultaneous engagement both with said planular turntable surface and with said roller, whereby said motor when energized to rotate said roller is effective to drive said idler and turntable, and said spring means being yieldable whereby upon increased loads applied to said turntable the reactive torque effect thereof upon said wheel will tend to cause said wheel to tractively roll on said turntable zone surface in a direction opposite to the direction of rotation of the turntable and to arcuately deflect said roller and motor shaft about said motor swinging axis, whereby the tractive movement of said idler wheel is effective to slideably move the power engaging periphery of the wheel tread inwardly along the deflected longitudinal surface of the roller towards the motor to resultantly vary the transmission ratio as between said roller and idler, and means to adjust said spring means to vary the deflection of said roller to substantially compensate for the retarding effect of such loads on the turntable and to maintain a substantially constant turntable speed.

2,421,912
ELECTRON DISCHARGE DEVICE OF THE CAVITY RESONATOR TYPE

John M. Spooner, Manheim Township, Lancaster County, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 16, 1944, Serial No. 522,552
10 Claims. (Cl. 315—39)

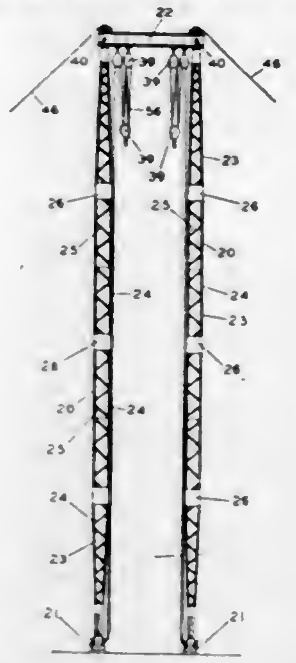


2. A device for use at ultra high frequencies including a cavity resonator sealed vacuum-tight, said resonator having an aperture in the wall thereof, a coupling device for said resonator and including a hollow member having one end opening into said resonator through said aperture, the other end of said coupling device being sealed vacuum-tight by a conducting closure member permeable to electromagnetic waves, said closure member including a cup-shaped member positioned over the end of said hollow member, the lip of said cup-shaped member being sealed to said hollow member said surfaces being closely spaced at all points, the inner surface of said cup-shaped member and the outer surface of said hollow member being spaced from each other the area of said aperture and the area of the transverse section of said pasageway being substantially equal, said cup-shaped member having an aperture registering with the pasageway through said hollow member, and means permeable to electromagnetic waves sealed across the aperture in said cup-shaped member.

2,421,913
ERECTING APPARATUS

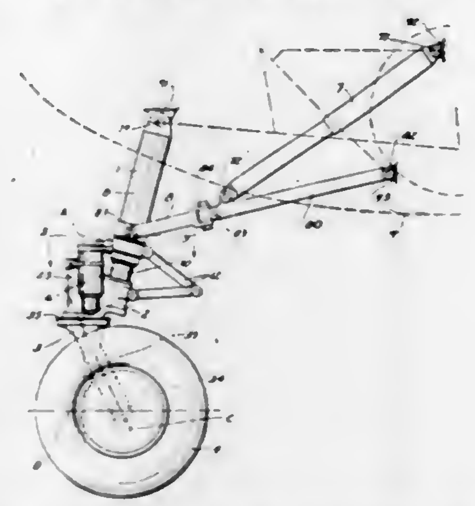
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist & Derrick Co., St. Paul, Minn., a corporation of Delaware
Application April 14, 1945, Serial No. 588,279
10 Claims. (Cl. 189—16)

4. An erecting apparatus comprising a pair of separate foundations, an elongated weight supporting element upon each of said foundations, a cross-beam between said elongated weight supporting elements retaining the elongated weight supporting elements at substantial distance apart, means connecting said cross-beam to each of said elongated weight supporting elements at location spaced from its corresponding foundation for relative swinging movement of the elongated weight supporting elements toward and away from each other and for swinging movement of said elongated weight supporting elements relative to the cross-beam in direction transversely of said cross-beam, means connecting each of said foundations and the elongated weight supporting element thereon to each other for relative swinging movement of each foundation and its corresponding elongated weight supporting element in directions longitudinally and transversely of said foundations, and means for anchoring said foundations and said elongated weight supporting elements in fixed relation to each other.



2,421,914
NOSE WHEEL

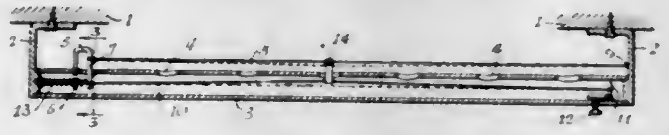
Charles H. Strandberg, Seattle, Wash., assignor to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington
Application June 8, 1942, Serial No. 446,293
3 Claims. (Cl. 244—102)



1. A full-swiveling nose support for an aircraft comprising a shock absorber including two members relatively reciprocably but non-rotatively connected, its upper member being secured to the aircraft structure, and the shock absorber being forwardly and downwardly inclined, an upright swivel support fixed upon and disposed ahead of the lower shock absorber member, its

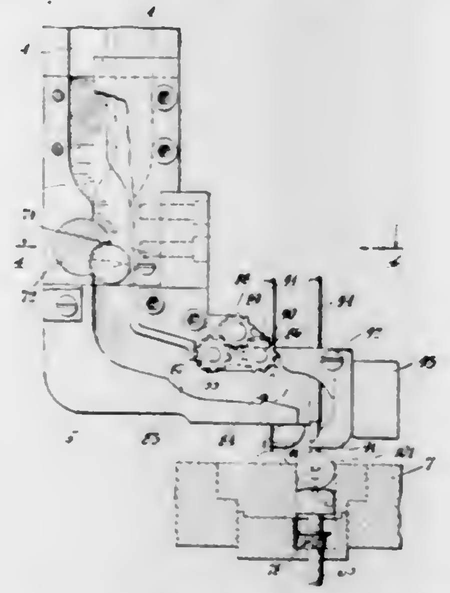
swivel axis and the shock absorber's axis defining a fore-and-aft median plane, a ground-engaging member of material breadth, a mounting swiveled in said swivel support, and supporting said ground-engaging member normally in trail behind the swivel axis, with its breadth substantially equally distributed at opposite sides of such median plane, a short lever arm carried by said mounting, above the swivel support, an oscillable damper, including a long lever arm, carried by the swivel support, and a link interconnecting said lever arms, the lengths of the respective lever arms and the spacing of their axes being such that the mounting may swivel through 360° within the limits of the damper's oscillation.

2,421,915
FIRE ALARM
Joseph Wilfrid Tousignant, Plattsburg, N. Y.
Application August 30, 1945, Serial No. 613,633
6 Claims. (Cl. 200—137)



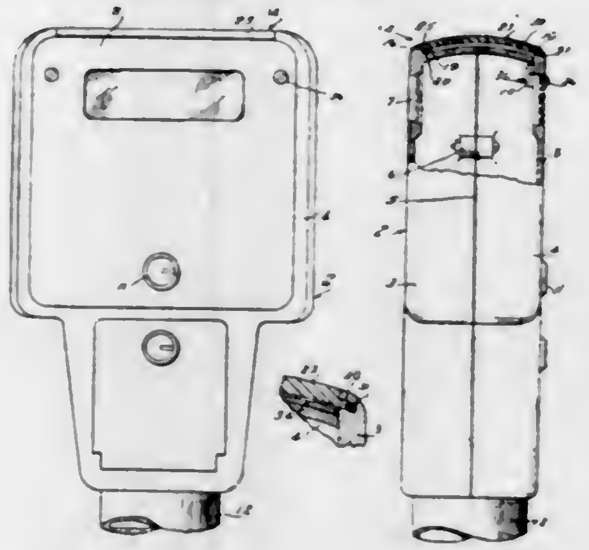
1. A fire alarm comprising an apertured tube, a lever mounted near one end of said tube, a wire having one end fastened to said lever and the other end fixed near the remote end of the tube, said wire being disposed externally of said tube, another wire disposed within said tube and having its ends fixed respectively to said lever and near the remote end of said tube, a conductive clip joining said wires intermediate their ends and passing through one of the apertures of said tube, a contact finger extending from said clip, another contact finger mounted on said tube below the first finger and normally spaced therefrom.

2,421,916
ORIENTING WORK FEEDER
James Ellis Underwood, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 9, 1945, Serial No. 576,980
5 Claims. (Cl. 193—43)



1. In a device for feeding to a work station in oriented position a rotatable body having an opening in its surface, a structure defining a confined passageway adapted to receive said body, an abutment positioned in said passageway to interrupt the passage of an unoriented body, said abutment being positioned and sized to fit within said body opening, and means positioned to rotate the surface of said body against said abutment to register said body opening with said abutment.

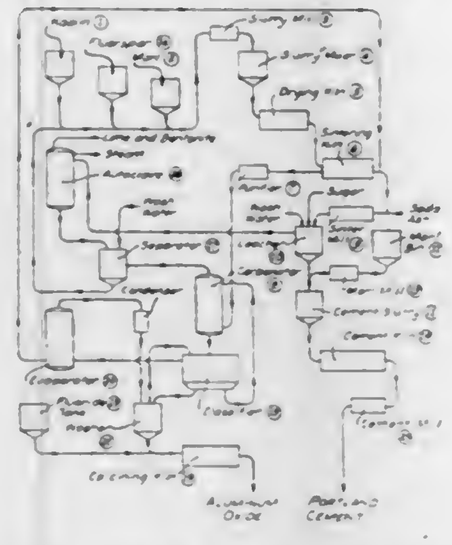
2,421,917
PARKING METER BOX DISPLAY
Curtis M. Williams, Phoenix, Ariz.
Application July 18, 1945, Serial No. 605,707
1 Claim. (Cl. 40—7)



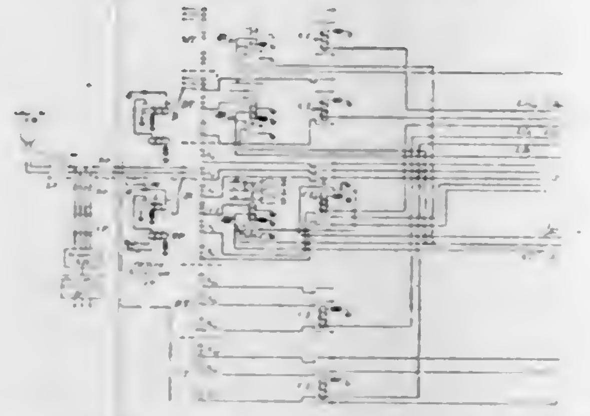
A parking meter box having an access door and a rounded top with a recess formed therein extending transversely throughout a substantial part thereof, a shoulder formed along the side edges and rear edge opposite said access door of said recess, said shoulder having a groove adjacent the walls of said recess, a groove extending transversely of said access door along the inner face thereof below its top edge, a top of transparent material having a depending lip along its back and side edges adapted to fit into said grooves on said recess shoulders, and a horizontally extending lip on the lower part of its front edge, a cavity adapted to receive a card formed in said recess between the case body and said transparent top, said top adapted to conform to the contour of the top of said box with its side and back edges resting on and attached to said shoulders and its depending lip engaging in said shoulder grooves; said access door having a groove fitted with a gasket extending along its inner face below its top edge adapted to receive the horizontal lip of said top in water-tight relation when said door is in closed position.

2,421,918
PROCESS OF PRODUCING ALUMINUM OXIDE SUBSTANTIALLY FREE FROM SILICA
Frank J. Anderson and Duncan R. Williams, Laramie, Wyo., assignors to Monolith Portland Midwest Company, Laramie, Wyo., a corporation of Nevada
Application September 20, 1944, Serial No. 554,974
2 Claims. (Cl. 23—143)

1. A process of treating naturally occurring earths, such as kaolin, marl, and other earths containing silicon and aluminum, for the purpose of producing aluminum oxide, which comprises: forming a slurry by mixing said earth, a calcium compound, and an alkali-metal carbonate with water, said carbonate being supplied in sufficient amount to produce a mol ratio of not less than $Na_2O:Al_2O_3::1.5:1$ in the slurry; heating the slurry for a time and at a temperature sufficient to drive off the water and to form a sinter containing silicon, calcium, aluminum, and the alkali-metal; grinding the sinter to permit ready leaching; leaching said sinter with water containing an alkali-metal carbonate for a sufficient period to take into solution all water-soluble material in said ground sinter; subjecting the solution so formed to heat and pressure in the presence of bentonite and lime to precipitate from the solution a large proportion of the silica initially present in said solution; removing the precipitated silica from said solution; carbonating the solution obtained by said leaching; separating from said carbonated solution water-insoluble solids produced by said carbonation; adding to said solids sufficient aluminum fluoride to combine with any residual silica in said solids to form silicon tetrafluoride; and calcining the mixture of said solids and silicon tetrafluoride at sufficiently high temperature and for a sufficient time to form and vaporize said silicon tetrafluoride which is allowed to escape from the solids, and simultaneously to convert aluminum hydroxide to aluminum oxide.

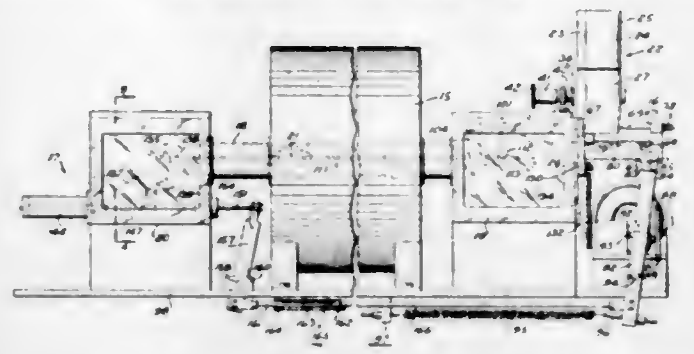


2,421,919
TELEPHONE ROUTING SYSTEM
Robert Campbell Avery, Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application April 29, 1944, Serial No. 533,314
20 Claims. (Cl. 179—18)



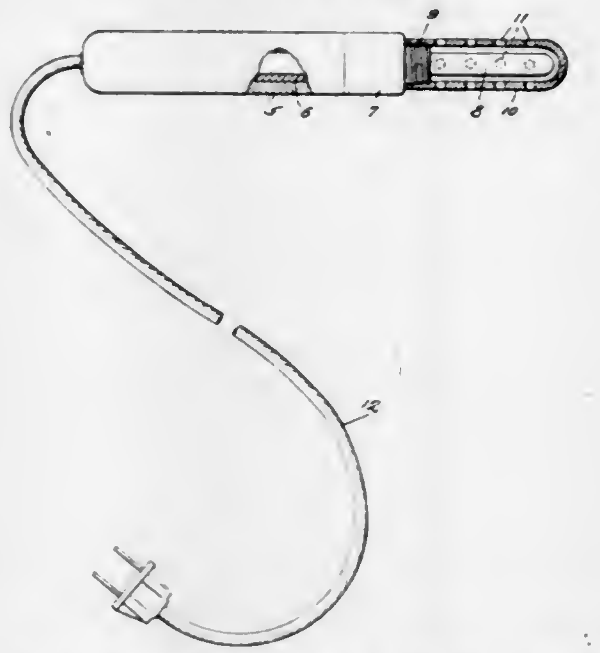
1. In a telephone system, the combination of a plurality of trunks over which calls may be transmitted, a plurality of testing relays each corresponding to one of said trunks, means for simultaneously connecting said testing relays to the corresponding trunks, each testing relay being energized when its corresponding trunk becomes busy, a re-route relay, and means connecting said re-route relay to said testing relays to operate said re-route relay when a predetermined number of said trunks become simultaneously busy.

2,421,920
ARTICLE HANDLING APPARATUS
Elmer E. Barkstrom, Chicago, and Everett J. Shaw, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 6, 1943, Serial No. 509,162
12 Claims. (Cl. 214—18)



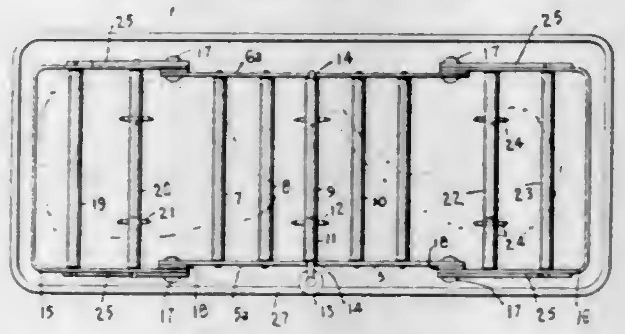
1. An article handling apparatus comprising a magazine, a chute associated with said magazine, means for transferring an article from said magazine to said chute, a charging chamber adjacent said chute, an air seal in said chamber for admitting an article to said chamber while preventing the entry of air, a pusher mechanism for transferring an article from said chute to said chamber through said seal, a charging station in said chamber, a second chute in said chamber for guiding an article so transferred to said charging station, an article treating apparatus adjacent said chamber, means extending from said chamber through said treating apparatus for supporting an article, means for moving an article from said charging station into said treating apparatus along said supporting means, a discharge chamber associated with said treating apparatus, the other end of said supporting means extending therein, an air seal in said discharge chamber to permit an article to be discharged from said chamber while preventing the entry of air, and means for discharging an article from said chamber through said seal.

2,421,921
DEVICE FOR WARMING AND RECONDITIONING BEER
Albert A. Bezosky, Myrtle Point, Oreg.
Application August 20, 1945, Serial No. 611,585
1 Claim. (Cl. 219—41)



An apparatus for treating liquids, comprising an elongated hollow insulated body portion, a tubular conducting member having a threaded end, fitted within the body portion, an elongated solid heating element secured to one end of said tubular conducting member, a hollow shield positioned over the heating element in spaced relation therewith providing a water circulating space, said shield having a plurality of openings formed therein through which liquid passes for contact with the heating element, and means for directing electric current to said tubular conducting member.

2,421,922
TURNING AND FOLDING MEAT ROAST RACK
Ernest Bocchino, Clifton, N. J.
Application October 11, 1944. Serial No. 558,248
3 Claims. (Cl. 99—449)



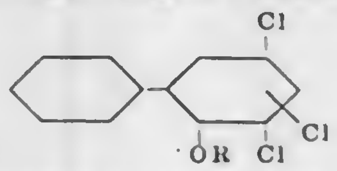
1. A broiler frame consisting of a central frame section having side bars, rollers mounted to turn on said side bars, the side bars having opposite slots, a roller provided with lateral prongs and having trunnions insertable and adapted to turn in the slots and also provided at one end with a flat end key, a U-shaped end frame having its ends disposed in overlapping relation to the ends of the side bars, rivets connecting the overlapping ends to each other to provide friction joints between said U-shaped end frame and the side bar, a second U-shaped end frame similarly pivotally connected to the other ends of the side bars, and a leg pivotally connected by each rivet to the combined frame structure, and adapted to support the frame structure with the end frames disposed vertically on the central frame, or with the end frames disposed in the same horizontal plane as the central frame.

2,421,923
SHOE HEEL AND METHOD OF MAKING SAME
Abraham Chodor, Reading, Pa., assignor of one-half to Nathan Fein, Reading Pa.
Application March 7, 1945, Serial No. 581,357
2 Claims. (Cl. 12—142)

1. The improved method of making a stitchdown type shoe, which comprises providing a shoe upper having an outwardly flanged lower peripheral edge with a recessed fold at the inner edge of the flange encircling the heel portion thereof providing a stitch-hiding groove lying inwardly beneath the lower edge of said heel portion, stitching said upper flange to the peripheral edge of an inner sole with the stitching encircling said heel portion lying within said groove, trimming away the seamed-together edges of said inner sole and shoe upper projecting outwardly around the heel portion to conform with the outer curvature of the latter, then stitching the forward portion of an outer sole to said outwardly projecting flange and its attached inner sole rearwardly around said upper to the heel portion of the latter, and nailing a narrower heel-shape conforming outer sole heel portion and a heel lift therefor to the heel portion of said upper-attached inner sole to underlie and cover the stitching uniting said inner sole and shoe upper lying within said heel groove.

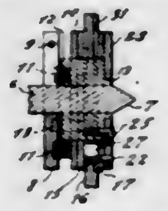
2,421,924
ETHERS OF 2-HYDROXY-3.5.x-TRICHLORODIPHENYL
Gerald H. Coleman and Wesley D. Schroeder, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 15, 1942, Serial No. 451,050
6 Claims. (Cl. 260—612)

1. A compound having the formula



wherein R represents an organic radical combining with the ether-oxygen through an aliphatic carbon atom and selected from the group consisting of alkenyl, alkyl, alkoxy-alkyl, halo-alkoxy-alkyl, cycloalkyl, and aralkyl radicals, obtained by the direct etherification of 2-hydroxy-3.5.*x*-trichloro-diphenyl melting at 117°–118.5° C.

2,421,925
SLIP-FRICTION COUPLING
Austin G. Cooley, New York, N. Y., assignor to Times Facsimile Corporation, a corporation of New York
Application September 11, 1943, Serial No. 501,953
1 Claim. (Cl. 64—30)



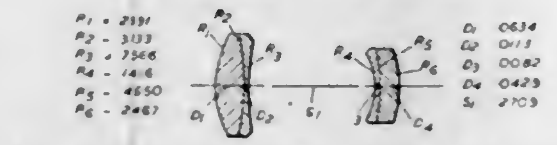
A slip-friction clutch for telegraph machines comprising a pair of annular driving discs having frictional opposed surfaces consisting of compacted powdered metal incorporating lubricating material and an intervening driven disc, said driven disc having its opposite faces annularly recessed, and a plurality of metal plugs passing through said recessed portion and extending from opposite sides thereof into engagement with said pair of driving discs, the surfaces of said plugs being of substantially the same material as said driving discs.

2,421,926
JEWEL CARRYING TOOL AND METHOD OF MAKING THE SAME
Maurits Coronel, Bangor, Wales
Application October 3, 1945, Serial No. 620,107
In Great Britain October 18, 1944
5 Claims. (Cl. 125—39)

1. A method of fitting a jewel in a steel shank, consisting in forming a parallel-sided transverse slot in the end of said shank, fitting a wedge-shaped steel bar into said slot, compressing the

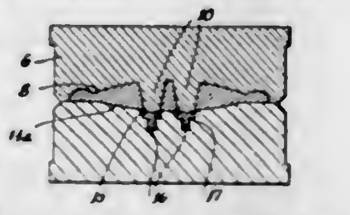
sides of the slot against the sides of said bar, removing said bar endwise from said slot, fitting a jewel into a transverse slot in a second wedge-shaped bar, forcing said second bar from one end into said compressed slot, and brazing the second bar in said slot.

2,421,927
OPTICAL OBJECTIVE OF THE TELEPHOTO TYPE
Arthur Cox, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application December 13, 1945, Serial No. 634,674
In Great Britain January 16, 1945
22 Claims. (Cl. 88—57)



1. An optical objective of the telephoto type, corrected for spherical and chromatic aberrations, coma, astigmatism, and field curvature, and comprising a front convergent doublet member whose cooperating internal contact surfaces are concave to the front and whose front surface is convex to the front with radius of curvature between .22 and .35 times the equivalent focal length of the objective, and a rear divergent doublet member separated from the front member by an axial air space between .25 and .35 times such equivalent focal length and having its front and rear surfaces concave to the front, the front surface of the rear member having radius of curvature between .125 and .20 times the said equivalent focal length, all four elements of the objective being made of materials having mean refractive index greater than 1.61, whilst any axial separation between the cooperating contact surfaces in either member is not greater than .010 times the said equivalent focal length.

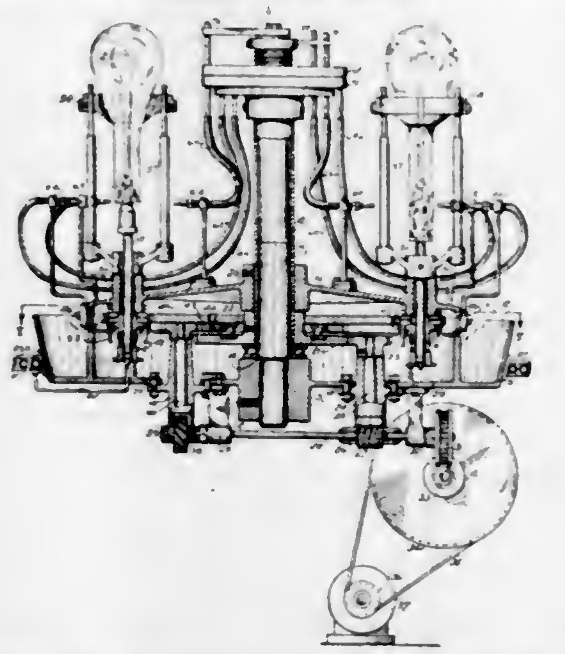
2,421,928
MOLD AND METHOD OF MOLDING
Samuel R. Davis, Federalsburg, Md., assignor to Maryland Plastics, Inc., Federalsburg, Md., a corporation of Maryland
Application October 5, 1944, Serial No. 557,323
10 Claims. (Cl. 18—42)



1. The method of molding articles in a sectional mold which method comprises molding on the article in the closed mold sections, a part projecting above the surface and not desired on the finished article, anchoring said undesired part to one of the mold sections, utilizing said anchored part to retain the article on the section to which it is anchored when the sections are opened, removing the article from the section without removing the anchored part by breaking the article from the anchored part, and removing by tumbling the projecting roughness.

5. In a mold for molding articles such as buttons having one or more apertures therein, the combination of a mold part for forming one side of a button and having pins for forming the apertures in the button, a second mold part for forming the other side of the button, said second part having recesses in the line of travel of the respective pins adapted to extend about the adjacent ends of the pins, when the pins are forced through the molding material, a sub-recess in the bottom of each said first recesses having a reduced opening to anchor a button in position.

2,421,929
MACHINE FOR SEALING BULBS
Charles Eisler, South Orange, N. J.
Application June 13, 1944, Serial No. 540,112
1 Claim. (Cl. 49—2)

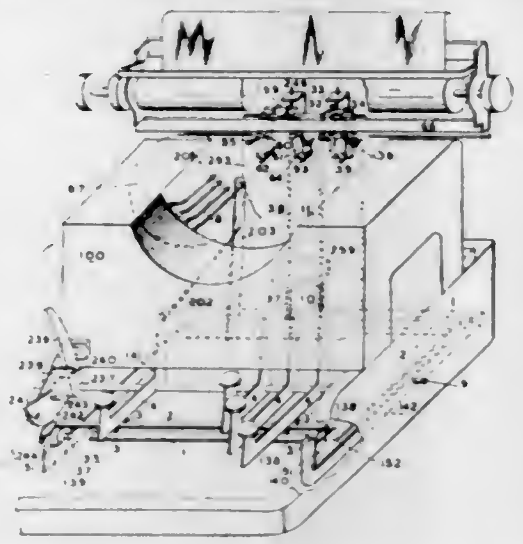


A machine for sealing bulbs comprising a base, a spider mounted on the base, means for continuously rotating the spider, spaced bulb supports rotatably mounted at the rim of the spider, interconnected means for rotating the bulb supports relative to the spider, burners mounted on the spider for directing flame on the bulbs in the supports, means for intermittently supplying gas to the burners, said bulb supports including hub members, said interconnected bulb support rotating means including a ring gear, means to constantly rotate the latter, a slip gear rotatably disposed on a hub member and in mesh with the ring gear, said hub member having slots, friction pads slidably disposed in the slots of the hub member, spring means normally urging the pads into contact with the slip gear to rotate the hub therewith, a pin depending from the hub, and a stop rail interposed in the path of rotation of the depending pin to stop rotation of the bulb supports at the stations of the machine at which the rail is disposed.

2,421,930
MECHANISM FOR THE ADVANCEMENT OF THE CARRIAGE OF TYPEWRITERS AND THE LIKE
René Louis Romain Robert Geirnaert, Brussels, Belgium
Application July 28, 1939, Serial No. 287,135
In Germany August 9, 1938
5 Claims. (Cl. 197—84)

1. Escapement mechanism for typewriters and like machines having a frame and a spring or like operated carriage travelling thereon, comprising

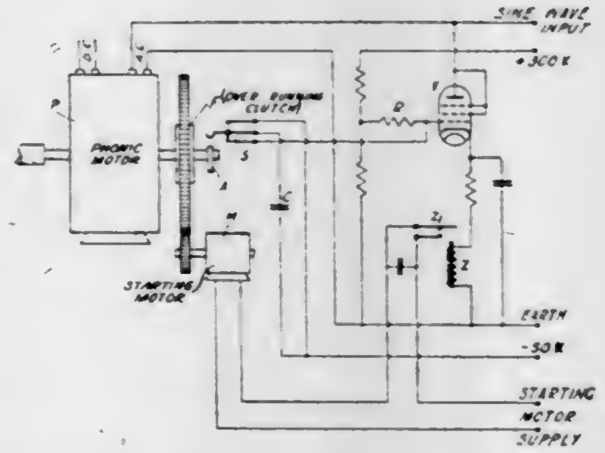
a rail fixed to said carriage, a stationary gripping device secured to said frame and adapted to engage said rail, a movable gripping device slidably displaceable on said frame and also adapted to engage said rail, type keys for controlling the printing of type characters, means selectively operable by said type keys for moving said movable gripping device opposite to the direction of escapement a distance proportional to the width of the type character corresponding to each type key, and means for releasing and engaging said gripping devices, comprising two pivoted levers each associated with one of said devices, a common control head for operating said levers, a single rod connected to said control head, and means including a contact bar operable by the type keys for actuating said rod and control head.



2,421,931
AUTOMATIC STARTING ARRANGEMENT FOR SYNCHRONOUS MOTORS

Leslie W. Germany, Cambridge, England, assignor to Pye Limited, Cambridge, England, a British company

Application June 30, 1945, Serial No. 602,598
In Great Britain March 30, 1944
7 Claims. (Cl. 172—289)

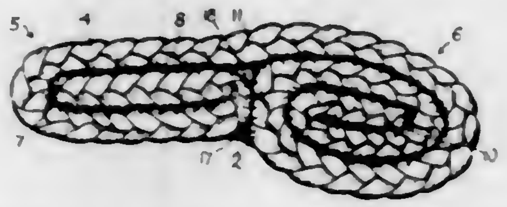


1. Automatic starting arrangement for synchronous motors, comprising a synchronous motor, a starting motor, means comprising a clutch mechanism for driving the synchronous motor by the starting motor, means for feeding a driving waveform to the synchronous motor, a rectifier for rectifying a proportion of the driving waveform, means actuated by the rectifier output for operating the starting motor, means for biassing the rectifier upon starting to such a conducting portion of its characteristic that the rectified output will start the starting motor, and means operated in accordance with the speed of the synchronous motor for changing the bias on the rectifier to a less conducting portion of its characteristic such that, when the synchronous motor attains its correct operating speed, the rectified output is reduced to such a low value that the starting motor is stopped and the clutch mechanism disengaged.

2,421,932
SOLE FOR FOOTWEAR

David D. Goldstein, Pittsburgh, Pa., assignor to Allied Manufacturing and Trading Company, Pittsburgh, Pa.

Application June 12, 1945, Serial No. 599,055
9 Claims. (Cl. 36—25)

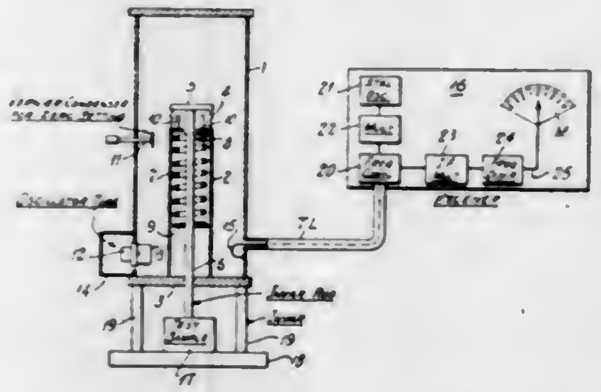


1. A layer for the sole of footwear formed of a flat braid made of a flexible fibrous material, the braid forming two elongated spirally wound loops, the successive turns of the braid abutting each other by their edges, the sides of the braids forming the outer surfaces of the sole, the ends of the braid being placed in the middle of respective loops.

2,421,933
DIMENSION MEASURING DEVICE

Hallan E. Goldstine, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application May 3, 1943, Serial No. 485,459
8 Claims. (Cl. 33—147)

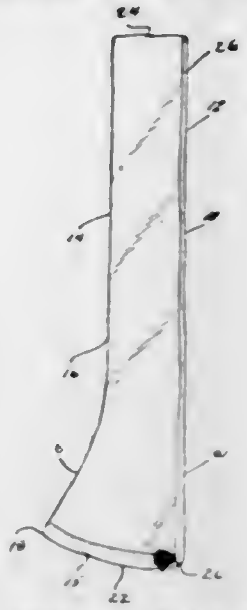


1. An electrical dimension measuring system comprising an ultra high frequency oscillator whose frequency is controlled by the object to be observed, said oscillator including a low loss concentric line resonator having inner and outer hollow conductors fastened together at one end by an end plate, an aperture in said end plate, a rod of low temperature coefficient material within said inner conductor and connected to the other end of said inner conductor and freely passing through said aperture, the end of said rod which is remote from the last end of said inner conductor being free and adapted to rest on the object to be measured, whereby changes in dimensions of objects being tested vary the position of said rod with a corresponding change in the frequency of said oscillator, means for beating the output of said oscillator with oscillations of a constant and different radio frequency, and an indicator calibrated in dimensional units responsive to variations in the resultant beat frequency.

2,421,934
COMBINATION HEAD AND NECK COVERING

Amelia Golfieri, New York, N. Y.

Application October 5, 1946, Serial No. 701,480
1 Claim. (Cl. 2—198)

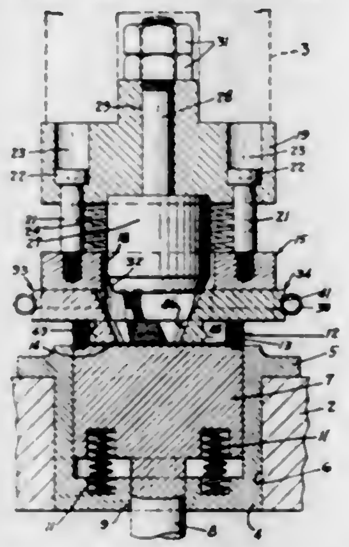


An article of wearing apparel comprising an elongated endless loop of material having a widened portion adapted to form a head covering, the loop when folded transversely through the widened portion forming a curved end and having a straight continuous side, the transverse fold line being curved away from the said straight side and inclining towards the opposite end of the loop, the other side curving inwardly from the transverse fold line towards the opposite end and continuing parallel to the straight side for at least half the length thereof forming a portion adapted to encircle the neck of the wearer.

2,421,935
DIE

Joseph H. Gosnell, Jr., Minneapolis, Minn.

Application April 17, 1944, Serial No. 531,517
6 Claims. (Cl. 93—36)

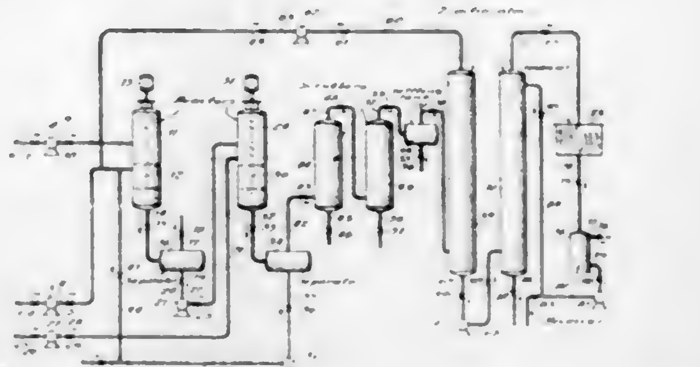


1. In a die of the class described, a hollow die member, a cylindrical cap supporting member yieldably mounted in the die member, a holder, a plurality of die segments mounted for radial movement in the holder and each having a thread-forming portion on its periphery, and a plunger mounted for movement in a direction at right angles to the movement of the die segments, said plunger having operative connections with the die segments whereby when moved in one direction, said segments are expanded into engagement with a flange of a closure cap thereby to provide a continuous screw thread therein.

2,421,936
PRODUCTION OF OCTENES

Vladimir Haensel and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application April 23, 1943, Serial No. 484,215
9 Claims. (Cl. 260—682)



1. A process for producing olefin polymers of highly branched chain structures which comprises absorbing in a first step a non-tertiary olefin of at least four carbon atoms per molecule in a mineral acid polymerizing catalyst, subsequently in a second step introducing a tertiary alcohol in free unabsorbed form to the mineral acid catalyst containing the absorbed olefin and reacting said alcohol with the absorbed olefin in the absence of unabsorbed olefin, and separating the resultant hydrocarbon polymer from the catalyst.

2,421,937
PRODUCTION OF IMINES

Vernon E. Haury, El Cerrito, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 5, 1944, Serial No. 529,873
17 Claims. (Cl. 260—566)

1. A process for the production of imines which comprises contacting a secondary amine, in which the —NH— group is directly linked to two hydrocarbon radicals at least one being an alkyl group linked to the —NH— group by means of a carbon atom which is also directly linked to at least one hydrogen atom, with a dehydrogenation catalyst comprising a material of the group consisting of nickel metal, chromium metal, finely divided palladium metal, colloidal platinum metal, alumina, iron oxide, copper oxide and chromium oxide at about 100° C. to about 500° C. whereby one mole of free hydrogen is removed from said amine per mole of imine produced.

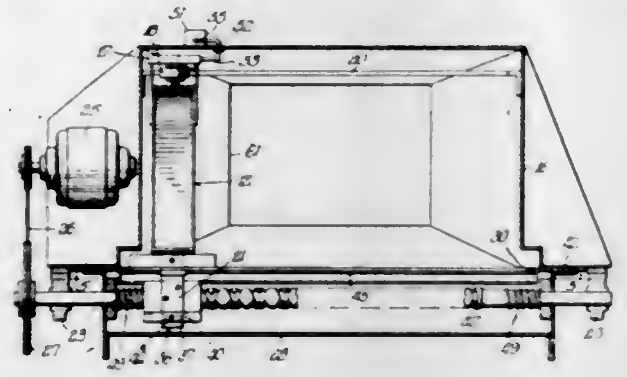
2,421,938
MATERIALS SAMPLER

Thomas R. Held, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., a corporation of Illinois

Application June 13, 1944, Serial No. 540,157
5 Claims. (Cl. 73—423)

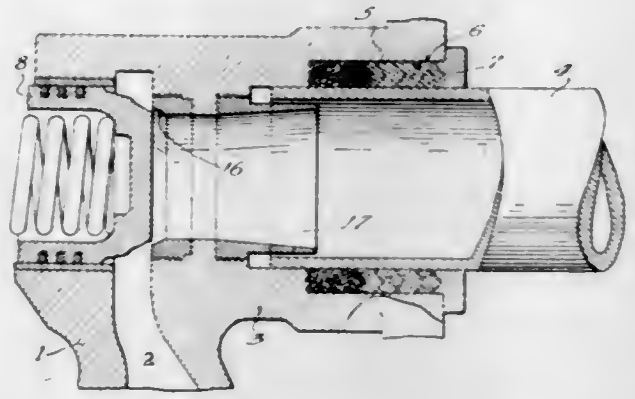
1. Means in a conveyor to obtain representative samples from a stream of falling material in the conveyor, said means including a sample collector, walls forming a sheltered pocket for said collector to one side of said stream, a unidirectional driving means operatively connected with said collector to cause the collector to traverse said stream and enter said pocket, means to deenergize said driving means when said collector enters said pocket thereby to cause the driving means and the collector to coast to a stop, and

means to reverse the operative connection between the driving means and the collector with respect to the direction of operation of the collector relative to the direction of operation of the driving means when the collector reaches a limit position in the pocket, whereby the collector may continue its coasting in the opposite direction, the width of the pocket being sufficient to permit such reverse coasting of the collector to a full stop without exposure of the collector to said stream of material.



2,421,939
LEAK REDUCER FOR JOINTS BETWEEN RELATIVELY ROTATABLE CONDUITS

De Los E. Hibner and Fred C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation, a corporation of Pennsylvania
Application May 2, 1944, Serial No. 533,746
1 Claim. (Cl. 285—97.1)

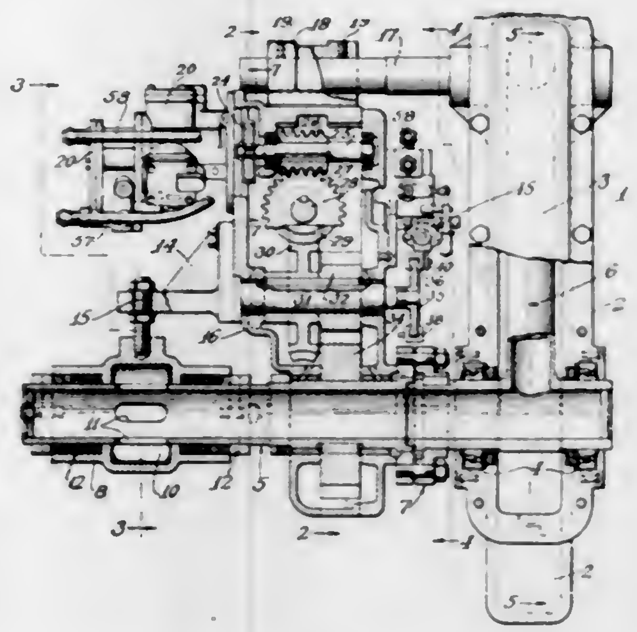


In combination, a soot blower head containing a chamber for cleaning fluid under pressure and a tubular hub-like part the bore in which communicates with said chamber and terminates in a stuffing box, a tubular blowing element extending from the outside through and freely rotatable in the stuffing box, and a nozzle fixed at its inner end in and filling the inner end of said hub-like part and extending a substantial distance into the inner end of the blowing element.

2,421,940
POWER-DRIVEN SOOT BLOWER

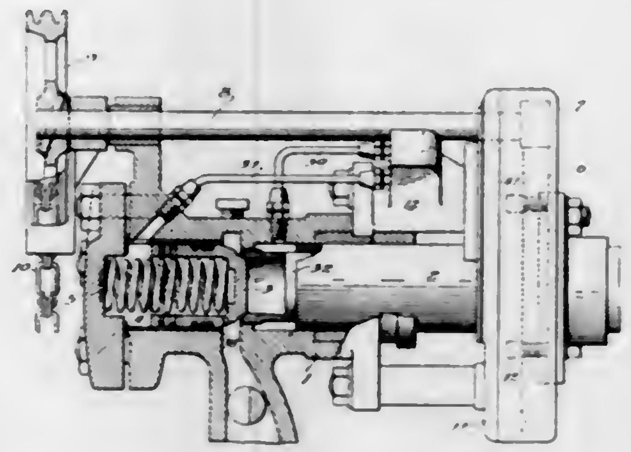
De Los E. Hibner and Fred C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation, a corporation of Pennsylvania
Application August 5, 1944, Serial No. 548,184
7 Claims. (Cl. 122—392)

1. In a soot blower unit, a deep, high and narrow housing for attachment to a furnace wall, a tubular shaft having thereon a blowing element at right angles thereto and in fluid conducting relation therewith, said shaft extending transversely through the lower end of the housing and being rotatably supported therein with the blowing element disposed at its base end within the housing, a cantilever member fixed to the housing above and parallel to said shaft, a gear casing hung from said member and having a bearing through which the shaft extends, an engine mounted on one side of the casing, a gear train in the casing connecting the shaft to the engine, and a blower head for supplying cleaning fluid, said head having a part containing a chamber for such fluid, and said shaft extending through said chamber and containing ports that place the interior of the shaft in communication with the chamber.



2,421,941
VALVE MECHANISM FOR SOOT BLOWERS

De Los E. Hibner and Fred C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation, a corporation of Pennsylvania
Application November 10, 1944, Serial No. 562,858
7 Claims. (Cl. 15—104.045)

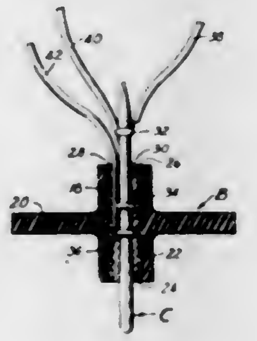


1. The combination with a soot blower in which the main valve for admitting cleaning fluid to a movable blowing element that moves back and forth is caused to close when the pressure of fluid behind it attains a predetermined value and is caused to open when the pressure drops below that value, of means for constantly delivering cleaning fluid under pressure behind said main valve, other means including a control valve to cause fluid from behind the main valve to escape faster, when the control valve is open, than it is

delivered by the first means, said control valve being limited to movements between two extreme positions in which it is closed and through an intermediate position in which it is open, an actuating member for said element, stop pieces adjustably mounted on said member to determine the limits of movements of the element, and means on the control valve to be engaged by the stop pieces to open the latter at the beginning of each movement of the blowing element in either direction and to close it again at the end of that movement.

2,421,942
GUARDED FIRE ALARM THERMOSTAT

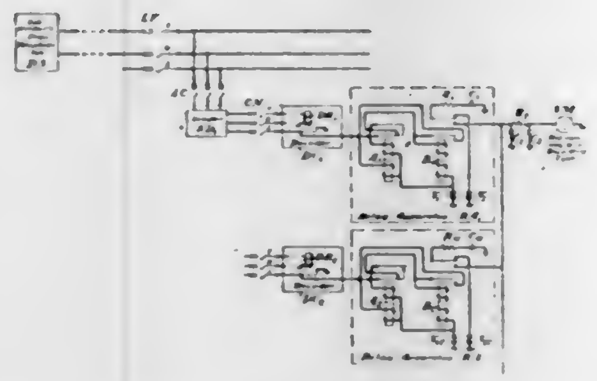
Frank O. V. Hiergesell, Philadelphia, Pa.
Application September 16, 1944, Serial No. 554,515
5 Claims. (Cl. 200—141)



1. A mercury thermostat unit, comprising a housing divided into two parts, a mercury thermostat, a flexible support for said thermostat positioned between the two parts of said housing, said flexible support supporting said thermostat.

2,421,943
TELEPHONE TRAFFIC INDICATING APPARATUS

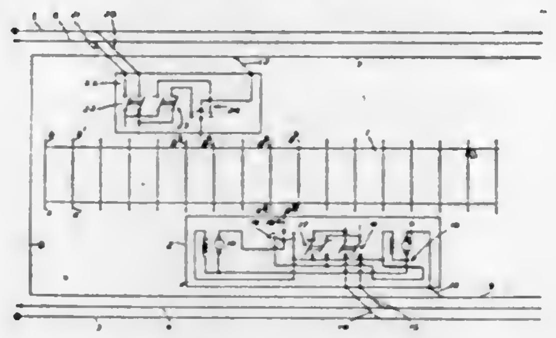
Edward Weathers Hill, Takoma Park, Md., assignor to American Telephone and Telegraph Company, a corporation of New York
Application December 22, 1944, Serial No. 569,314
6 Claims. (Cl. 179—8.5)



3. Telephone traffic measuring apparatus for a central office having a plurality of independent decoders, comprising a plurality of normally charged condensers each controlled by one of said decoders, a discharge control circuit having predetermined resistance and capacitance, a recording meter connected to said discharge control circuit, and means controlled by each decoder to transiently connect its associated condenser to said discharge control circuit immediately upon the operation of said decoder.

2,421,944
SYNCHRONIZED CONTROL GEAR

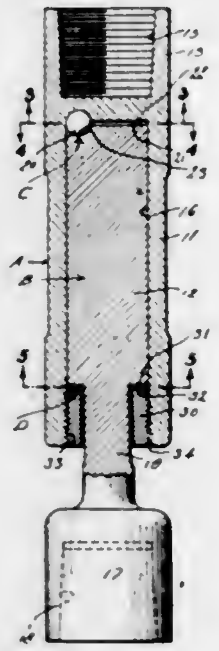
William Hughes, Consett, England
Application September 4, 1945, Serial No. 614,353
In Great Britain March 2, 1943
6 Claims. (Cl. 214—23)



6. A system for synchronously controlling the coke ramming machine and the coke guide machine for the servicing of a battery of coke ovens, said machines being adapted for travelling along paths in front and back of said battery, comprising a series of projections arranged along said paths, a two-way switch on each machine, a projecting member on each switch; said projecting member being adapted to cooperate with said projections in succession, so that one or other of the contacts of said switch are brought into play according to the direction of movement of the machine and a positive or negative impulse thus generated, escapement mechanism adapted to be actuated by said impulses, a rotatable switch disc adapted to be actuated by said escapement mechanism and contacts on said disc switches arranged so that when the two machines are in the desired position for cooperating, said contacts close the control circuit so that the coke ramming machine may be operated to push out the coke from an oven into the coke guide on the other side of said oven.

2,421,945
CONNECTION FOR WELL EQUIPMENT

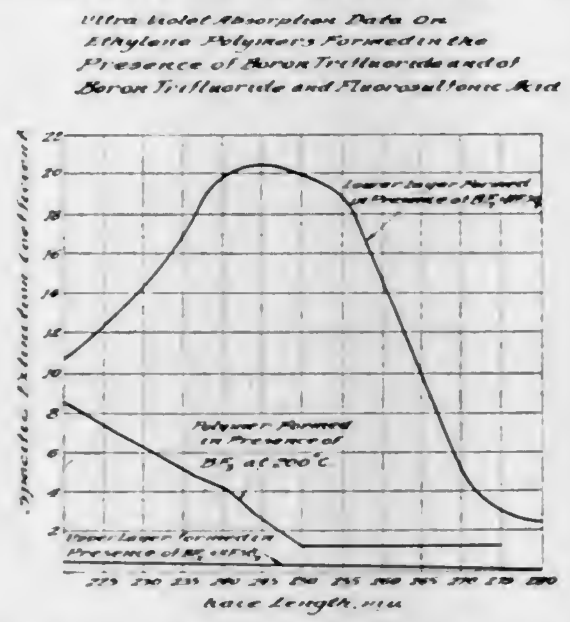
Gerald R. Hunt, Riverside, Calif.
Application April 28, 1944, Serial No. 533,149
23 Claims. (Cl. 287—103)



1. A coupler of the character described including, two sections, and means connecting the sections against separation including, a stop on one section and a cutter on the other section operable by predetermined movement between the sections to cut away the stop.

2,421,946
POLYMERIZATION OF OLEFINIC HYDROCARBONS

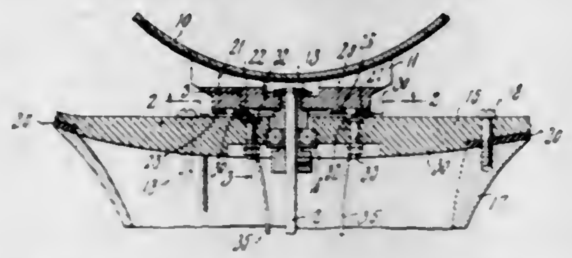
Vladimir N. Ipatieff, Chicago, and Carl B. Linn, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 30, 1945, Serial No. 602,608
10 Claims. (Cl. 260—683.15)



1. A process for producing hydrocarbons of higher molecular weight which comprises polymerizing an olefinic hydrocarbon in the presence of boron trifluoride and fluorosulfonic acid.

2,421,947
ELECTRICAL CONTACTOR SYSTEM

William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Original application December 14, 1939, Serial No. 309,137. Divided and this application July 2, 1943, Serial No. 493,188
2 Claims. (Cl. 173—324)

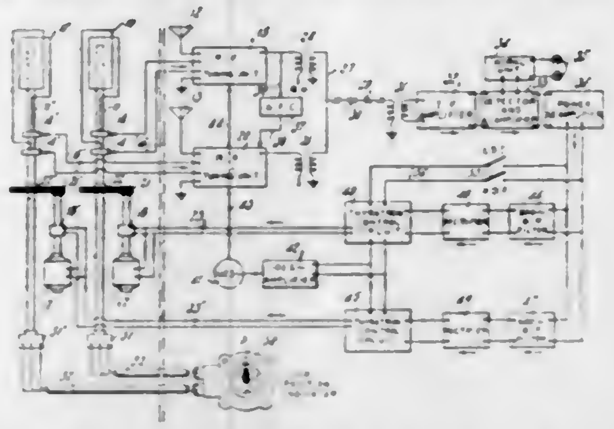


1. A contactor for establishing an electrical connection with a relatively movable conductor comprising a conductive strip having a body terminating in reversely bent resilient ends, each of said ends being acutely disposed with respect to said body in elevation and plan.

2,421,948
DUAL RADIO DIRECTION FINDER

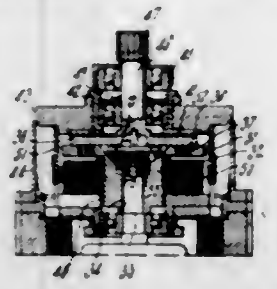
William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Original application November 27, 1939, Serial No. 306,315, now Patent No. 2,379,363, dated June 26, 1945. Divided and this application September 27, 1943, Serial No. 503,870
9 Claims. (Cl. 250—11)

1. The method of guiding a mobile craft which comprises transmitting signals of different radio frequencies having individual predetermined tone modulations from a plurality of points; directionally receiving the different radio signals aboard the craft; impressing a predetermined control modulation on each of said received radio signals; transforming the different radio frequency signals to corresponding signals with substantially the same carrier wave frequency which contain the control and tone modulations; commonly amplifying the transformed signals and deriving their corresponding tone and control modulations; segregating the respective tone modulations including their respective control modulations; and obtaining therewith a directional bearing on each of the transmitted radio signals with respect to the position of the mobile craft.



2,421,949
CENTRIFUGAL BRAKE AND CLUTCH UNIT

William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application June 20, 1945, Serial No. 600,485
20 Claims. (Cl. 192—18)

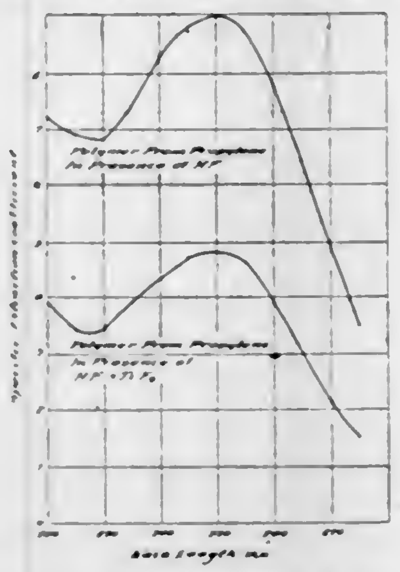


1. A clutch and brake unit comprising, in combination, a driving member; a driven member coactable with said driving member; a brake surface arranged adjacent said driven member; resilient means normally biasing said members out of engagement; speed responsive means effective during rotation of said driving member above a predetermined angular velocity to exert a separating force on said members; and other means effective, when activated, to overcome such separating force and said resilient means to establish frictional engagement between said members; said speed responsive means, upon deactivation of said other means, engaging said driven member with said brake surface to arrest rotation of said driven member during rotation of said driving member above the predetermined angular velocity.

2,421,950
POLYMERIZATION OF OLEFINIC HYDROCARBONS

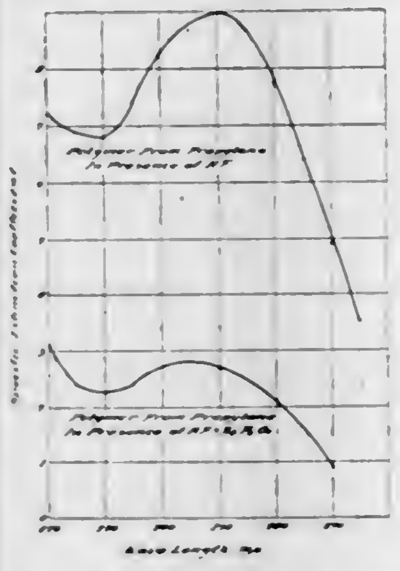
Carl B. Linn, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 31, 1945, Serial No. 596,923
9 Claims. (Cl. 260—683.15)

1. A polymerization process which comprises reacting an olefinic hydrocarbon having at least 3 carbon atoms per molecule in the presence of a catalyst comprising a major proportion by weight of liquid hydrogen fluoride having dissolved therein a minor proportion by weight of an inorganic compound soluble in liquid hydrogen fluoride and boiling below about 300° C., said compound being selected from the group consisting of the fluorides and oxy-fluorides of sulfur, selenium, nitrogen, phosphorus, molybdenum, titanium, tungsten, vanadium, and silicon.



2,421,951
POLYMERIZATION OF OLEFINIC HYDROCARBONS

Carl B. Linn, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 31, 1945, Serial No. 596,924
12 Claims. (Cl. 260—683.15)

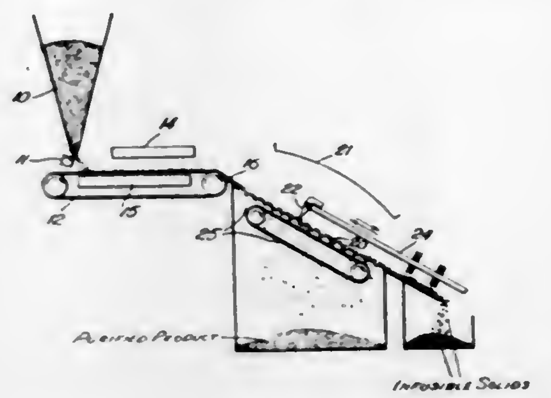


1. A conversion process which comprises polymerizing an olefinic hydrocarbon having at least 3 carbon atoms per molecule in the presence of a catalyst comprising a major proportion by weight of liquid hydrogen fluoride having dissolved therein a minor proportion by weight of a substantially non-oxidizing compound soluble in liquid hydrogen fluoride and selected from the group consisting of the acids of phosphorus and their anhydrides and esters.

2,421,952
PURIFICATION OF COPALS

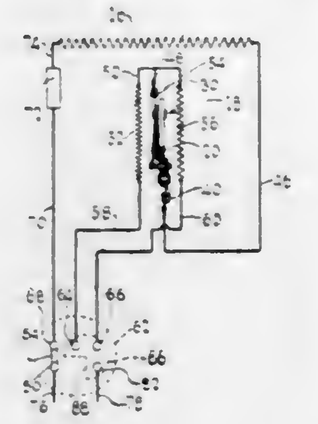
Samuel Lipsius, New York, N. Y.
Application October 28, 1943, Serial No. 508,078
4 Claims. (Cl. 106—240)

1. A method for purifying copal comprising grinding the copal to substantially pass a 20 mesh screen; mixing the reduced copal with about one sixteenth of its weight of plasticizer to form a mix; spreading said mix in a thin layer upon a screen; quickly heating said layer to melt the fusible portions of the copal; wiping said layer to force fused portions through the screen and rake off foreign matter; and cooling the portion passed through the screen; said layer being thin to permit rapid heating and prevent local overheating of the mix and discolorization resulting therefrom, whereby the fused portion may be held near its fusion temperature only for a minimum length of time.



2,421,953
ELECTRIC HEATING PAD CONTROL

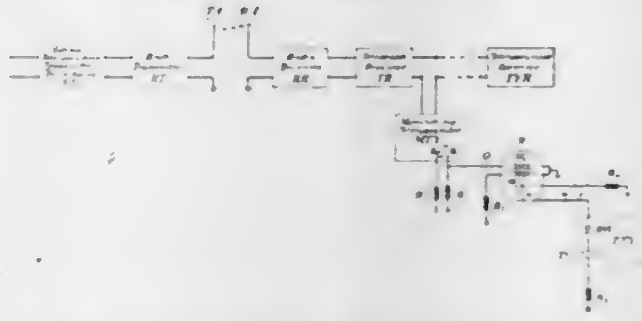
David B. MacKendrick, New York, N. Y.
Application October 23, 1944, Serial No. 559,901
2 Claims. (Cl. 219—46)



1. An electric heating pad including a single master coil, a pair of thermostats in the heated portion of the pad both connected in series with said master coil and one adapted to be controlled by said master coil, a pair of auxiliary heaters in said heated portion for controlling the other thermostat, said auxiliary heaters being so connected that either one may be placed in series with said other thermostat and master coil or both connected in parallel with each other and in series with said other thermostat and master coil, the total resistance of said master coil greatly exceeding the total resistance of either of the auxiliary heaters and the resistance per unit length of each auxiliary heater exceeding the resistance per unit length of the master coil and differing from one another, the resistance per unit length of said auxiliary heaters connected in parallel being no greater than the resistance per unit length of said master coil, both of said thermostats being calibrated to the same temperature.

2,421,954
APPARATUS FOR INDICATING TELETYPEWRITER SPEEDS

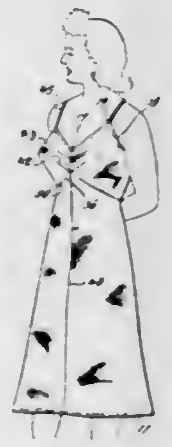
Wade B. Martin, Ramsey, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application October 20, 1944, Serial No. 559,622
9 Claims. (Cl. 178—69)



1. In a teletypewriter system, the combination of an automatic teletypewriter producing a variety of start-stop teletypewriter signals continuously, a relay, means responsive to said teletypewriter signals to operate said relay once for each signal, a teletypewriter producing a predetermined signal continuously at a constant speed independent of the speed of said first teletypewriter, and means including the armature and a contact of said relay for immediately modifying the predetermined signals in accordance with the operation of said relay to produce other teletypewriter signals.

2,421,955
GARMENT

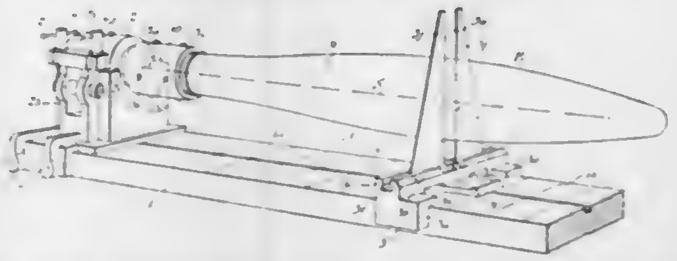
Frances R. McAbee, Westport, Conn., assignor to McAbee Industries, Incorporated, Westport, Conn., a corporation of Connecticut
Application May 19, 1945, Serial No. 594,729
2 Claims. (Cl. 2—73)



1. A ladies' garment including attached waist and skirt portions and formed from a pair of similarly-shaped blanks, each formed from a plurality of pieces of material, two adjacent side edges of the blanks being joined together to form a single, front vertical seam, and the two remaining side edges of the blanks being joined together to form a single, rear vertical seam, such seams lying, respectively, substantially along the front and rear vertical median lines of the garment, each blank including a curved lower edge forming the lower edge of the garment, the side edges, and upper edges which form the upper edge of the waist portion of the garment and which are formed with front and back, upwardly-inclined extensions, shoulder straps on each side of the garment secured at their opposed terminals to such extensions, each blank having a cut-out portion extending inwardly from the side edge at the rear of the garment to a point adjacent to, but spaced from, the vertical edge at the front of the garment, such cut-out portion lying in the lower waist-encircling section, the upper and lower edges of such cut-out portion being joined together to form a generally diagonal seam which extends from adjacent the front of the bust-enclosing section downwardly to the rear vertical seam.

2,421,956
MANUFACTURE OF PROPELLER BLADES

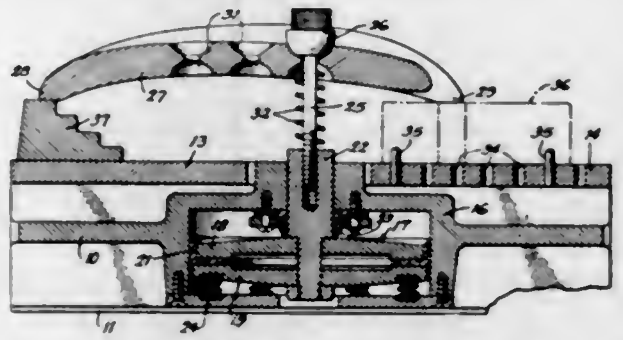
David J. McComb, Emsworth, Pa., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application January 29, 1944, Serial No. 520,361
3 Claims. (Cl. 29—156.8)



2. In the art of manufacturing propeller blades, the method of machining the shank surface thereof in concentric, co-axial relation with a plurality of airfoil dimension characteristics along said blade, comprising camber and thrust surface contour, thickness, edge alignment, width and axial center of said blade, which consists in adjustably securing the shank portion of a blade in a hollow fixture having an axis of rotation and spaced, circular gaging surfaces concentric therewith, adjusting said fixture relative to said shank to bring said fixture into concentric alignment with all of said characteristics, placing said blade and attached fixture in a metal turning machine adapted to support said blade independently of said fixture, adjustably securing said blade in said machine to bring said gaging surfaces into concentric relation with the turning axis of said machine, removing said fixture from said shank and turning the surface thereof down to a final diameter concentric with and in axial alignment with all of said characteristics.

2,421,957
WORK HOLDING APPARATUS

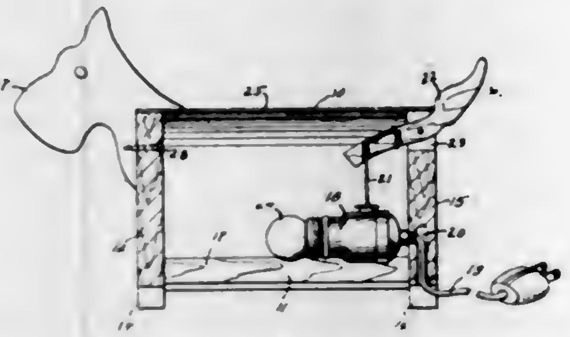
Theodore E. Mead, Wilmette, Ill., assignor to Mead Specialties Company, Inc., a corporation of Illinois
Application January 24, 1944, Serial No. 519,457
1 Claim. (Cl. 90—59)



Work holding apparatus comprising a base having substantially plane end portions, a clamping rod extending upwardly from the central portion of the base, an elongated clamping bar formed intermediate its ends with an opening through which the clamping rod extends and having a parti-spherical socket in its upper side around the opening, a head on the rod having a parti-spherical portion to fit in the socket, the bar having a relatively narrow clamping portion at one end and laterally spaced clamping portions at its other end, the base having a vertical central bore therein, a piston in the bore connected to the rod, a spring urging the bar away from the piston, means to supply fluid to the bore above the piston, and springs urging the piston upward in the bore.

2,421,958
NIGHT LIGHT

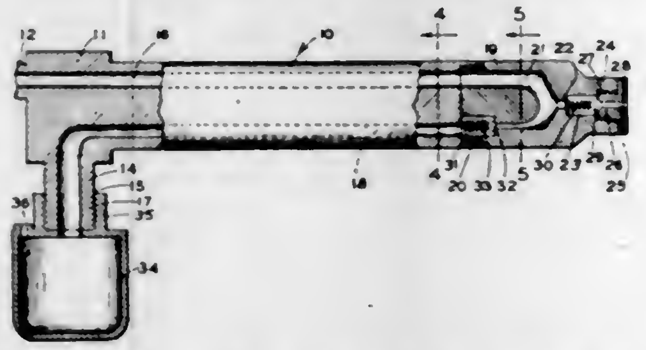
Henry Moretti, Cranston, R. I.
Application October 12, 1945, Serial No. 621,935
1 Claim. (Cl. 240—10)



A night lamp comprising a frame having inverted U-shape front and rear ends, an inverted U-shape translucent cover portion mounted on said frame with the lower edges spaced from the bottom of said frame, an electric pull chain socket mounted on the inside of the rear end of said frame and at right angles thereto, said rear end having a vertical opening extending from the bottom and communicating with said socket, an electrical extension cord passing through said opening and in electrical contact with said socket, said rear end portion having a slot at the upper edge thereof, a lever pivotally mounted in said slot, said pull chain being connected to the inner end of said lever, the outer end of said lever simulating the tail of an animal, and a carved animal head mounted on the front end of said frame.

2,421,959
BLOOD EXTRACTOR

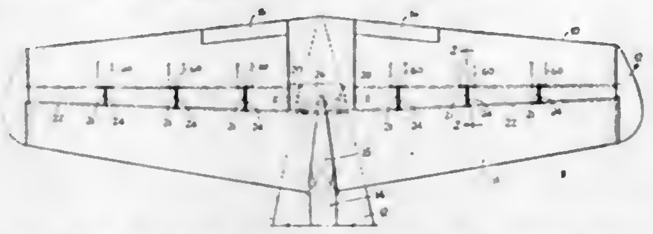
Lessie E. Norris, Atlanta, Ga.
Application January 18, 1946, Serial No. 642,004
3 Claims. (Cl. 128—276)



1. A blood extractor having an orifice in one of its ends communicating with a U-shaped passage arranged in and extending through said extractor, means connected with one leg of said U-shaped passage for alternately creating a suction and a pressure effect in said passage, means for closing said orifice under pressure and opening it under suction and similar means arranged in the second leg of the U-shaped passage and adapted to operate alternately with said orifice closing means.

2,421,960
HINGE MOUNTING

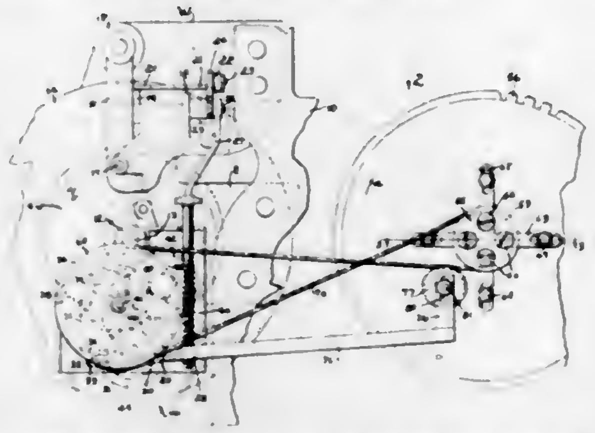
Garrett D. Pagon, Conshohocken, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 17, 1943, Serial No. 502,750
8 Claims. (Cl. 244—117)



1. In an airfoil construction in combination, a leading edge portion having a hinge bracket slot extending back for a distance from the front edge, a spar-like structure extending across the rear end of the slot, said spar-like structure having a hinge bracket slot aligned with the airfoil slot, and a box structure forming a strengthening bridge across and behind the spar slot, said box structure comprising spaced sides connected by a rigid torque tube of a length only to span the space between said sides.

2,421,961
POWER-DRIVEN LETOFF FOR LOOMS

Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application August 31, 1945, Serial No. 613,910
6 Claims. (Cl. 139—110)

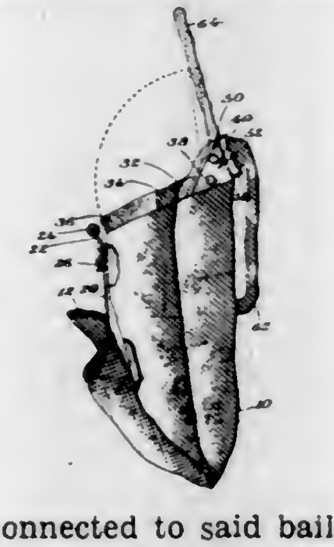


5. In a loom having a rotatable warp beam supplying warp which passes over a whip roll and causes the latter to move forwardly from a rearward position when tension in the warp increases, driving gearing for the beam, a brake for said driving gearing, a part rotating during loom operation, a belt between said part and gearing, and connections between the whip roll, brake and belt effective when the warp tension is relatively low and the whip roll is in rearward position to apply said brake to prevent turning of the gearing and cause said belt to be ineffective to transmit power from said part to said gearing and operative when the whip roll moves forwardly due to an increase in warp tension to release said brake and cause said belt to transmit power from said part to said gearing for the purpose of turning the beam in a direction to reduce warp tension.

2,421,962
FRUIT PICKING DEVICE

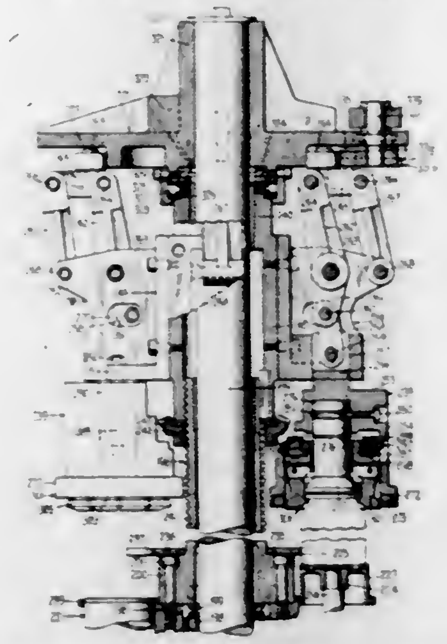
Sherman S. Pearl, Chelan, Wash.
Application October 30, 1945, Serial No. 625,545
1 Claim. (Cl. 150—2)

A fruit picker's sack of the character described, comprising a body portion which is open at both ends, means for closing the lower end of said body portion, a hinge secured to the upper open end of said body portion, an annular frame pivotally mounted in said hinge, a bail connected to said hinge, a bib connected to said bail, a loop connected to said bail outwardly of said hinge to retain said bail in said hinge, and means connected to said loop for supporting said body portion in carrying position.



2,421,963
ANVIL AND PIVOTED JAW OPERATED CAP SEALING MACHINE

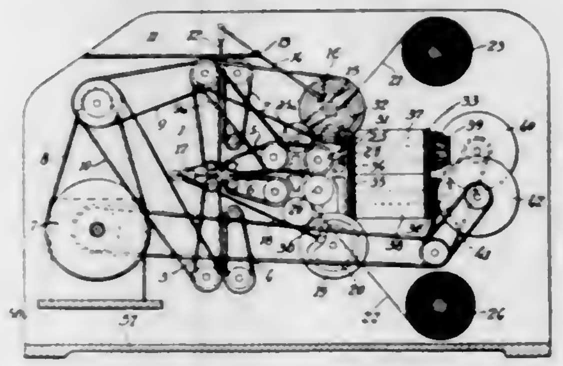
Abraham Podel, Connellsville, Pa., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application June 6, 1942, Serial No. 446,025
1 Claim. (Cl. 226—80)



In closure sealing apparatus, a sealing chuck unit, said sealing chuck unit comprising a cylindrical housing having a closed upper end and an open lower end, an upstanding boss on the closed upper end by means of which the housing may be moved vertically, a fixed bracket in which said boss is mounted for vertical movement, a sealing ring removably mounted at the lower edge of said housing, an anvil member supported centrally within said housing, said anvil member having a closure-engaging disk-like lower end which has a centrally-disposed socket for receiving the closure, said anvil member also including an upstanding cylindrical stem, a centrally disposed socket formed in the upper end of said housing, a threaded collar disposed in said socket, means for maintaining said collar in said socket, said stem having a threaded upper end which fits into the threaded interior of said collar so as to provide vertical adjustment of said anvil relative to said housing, means for normally maintaining said stem in selected adjusted angular positions to which it has been rotated relative to said collar, said means comprising a pair of diametrically opposed vertical pins carried by said stem and adapted to engage a series of pairs of sockets formed in the lower edge of said collar, one of said pins being urged upwardly constantly by a spring into contact with the lower edge of said collar and the other being manually adjustable vertically into and out of engagement with said collar, an outer supporting ring disposed within said housing at a point spaced above the lower edge thereof, means for suspending said ring in fixed vertical position to permit relative vertical movement of the housing, said means comprising members extending through the housing and supported by said bracket, an inner sealing jaw carrying ring disposed within said outer ring, said outer ring being provided with inwardly projecting lugs and said inner ring being provided with outwardly projecting lugs which are normally superimposed but which can be brought out of alignment by rotation of said inner ring to permit removal of said ring, a member extending through said outer ring into engagement with said inner ring to normally prevent relative rotation, said inner ring having a series of circumferentially spaced pairs of depending lugs, a sealing jaw having its upper end pivoted between each of said pairs of lugs by means of a transverse pin for movement in a vertical plane, said jaws having outwardly extending portions on their lower ends adapted to be engaged by said sealing ring, springs carried by said inner ring engaging inwardly projecting portions formed on the upper ends of said jaws, and a closure engaging plunger disposed centrally within the anvil and being normally projected downwardly from the anvil by means of a spring associated therewith.

2,421,964
DEVICE FOR ENVELOPING AND SEALING FLAT ARTICLES, FOR EXAMPLE LETTERS

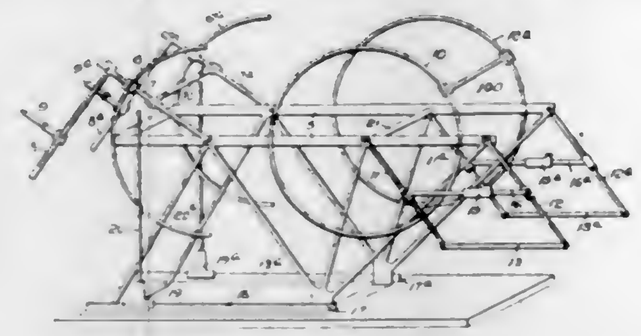
August Reiner, Dresden, and Wilhelm Rehm, Berlin, Germany; vested in the Attorney General of the United States
Application March 4, 1940, Serial No. 322,198
In Germany March 9, 1939
5 Claims. (Cl. 93—3)



1. A device for enveloping and sealing flat articles, for example letters, comprising means for feeding the enveloping paper, two pairs of toothed wheels adapted to crimp seal two sides of the envelope, each two toothed wheels being connected by one roller, means for detaching the enveloping paper leaving said wheels, two further pairs of toothed wheels adapted to crimp seal the remaining two sides of the envelope, each two of these latter toothed wheels being connected by one roller and adapted to deliver from the device the ready enveloped and sealed letters in conjunction with the toothed wheels.

2,421,965
NAVIGATIONAL COMPUTING MEANS

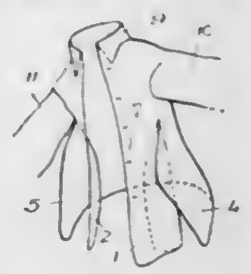
Lino L. Sa Pereira, Washington, D. C.
Application April 22, 1944, Serial No. 532,289
9 Claims. (Cl. 33—1)



1. A computing instrument comprising, in combination, a frame, latitude circle means having a fixed center thereon, longitude circle means also centered at a fixed point on the frame, a light-receiving view strip on the frame perpendicular to the line of centers of said circle means and having capacity for adjustment along a line paralleling said line of centers, a light-beam projector movably supported to project its beam always parallel to said line of centers and perpendicularly onto the view strip, a longitude alidade associated with the light-beam projector and adapted to indicate angles on the longitude circle means, a latitude alidade pivoted concentrically with the latitude circle means to mark latitude angles thereon, and a sighting device on the latitude alidade for establishing a line of sight paralleling the alidade and adapted to intersect the point of light-beam projection on the view strip, said sighting device being adjustable in self-parallelism along a line perpendicular to its alidade.

2,421,966
COMBINATION SHIRT AND COAT

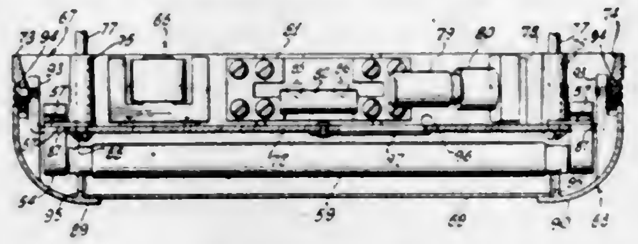
Edward J. Schafer, Chicago, Ill.
Application November 8, 1944, Serial No. 562,428
3 Claims. (Cl. 2—95)



1. A combination shirt and coat garment, comprising a pair of full length front shirt sections, means for detachably securing said shirt sections together at the front from the collar to below the waist line, a rear coat section, the longitudinal rear side edge of each of the shirt sections being respectively secured by a seam to an adjacent portion of the coat section from the bottom of the arm hole to approximately the waist line and loose with relation thereto from the waist line to the bottom, whereby the bottom portions of the shirt sections may be positioned inside of the trousers and the lower portion of the coat section positioned outside of the trousers, the front of the garment when worn having the appearance of a shirt from the collar to the waist line and the back of the garment having the appearance of a coat, said coat section having a pair of extensions extending forwardly over a portion of the shirt sections, said extensions tapering upwardly and rearwardly to a point below the arm pit.

2,421,967
FLUORESCENT LIGHTING FIXTURE

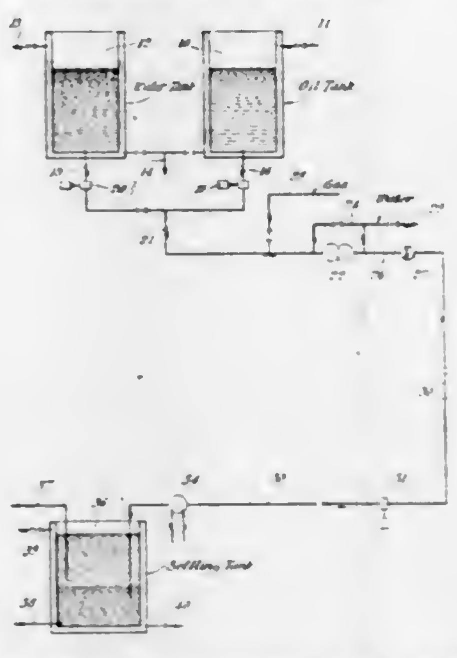
Lindsley Schepmoes, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Original application June 24, 1942, Serial No. 448,313. Divided and this application June 2, 1944, Serial No. 538,400
3 Claims. (Cl. 240—78)



1. A fluorescent lighting fixture, in combination, a trough-shaped housing having a front wall adapted to support the fluorescent lighting auxiliaries, a pair of sockets secured to said housing wall and extending therefrom, a fluorescent lamp mounted in said sockets, a canopy secured to said housing and extending outwardly therefrom over said sockets and the ends of said lamp, said canopy including attaching posts at each end thereof adapted when the canopy is installed on the housing to extend through holes formed in the housing, means for securing said posts to said housing to maintain said canopy in operative position thereon, and a light controlling member associated with said canopy and forming therewith an enclosure for said socket and said lamp and the front wall of said housing.

2,421,968
METHOD OF CONVEYING FLUIDS

August Henry Schutte, Hastings on Hudson, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application August 30, 1941, Serial No. 409,027
3 Claims. (Cl. 196—17)

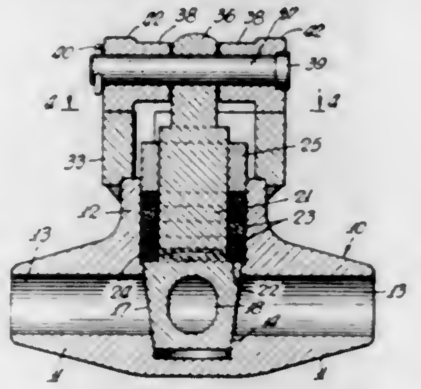


1. The method of rendering a high melting point, normally solid wax containing hydrocarbon material transportable at a temperature below its melting point and transporting such hydrocarbon material to a distant point through a supply pipe line for such material of the order of miles in length, which comprises liquefying such material, emulsifying the liquefied material with water and air, cooling the resulting emulsion to a pumping temperature below the melting point of such material to solidify at least a por-

tion of such hydrocarbon material and thereby stabilize the emulsion, pumping the so-cooled and stabilized emulsion through the pipe line to the distant point, and thereafter separating the water from the hydrocarbon material.

2,421,969
PLUG VALVE

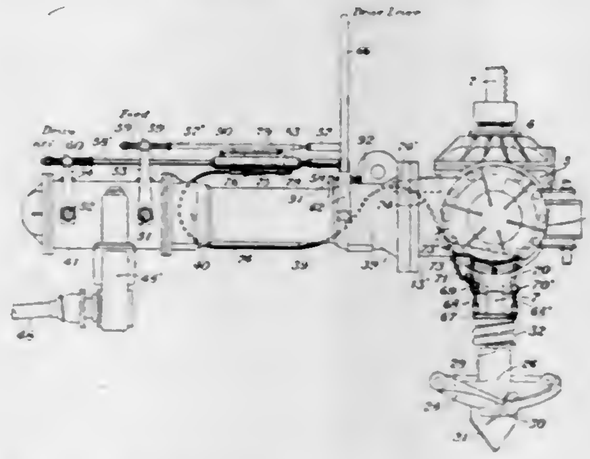
Franklin E. Shelly, Louisville, Ky., assignor to Tube Turns, Louisville, Ky., a corporation of Kentucky
Application April 23, 1943, Serial No. 484,160
2 Claims. (Cl. 251—97)



1. A valve comprising a casing having a tapering valve seat and presenting a cam table having spaced sections, a rotary tapered valve plug in said seat, a stem rigid with said plug and defining therewith an axially facing shoulder, a packing around said stem, a gland encircling said stem for pressing said packing against said shoulder, said gland having a pair of opposed lugs extending outwardly between the sections of said cam table, means engaging said lugs for adjusting said gland, and a lever pivotally connected to said stem beyond said gland, and having a pair of spaced cams rigid therewith and engaging with and movable along said cam table as said valve plug is rotated.

2,421,970
EARTH BORING MACHINE

Temple C. Smith, Westfield, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application July 11, 1944, Serial No. 544,344
4 Claims. (Cl. 255—22)



1. In an earth boring machine, an auger, a boring head having a casing, a drive gear in said casing operating when rotated to rotate said auger, a feed gear in said casing rotatable in the same direction as said drive gear and adapted to feed said auger up or down depending upon its speed relative to said drive gear, whereby said auger may be elevated or lowered, independent manually operable levers and actuating links for each of said gears to cause either or both of them to rotate at desired speeds, one of said links having means to in effect adjust its length so that it may affect the action of the corresponding gear independently of its manual lever, and means automatically operable when said auger is elevated to a certain height to produce a change in the effective length of said adjustable link in a direction to defeat manual control by the operator tending toward further elevation of said auger and to cause a relative action of said gears, such as to reverse the direction of travel of said auger before it bumps the bottom of said boring head casing.

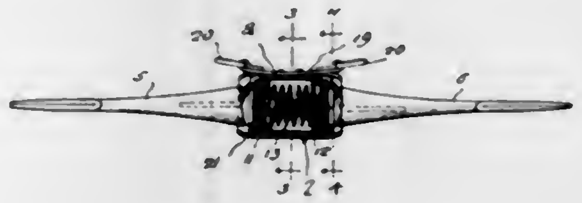
2,421,971
HYDROLYZED VINYL ESTER INTERPOLYMERS

Carleton Angelo Sperati, North Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 6, 1944, Serial No. 562,271
6 Claims. (Cl. 260—86)

1. A hydrolyzed interpolymer of a terminally ethylenically unsaturated monoolefinic hydrocarbon containing from 3 to 5 carbon atoms with a vinyl ester of a mono-carboxylic acid having the general formula RCOOH wherein R is of the group consisting of hydrogen atoms and hydrocarbon radicals, said acid being free from unsaturated linkages between acyclic carbon atoms and any carbon atom alpha to the carbon atom in the carboxyl group of said acid being attached to at least one but not more than three carbon atoms, said interpolymer prior to hydrolysis having contained from 2% to 25% by weight of said monoolefinic hydrocarbon.

2,421,972
BOW TIE

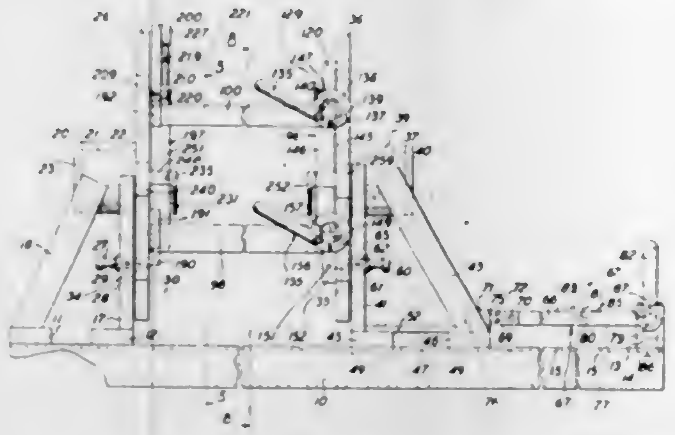
Alfred F. Taborski, Buffalo, N. Y.
Application August 30, 1944, Serial No. 551,857
2 Claims. (Cl. 2—151)



1. A bow tie as an article of manufacture and including a tubular simulated knot structure and a pair of separable and replaceable wing members, a rigid member carried at the inner end of each of said wing members, said rigid members each having a transverse disc portion at its outer end, the tube of said knot structure having incomplete annular flanges at its opposite ends, each flange merging cooperatively with a lateral slotted end portion of the tube, the respective slots being each of a width corresponding to the diameter of the disc portion of the rigid member at the end of the correlated wing members so as to enable frictional gripping engagement of the respective disc members with the flange portions of the knot structure tube, and opposed spring-urged members carried within the tube of the knot structure for clamping said disc portions of the wing members against the said flanges of the tube of said knot structure.

2,421,973
ARTICLE ASSEMBLING FIXTURE

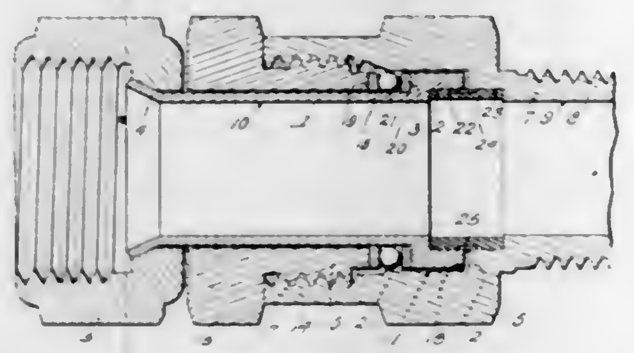
Charles H. Trimble, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 19, 1943, Serial No. 506,854
11 Claims. (Cl. 113—99)



1. An article holding fixture for assembling frame members, which comprises a base, a pair of vertical supports one of which is slidably mounted on the base, a toggle-joint linkage for moving the slidable support and locking it in a predetermined position, a turntable carried by each of the supports, clamping means for securing frame members to the turntables, means for adjusting the position of the toggle-joint linkage to permit the fixture to accommodate frame members of varying sizes, and means for affixing different types of clamping means to the turntables for different frame members.

2,421,974
SWIVEL FITTING

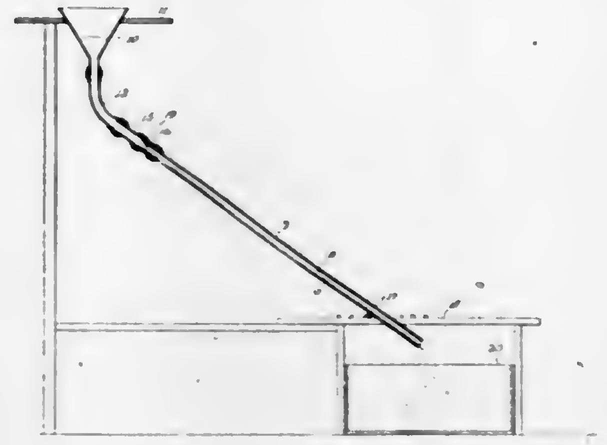
Lorain N. Vandervoort, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application September 22, 1944, Serial No. 555,317
2 Claims. (Cl. 285—97.3)



1. A swivel fitting comprising inner and outer sleeves having a common bore therethrough for the passing of fluid, said outer sleeve having a counter-bore providing a recess terminating in a shoulder and adapted to receive the end portion of the inner sleeve with the end thereof in close abutting relation to said shoulder, means for rotatively joining said sleeves, the end of said inner sleeve and the outer sleeve adjacent said shoulder being counter-bored to provide an annular recess, a sleeve of packing material disposed in said last-named recess and sealing the joint between the fitting sleeves, a metal sleeve embedded in the outer face of said packing sleeve and disposed so as to extend across the joint between the fitting sleeves for preventing the packing material from being forced into the joint by the pressure of the passing fluid on the packing sleeve.

2,421,975
MANUFACTURE OF FLUORESCENT TUBING

Roscoe D. Williams, Louisville, Ky.
Application March 19, 1943, Serial No. 479,741
4 Claims. (Cl. 117—19)

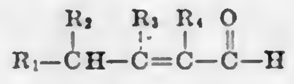


1. That improvement in making fluorescent lighting tubing which comprises: delivering into tubing, which is uniformly coated on its inner periphery with fluorescent material of a predetermined thickness, abrasive material so it will flow over an arcuate portion of the periphery of and longitudinally through the tubing until the coating in said arcuate zone is reduced in thickness, for increased light projection therethrough of the light transformed and reflected by the coating of predetermined thickness.

2,421,976
PROCESS FOR REACTING A KETENE WITH AN ALPHA, BETA UNSATURATED ALDEHYDE

Albert H. Agett, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 23, 1945, Serial No. 630,547
10 Claims. (Cl. 260—494)

1. A process for preparing a 1-acyloxydiene-1,3 comprising condensing a ketene with an unsaturated aldehyde of the following general formula:



$$R_1-\overset{\overset{R_2}{|}}{C}H-\overset{\overset{R_3}{|}}{C}=\overset{\overset{R_4}{|}}{C}-\overset{\overset{O}{\|}}{C}-H$$

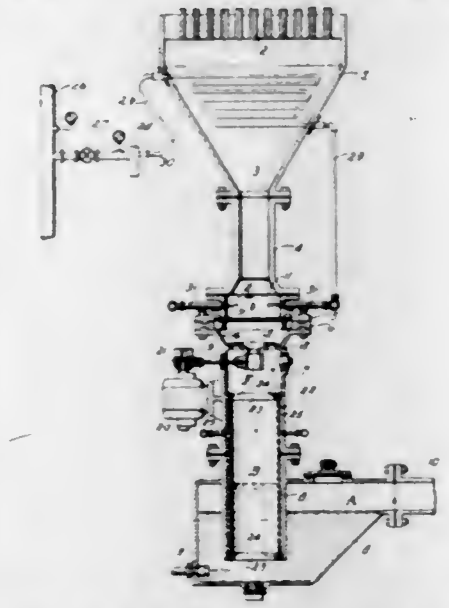
wherein R_1, R_2, R_3 and R_4 each represents a member selected from the group consisting of hydrogen and an alkyl group, in the presence of an acid catalyst.

2,421,977
APPARATUS FOR HANDLING DUST

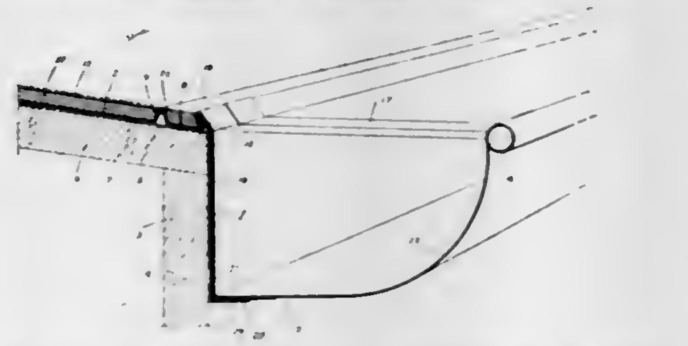
Frank B. Allen, Lower Marion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 5, 1943, Serial No. 481,815
2 Claims. (Cl. 214—17)

1. Apparatus for handling dust comprising a dust-collecting hopper having a discharge opening in its lower portion, a conduit extending downwardly from said hopper opening and having a flexible wall portion, means for discharging air into the dust in the hopper to make a flowable mixture of dust and air, means for controllably

feeding said mixture into a lower portion of the conduit, and fluid means for flexing said flexible wall portion to prevent the dust from clogging said conduit.



2,421,978
ROOF GUTTER ASSEMBLY
Hervey N. Andrews, San Francisco, Calif.
Application February 18, 1946, Serial No. 648,436
14 Claims. (Cl. 108—28)

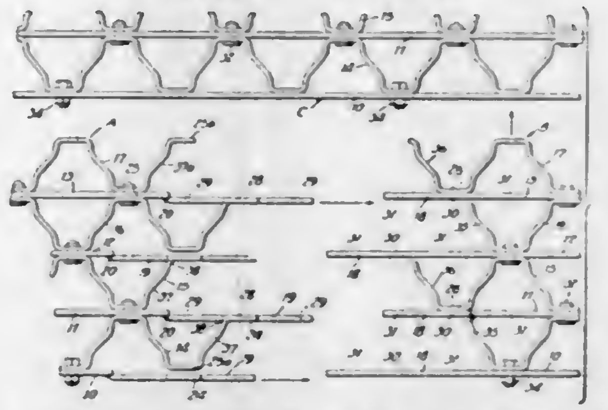


1. A roof gutter assembly comprising a longitudinal strip adapted to be secured on a roof along its edge, said strip including an upwardly projecting longitudinal lip disposed closely adjacent said edge, a roof gutter, and a longitudinal hook formed on the upper rear edge of the gutter adapted to engage over the lip in gutter-supporting relation.

2,421,979
PRODUCTION OF FLUORESCENT COATINGS
Charles H. Bachman, Scotia, and Vincent J. Schaefer, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
No Drawing. Application December 31, 1943, Serial No. 516,510
4 Claims. (Cl. 117—33.5)

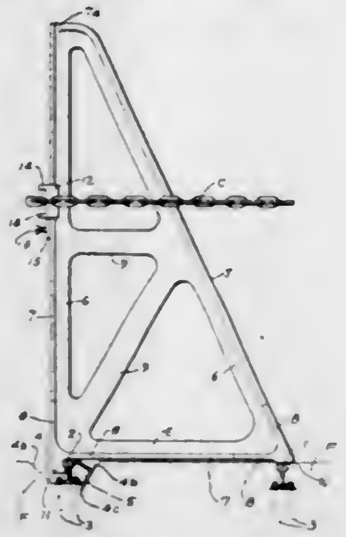
1. The method of applying fluorescent material to a support which consists in causing particles of desired fluorescent material in a finely divided state to settle gravitationally as a coating upon a chosen support from a suspension of such particles in a liquid comprising mainly a component of materially higher volatilty and lower viscosity than water and a small amount not exceeding a few per cent of a material capable of retarding evaporation of residues of the suspending liquid at the close of a hereinafter specified evaporation step and removing said liquid solely by evaporation from the deposited coating whereby the homogeneity of said coating is preserved.

2,421,980
CONTINUOUS GRATING STRUCTURE
Richard J. Barry, New York, N. Y., and Clarence H. Lewis, Darien, Conn., assignors to Walter Edward Irving, Glenbrook, Conn.
Application March 14, 1944, Serial No. 526,414
7 Claims. (Cl. 189—82)



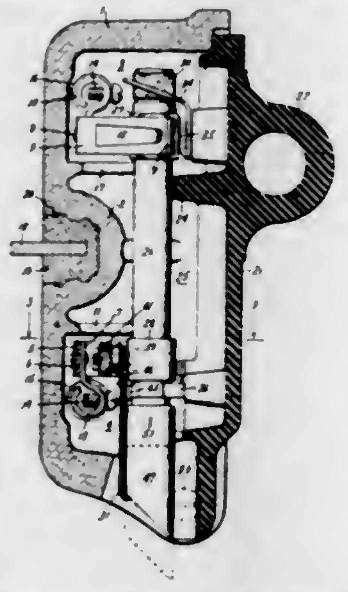
1. A continuous traffic-bearing grating structure comprising in combination, a pair of like rectangular grating panels arranged in horizontal end to end relation, each of said grating panels comprising spaced straight metal bars of uniform thickness with intervening crimped metal strips having their upper edge surfaces disposed on the same plane as the upper edge surfaces of the bars, the adjacent ends of the bars of the panels being in abutting engagement and longitudinal alinement, the abutting ends of the bars of one panel each having a straight laterally offset splicing tongue integral therewith and parallel thereto, the distance of the offset being equal to the width of the bar, the upper edge of the tongue being cut away inwardly from the offset and inwardly from its free end to provide spaced-apart portions disposed below the plane of its related bar, said tongues overlapping and engaging the respective adjacent ends of the other panel, fastening means for securing the tongues of the bars of one panel to the adjacent ends of the bars of the other panel, and means for securing the adjacent ends of the crimped strips to the respective tongues at the inner ends of the cut away portions in a manner to maintain the continuity thereof.

2,421,981
ANCHORAGE FOR FRAME STRAIGHTENING APPARATUS
Ralph W. Becker, Denver, Colo., assignor to Marcellus S. Merrill, Denver, Colo.
Application July 18, 1944, Serial No. 545,512
4 Claims. (Cl. 153—32)



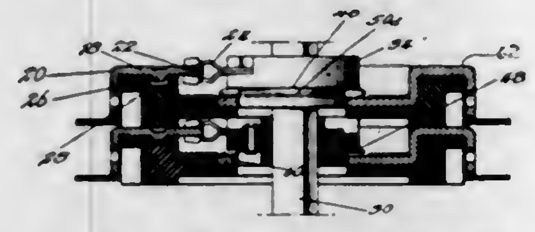
1. Anchorage for automotive frame straightening apparatus comprising a pair of parallel rails secured in the floor surrounding, and parallel with the adjacent side of, such apparatus, a channel in the floor for the rail more distant from the apparatus, said rail being secured to the bottom of said channel, the wall of the channel nearer the apparatus being inclined, an angle iron brace having the edges of its flanges respectively contacting the top and bottom of said rail and one of its walls seated upon said inclined wall and an anchor having a detachable sliding engagement with the far side of said more distant rail and slidably seated on the top of the nearer rail.

2,421,982
ELECTRIC CIRCUIT INTERRUPTER
Ralph S. Bennett, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 9, 1945, Serial No. 581,741
8 Claims. (Cl. 200—114)



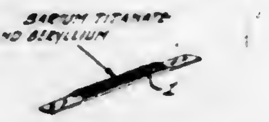
1. In an electric circuit interrupter, spaced line terminals, a fuseholder provided with contacts arranged to engage said terminals, a fuse link in said fuseholder electrically interconnecting said contacts and having a flexible lead portion extending out of said fuseholder to be connected to one of said contacts, means for indicating operation of said fuse link comprising an insulating sleeve slidable on the lower end of said fuseholder and adapted to be held in the non-indicating position by said flexible lead portion, and spring means enclosed within said indicator sleeve for biasing said indicator to its indicating position.

2,421,983
ROTARY SELECTOR SWITCH
Robert H. Bentley, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application July 7, 1944, Serial No. 543,810
7 Claims. (Cl. 200—6)



2. In a rotary switch, an insulating body, a collector ring mounted on said body, a plurality of stationary contacts arranged concentric with the collector ring axis, a rotary contact member comprising an insulating disc, a contact blade on one side of said disc, a resilient non-planar wiping contact on the opposite side of said disc, means connecting said wiping contact and blade and securing them to said disc, and means to press said rotary member toward said collector ring to maintain contact pressure between said wiping contact and collector ring.

2,421,984
MATERIAL FOR GETTERING ELECTRON DISCHARGE DEVICES
Edwin N. Bobrow, East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 25, 1944, Serial No. 532,650
4 Claims. (Cl. 252—181.7)

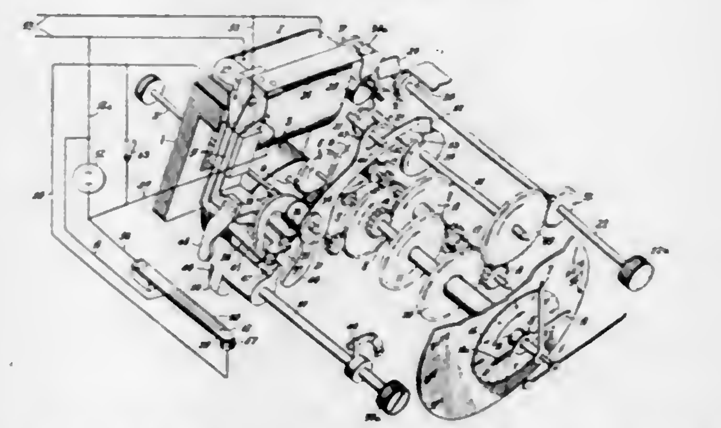


1. A getter material consisting of barium titanate mixed with powdered beryllium in a ratio of from about 1 to about 2 moles of beryllium, to 1 mole of barium titanate.

2,421,985
PREPARATION OF CLARIFIED SUGAR SOLUTIONS FOR FERMENTATION, ETC.
Robert M. Boehm, Laurel, Miss., Horace E. Hall, Lyle, Tenn., and Joseph A. MacDonald, Rutherford, N. J., assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware
No Drawing. Application March 31, 1944, Serial No. 529,035
7 Claims. (Cl. 195—84)

1. The process of clarifying wood liquors for fermentation, which comprises subjecting the liquor to acid hydrolysis, washing the liquor with a substantially water-immiscible organic solvent containing a compound chosen from the group consisting of butyl alcohol, furfural and isopropyl ether which removes soluble components, heating the liquor to remove excess organic solvent, introducing calcium ions and sulfide ions into the liquor in sufficient quantity to raise the pH to about 7 which precipitates astringent materials toxic to fermentation, and separating the precipitate from the clarified liquor.

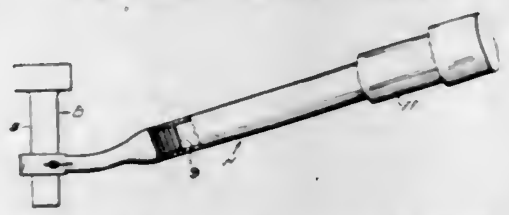
2,421,986
ALARM CLOCK AND SWITCH
David L. Bohman, Ashland, Mass., assignor to Telechron Inc., a corporation of Maine
Application March 7, 1946, Serial No. 652,727
9 Claims. (Cl. 58—19)



1. An alarm clock combination comprising a clock, audible alarm means, an electric alarm

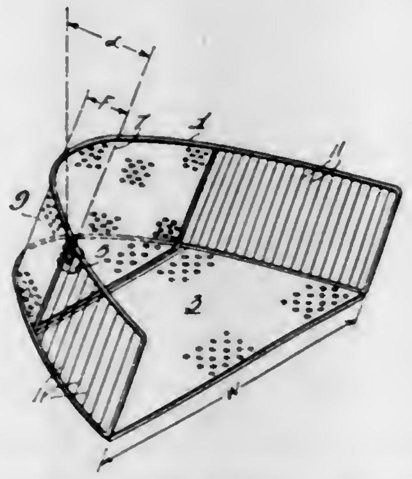
circuit including a switch, a pair of automatic release mechanisms, both operated by said clock one for controlling operation of said audible alarm and the other for closing said switch, common means for adjusting said release mechanisms for the purpose of determining the time when the audible alarm will sound and the time the switch will be closed automatically, means for at will preventing the sounding of the audible alarm when it would otherwise sound, and means for at will preventing the closing of the switch when it would otherwise close in response to automatic clock operation, said two preventing means being independent of each other such that either or both the audible alarm and the switch may thus be operated automatically or prevented from operation by the clock at the times set for such operations.

2,421,987
RIVET BUCKING TOOL
Charles C. Braden, Tucson, Ariz.
Application January 18, 1944, Serial No. 518,755
1 Claim. (Cl. 78—53.5)



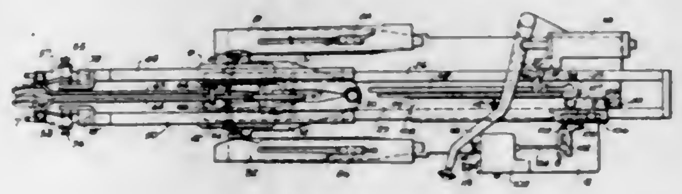
A rivet bucking tool comprising a bucking head having an elongated squared shank, and a holder for said bucking head including a box-type socket member having a star-shaped socket and provided at one side with an upwardly and laterally curved relatively short shank formed with a reduced threaded outer end, a handle including a tubular section having the outer end of said shank removably threaded in one end thereof, a coupling sleeve removably threaded on the outer end of said tubular section, and a solid plug weight having a reduced threaded end screwed into the outer end of said coupling sleeve, said shank of the bucking head being longitudinally adjustable through said socket, and a set screw carried by said socket for securing the shank of the bucking head in adjusted positions.

2,421,988
DIRECTIVE ANTENNA
George H. Brown and Oakley M. Woodward, Jr., Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application January 22, 1944, Serial No. 519,266
2 Claims. (Cl. 250—11)



1. A directive antenna system including a reflector of cylindrical parabolic shape, with a focal length substantially equal to one fifth wavelength at the lower limit of the band of frequencies over which the system is to operate and a mouth width of approximately two wavelengths at the lowest frequency at which the system is to operate, and a broad-band radiator element positioned substantially in the focal line of said reflector, said radiator element comprising a cylindrical conductive member of length and diameter approximately equal to each other and approximately equal to one eighth wavelength at the lowest frequency at which the system is to operate.

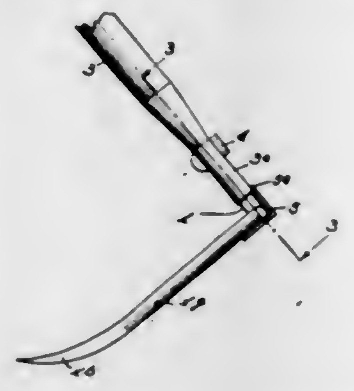
2,421,989
MACHINE FOR HARDENING GEARS
George H. Bryan, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application February 19, 1944, Serial No. 523,081
2 Claims. (Cl. 266—23)



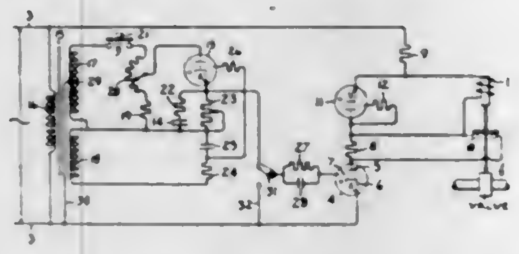
2. In apparatus for hardening gears, a base, a ram reciprocable on the base, a pair of arms which is pivotally mounted at one of their ends on said ram for oscillation about a common axis that extends in a direction transverse to the direction of movement of the ram, a heating element carried by each of said arms at the free end of said arm, a pair of cam rails fixedly secured to the base and extending in the general direction of movement of the ram, a follower carried by each of said arms intermediate its ends and engaging one of the cam rails, a spring interposed between the ram and each arm at a point between the follower and the arm's pivot and operative to hold each follower against the corresponding cam rail whereby on movement of the ram, the arms and heating elements carried thereby are oscillated, a supporting member having an arcuate guide surface secured to each arm at a point between the spring and the free end of the arm and mounted to ride on the ram as the arm swings, an arcuate guide way on the ram with which the supporting members engage, the arcuate surfaces of the supporting members and guide way being curved about the pivot point of the arms as a center.

2,421,990
METAL HOOK
Moses T. Bumgarner, San Diego, Calif.
Application March 17, 1945, Serial No. 583,332
4 Claims. (Cl. 294—26)

1. In a device of the character described, in combination, a tubular handle, a double prong member formed from bar stock by bending the same through three hundred and sixty degrees at the center thereof to form a shank portion rigidly securable in an end of said handle, oppositely bending the two ends of said bar stock through approximately ninety degrees to produce laterally extending portions and bending the said laterally extending portions through ninety degrees in a plane normal to a plane through said shank portion and extending portions to provide depending prongs, the whole device being symmetrical about a line through said handle and shank portion and an angle bar secured to said prongs adapted to reinforce said prongs and to adapt the device for use as a pushing tool.



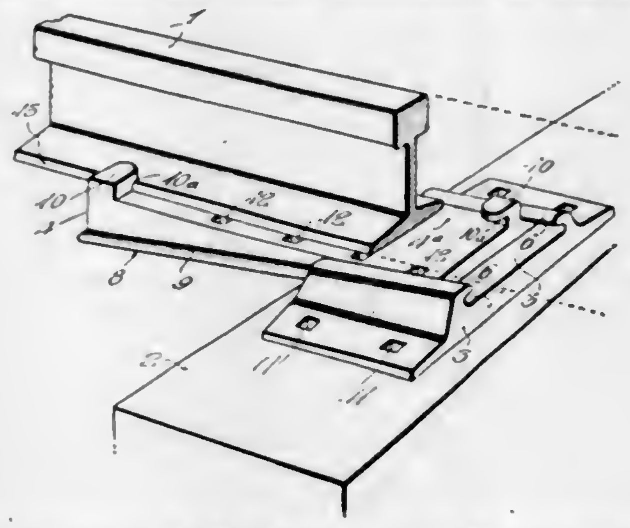
2,421,991
ELECTRIC CONTROL CIRCUITS
Cecil A. Carrière, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 26, 1944, Serial No. 542,166
6 Claims. (Cl. 250—27)



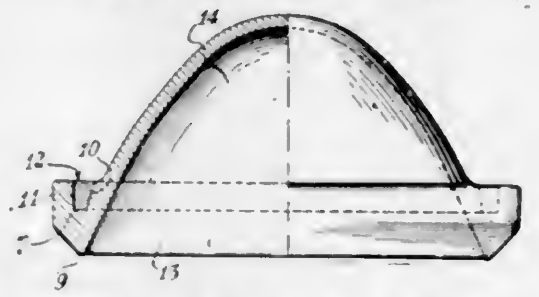
1. An alternating current supply circuit, an electric valve having an anode, a cathode and a control member, a load circuit, means connecting said load circuit in series with the anode-cathode circuit of said electric valve and for energization from said supply circuit, an excitation circuit for controlling the energization of said control member including means for impressing a voltage on said control member tending to maintain said valve nonconducting, means for impressing a transient voltage on said control member to render said valve conducting for a predetermined interval and including a capacitor and a resistor connected in parallel therewith for establishing a discharge circuit for said capacitor, means for charging said capacitor including a second electric valve having a control member, and means for connecting said capacitor in the cathode-to-control member circuit of said second electric valve to prevent conduction by said second electric valve during the timing interval and after initial charge of said capacitor.

2,421,992
RAILWAY RAIL LEVELING AND ANCHORING DEVICE
Charles E. Chance, Washington, D. C.
Application March 22, 1946, Serial No. 656,262
6 Claims. (Cl. 238—206)

1. A railway tie plate and tie resetting device comprising a chair member mounted upon and secured to the tie, a seat inclined with respect to the horizontal and also with respect to the direction of rail length formed on the upper face of said chair member, a wedge member, means for detachably connecting said wedge member to the base flange of the rail in such a manner that it may be driven along the length of the rail, the lower face of said wedge member being slidably mounted upon said inclined seat of the chair member and means extending through said chair member and wedge member for connecting the same together.

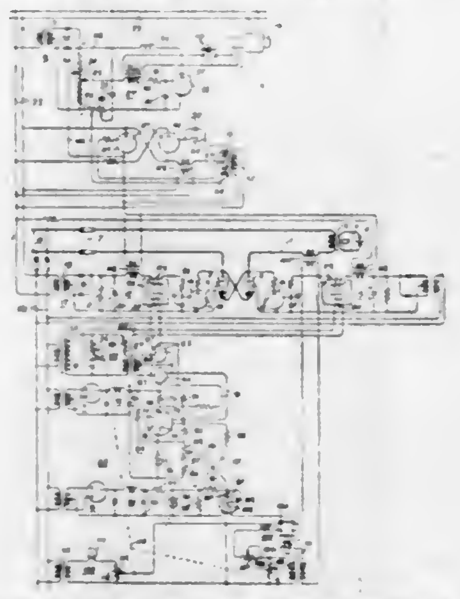


2,421,993
SHOE FOR PILES
Walter H. Cobi, New York, N. Y., assignor of one-half to John J. Dougherty, St. Albans, N. Y.
Application October 3, 1945, Serial No. 620,105
6 Claims. (Cl. 61—78)



1. A metal shoe for a pile tube comprising a central arched portion having a recess below and having an exterior annular shoulder formed above and around the rim for receiving the annular end of the tube and having a lower cutting edge surrounding said recess for drawing in and compressing soil within said recess.

2,421,994
ELECTRIC VALVE SYSTEM
Benjamin Cooper, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 23, 1943, Serial No. 480,150
30 Claims. (Cl. 250—27)

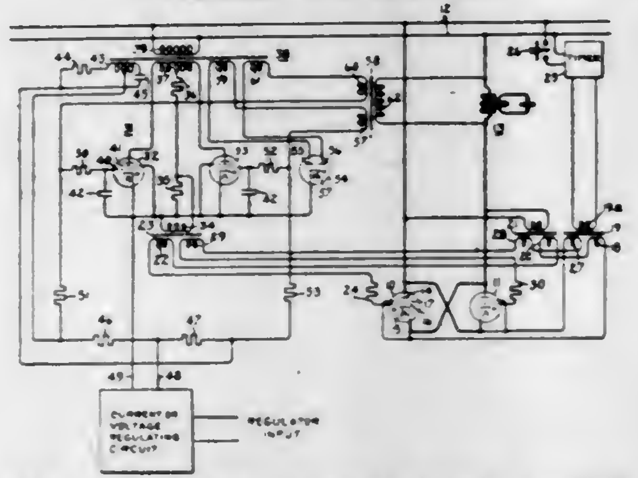


1. In combination, a supply circuit, a load circuit, electric translating apparatus connected

between said circuits, control means for said translating apparatus including timing means for effecting intermittent energization of said load circuit, an electric discharge device having an anode and a cathode of the filamentary type and an amplifier connected between said electric discharge device and said translating apparatus, means for energizing said cathode in response to a predetermined electrical condition of said load circuit during periods of energization thereof, and means for maintaining the energization of said filament at a predetermined level during the period of time intermediate the periods of energization.

2,421,995
ELECTRIC CONTROL CIRCUIT

Benjamin Cooper, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application November 1, 1943, Serial No. 508,611
7 Claims. (Cl. 250—27)

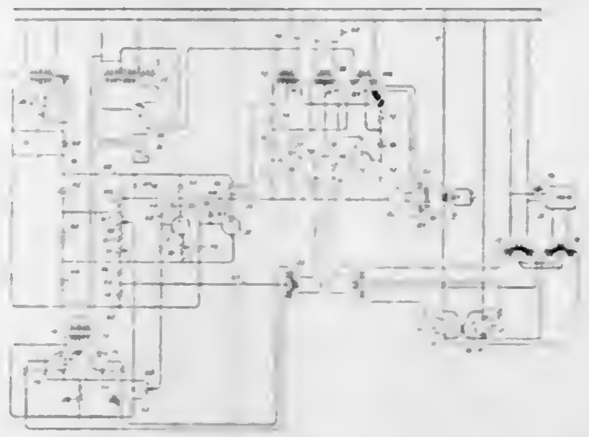


1. An alternating current supply circuit, an inductive load circuit, electric translating apparatus interconnecting said circuits including a pair of electric valve means reversely connected in parallel for transmitting alternating current to said load circuit, said electric valve means each being provided with an anode, a cathode and a control member for controlling the conductivity thereof, means for energizing said control member of each of said electric valve means with a periodic voltage of peaked wave form to determine the instant in the voltage wave of said supply circuit that said electric valve means are rendered conductive, and means for insuring the intended application of said periodic voltage of peaked wave form to said control member of one of said valve means during the half cycle of voltage of said supply circuit when conduction of the other of said electric valve means ends and at an instant not earlier in said half cycle of voltage than the termination of conduction of said other of said electric valve means, said means operating in response to conduction of said other of said electric valve means to delay the occurrence of said voltage of peaked wave form when operation of said last mentioned means would otherwise supply said voltage of peaked wave form at a time prior to the power factor angle of said load circuit.

2,421,996
ELECTRIC CONTROL CIRCUITS

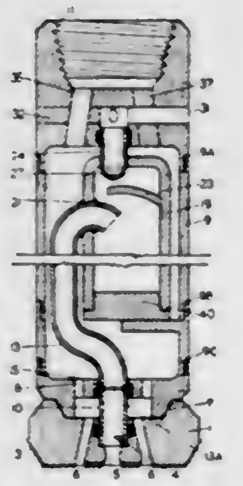
Benjamin Cooper, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application November 7, 1944, Serial No. 562,301
5 Claims. (Cl. 171—119)

1. In combination, an alternating current supply circuit, a load circuit, means for transmitting timed applications of alternating current to said load circuit including electric valve means having a control member, a resistor, a rectifier including an electric valve interconnecting said supply circuit and said resistor for energizing said resistor continuously, said electric valve having a control member, a phase shifting circuit for energizing the control member of said electric valve means and the control member of said electric valve to control the instant of initiation of conduction of said electric valve means and said electric valve, means responsive to the average voltage of said resistor for controlling said phase shifting circuit to maintain the average voltage across said resistor substantially constant and to render the root-mean-square current supplied to said load circuit substantially independent of supply circuit voltage fluctuations.



2,421,997
CORE BARREL

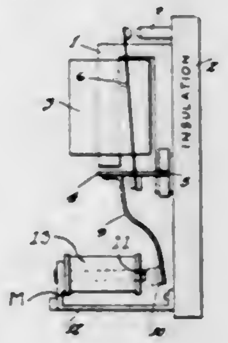
Wilfred S. Crake, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 21, 1945, Serial No. 600,781
4 Claims. (Cl. 255—1.4)



2. A coring device adapted to be connected to the lower end of a drill string, said device comprising a core bit having an axial core passage, core breaker means for breaking cores entering said passage, a tubular body connected between said drill string and said bit, an axially elongated core chamber within said tubular body, said chamber having a horizontal cross-section area substantially greater than that of the core passage through the bit, a core tube in communication between said core passage and said chamber, said core tube having a lower end co-axial with said passage and in register therewith, and an upper end transverse to said lower end opening to the upper portion of said chamber, fluid passage means through said bit and said tubular member arranged exteriorly of said core tube and said chamber to deliver a drilling fluid from said drill string to said bit, and conduit means in communication between the upper portion of said chamber and the outside of the coring device.

2,421,998
ELECTRICAL CIRCUIT CONTROLLING DEVICE

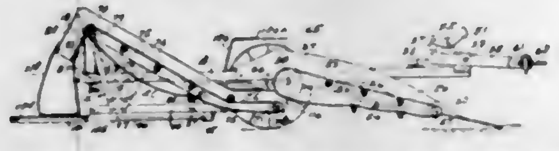
Hugo F. Cypser, New York, N. Y., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts
Application May 16, 1941, Serial No. 393,801
3 Claims. (Cl. 200—98)



1. An electrical circuit controlling device comprising in combination a magnetic core carrying a winding, a stationary contact, a main armature pivotally mounted on said core and carrying a contact movable into engagement with said stationary contact in response to attraction of said armature by said winding, an extension of flexible material carried by said armature and terminating in a secondary armature of magnetic material, a permanent magnet providing poles opposite the ends of said secondary armature, with said secondary armature being held by said magnet with said extension in flexed condition when said main armature moves to close said contacts in response to energization of said winding and means for neutralizing said permanent magnet to release said secondary armature through the retractive force of said flexed armature extension.

2,421,999
POTATO DIGGER AND PICKER

Eben D. Dahlman, Grandy, Minn.
Application February 12, 1944, Serial No. 522,100
6 Claims. (Cl. 55—51)



1. A combined potato digger and picker constructed and arranged to be drawn and driven from a power tractor having in combination, a frame, a digger supported from said frame comprising a digger blade, an open work elevating mechanism disposed adjacent the rear end of said blade for receiving potatoes from said blade and sifting and elevating the same, means for operating said mechanism from said tractor, a picker supported on said frame comprising an elevating means longitudinally alined with and moving in the same general direction as said elevating mechanism having a substantially horizontal receiving portion disposed below the rear end of said elevating mechanism to receive said potatoes therefrom, means for driving said elevating means from said first mentioned means, said frame comprising spaced substantially parallel members extending respectively longitudinally at each side of said digger and picker, a single pair of wheels supporting said frame substantially midway between the ends thereof, a platform carried by said frame at one end of said elevating means and disposed at the side of said elevating means for supporting a picking operator and a platform at the rear end of said elevating means for supporting a bagging operator.

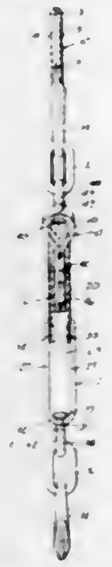
2,422,000
METHOD OF PREPARING SULFOALKYL ETHERS OF CELLULOSE

Joseph B. Dickey, Rochester, N. Y., and James G. McNally, Oak Ridge, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 12, 1944, Serial No. 558,456
7 Claims. (Cl. 260—231)

1. A method of preparing sulfoalkyl ethers of cellulose which comprises reacting upon cellulose with a compound selected from the group consisting of ethionic acid, carbyl sulfate, and the salts of ethionic acid.

2,422,001
CONSTRUCTION OF LOAD BINDERS

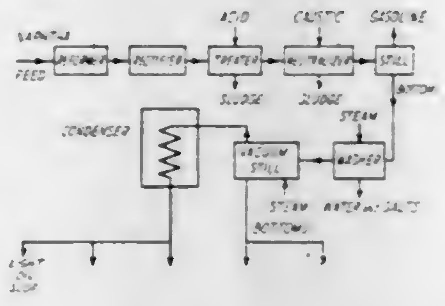
Votaw S. Durbin, Ladue Village, Mo.
Application January 4, 1946. Serial No. 638,949
5 Claims. (Cl. 254—78)



1. In a load binder, an operating handle consisting of a pair of channel members each consisting of a web and opposite marginal flanges, the channel members being assembled with their flanges in adjacence over a major portion of the handle length, and with the channels in spaced parallelism therebeyond, the latter portion being constructed and spaced to form jaws with a mouth therebetween, a plate in each channel member extending over the jaw-forming portion thereof, and outwardly of the jaw portion at least to the zone of adjacence of the channel members, an ear carried by each plate near the outer end of the jaw, and consisting of a pin metallically joining the adjacent plate and extending through and outwardly beyond the channel so that the ears coact to constitute a clevis pivot, a clevis pivotally engaging the ears, a chain connection to the clevis, a pivot pin bridging the mouth at a distance inwardly thereof beyond the ears, and being welded into one of the jaws, a tongue, one end of which operates upon the pivot pin, and which works across the mouth between the jaws, and a chain connection at the opposite end of the tongue.

2,422,002
NEUTRAL, HIGHLY UNSATURATED POLYMERIC COMPOSITION AND METHOD FOR PRODUCING SAME

William E. Elwell, Berkeley, and Neal W. Furby, El Cerrito, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application March 20, 1944, Serial No. 527,290
14 Claims. (Cl. 196—149)



1. The method of making neutral, highly unsaturated polymers of the character described comprising treating a thermally reformed naphtha with sulfuric acid to polymerize the unsaturated compounds thereof, separating the resulting acid sludge, neutralizing the remaining oil layer from which the acid sludge has been separated, distilling off from said remainder those components boiling in the gasoline range and then reducing the residuum under a vacuum of about 25 inches Hg and steam at temperatures not over about 450° F. to produce polymers having iodine numbers of from about 160 to 225.

2,422,003
WOOD BATTERY SEPARATOR AND PROCESS FOR PRODUCING SAME

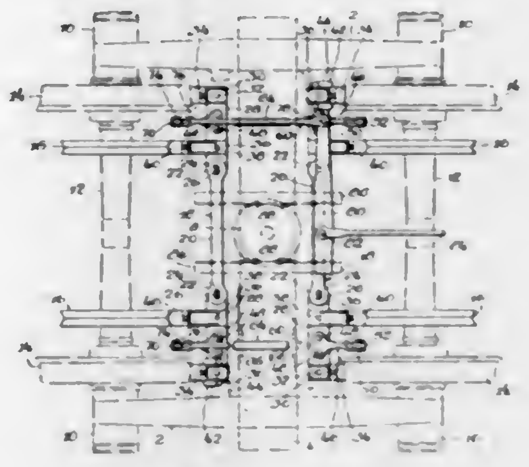
Eduard Farber, Washington, D. C., assignor, by mesne assignments, to Evans Products Company, Detroit, Mich., a corporation of Delaware
No Drawing. Application November 26, 1945, Serial No. 630,996
6 Claims. (Cl. 136—150)

3. The method of producing dimensionally stable wooden separators characterized by impregnating alkali extracted wood separators with a mixed acid containing phosphoric and sulfuric acids, and partially drying the impregnated separators.

2,422,004
BRAKE

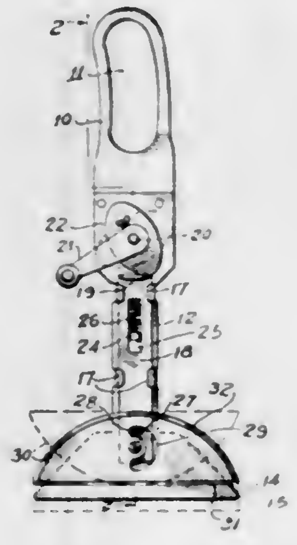
Norman Flesch, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application May 15, 1944, Serial No. 535,584
25 Claims. (Cl. 188—52)

1. In a brake arrangement for a railway car truck comprising a truck frame and a pair of spaced supporting wheel and axle assemblies, the combination of a pair of brake beams intermediate said assemblies and extending transversely of the truck, each of said beams comprising a central portion and spaced end portions having articulated connections thereto, each of said end portions carrying spaced brake shoes for engagement respectively with a wheel and an inboard brake drum of the adjacent assembly, and actuating means operatively associated with said beams for urging the latter toward respective assemblies, said actuating means comprising a pair of interconnected live and dead levers at each side of the truck connected respectively to the adjacent end portions of respective beams, and operating means associated with the live levers at opposite sides of the truck, said operating means comprising an equalizer operatively connected to said live levers, and a pull rod connected to said equalizer.



2,422,005
FOOD CHOPPER

Louis Frank, Fellows, Calif.
Application April 19, 1944, Serial No. 531,688
4 Claims. (Cl. 30—272)

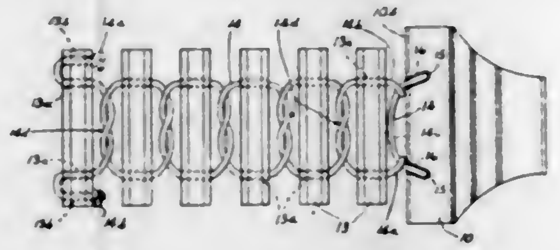


4. In a food chopper and meat tenderer, a handle, a body depending from said handle, bars mounted for sliding movement on said depending body, a crank shaft mounted for rotation in said body above the sliding bars, eccentrics carried by said crank shaft for actuating said sliding bars, means for yieldingly resisting downward movement of said sliding bars and means detachably mounted on the lower ends of said sliding bars for engaging and acting upon foodstuffs.

2,422,006
TRACTION DEVICE

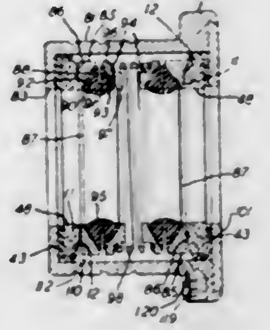
Jack J. Friedman, Cleveland, Ohio
Application September 19, 1945, Serial No. 617,263
3 Claims. (Cl. 238—14)

1. A traction device comprising a shoe upon which a wheel is adapted to ride, a plurality of bars in general alinement with the path of travel of said wheel, said bars extending transversely of said path, said bars forming a series generally parallel to and spaced from each other, a flexible cable member extending from each side of said shoe, each cable member passing in zig-zag fashion first through one end of one bar and then through the opposite end of the next bar in the series, said cable members providing the sole connecting means between said bars, and said cable members loosely connecting said bars so that each bar may move in any direction relative to an adjacent bar.



2,422,007
ROTARY SEAL MEMBER

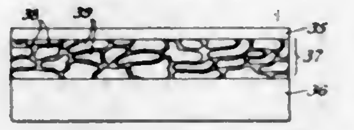
Walter Gilbert, Sr., Johnstown, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application September 4, 1943, Serial No. 501,272
7 Claims. (Cl. 286—7)



1. In a seal the combination of a member having an opening therethrough, a second member disposed in said opening, said members being relatively rotatable, an annular chamber in one member which is substantially closed by the other member, means providing a radially disposed annular sealing surface at each end of the chamber, a pair of spaced rings in the chamber each having a complementary sealing surface arranged to engage and seal on their respective sealing surfaces at the ends of the chamber, a rubber sleeve having end faces and interposed between said rings, a radially disposed circumferential groove extending a substantial distance into the body of the sleeve which when free forms outwardly projecting flanges and opening into said chamber, a frusto-conical face on at least one ring adjacent the sleeve, and means to urge the sleeve and rings into engagement with the frusto conical surface deforming the adjacent flange without substantial axial contraction of the sleeve and forcing the end faces of the sleeve into mating sealing engagement with the rings and cause the body of the sleeve to grip and seal on the member that closes the chamber preventing relative rotary motion between the sleeve and said member, and to exert pressure on the sealing surfaces, the frusto-conical face forming an acute angle relative to the gripped member.

2,422,008
AIRSPACED PHOTOGRAPHIC SUPPORT

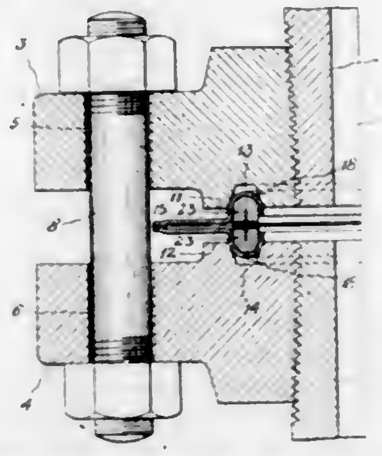
Courtney Q. Glassey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 6, 1945, Serial No. 571,591
6 Claims. (Cl. 95—8)



1. A photographic film comprising a transparent layer, a light diffusing layer and between the two layers, a cellular layer containing a large number of flattened bubble cells per square inch, the separation of the transparent and diffusing layers being between .00005 inch and .005 inch and there being, at practically every point of the area of the cellular layer, at least one cell whose thickness is also between .00005 inch and .005 inch.

2,422,009
SELF-SEALING RING-JOINT GASKET

Frederick W. Goetze, deceased, late of Franklin Township, Somerset County, N. J., by Margie C. Goetze, executrix, Franklin Township, Somerset County, N. J., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application November 5, 1945, Serial No. 626,640
6 Claims. (Cl. 288—24)



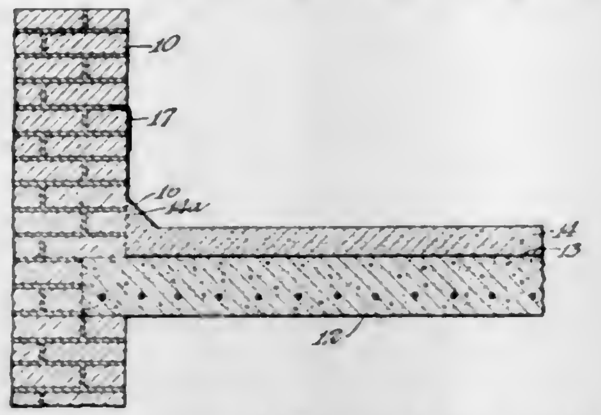
1. A gasket construction of the character described, comprising a pair of ring-like core members disposed in face to face relation with their openings axially alined and with their axially outer surfaces having convex shape, and a bellows type of sheathing enclosing said core members, said sheathing having a pair of walls formed with openings axially alined with the openings in said core members, and each wall having an inner marginal portion disposed axially exteriorly about the convex surface of one of said core members and having a portion extending radially outwardly from said opening and terminating in an outer margin, said outer margins of the two walls being hermetically connected together.

2,422,010
ROOF

David C. Goff, Omaha, Nebr.
Application November 22, 1944, Serial No. 564,679
6 Claims. (Cl. 108—1)

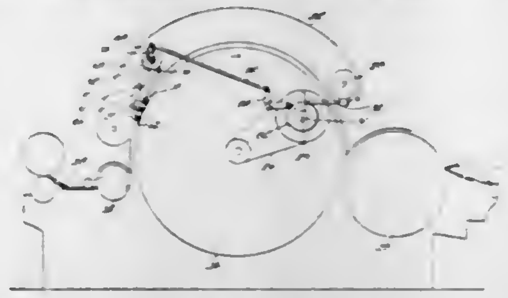
1. An integrally waterproof, fireproof, heat-insulating roof covering applied over a relatively flat structural deck of a building, said roof covering comprising a jointless monolithic slab of waterproof, fireproof, inorganic material covering the entire structural deck to a depth of not

less than one and one-half inches and having its upper surface exposed directly to sun rays and precipitation, said slab being of substantially uniform density and composition throughout and weighing not to exceed 35 pounds per cubic foot and having a heat loss of not over 1.0 B. t. u. per hour per square foot of slab per degree Fahrenheit of temperature difference between opposite surfaces of a slab of one inch thickness.



2,422,011
MEANS FOR STRIPPING CARDING APPARATUS

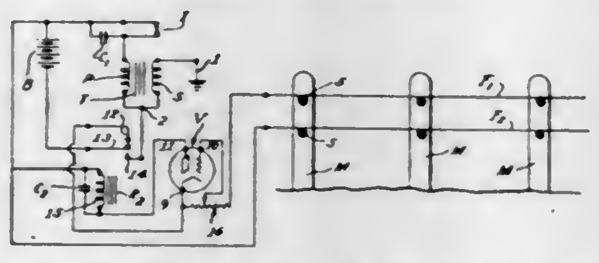
William H. Goldsmith, Jr., Brookline, Mass., assignor to Abington Textile Machinery Works, Boston, Mass., a trust of Massachusetts
Application August 19, 1943, Serial No. 499,268
14 Claims. (Cl. 19—109)



12. Card stripping apparatus comprising nozzle means having suction passages adapted to extend into close proximity to the surface of a card clothed cylinder, a suction manifold having a suction passage for applying suction to the nozzle passages, means for causing suction to be applied to the individual nozzle passages according to a predetermined sequence to cause successive strips of the cylinder to be stripped, and means for periodically separating spatially the manifold and the nozzle means to open the manifold to atmosphere intermediate the nozzle means and the manifold and thereby terminate the application of suction to said nozzle means.

2,422,012
ELECTRIC FENCE IMPULSE CONTROL SYSTEM

Lyman E. Greenlee, Anderson, Ind.
Application April 6, 1944, Serial No. 529,731
8 Claims. (Cl. 256—10)



1. In combination with a fence structure insulated from the ground, a fence transformer with a primary winding in series with a battery and the normally closed contact points of an interrupter, an electromagnetic relay with normally open contacts in series with the plate of a three-element cold-cathode electron control tube connected to cause the operation of the said electromagnetic relay whenever there is a drop in the resistance between the grid and cathode of the said control tube, a condenser in parallel with the interrupter points, a condenser in parallel with the relay coil, a potentiometer connected between the grid and cathode of the said control tube and the fence circuit, a condenser in parallel with the said potentiometer, an iron core choke coil in series with the said potentiometer contact arm and the grid of the said control tube, and hygroscopic material attached to move the contact arm of the said potentiometer with changes in relative atmospheric humidity.

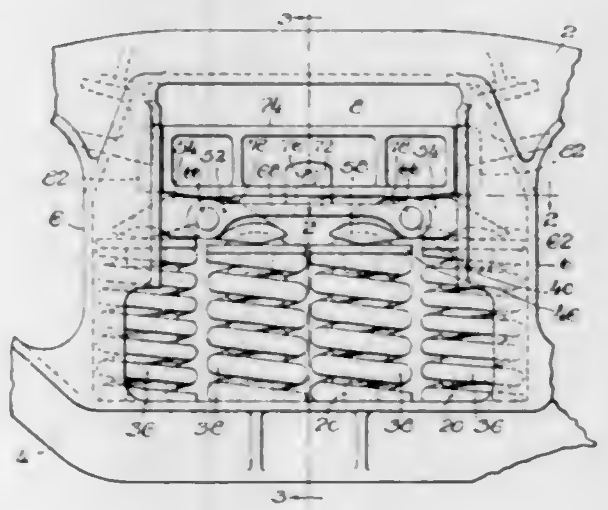
2,422,013
PREPARATION OF IMINES

Vernon E. Haury, El Cerrito, and Seaver A. Ballard, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 14, 1944, Serial No. 522.376
10 Claims. (Cl. 260—566)

10. In a process for preparing imines, the step of reacting a ketone with ammonia and hydrogen at a temperature of between about 50° C. and about 250° C., at a pressure of between about 200 lbs. per sq. in. and about 1,000 lbs. per sq. in., and in the presence of a hydrogenation catalyst while maintaining in the reaction mixture at least two mols of ketone per mol of ammonia present.

2,422,014
TRUCK

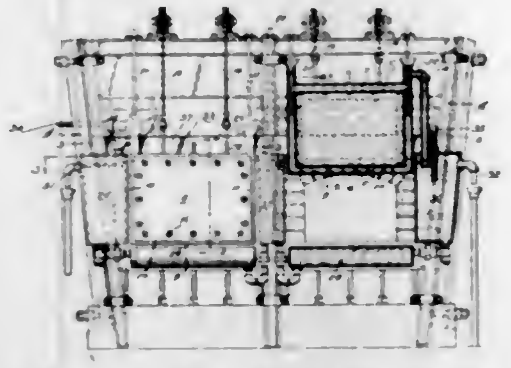
Charles L. Heater and Claus J. W. Clasen, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 30, 1943, Serial No. 508,280
41 Claims. (Cl. 105—197)



33. In a railway car truck, a side frame having spaced columns and an intervening bolster opening, two pairs of transversely aligned coil springs on said frame, a pair of relatively long travel springs on said frame adjacent respective columns, lever members each supported adjacent its opposite ends on one pair of said first-mentioned springs and one of said second-mentioned springs, and a bolster supported on said members in rockable abutment therewith.

2,422,015
WATER-COOLED FURNACE DOOR

Arthur W. Hellstrom, Chicago, Ill., assignor to Kropp Forge Aviation Co., Cicero, Ill., a corporation of Illinois
Application October 18, 1943, Serial No. 506,790
7 Claims. (Cl. 122—498)



1. In a furnace, a door of refractory material having a hollow frame for receiving water, said frame having a communicating funnel, water supply pipes for supplying water to said frame, adapted to extend into the funnel and hollow frame when the door is raised, an overflow tank, a discharge outlet for said frame extending to the lower part of said tank, a circulating tank communicating with said overflow tank, and a discharge outlet for said structure.

2,422,016
PROCESS FOR PREPARING ACETONE AND ACETATE ESTERS

David C. Hull, Oak Ridge, and Albert H. Agett, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 12, 1945, Serial No. 634,630
5 Claims. (Cl. 260—479)

1. A method of preparing acetone and an alkyl acetate which comprises preparing a mixture of isopropenyl acetate, an alcohol of 1–5 carbon atoms, and a small proportion of an esterification catalyst and subjecting the mixture to an elevated temperature.

2,422,017
METHOD FOR FINISHING PLASTIC COMPOSITIONS

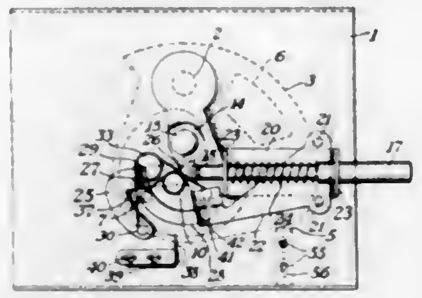
Richard H. Hunt, Jr., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 28, 1944, Serial No. 565,575
4 Claims. (Cl. 117—63)

1. A method of permanently removing surface imperfections from articles of cellulose acetate which comprises softening the surfaces of said articles by treatment with a solvent mixture comprising 60 to 95 parts by weight of one of a group consisting of acetone and methyl ethyl ketone and 40 to 5 parts by weight of one of a group consisting of ethyl lactate and dioxane, removing only excess solvent and thereafter finishing said articles under heat and pressure while maintaining the surfaces of said articles in a softened condition.

2,422,018
CAMERA SHUTTER

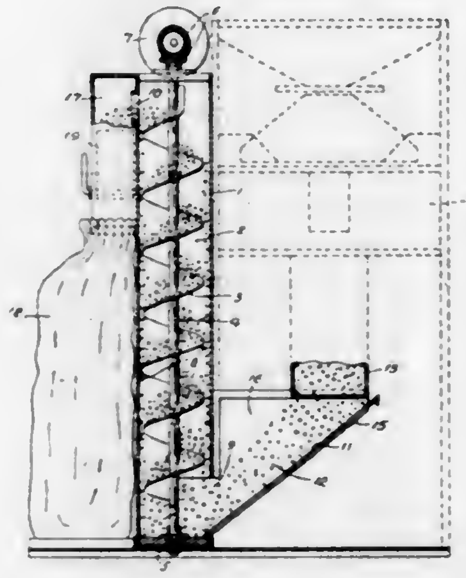
Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 12, 1945, Serial No. 622,029
11 Claims. (Cl. 95—60)

1. A camera shutter comprising, in combination, an apertured support, a shutter blade pivotally mounted thereon to uncover and cover said aperture to make an exposure, a cover blind pivotally mounted on the support to uncover and cover the exposure aperture, a trigger operably connected to the cover blind to move the cover blind, spring means holding the cover blind and trigger in a position of rest in which the cover blind covers the aperture in the support, a hair pin spring connecting the shutter blade and the operably connected trigger and cover blind to be tensioned and released thereby, and a supplementary shutter blade starting mechanism acting upon the shutter blade and operable by the trigger.



2,422,019
SEED TREATING AND HANDLING DEVICE

Harold Jesse Kemp, Swift Current, Saskatchewan, Canada
Application April 21, 1944, Serial No. 532,189
In Canada May 18, 1943
1 Claim. (Cl. 259—7)



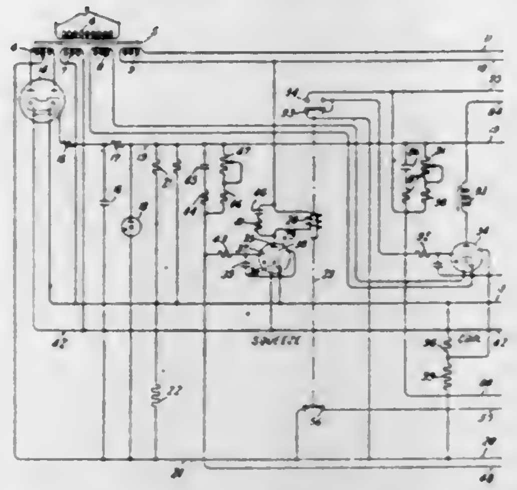
A seed and dust mixing and handling device comprising a vertically disposed substantially cylindrical housing, said housing having a bottom inlet and a top outlet, means for feeding mixed seed and dust to said inlet, and a screw conveyor in said housing for moving said seed and dust and having a helical blade of uniform width throughout its length and extending from a point adjacent the inlet to a point adjacent the outlet, the periphery of said blade throughout its length being uniformly spaced from the wall of the housing to provide an annular space extending from the inlet to the outlet and of sufficient width to provide a continuous zone in which a portion of the seed and dust on the conveyor falls and while returning towards the bottom of the housing is successively mixed with the rising mixture.

2,422,020
ELECTRIC CONTROL CIRCUIT

Robert E. Kingsmill, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application March 27, 1945, Serial No. 585,100

14 Claims. (Cl. 171—97)



14. In combination, a direct current voltage supply circuit, a capacitor, a charging circuit for said capacitor including a charging impedance, means for energizing said charging circuit with a variable voltage from said supply circuit, an electric valve and inductance means connected in parallel circuit relation with said capacitor so that the cathode voltage of said valve is determined by the voltage of said capacitor, means responsive to the attainment of a predetermined voltage by said capacitor for rendering said electric valve conducting to invert the voltage on said capacitor, and means for limiting the voltage to which said capacitor is charged from said direct current circuit independently of the magnitude of said variable voltage, said means including a unilaterally conducting path connected between said capacitor and a voltage having a fixed relation with respect to the voltage of said supply circuit.

2,422,021
MANUFACTURE OF THREAD OR THE LIKE

Hayden B. Kline and Alden H. Burkholder, Cleveland, and William O. Israel, Lakewood, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application July 29, 1940, Serial No. 348,234

16 Claims. (Cl. 18—54)

2. In the method of forming viscose thread, the step which comprises extruding viscose through a spinneret into a coagulating liquid in the presence of a water-soluble, surface active polyoxyalkylene glycol polymer having a molecular weight not substantially below 2000 and an anion-active substance.

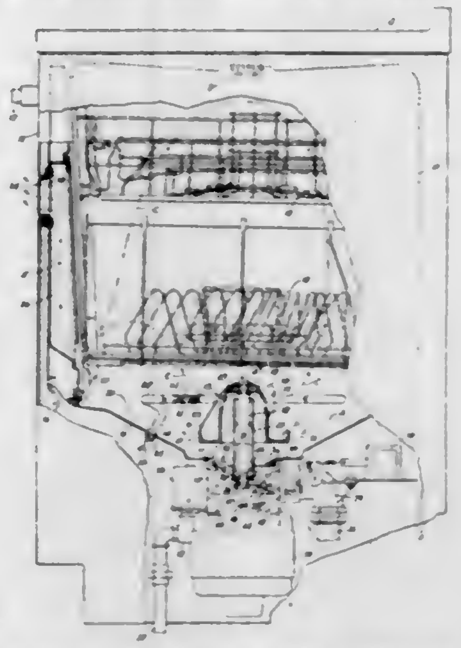
2,422,022
DISHWASHING AND DRYING APPARATUS

Nobel H. Koertge, Glen Ellyn, Ill., assignor to Hotpoint Inc., a corporation of New York

Application January 15, 1942, Serial No. 426,889

7 Claims. (Cl. 134—94)

1. In dishwashing and drying apparatus, a receptacle, means for supporting dishes in said receptacle, an impeller mounted for rotation in the lower portion of said receptacle, means for driving said impeller, said impeller having a hub portion and air fan blades projecting therefrom, means forming an air inlet passage for conducting air from the exterior of said receptacle to a point adjacent said hub whereby rotation of said impeller causes air to be pumped into said receptacle through said air inlet passage, said blades acting to agitate the air drawn into said receptacle so that it circulates upwardly and outwardly throughout the interior of said receptacle to effect a uniform drying of the dishes supported therein, and discharge means for discharging the circulated air from said receptacle having a port located at the lower portion of said receptacle so that the air circulated to the upper portion of said receptacle must return downwardly therein for discharge from the receptacle.

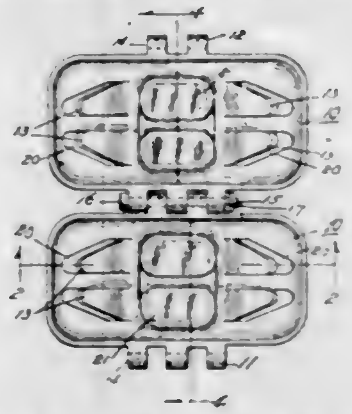


2,422,023
TREAD PLATE

Roy A. Kropp, River Forest, Ill., assignor to Kropp Forge Company, Cicero, Ill., a corporation of Illinois

Application May 7, 1945, Serial No. 592,426

3 Claims. (Cl. 152—226)



2. A tread for tires of motor vehicle wheels comprising a saucer-like, rectangular-shaped plate having hinge elements on opposite sides and prongs extending from an indented area in the inner face thereof, characterized in that the prongs are located in the intermediate part thereof and positioned for contact with the opposite sides of a tire, against which the tread is positioned.

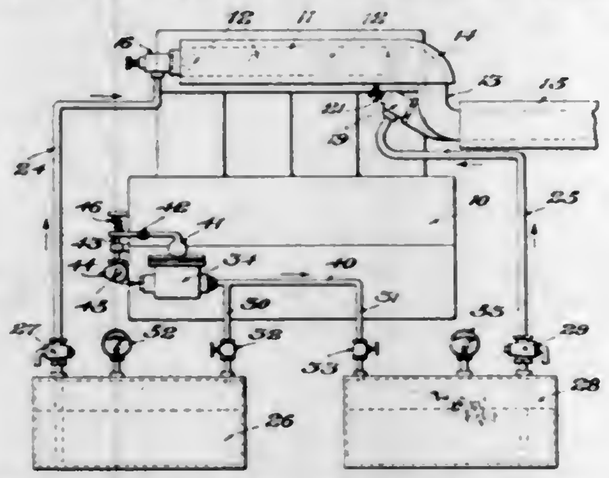
2,422,024
APPARATUS FOR PRODUCING SMOKE SCREENS

Harold A. Levey and Alonzo C. Patterson, New Orleans, La.; said Levey assignor to said Patterson

Application May 4, 1942, Serial No. 441,724

4 Claims. (Cl. 252—359)

1. In a smoke producer in combination, an internal combustion engine having an exhaust manifold, exhaust ports opening into said manifold, an exhaust pipe leading from said exhaust manifold, means opening into said exhaust manifold in front of the exhaust ports to feed a smoke producing composition thereto, and a second means opening into said exhaust pipe beyond said manifold to feed smoke producing composition thereto, said second means having an outlet positioned at an angle to the flow of gases in said exhaust pipe so that said gases will sweep smoke producing fluid from said outlet.

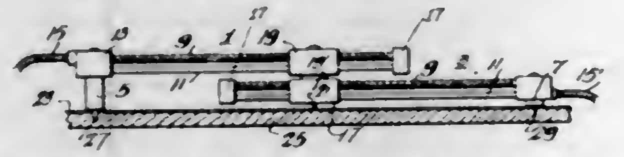


2,422,025
NAVIGATIONAL POSITION PLOTTING

David G. C. Luck, Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 30, 1942, Serial No. 467,444

10 Claims. (Cl. 250—11)



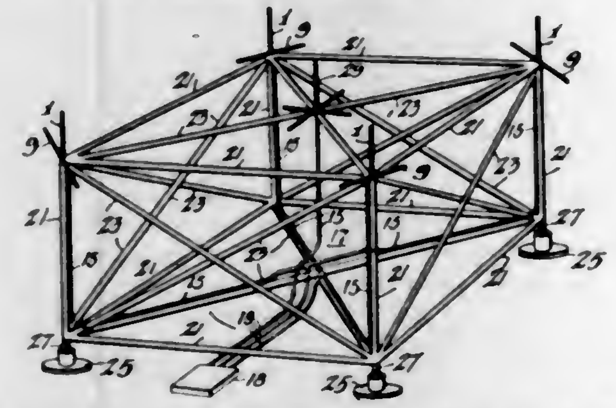
1. A system for plotting the position of a mobile craft upon a map, comprising a plurality of arm members pivoted at points corresponding to the map positions of respective reference stations, carriage members supported on said arms for movement longitudinally thereof, all of said carriages being pivotally connected together, and means for moving each of said carriages to a position along its respective supporting arm corresponding to the map distance of said mobile station from the respective reference station.

2,422,026
RADIO DIRECTION FINDING

David G. C. Luck, Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 28, 1943, Serial No. 496,461

6 Claims. (Cl. 250—33)



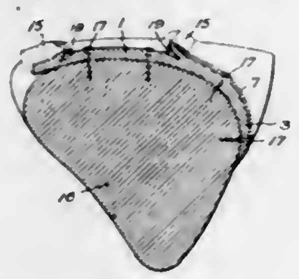
5. A radio direction finder system including a plurality of vertical conductive rods disposed at a substantial elevation above the ground surface, horizontal conductive members disposed with their midpoints respectively adjacent the lower ends of said vertical rods, transmission lines coupled to said respective lower ends and said midpoints and extending vertically downward to the ground surface, said transmission lines extending horizontally along the ground surface to a point thereon substantially equidistant from said vertical conductive rods.

2,422,027
METHOD OF MAKING INSOLES

John J. Maguire, Brockton, Mass., assignor to Field and Flint Co., Brockton, Mass., a corporation of Massachusetts

Original application May 26, 1942, Serial No. 444,499. Divided and this application February 15, 1946, Serial No. 647,699

1 Claim. (Cl. 12—146)



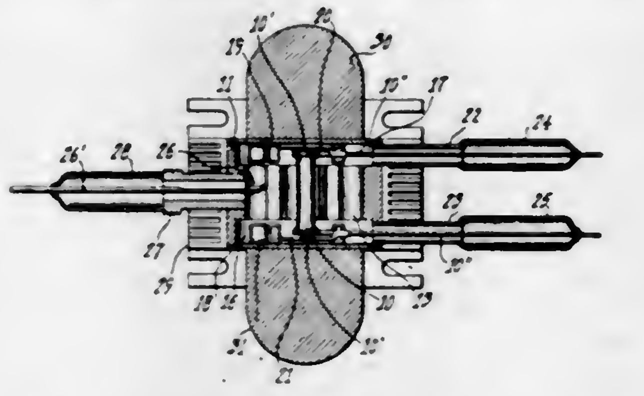
The method of molding the cookie of an insole which comprises maintaining the cookie in conforming relation to a last or other form with a layer of moldable material applied to its exposed surface comprising a sheet impregnated with a tacky cementitious substance causing the sheet to adhere to said surface, which substance is capable when dry of rendering said sheet stiff and form retaining, and then drying said sheet while the cookie is maintained in conforming relation to said form.

2,422,028
CAVITY RESONATOR MAGNETRON

Stuart T. Martin, Jr., Arlington, Va., assignor to Radio Corporation of America, a corporation of Delaware

Application November 14, 1942, Serial No. 465,524

10 Claims. (Cl. 250—27.5)



1. An electron discharge device having a cathode for supplying electrons, a plurality of anode segments surrounding a space into which the electrons from said cathode are directed, conducting means connecting said segments and providing cavity resonators between said segments, and a conducting loop positioned adjacent one end of the conducting means but outside said conducting means and lying in a plane passing longitudinally through one of said cavity resonators and symmetrically with respect thereto.

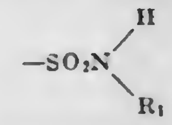
2,422,029
BICYCLIC COMPOUND CONTAINING A DIPHENYLAMINE NUCLEUS

James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 2, 1943, Serial No. 500,998

7 Claims. (Cl. 260—397.7)

4. A process for preparing a diphenylamine compound comprising condensing, in the presence of an acid-binding agent, a monocyclic primary aromatic amine of the benzene series with a monocyclic compound containing a benzene nucleus and containing on the benzene nucleus a halogen atom and only one nitro group, said nitro group being in ortho position to the halogen atom, said compound also containing on the benzene nucleus in para position to the halogen atom a



$$-SO_2N\begin{matrix}H\\R_1\end{matrix}$$

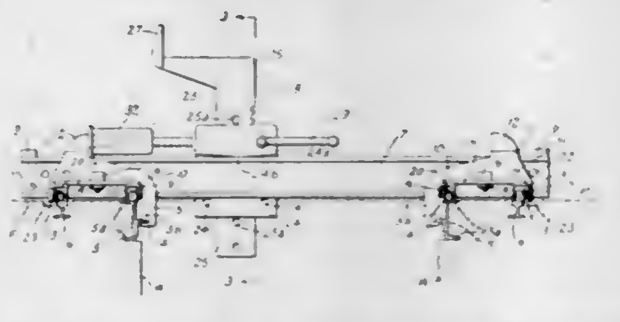
group wherein R_1 represents a member selected from the group consisting of a hydrogen atom, an alkyl group, a hydroxyalkyl group and an alkoxyalkyl group.

2,422,030
APPARATUS FOR STRAIGHTENING FRAMES AND THE LIKE

Marcellus S. Merrill, Denver, Colo.

Application July 12, 1944, Serial No. 544,489

11 Claims. (Cl. 153—32)



1. In apparatus for straightening frames of automobiles and the like, a base comprising a floor and a parallel-walled pit in the floor, having rails embedded in and along the top portions of said walls and in said floor, rollers, pairs of brackets adapted, by said rollers, to rest upon and roll along said base, one of each pair on each side of the pit, slidably interengaging means carried by the base and the brackets, and a holding-pressure unit carried in each pair of brackets and normally slidable therein transversely of said base and means for locking the unit to the bracket for limiting such sliding, the unit carrying an element adapted to engage selected portions of a frame positioned over the apparatus.

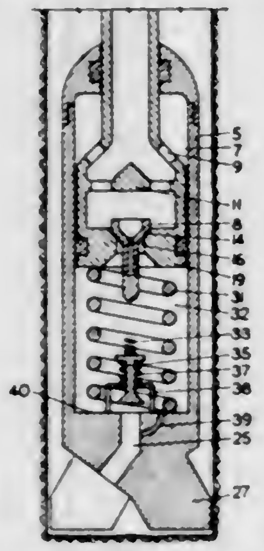
2,422,031
HYDRAULIC WELL DRILLING DEVICE

Eugen Merten, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application June 19, 1944, Serial No. 540,989

9 Claims. (Cl. 255—4.4)

1. A hydraulic device adapted to be lowered on a drill string into a borehole for impacting a drill bit against the bottom thereof, said device comprising cylinder and piston members, one of said members being attached to said drill string and the other member being attached to said drill bit and movable with regard to said string, and variable stroke means for reciprocating the movable member, said means comprising passage means for admitting a pressure fluid from the drill string to the cylinder member to one side of said piston, passage means for exhausting the fluid from the cylinder on the other side of the piston, a passage through the piston, said passage having a restricted portion, a hollow cup-shaped valve adapted to close said piston passage to fluid flow during the upward stroke of the movable member, a cap member affixed to the piston member in register with the open face of the cup-shaped valve, pin means affixed to the cylinder member adjacent the passage means for exhausting the fluid therefrom adapted to force said valve to an open position in contact with said cap member at the end of said upward stroke, and channel means through the walls of the cup-shaped valve in communication between the restricted portion of the piston passage and the closed space defined within the cup-shaped valve when said valve is in contact with said cap member, whereby said cup-shaped valve is maintained in an open position in contact with said cap member by a Venturi suction effect created by the fluid flow through said restricted portion of the piston passage during the downward stroke of the movable member, and is released to a closed position by a decrease of said fluid flow and of said suction effect occurring when the motion of the movable member is arrested by the impact of the drill bit against the bottom of the borehole.

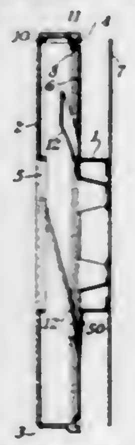


2,422,032
FILM CONTAINER REEL

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 25, 1944, Serial No. 560,274

6 Claims. (Cl. 206—52)



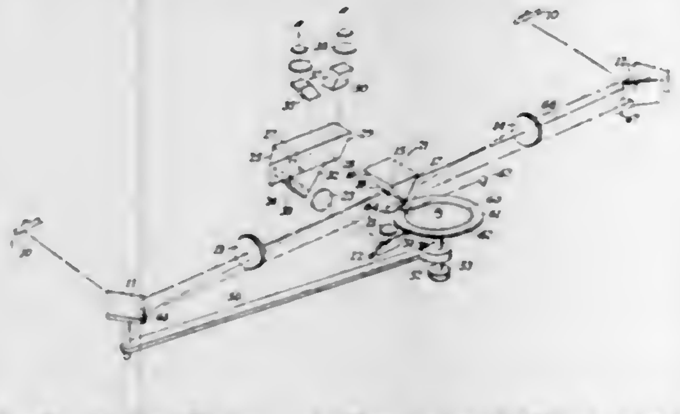
1. A unitary reel and container consisting of two parts, a reel and a cover, the reel comprising a hub and flanges attached thereto to receive film therebetween, the cover comprising a plate including a flange about its periphery to telescope the reel to close the opening between the flanges and means for slidably mounting one part on the other part whereby the cover may slide to uncover the space between the reel flanges enabling film to be wound therebetween, and springs between the cover and a reel flange for normally holding one part from the other.

2,422,033
ORTHOPSEUDO STEREO RANGE FINDER

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 3, 1945, Serial No. 620,153

12 Claims. (Cl. 88—2.7)



1. A range finder of the type having spaced viewing points in horizontal alignment at which to receive light beams horizontally from a target being ranged, comprising effectively horizontally reflecting means for directing the two beams from the viewing points toward each other, lens means in each beam for forming a target image optically at a vertical coincidence plane common to the two beams with the images together, an external dihedral reflector with its roof edge in said plane bisecting each image and parallel to a line in each image corresponding to a horizontal line in the target and with its reflecting surface reflecting one-half of each image to a single plane, the images being juxtaposed, inverted relative to one another and divided by the roof edge, and means for viewing the juxtaposed image halves.

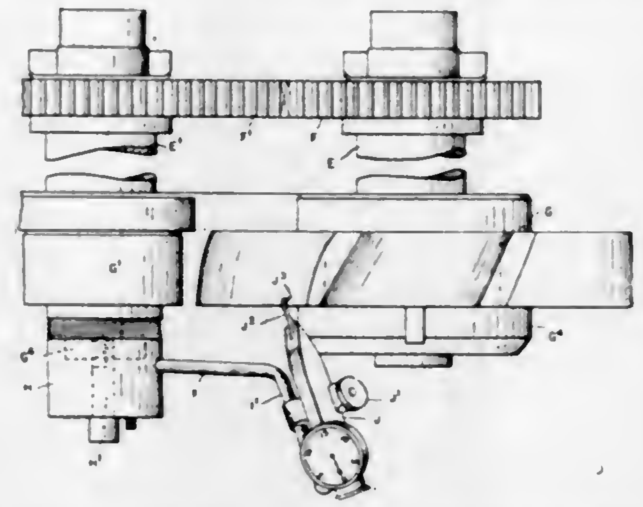
2,422,034
GAUGING DEVICE FOR DETERMINING DIMENSIONS OF ROTARY MEMBERS OF PUMPS

Reino H. Mustonen, Detroit, Mich., assignor to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan

Application December 1, 1943, Serial No. 512,508

1 Claim. (Cl. 33—174)

An apparatus for checking the accuracy of helicoidal surfaces of conjugate rotary helicoidal members comprising a pair of parallelly mounted shafts having the axes thereof spaced to correspond to that of the axes of said conjugate helicoidal members, gearing connecting said shafts to rotate in the same ratio as that of the members to be tested, each of said shafts being provided with a mounting portion for one of the conjugate members and which also serves as a mounting for testing mechanism, testing mechanism including a radially adjustable arm, a gauge mounted on said arm, and a pointed actuating member for said gauge whereby said gauge may be adjusted to a position where the point of the actuating member thereof will during the rotation of said shafts generate the true contour of the surface to be tested and any deviation of the actual surface from said true surface will be indicated by the gauge.

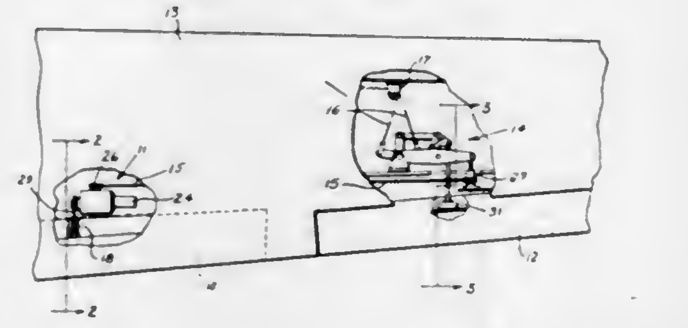


2,422,035
ACTUATING MECHANISM FOR AERODYNAMIC SURFACES

John Noyes, Jr., University City, Mo., assignor to The Curtiss-Wright Corporation, a corporation of Delaware

Application August 21, 1943, Serial No. 499,746

5 Claims. (Cl. 244—42)



4. In an airplane, an aileron, a flap, a differential mechanism mounted for swinging movement and including a crank system operatively carried thereby, a push-pull rod connecting said crank system with said aileron, means actuating said crank system to move said aileron, means for moving said flap, and means operated by said flap moving means for swinging said differential mechanism in a manner to effect a longitudinal change of position of said push-pull rod and hence movement of said aileron.

2,422,036
APPARATUS FOR GAGING AND ASSORTING BULLET CORES ACCORDING TO SIZE AND SHAPE

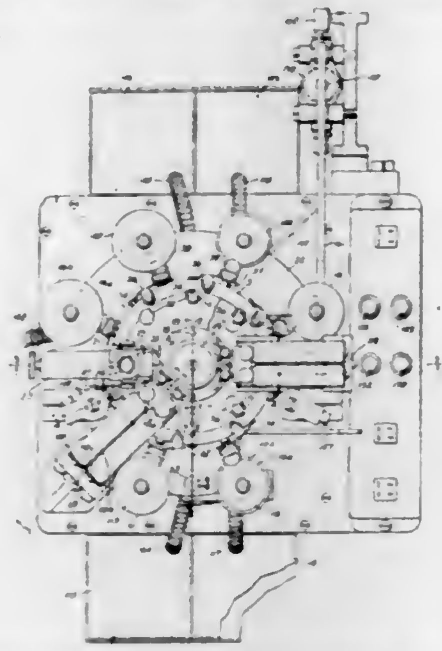
Sterling A. Oakley, Lincolnwood, Ill., assignor to Hotpoint Inc., a corporation of New York

Application September 30, 1944, Serial No. 556,619

10 Claims. (Cl. 209—75)

4. Apparatus for testing a bullet core having an ogive end and a boat-tail end comprising a support for holding a core and moving it to ogive end and boat-tail end gauging stations, power means for operating said support to said stations, means at said stations for measuring said ogive and boat-tail ends respectively, profile gauge plates preceding said ogive and boat-tail gauge stations for gauging portions of the profile of said core, and means for stopping said power means operated responsively to the interengage-

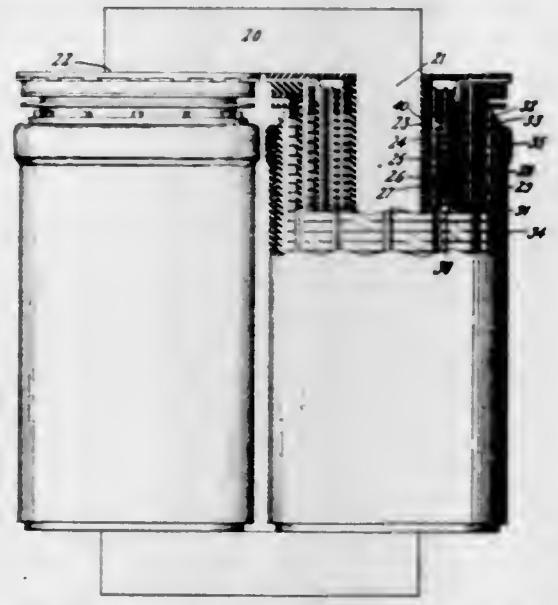
ment of any of the portions of the profile gauge plates with said core which interengagement



tends to prevent further movement of said support.

2,422,037
ELECTRIC INDUCTION APPARATUS

Konstantin K. Paluev, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 16, 1942, Serial No. 443,309
10 Claims. (Cl. 175—356)



2. In an electric induction apparatus, a winding including a plurality of axially disposed disk coils, each of said coils having a plurality of concentric turns, turn insulation around each of said turns, solid insulation adjacent the inside and outside peripheries of said winding, means spacing turns of said winding to provide a duct through which a fluid may pass to conduct heat from said winding, and a protective covering around the turn insulation adjacent said duct so as to prevent deterioration of said turn insulation due to the flow of the fluid.

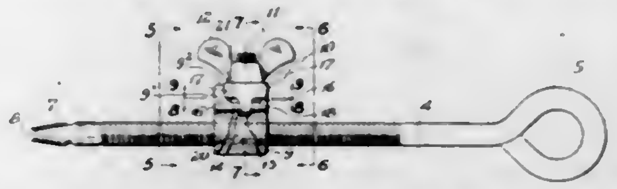
2,422,038
ANODES FOR INTENSIVE ARCS

Jean François Parisot, Paris, France, assignor to Societe: Le Carbone Lorraine, a corporation of France
No Drawing. Application July 25, 1945, Serial No. 607,093. In France January 17, 1942
15 Claims. (Cl. 176—121)

1. An anode for intensive electric arcs adapted to produce spontaneously the Beck effect, comprising a sheath of carbon and a core constituted by a base of commercially pure carbon admixed with an inoxidable ferrous alloy.

2,422,039
CLAMPING MEANS

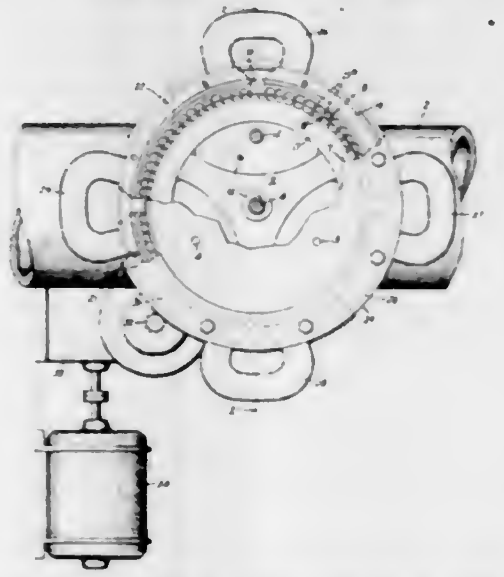
Charles A. G. Pritchard, Parma, Ohio, assignor to Eugene W. Lehman, East Cleveland, Ohio
Application May 18, 1944, Serial No. 536,205
6 Claims. (Cl. 24—81)



1. Clamping means comprising a two-part clamping block having complementary mating faces, one of said block parts being formed to provide a feeding support for an actuating member, locking means for holding the block parts together in mated relation, one of said block parts having an extended flange overlapping the side portions of the other block part, complementary wire-receiving grooves formed in the opposed faces of the block, said extended flange being formed with open-ended slots having flared walls and disposed in alignment with one end of the complementary wire-receiving grooves, and wire-snubbing extensions formed on one of the block parts and interrupting the continuity of the wire-receiving grooves.

2,422,040
MAGNETIC DRIVE

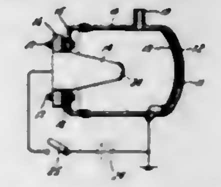
Louis T. Rader, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 27, 1945, Serial No. 574,904
7 Claims. (Cl. 172—284)



1. A magnetic drive comprising a rotor member provided with a rim of magnetic material and with equally spaced axially extending teeth on its periphery, an enclosure for said rotor member including a layer of nonmagnetic material surrounding said rotor member having its inner surface adjacent the ends of said teeth, a stator member including a plurality of arcuate magnetic members, means rotatably supporting said magnetic members in spaced relation with each other adjacent said layer of nonmagnetic material, a plurality of permanent magnet means secured to said magnetic members so as to bridge said magnetic members and secure said magnetic members to each other, each of said permanent magnet means having its poles secured respectively to said magnetic members, a plurality of teeth on the inner surfaces of said magnetic members adjacent the outer surface of said layer of nonmagnetic material having substantially the same spaced relation as said teeth on said rotor member whereby magnetic driving forces are set up between said stator and rotor members, and means for turning said stator member thereby to turn said rotor member with said stator member.

2,422,041
ELECTRON MICROSCOPE

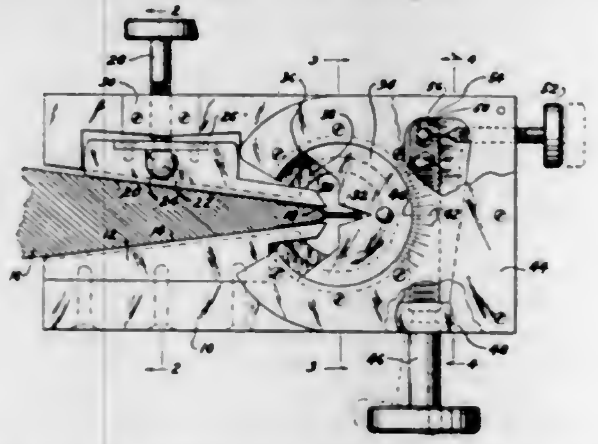
Simon Ramo, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 18, 1944, Serial No. 522,875
7 Claims. (Cl. 250—49.5)



4. The method of operating an electron microscope having a cathode and a fluorescent screen in spaced relation which comprises coating said cathode with an adhesive material, supporting specimens to be observed from said material, and establishing an electric field between said cathode and said screen to produce electron emission solely from the action of said electric field and to obtain a shadow image of said specimen on said screen.

2,422,042
GAUGING AND BENDING TOOL FOR ROTOR BLADES

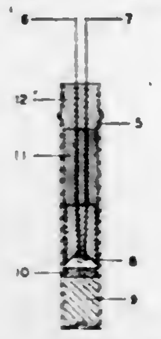
Reon B. Roberts, Fairfield, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application April 17, 1945, Serial No. 588,816
3 Claims. (Cl. 153—6)



3. A tool for measuring and adjusting the position of the trailing edge of an airfoil section with respect to a support thereof comprising in combination, a generally U-shaped base member having a surface on one leg of the member for engaging said support, a movable clamping surface opposed to the engaging surface and mounted upon the opposite leg of the member, means rotatably mounted between the legs of said base including sides forming a notch for engaging the trailing edge, and means for adjusting the position of said rotatable means with respect to said member when the trailing edge is engaged by the notch.

2,422,043
COMPOUND DETONATOR

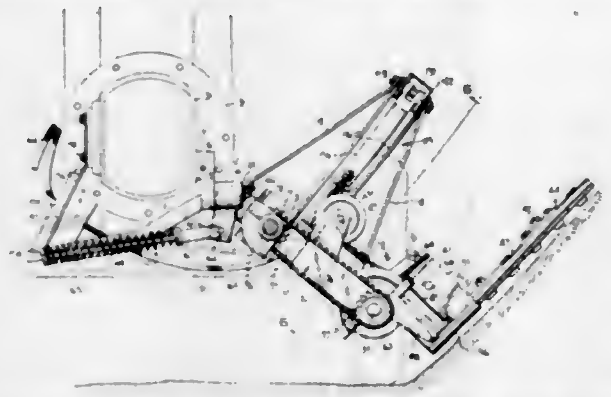
Guy F. Rolland, McKeansburg, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application March 25, 1941, Serial No. 385,088
4 Claims. (Cl. 52—4)



1. In a detonator, a charge consisting essentially of pentaerythritoltetranitrate and superimposed directly thereon at least .05 gram of an initiating charge positioned to become ignited by a source of heat and to initiate the pentaerythritoltetranitrate charge, said initiating charge consisting of an admixture comprising pentaerythritoltetranitrate and at least 75% by weight diazodinitrophenol.

2,422,044
TRACTOR MOWER

Martin Ronning, St. Louis Park, and Kenneth M. Keith, Minneapolis, Minn., assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware
Application September 1, 1944, Serial No. 552,248
22 Claims. (Cl. 56—25)



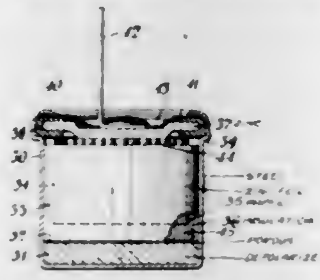
1. A tractor mower, comprising a frame, means supporting the frame at its inner end on the tractor for swinging movements about an axis extending longitudinally of the tractor, said frame being also supported by said means for angling adjustments about an axis extending transversely with respect to the tractor, a cutter pivotally supported at the outer end of the frame for up and down swinging movement with respect thereto, and means connected to the frame and cutter for swinging the frame and the cutter with respect to the tractor and with respect to each other.

2,422,045
ALKALINE DRY CELL

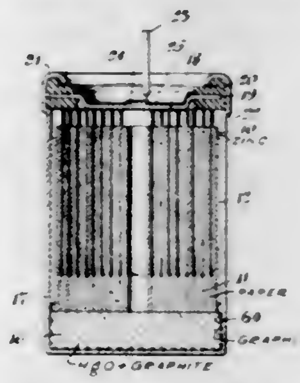
Samuel Ruben, New Rochelle, N. Y.
Application July 10, 1945, Serial No. 604,269
57 Claims. (Cl. 136—107)

43. A primary cell comprising an amalgamated zinc anode having an extended surface area and at least the surface thereof amalgamated with mercury, an electrolyte comprising a solution of alkali metal hydroxide substantially saturated

with zinc oxide, and a depolarizer cathode formed of a reducible oxide mixed with a conductive material to increase the conductivity thereof, and alkali-resistant absorbent spacer material interposed between said anode and cathode, substantially all of said electrolyte being held absorbed in said spacer material, all of the parts and compositions in said cell being substantially free of active soluble salts and other impurities and a support for said depolarizer cathode mixture comprising a metal inert to said electrolyte, a container for said cell parts formed of metal inert to said electrolyte, said container being in contact with said depolarizer cathode and thereby comprising the positive terminal of said cell, and a metal top for said container in contact with said zinc anode and thereby comprising the negative terminal for said cell, and an insulating sealing member sealing said top in said container and held under compression between said container and top.

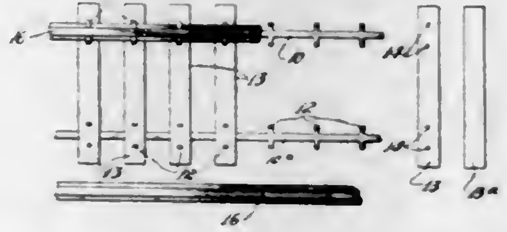


2,422,046
ALKALINE DRY CELL
Samuel Ruben, New Rochelle, N. Y.
Application December 10, 1943, Serial No. 513,687
15 Claims. (Cl. 136—107)



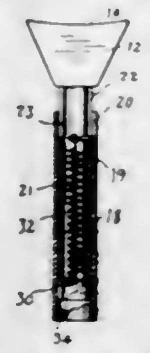
15. A primary cell structure comprising a metal cup having a depolarizing oxide cathode compressed in the bottom thereof, and an anode formed of a roll of foil and an electrolyte impregnated spacer enrolled therewith and separating the turns thereof, said roll having an end disposed adjacent the surface of said cathode and substantially parallel thereto.

2,422,047
MINIATURE RAILWAY UNIT
Stephan Schaffan, Jr., Irvington, N. J.
Application November 27, 1944, Serial No. 565,266
1 Claim. (Cl. 238—10)



In a miniature railway system, a pair of spaced flat bars, pairs of fingers extending laterally from opposite side edges of each bar and being equidistantly spaced, said fingers being integral with said bar, the outer ends of said fingers being bent upwardly and disposed at right angles to the plane of the bar, cross ties positioned across the spaced bars and the respective pairs of aligned fingers, the upwardly disposed ends of the fingers projecting through the cross ties and extending thereabove, rails seated on said cross ties above the bars, the projecting upper ends of the fingers being clenched over the base portions of the rails to unite the parts in accurately spaced and aligned arrangement.

2,422,048
SAFETY-RAZOR BLADE SHARPENER
John W. Sharp, Muncie, Ind.
Application May 22, 1945, Serial No. 595,137
2 Claims. (Cl. 51—205)



1. In combination with a slab shaped abradant body having a polished whetting face relatively narrow in width, concave from end to end and transversely convex and adapted to be traversed by the opposed longitudinal edge portions of the margins of a safety razor blade, a handle, a holder device consisting of a tubular sleeve provided at its upper portion with a central longitudinal bifurcation in the outboard area of which the said abradant body is made fast, there being provided at the lower end of said sleeve an inturned lug, a tubular handle within which the said sleeve is slidingly received said handle having an inturned lug which is received in the bifurcation of said sleeve, and a retractile spring having the ends thereof connected with said lugs whereby the sleeve is supported yieldingly in said handle.

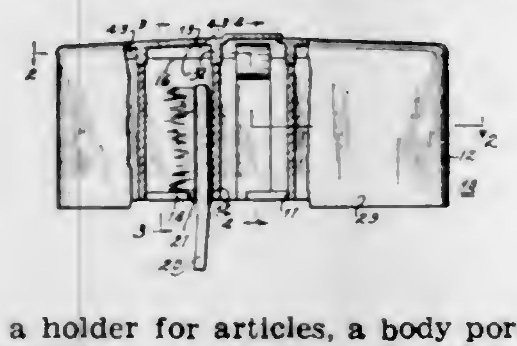
2,422,049
VULCANIZED FATTY OIL EMULSIONS
Paul Stamberger, Dover, Del.
No Drawing. Application November 14, 1942, Serial No. 465,637
18 Claims. (Cl. 106—249)

1. In the production of vulcanized esters of unsaturated fatty acids, the method which comprises vulcanizing an ester selected from the class consisting of esters of fatty acids having more than one double bond in the fatty acid chain, and esters of hydroxylated fatty acids, the vulcanization being effected with sulphur at a temperature between about 120° C. and about 200° C., and the vulcanization at said temperature being continued until that stage of the reaction is reached at which a drop of the heated mixture, when placed in a 25% aqueous ammonia solution, will display appreciable solidification within about 5 minutes, at which stage of the reaction the vulcanized material has the capability of undergoing spontaneous solidification in an aqueous dispersion at room temperature but the heating being terminated prior to reaching the stage of an infusible gel structure at the treatment temperature, and forming an aqueous dispersion of the material prior to appreciable solidification beyond that point at which the heating was terminated, whereby appreciable spontaneous solidification of the material takes place in the dispersion.

2,422,050
METHOD OF MAKING 2-AMINO-5-SUBSTITUTED 1,3,4-THIADIAZOLE
George W. Steahly, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 2, 1945, Serial No. 602,933
7 Claims. (Cl. 260—302)

1. An improved method of making 2-amino-5-substituted 1,3,4-thiadiazoles in which the 5-position substituent is a radical selected from the group consisting of alkyl, alkenyl, aralkyl and cycloakyl radicals comprising condensing one equivalent of an acyl chloride with one equivalent of thiosemicarbazide in the presence of at least one additional equivalent of said acyl chloride, rendering the mixture alkaline, and recovering the 2-amino-5-substituted-1,3,4-thiadiazole from the reaction mixture.

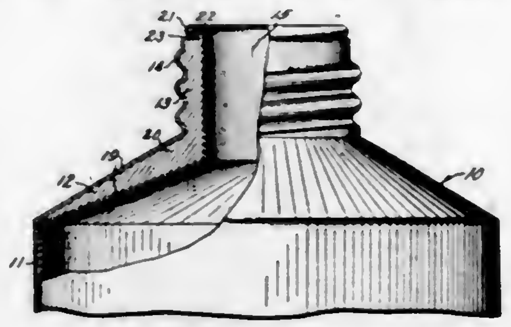
2,422,051
HOLDER FOR ARTICLES
Oscar Leonard Swanson, Erie, Pa.
Application June 27, 1944, Serial No. 542,306
4 Claims. (Cl. 312—112.5)



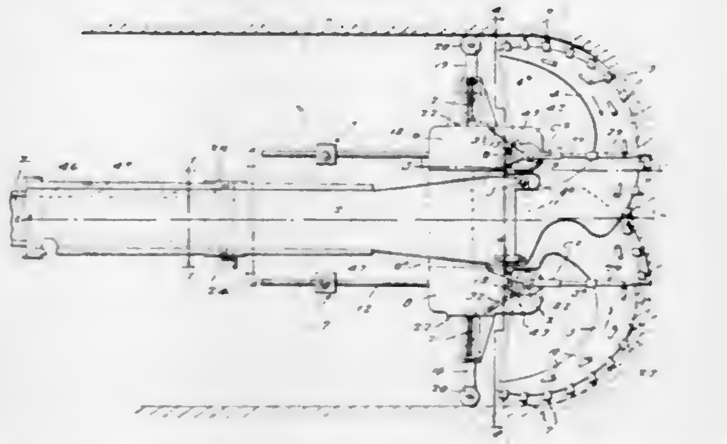
3. In a holder for articles, a body portion and cover, partitions on one face of said body portion, article supports adjacent the base of said body portion cooperating with said partitions to provide passages for entry of said articles into compartments formed by adjacent partitions, said cover including a top, partitions on said top, complementary pivotal means on said body portion and the top partitions, spring means securing said complementary means in operable pivotal relationship, a front portion of said cover being adapted to close the fronts of said compartments and said passages, and ends on said cover cooperating with certain of the partitions of said body portion and said top to form additional compartments when said cover is in closed position.

2,422,052
METHOD OF MAKING COLLAPSIBLE TUBES
George W. Temple, Miami, Fla., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Original application July 5, 1941, Serial No. 401,072. Divided and this application May 29, 1944, Serial No. 537,818
4 Claims. (Cl. 29—148.2)

1. The method of making a collapsible tube having a neck of a given metal coated with a different metal comprising performing an extruding operation upon a slug of the given metal coated with said different metal to extrude a tube having a body and a neck with a comparatively thin cup-shaped projection extending beyond and covering the discharge opening of the neck, trimming off the end surface of the cup-shaped projection to expose the discharge opening and to form a substantially cylindrical thin wall surrounding said opening, rolling the wall downwardly to arrange the otherwise exposed edge of the wall against a surface of the tube neck, and rolling external threads by pressure into the outer surface of the neck while maintaining the coating unbroken.



2,422,053
ENTRY DRIVING MACHINE
Charles E. Tibbals, Bluefield, W. Va.
Application August 9, 1944, Serial No. 548,768
10 Claims. (Cl. 262—9)

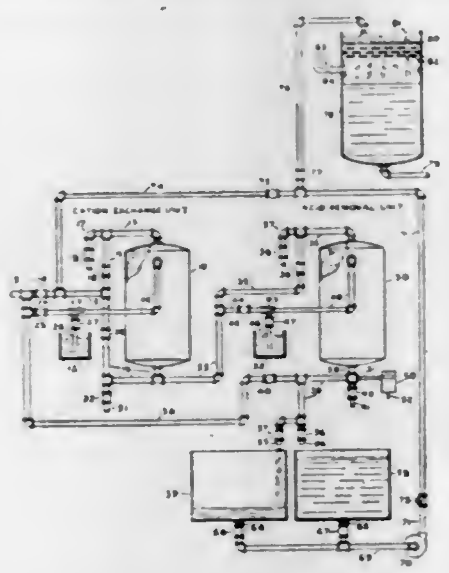


1. In an entry driving machine, a base adapted to rest upon the floor of a mine, a conveyor section slidable at its forward end on the base longitudinally of the entry, undercutters pivotally mounted on the base for horizontal oscillation at opposite sides of the forward end of said conveyor section, each undercutter including a horizontal plate movable adjacent the mine floor and having an arcuate forward edge provided with cutter bits, means operatively connecting the forward end of the conveyor section with adjacent sides of said undercutters for oscillating the latter when the conveyor section is longitudinally reciprocated, and means to adjustably telescopically connect the conveyor section to a longitudinally reciprocating shaking conveyor for actuation by the latter.

2,422,054
METHOD OF AND APPARATUS FOR TREATING AQUEOUS SOLUTION OF ELECTROLYTES
Howard L. Tiger, Hewlett, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
Application December 9, 1942, Serial No. 468,348
14 Claims. (Cl. 210—24)

1. A process of demineralizing an aqueous solution of electrolytes which comprises passing a predetermined substantial volume of said solution successively through cation exchange material

and acid removal material and then collecting said volume in a separate receptacle, thereafter re-passing said volume successively through said cation exchange material and said acid removal material and then collecting said volume in a second receptacle, determining the electric conductivity of said solution after it has been re-passed through said acid removal material, repeating said re-passing until the electric conductivity of said solution has dropped to a predetermined low value, and then discharging said volume to a point of use.



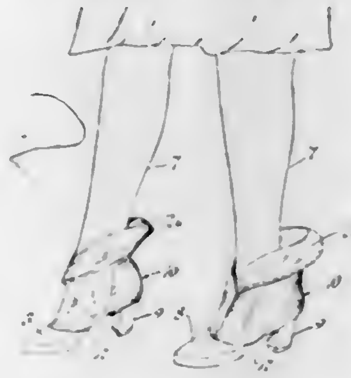
2,422,055

GAITER

Max A. Varon, Chicago, Ill., and Carl S. Malone, Owensboro, Ky.

Application April 20, 1945, Serial No. 589,316

1 Claim. (Cl. 36—2)



A gaiter comprising, an outer quarter and an inner quarter, each of said quarters including a heel portion, a gored portion adjacent thereto, a depending strap portion contiguous with the bottom edge of the said quarter, a second gored portion adjacent the said strap portion, and an arcuate portion interconnecting the said gored portions, the edge of the said heel portion and the adjacent portion of the said first-mentioned gored portion being suitably stitched together, the free ends of the said strap portion also being stitched to form an arch locating strap and an opening adapted to receive the heel of a shoe, and concealed snap fastening means secured to the said second-mentioned gored portions adapted to removably retain them in overlapping relationship, the said arcuate portion being adapted to be formed into an annularly-flared mud guard or protector of substantially semicircular cross-section extending outwardly and downwardly a substantial distance away from the said heel portion.

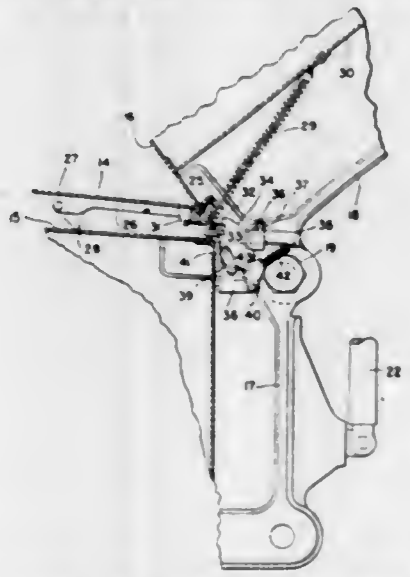
2,422,056

CLOSURE ACTUATING AND SECURING MECHANISM

John J. Vogt, Columbus, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application May 6, 1944, Serial No. 534,493

14 Claims. (Cl. 244—129)



1. Mechanism for actuating and securing a door which is carried by one of a pair of cooperating, pivotally-connected members and which is adapted to close an opening in the other of said members, said mechanism including a latch element which is carried by said other of said members and is movable between locking and release positions, and means carried by said door which is engageable with said latch element when said latch element is in said release position and when said first mentioned member is moved angularly in a predetermined direction with respect to the other of said members to move said latch element to said locking position, said latch element drawing said door closed as it is moved to such position.

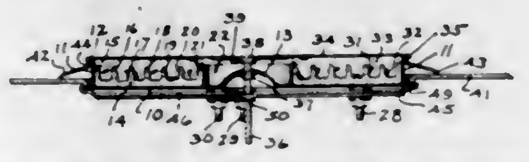
2,422,057

ELECTRIC HEATING UNIT

Carl J. Weinhardt, Indianapolis, Ind.

Application December 15, 1945, Serial No. 635,330

2 Claims. (Cl. 219—37)



1. For a stove having a heating element receiving hole in a top thereof, and a downturned flange forming the margin of said hole, a heating element for mounting across said hole, comprising a metallic receptacle having an upturned side wall; a grooved ceramic plate seated on the floor of said receptacle and having its circumferential edge substantially in contact with said wall, said plate having a central opening therethrough; an electrical resistance unit in the grooves of said plate; a ceramic filling over said plate embedding said unit; a cover plate intimately seated on said filling and extending beyond said ceramic plate; the wall of said receptacle being crimped together with a marginal edge portion of said cover plate to form a shoulder and seal therebetween; a supporting ring encircling said receptacle to have said shoulder rest on the ring; a bolt centrally extending from said cover plate through said opening and through said receptacle floor; a mounting bar having ends formed to engage the under side of said flange at diametrically opposed positions; said bolt passing through said bar to

draw it relatively toward said receptacle; said ring being formed to hold said receptacle in spaced relation above said bar.

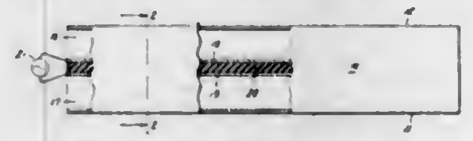
2,422,058

WAVE GUIDE SYSTEM

John R. Whinnery, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 16, 1943, Serial No. 498,778

9 Claims. (Cl. 178—44)



1. The combination in a wave guide of the metallic hollow-pipe type, of a pair of parallel metallic plates extending longitudinally of said guide, said plates having transverse members conductively connected respectively to opposite points of the inner wall of said guide to divide said wave guide into a plurality of compartments, and said plates being in spaced relation a substantial distance across said wave guide to form a narrow passageway connecting said compartments, whereby the effective electrical length of the metallic path presented to transversely propagating electromagnetic waves in said guide is substantially increased and the cut-off frequency of said guide is substantially reduced.

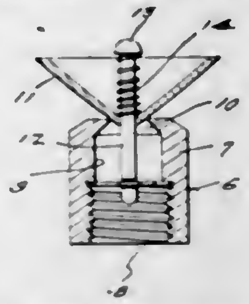
2,422,059

LAWN SPRINKLER

Fred B. Wilber, Kokomo, Ind.

Application December 14, 1943, Serial No. 514,267

2 Claims. (Cl. 299—130)



1. A sprinkler head comprising a water supply pipe, a cylindrical nozzle having a cylindrical axial bore in its upper portion and a frustoconical outlet opening tapering smaller upwardly from said bore to the top of the nozzle, said nozzle further having a threaded counterbore in its lower portion and being screwed upon said water pipe, said counterbore defining an internal annular shoulder at the junction thereof with said bore, an inverted hollow conical spreader disposed above the nozzle and having an opening in its apex, a removable elongated retaining key disposed diametrically across the counterbore with its ends engaged between the upper end of the water supply pipe and said shoulder, a retaining pin detachably connected at its lower end to said key intermediate the ends of the latter and projecting upwardly from said key through the outlet opening of the nozzle and the opening of the spreader, said pin having a head on its upper end, said spreader being slidable on said pin below said head, and a helical compression spring on the pin between the head of the latter and the bottom of the spreader to yieldingly force the spreader downwardly and normally seat the apex portion of the latter in the top of the nozzle, said spreader being adapted to be unseated against the action of said spring by the pressure of water issuing from said nozzle.

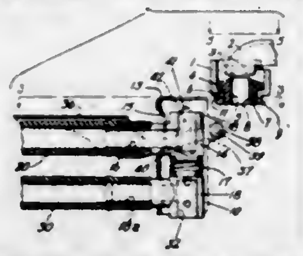
2,422,060

FAUCET ATTACHMENT

Gaylord H. Wotring, Fairfield, Conn., assignor to General Electric Company, a corporation of New York

Application February 24, 1945, Serial No. 579,541

6 Claims. (Cl. 285—90)



1. A faucet attachment for a faucet having a discharge end comprising an adapter body, means for attaching said adapter body to said discharge end, a washer on said body movable with reference thereto from a first position wherein it is out of engagement with said discharge end to a second position wherein it is in engagement therewith so as to seal the peripheral edge thereof and having a conduit therethrough to receive and pass the liquid that is discharged from said end, a separate support extending from said body, said body and support having complementary parts interfitting normally to prevent their separation, a spring acting on said washer and on said support to force said washer from said first to said second position and thereby into engagement with said faucet end and also to force said interfitting parts together, and means for acting on said spring to unload it from said washer.

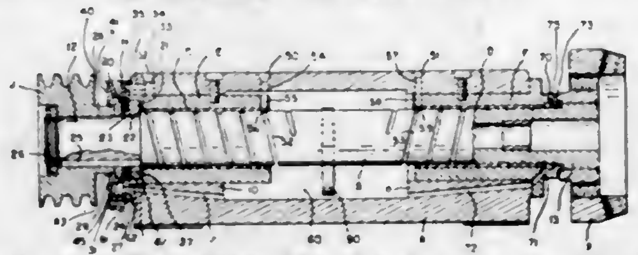
2,422,061

SPINDLE STRUCTURE

George F. Yager, Toledo, Ohio, assignor to Bunting Brass & Bronze Company, Toledo, Ohio, a corporation of Ohio

Application December 27, 1943, Serial No. 515,776

11 Claims. (Cl. 308—172)



1. A spindle assembly having a housing, a spindle rotatable in said housing and having a reduced endwise extension and a shoulder at the inner end of said extension, spaced washers on said extension, one engaging said shoulder, an abutment for the other of said washers on said extension, a spacing washer for said spaced washers on said extension, a thrust washer encircling the spacing washer between said spaced washers and held against turning movement relative to said housing, a single key extending lengthwise of the extension and operable to hold the spaced and spacing washers aforesaid against turning movement relative to said extension, and means on the extension holding said washers in assembled relation with said key.

2,422,062

WATER CONDITIONING MACHINE FOR AN OIL WELL OPERATED BY WATER FLOWING FROM SAID WELL FOR FEEDING REAGENT TO THE WATER

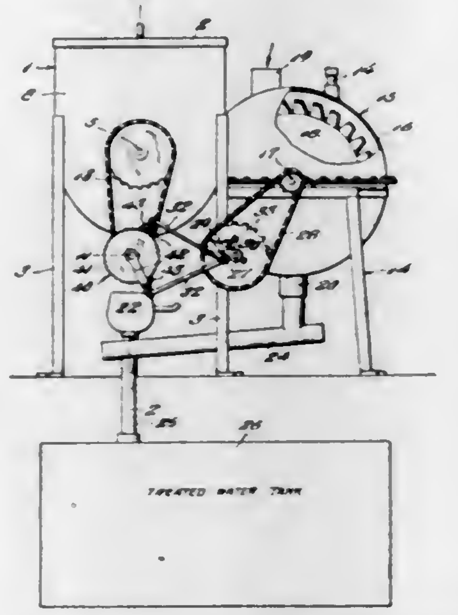
Charles R. Yard, Nowata, Okla.

Application August 22, 1944, Serial No. 550,592

3 Claims. (Cl. 210—16)

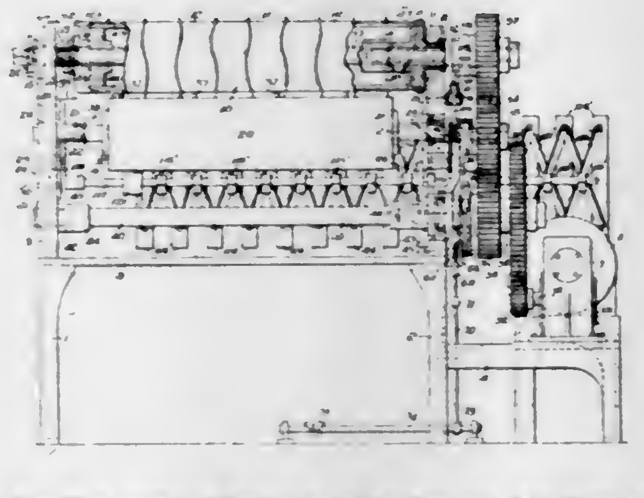
1. A water treating machine comprising a hopper for the reception of a chemical, a conduit

mounted beneath said hopper and communicating therewith for receiving the chemical therefrom, a mixing bowl mounted beneath said conduit for receiving the chemical therefrom, a helical conveyor in the conduit for discharging the chemical into the mixing bowl, a rotatable agitator for the chemical operable in the hopper, chain and sprocket means operatively connecting the conveyor to said agitator, a wheel operable by the water to be treated, a second conduit for receiving the water from the wheel, said second conduit communicating with said mixing bowl, a third conduit for supplying water to said mixing bowl and entering said bowl in substantial tangential position to impart a whirling motion to the water, and drive means including a plurality of pawls movable by said wheel and a ratchet associated with said conveyor connecting said water wheel and said conveyor.



2,422,063
CUTTING SOLES AND THE LIKE

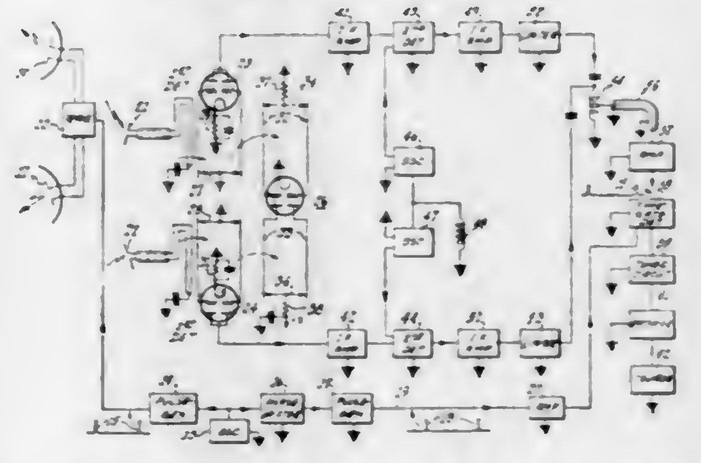
Peter Yukob, Lynn, Mass., assignor to Kistler, Lesh & Company, Incorporated, Boston, Mass., a corporation of Massachusetts
Application December 29, 1944, Serial No. 570,411
26 Claims. (Cl. 164—28)



1. In the manufacture of soles of leather and other material of comparable thickness and cut-resistance, that improved process which includes the steps of presenting and advancing sidewise along a given work plane a work strip of the sole-forming material, subjecting the strip to a roll cutting action simultaneously along a plurality of sinuous lines in the general direction of its sidewise advance, and automatically correlating the sinuosity of the cut-lines to both the roll cutting action and the planar advance of the work strip thereby to afford accurately predetermined shapes and dimensions of cut soles.

2,422,064
GROUND SPEED INDICATOR

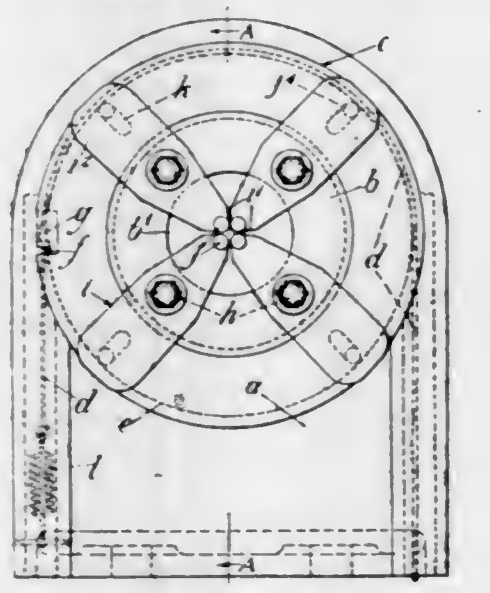
Earl I. Anderson, Manhasset, and Allen Barco, Jackson Heights, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application October 26, 1943, Serial No. 507,740
5 Claims. (Cl. 250—1.56)



1. In a system for determining the speed of an object with respect to a reflecting surface, means for radiating pulses of radio energy from said object in two directions, means for receiving in two separate channels the pulses received from said two directions after reflection from said surface, a detector in each of said channels, an oscillator comprising a vacuum tube having a tuned grid circuit and a tuned anode circuit which are coupled to said detectors in the two channels, respectively, for producing intermediate-frequency signals in said two channels, and means for mixing said two intermediate frequency signals to obtain their beat frequency.

2,422,065
DEVICE FOR STRETCHING FLEXIBLE MEMBERS

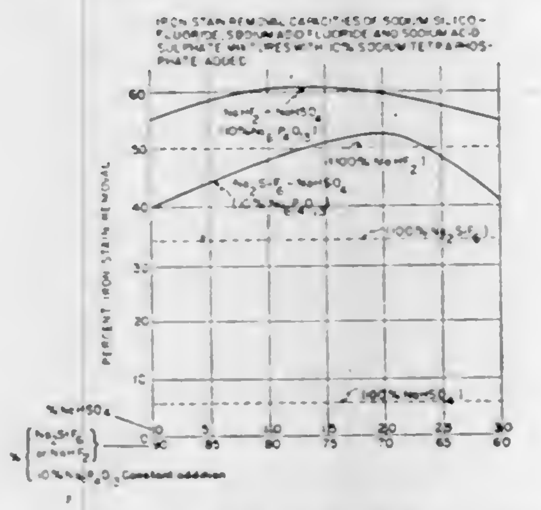
Anthony Cesare Anselmi, Oxford, England, assignor to Hellermann Electric Limited, Oxford, England
Application April 20, 1944, Serial No. 531,976
In Great Britain December 29, 1943
1 Claim. (Cl. 29—235)



A device for stretching flexible members, comprising in combination two relatively rotating members, at least three levers interconnecting the latter, each carrying a tube stretching pin, all of which pins project at right angles to the plane of rotation of the said relatively rotating members and lying close together in the position in which they receive the tube to be stretched and means for relatively rotating the said rotating members, whereby the relative rotation of the latter causes the levers gradually to separate the stretching pins to the required extent parallel to each other and thereby stretch the tube, in which the two relatively rotating members consist of an inner stationary ring and an outer rotating ring mounted on and concentrically surrounding the stationary ring and the interconnecting levers being two-armed levers which are pivoted to the inner stationary ring and have secured therein a rod bent at two points at right angles, the part between the bends lying within the lever and the part thereon in front of the one bend forming the actual stretching pin whilst the part lying behind the other bend forms a pin which engages in a slot provided in the movable ring.

2,422,066
LAUNDRY SOURING COMPOSITION

Leslie R. Bacon, Wyandotte, Mich., assignor, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan
Application July 2, 1941, Serial No. 400,873
4 Claims. (Cl. 252—100)

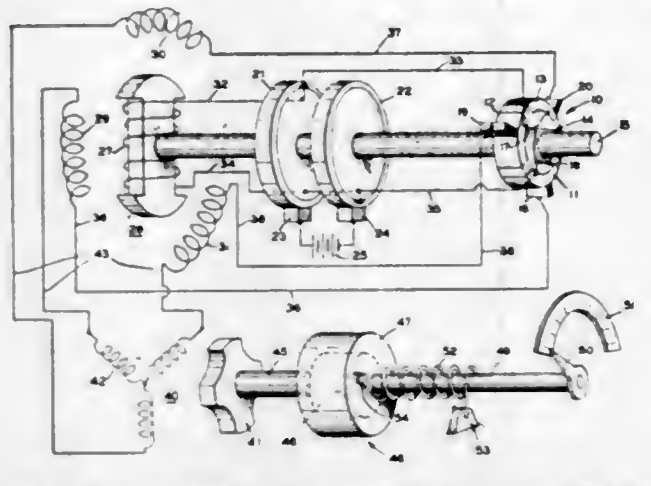


1. A laundry souring composition, comprising by weight approximately 10% sodium tetraphosphate, not over 30% sodium bisulphate and 60 to 90% sodium silicofluoride.

2,422,067
REMOTE TACHOMETER DRIVE

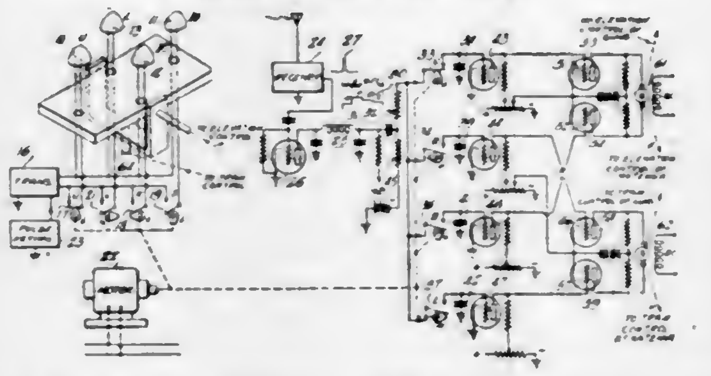
Paul F. Bechberger, Tenafly, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application December 31, 1943, Serial No. 516,444
4 Claims. (Cl. 172—274)

1. A remote drive means for a polyphase motor and an indicator element associated therewith, comprising a source of direct current, a plurality of contact members connected to said source, a field winding connected in parallel with said contact members, means adapted to rotate said contact members and said windings simultaneously, and a plurality of stator coils in series with each of said contact members, whereby rotation of said contact members at low speed provides voltage for producing a driving torque to said motor, independently of said winding, directly through said stator coils, and whereby said stator coils have torque producing voltage induced therein at high speeds to drive said motor, which merges with and increases the voltage produced by said contact members.



2,422,068
PULSE ECHO CONTROL SYSTEM

Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 1, 1942, Serial No. 437,143
8 Claims. (Cl. 250—1.54)



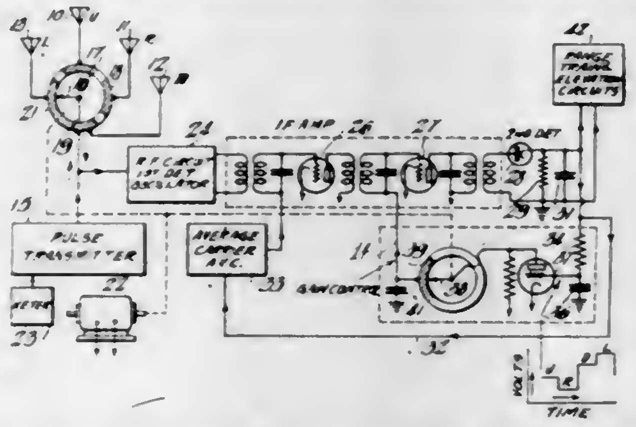
1. In a servo system, means for transmitting pulses from an assembly of directive radiation means for radiating successively overlapping radiation patterns, means for receiving said pulses after reflection from an echo source, said radiation patterns having characteristics such that the received signal differs in strength for the successive radiations in accordance with the displacement of the assembly of the radiation means with respect to the source of the echoes, a plurality of capacitors, switching means synchronized with the transmitting and receiving means for charging each capacitor in accordance with the received signal during the interval of transmission by radiation in each of said patterns, respectively, and utilizing means for driving a motor backward or forward in accordance with the difference in the voltages across said capacitors, and means whereby said motor turns said assembly of radiators toward said source of echoes.

2,422,069
AUTOMATIC GAIN CONTROL FOR PULSE-ECHO SYSTEMS

Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1942, Serial No. 470,689
5 Claims. (Cl. 250—1.72)

2. An object locating system comprising a transmitter for the transmission of radio waves to said object and a receiver for the reception of said radio waves after reflection from said ob-

ject, an assembly of directive antennas having a pair of radiation patterns, means for switching said antennas successively to said system to radiate said waves in one radiation pattern during one switching interval and to radiate said waves in the other radiation pattern during another switching interval, said receiver including an amplifier for amplifying said radio waves, means for obtaining a signal having voltage levels which are a measure of the amplitudes of the reflected waves which are received during said switching intervals, respectively, an automatic gain control circuit including a capacitor for storing energy in accordance with one of said voltage levels, switching means operated in synchronism with said antenna switching for applying said signal to said storage capacitor only while it is at said one voltage level, and circuit connections for applying the voltage of said storage capacitor to said amplifier to control its gain.

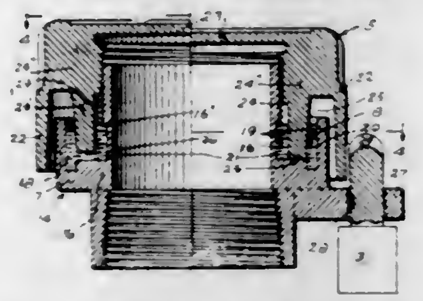


2,422,070
LIQUID SEALED PIPE CAP

Joseph G. Bettencourt, Berkeley, Calif.

Application November 28, 1941, Serial No. 420,800

4 Claims. (Cl. 220—45)



1. In a capping means for an upright pipe having its upper end subject to immersion in water, means on the pipe providing an encircling annular reservoir having an open top and containing a liquid sealing medium, a cap enclosing said reservoir, said cap having an imperforate top and an imperforate and continuous depending side spaced radially from the reservoir, and an annular divisional wall depending from the cap top and having an upper portion threadedly engaging the inner reservoir wall above the reservoir for the direct support of the cap on said wall and having a lower portion extending into the sealing medium in the reservoir in laterally spaced relation from the reservoir sides.

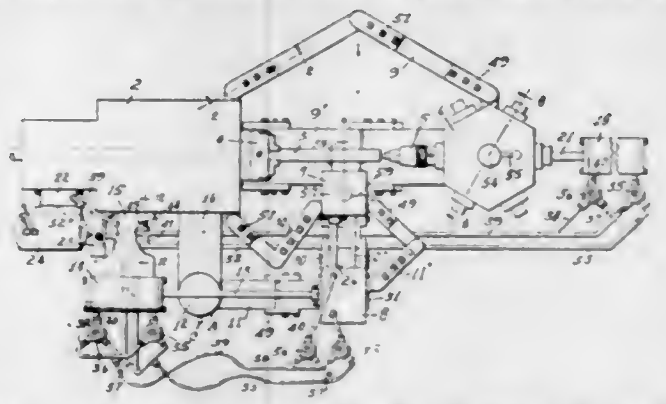
2,422,071
TURNING LATHE

John L. Betzen, Wichita, Kans.

Application July 8, 1944, Serial No. 544,019

1 Claim. (Cl. 29—42)

In turning lathes comprising in combination a pedestal having a gear housing on its upper extremity, and a chuck journalled in the housing, a turret and tail stock in axial alignment with the chuck, a motor actuated hydraulic pump, and an arm carried by the pedestal, said arm being positioned below the turning axis of the chuck and extending outward at right angle therefrom, a cutting tool carriage positioned in working relation to the turning axis of the chuck, and a leaf hinge to carry the cutting tool carriage in its movement toward and from the turning axis, one leaf of the hinge being rockably secured to the pedestal, the other leaf being rockably secured to one vertical side of the said cutting tool carriage, a power transmitter for the cutting tool carriage outwardly positioned and aligned therewith on a horizontal plain, said power transmitter comprising a cylinder and piston rod, a gear rack and registering means for the gear, said rack and piston rod being secured to the cutting tool carriage, the rod to move the same toward and from the said turning axis of the chuck, a pair of leaf hinges rockably secured to their respective lower and vertical sides of the power transmitter and cutting tool carriage to maintain horizontal alignment thereof as the latter is moved toward and from said turning axis, the hydraulic pump as actuating means for the piston rod while the rack's pinion will register a degree of movement of the cutting tool carriage, a leaf hinge having one of its ends secured to the under side of the power transmitter in such a way as to rock on a horizontal plain, while its other end is rockably carried on the outer end of said arm for vertical movement and also for a degree of movement on a horizontal plain selectively, and means to secure the same rigid against further movement.

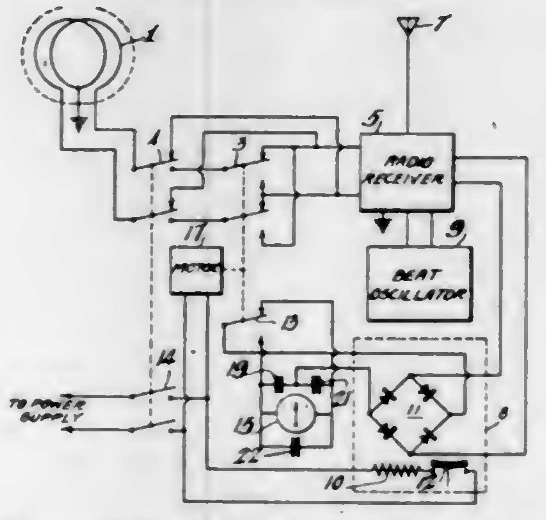


2,422,072
RADIO COMPASS

Edward D. Blodgett, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 15, 1943, Serial No. 475,858

8 Claims. (Cl. 250—11)



1. A radio direction finder converter of the left-right indicator type comprising a loop antenna,

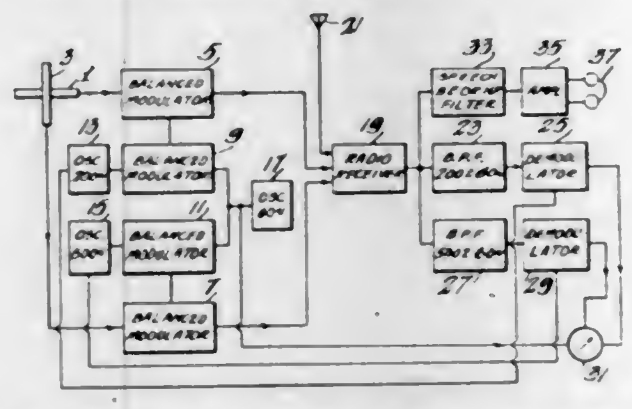
a radio receiver including audio amplifier means having a response characteristic extending over a predetermined frequency range, with a predetermined low cutoff frequency, a reversing switch connected to said loop and to the input circuit of said radio receiver, a beat frequency oscillator connected to said receiver, a rectifier connected to the output circuit of said receiver, a second reversing switch connected to the output circuit of said rectifier, an indicator connected to said second switch and a motor arranged to operate said switches in synchronism at a frequency lower than said cutoff frequency.

2,422,073
RADIO DIRECTION FINDER

Donald S. Bond, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application July 30, 1942, Serial No. 452,825

5 Claims. (Cl. 250—11)



1. A radio direction finder comprising orthogonally related directive antennas, three local oscillators, modulator means arranged to combine the outputs of one pair of said oscillators, modulator means arranged to modulate the output of one of said antennas with the combined output of said pair of oscillators, a second modulator means arranged to modulate the output of the other of said antennas with the combined outputs of another pair of said oscillators, a non-directive antenna, means for combining the modulated outputs of said directive antennas with the output of said non-directive antenna, a radio receiver connected to respond to the last mentioned combined outputs, filter means arranged to separate the different modulation components in the output of said receiver, demodulators connected to convert said modulation components to alternating voltages having amplitudes proportional respectively to the amplitudes of the outputs of said directive antennas and a frequency equal to that of one of said local oscillators, and indicator means responsive to said alternating voltages and to the output of said last mentioned local oscillator.

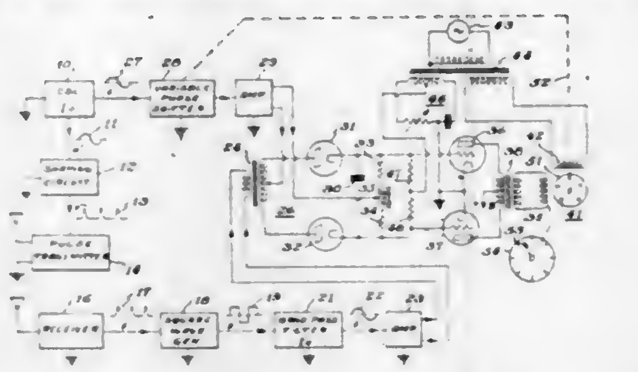
2,422,074
RADIO PULSE TRANSMISSION SYSTEM

Donald S. Bond, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application September 25, 1942, Serial No. 459,621

5 Claims. (Cl. 250—1.66)

1. The method of operating a pulse-echo system which comprises transmitting pulses of energy to a reflecting object, receiving said pulses after reflection from said object, converting said received pulses into a sine wave current, producing a phase reference sine wave current at the transmitter, mixing the two sine wave currents and producing a control curent that is a measure of their phase difference, and shifting the phase of the two sine wave currents with respect to each other in accordance with the



value of said control signal to bring the amount of said phase shift to a predetermined value whereby said amount of phase shift is a measure of the distance to said reflecting object.

2,422,075
STABILIZED LUBRICATING EMULSIONS

Malcolm D. Bray, Fishkill, N. Y., assignor to The Texas Company, New York 17, N. Y., a corporation of Delaware

No Drawing. Application August 31, 1944, Serial No. 552,203

7 Claims. (Cl. 252—49.5)

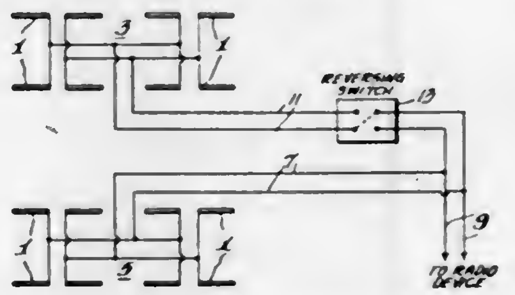
1. A lubricating emulsion comprising an emulsion of mineral oil-in-water, a guanidine salt of a soap-forming saturated fatty acid, and an alkylolamine salt of an aliphatic monocarboxylic acid containing at least 10 carbon atoms, said alkylolamine salt being present in amounts sufficient to stabilize said emulsion at elevated temperatures.

2,422,076
ANTENNA SYSTEM

George H. Brown, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

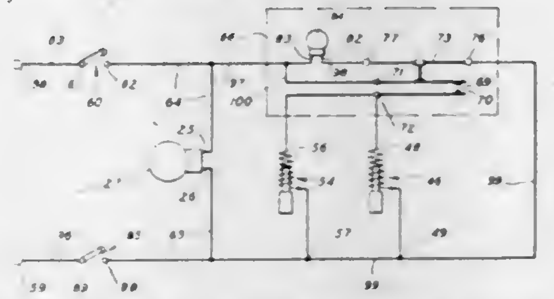
Application July 28, 1943, Serial No. 496,426

2 Claims. (Cl. 250—11)



1. In a radio aircraft locator system wherein signals are transmitted from a ground station to an aircraft, and received at said ground station after reflection by said craft, the method of filling gaps in the transmission of signals between said ground station and said craft caused by destructive interference between directly transmitted signals and signals reflected from the surface of the earth, comprising the steps of radiating and receiving energy at said ground station at a point a predetermined height above the surface of the earth, simultaneously radiating and receiving energy at said ground station at a second point at a different height, and reversing the phase of the energy transmitted and received at one of said points upon the occurrence of a gap in the transmission between said ground station and said craft.

2,422,077
CAMERA SHUTTER SYSTEM
Gustav Bucky, New York, N. Y.
Application September 27, 1944, Serial No. 555,948
9 Claims. (Cl. 240—2)

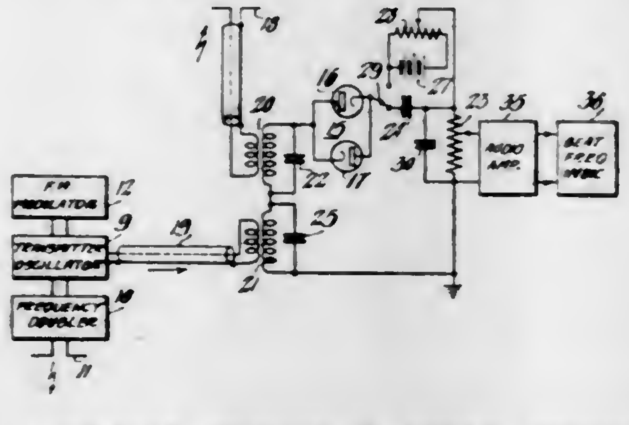


2. In an optical device including an objective shutter, an electric lamp, and a lamp shutter, the combination of first electric means to operate said objective shutter, second electric means to actuate said lamp shutter, a switch connected to admit current to said lamp and both said first and said second means, and a current-delaying means responsive to the intensity of a current flowing therethrough and arranged between said switch and said first and second means so as to cause a delay of the operation of the shutters with respect to the energization of said lamp.

2,422,078
TREATMENT OF CELLULOSIC FIBRES
Howard M. Buckwalter, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 4, 1944, Serial No. 543,487
3 Claims. (Cl. 117—168)

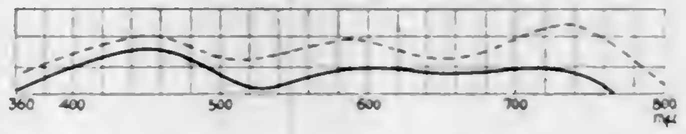
1. A method of improving the tensile strength of naturally-occurring cellulosic fibres which comprises briefly treating the yarns or cords thereof having substantially their natural composition and structure, with an aqueous solution comprising an alkali-metal salt of acids of "run" native congo copal resin.

2,422,079
FREQUENCY MODULATED ALTIMETER OR DISTANCE INDICATOR
Wendell L. Carlson and Vernon D. Landon, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 21, 1942, Serial No. 466,402
12 Claims. (Cl. 250—1.68)

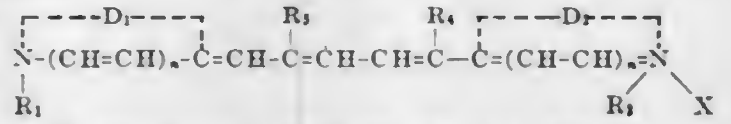


1. A distance determining system comprising means for transmitting to a reflecting object a radio carrier wave which is cyclically frequency modulated, a detector, means for receiving the signal reflected from said object and for applying it to said detector, means for also applying to said detector a mixing signal that is obtained directly from said transmitting means and which has a frequency equal to one-half the frequency of the frequency modulated wave that is transmitted to said object whereby the detector output includes a beat frequency signal which is a measure of the distance from said transmitting means to said object and whereby any amplitude modulation that may be present is substantially balanced out.

2,422,080
PHOTOGRAPHIC EMULSIONS CONTAINING SUPERSENSITIZING DYE COMBINATIONS
Ronald Bernard Collins and Harold Owen Dickinson, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company
Application December 6, 1944, Serial No. 566,822
In Great Britain December 8, 1943
7 Claims. (Cl. 95—7)

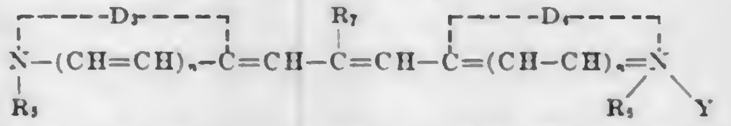


1. A photographic silver halide emulsion containing both a sensitising dyestuff of the formula:



$$\overbrace{\underset{R_1}{N}-(CH=CH)_n-C}^{D_1}=CH-\overset{R_2}{C}=CH-CH=\overset{R_4}{C}-\overbrace{C=(CH-CH)_n=\underset{R_3\quad X}{N}}^{D_2}$$

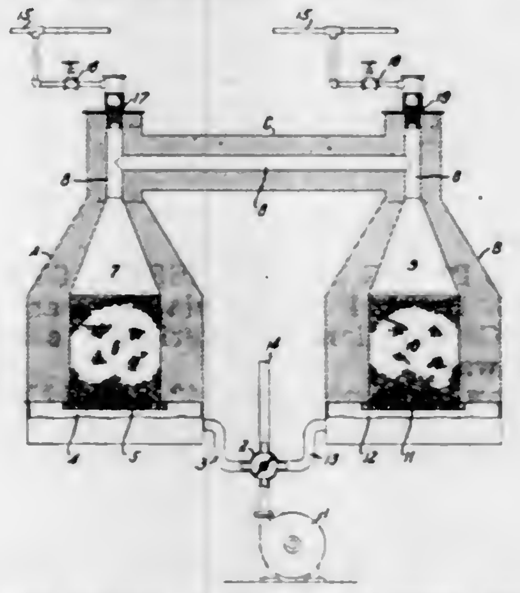
and a sensitising dyestuff of the formula:



$$\overbrace{\underset{R_5}{N}-(CH=CH)_n-C}^{D_3}=CH-\overset{R_7}{C}=CH-\overbrace{C=(CH-CH)_n=\underset{R_6\quad Y}{N}}^{D_4}$$

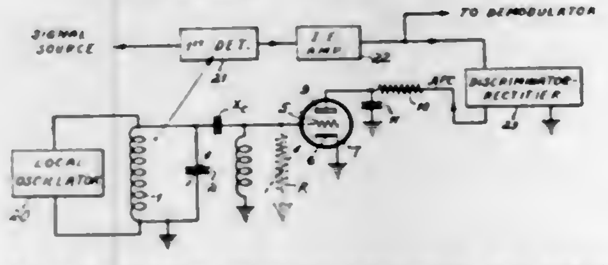
where R_1, R_2, R_3, R_5 and R_6 are each selected from the group consisting of alkyl and aralkyl groups, R_4 and R_7 are each selected from the group consisting of the hydrogen atom and alkyl and aralkyl groups, D_1, D_2, D_3 and D_4 are residues of heterocyclic nitrogen nuclei of the type common in cyanine dyes, and X and Y are acid radicles and n is a number taken from the group consisting of 0 and 1.

2,422,081
PROCESS OF PRODUCING NITRIC OXIDE
Frederick G. Cottrell, Washington, D. C., assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin
Application October 31, 1942, Serial No. 464,072
16 Claims. (Cl. 23—163)



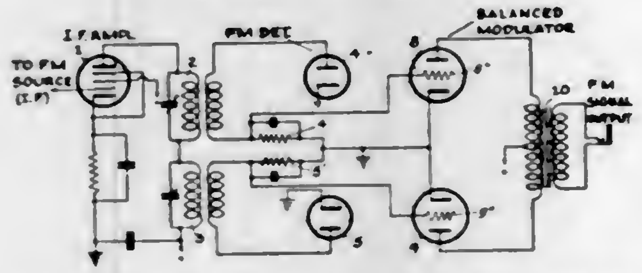
1. In the process of producing nitric oxide from gaseous mixtures of nitrogen and oxygen which involves heating such nitrogen-oxygen mixture to a high temperature at which nitrogen and oxygen react to form nitric oxide and thereafter cooling the resulting gaseous reaction mixture, the improvements which consist in cooling the highly heated gaseous reaction mixture from reaction temperature to a temperature at which the rate of decomposition of nitric oxide is slower than 10% per second of the amount of NO present in the gas mixture at top temperature in a time interval of not to exceed 0.1 second by forcing the highly heated gaseous reaction mixture through interstices through a gas-traversable bed of refractory bodies having average diameters not exceeding 2 inches, a part of which bed is at a temperature at which nitric oxide is stable, the refractory bodies of said bed being so selected as to shape, size and composition as to give tortuous interstitial channels of such small mean hydraulic radius that turbulent flow and quick cooling of the gas passing therethrough are provided and decomposition of the nitric oxide content of the gaseous reaction mixture to more than a minor extent is prevented, and recovering nitric oxide so produced.

2,422,082
REACTANCE CONTROL CIRCUIT
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 3, 1943, Serial No. 477,795
8 Claims. (Cl. 250—40)



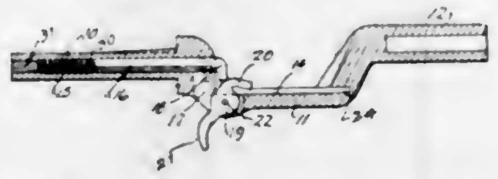
1. As a variable resistor element, an electronic device having at least a cathode, control grid and an anode, means establishing the anode and cathode at ground potential for high frequency currents, means establishing the grid and cathode at a common point of direct current potential, terminals for utilizing the internal grid-to-cathode impedance as solely a resistor element, a source of anode voltage and means connecting said source to said anode for adjusting the anode potential over a wide range of voltages thereby to vary said internal impedance in value.

2,422,083
FREQUENCY MODULATION RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application March 20, 1942, Serial No. 435,467. Divided and this application January 5, 1944, Serial No. 516,899
3 Claims. (Cl. 250—27)



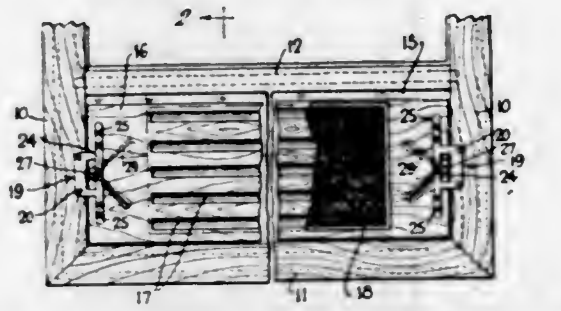
1. In combination with a source of modulated carrier waves wherein the waves have a modulation component of a desired character and a second modulation component of a different character, means for detecting the waves to provide modulation voltage of the desired character and additional modulation voltage of the different character, a pair of electron discharge devices, each device having an input circuit and an output circuit, means to apply said desired modulation voltage to both said input circuits in one phase relation, means to apply said different modulation voltage to said input circuits in a phase relation which is substantially different from the one phase relation, and said applying means consisting of common connections adapted additionally to apply negative gain control biases to said pair of devices thereby to reduce the gain of the latter in response to carrier wave amplitude increase, and means to connect said output circuits in phase relation to balance out said modulation of different character.

2,422,084
FISHING ROD HANDLE
Frank H. C. Dorner, Galt, Ontario, Canada, assignor to Whitehall Machine and Tools Limited, Galt, Ontario, Canada, a corporation of Ontario
Application August 4, 1945, Serial No. 608,886
6 Claims. (Cl. 43—22)



1. A fishing rod handle comprising a hand grip portion, a rod receiving portion and a reel receiving portion having a surface adapted to receive a reel base between the hand grip and rod receiving portions, a member pivotally attached to the rear end of the reel receiving portion and having extensions one of which forms a clamping member and the other a finger grip member, and spring urged means mounted in the hand grip portion normally urging said clamping member in a forwardly extending position.

2,422,085
WINDOW VENTILATOR
Harold A. Etling, Marshallville, Ohio, assignor to Weather-Seal, Inc., Barberton, Ohio, a corporation of Ohio
Application March 30, 1945, Serial No. 585,733
5 Claims. (Cl. 98—97)

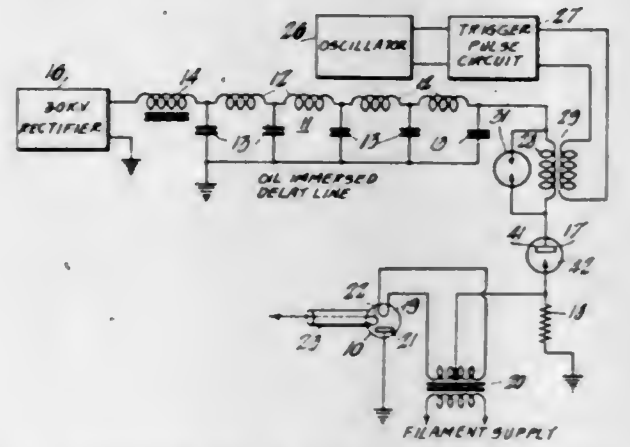


1. In a ventilator construction for windows and doors, a fixed panel having longitudinally, spaced openings therein, a vertically movable panel of less width than said fixed panel and having similar openings therein, means for moving the movable panel vertically to bring the openings therein into and out of complete and partial registry with the openings in said fixed panel, and means for holding the movable panel in selected posi-

tions, said first named means comprising a rack and pinion arrangement on each side of said movable panel, and said last named means comprising brackets having a portion frictionally engaging said movable panel on each side thereof, said brackets also having portions that form the racks for said pinions.

2,422,086
PULSE PRODUCING APPARATUS

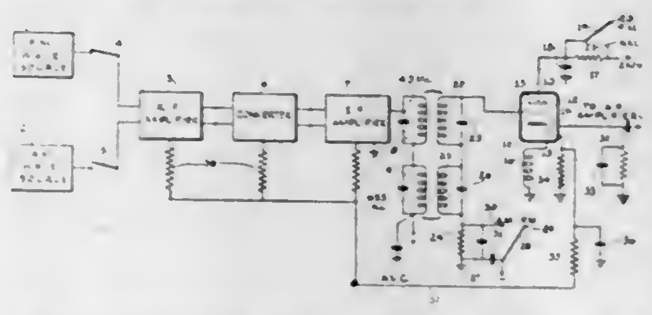
John Evans, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 20, 1943, Serial No. 515,057
,7 Claims. (Cl. 171—97)



6. In combination, a pulse-forming delay line, means for charging said line, and means for discharging said line at a periodic rate, said last means comprising a point-to-plane spark gap, an inductance coil and a load circuit all connected in series with each other and in series with said delay line, means for applying voltage pulses to said coil for over-voltaging said main spark gap with the pulses occurring at said periodic rate, and short-circuiting means connected across said coil and adjusted to short said coil in response to the breakdown of the main spark gap, said spark gap being adjusted to maintain a cold discharge from the point electrode during the periods intermediate successive discharges of said line.

2,422,087
CARRIER WAVE DETECTOR CIRCUIT

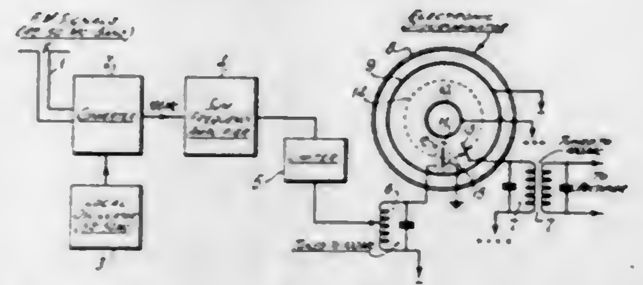
Frederick C. Everett, Brecksville, Ohio, assignor to Radio Corporation of America, a corporation of Delaware
Application January 27, 1944, Serial No. 519,841
9 Claims. (Cl. 250—27)



1. In combination with a tube having at least a cathode, input electrode and output anode, a frequency modulated carrier wave input circuit connected between the input electrode and ground, an inductive impedance adapted to be traversed by space current of the tube connected from cathode to ground, said impedance consisting of an unbypassed inductance whose natural frequency is of a magnitude such that it acts as a frequency discriminator, at least one diode connected to include said impedance as a signal input element, and means in circuit with the inductance and diode for developing modulation voltage from amplitude modulated carrier current rectified by the diode.

2,422,088
ELECTRONIC DISCRIMINATOR

Warren R. Ferris, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 3, 1944, Serial No. 529,281
11 Claims. (Cl. 250—27)



1. In a frequency discriminating system, means for providing a pair of independent electron beams, means for producing a predetermined relative time delay between said beams, an electron collector electrode common to said beams, means adapted to vary the intensity of said beams in response to frequency variations of alternating voltage relative to a predetermined mean frequency, an output circuit connected to said collector electrode tuned to said mean frequency, and said relative time delay being so chosen that a net current flow of predetermined amplitude occurs in said output circuit at said mean frequency whereas the net current flow varies in magnitude in response to said frequency varying voltage.

2,422,089
MANUFACTURE OF CHLORINATED QUINONES

Harry H. Fletcher, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 13, 1944, Serial No. 544,821
5 Claims. (Cl. 260—396)

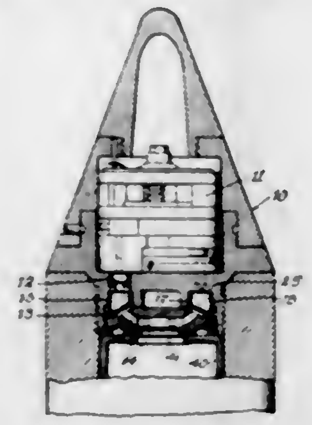
1. A method of preparing chlorinated quinones from amino-substituted benzene and alpha-amino-substituted naphthalene compounds which comprises chlorinating the said aromatic compound by passing a gas consisting of elemental chlorine gas into an aqueous acid solution containing said compound, the acid component of said solution being selected from the class consisting of sulfuric acid, and a mix of sulfuric acid with a saturated fatty acid containing from 1 to 4 carbon atoms.

2,422,090
POWDER CONTAINER

Billings S. Fuess, West Orange, N. J.
Application May 28, 1943, Serial No. 488,835
2 Claims. (Cl. 102—70)

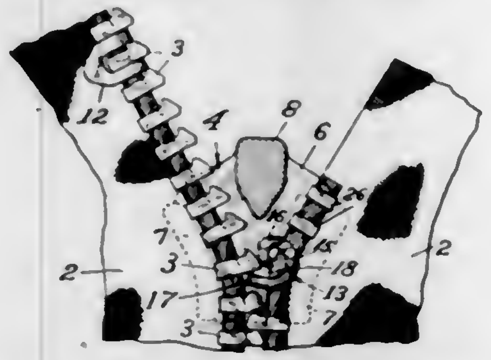
1. In a high explosive projectile having a percussion cap chamber situated at the forward end of the projectile, an annular primer charge chamber located immediately behind said percussion cap chamber and communicating directly therewith, and a main powder chamber located a short distance behind said primer charge chamber and communicating therewith through

spaced channels, a container for the primer charge, said container comprising an annular, channel-shaped member of a size and shape corresponding to the size and shape of the annular primer charge chamber, said channel-shaped member being open at the top and being provided with a readily frangible cover affixed to its said open top and closing its said annular channel, and a plurality of grooves formed in the bottom of said channel-shaped member defining spaced areas between them which correspond to the spacing of the channels leading to the main powder chamber of the projectile, said spaced areas being readily broken away from the rest of the channel-shaped member along the grooves formed therein when the primer charge explodes.



2,422,091
TOP STOP FOR SLIDE FASTENERS

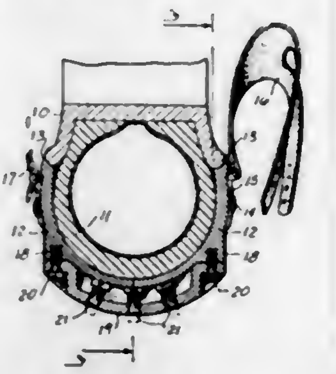
Clarence D. Gould, Bronx, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application September 2, 1944, Serial No. 552,491
10 Claims. (Cl. 24—205)



1. In a slide fastener of the class described, including a pair of stringers having a series of spaced interlocking fastener elements along the opposed edges thereof, and a channeled slider movable along said elements for engaging and disengaging the same, a top stop member arranged along the edge of one of the stringers directly opposite the fastener elements of the opposed stringer and consisting of an inherently resilient body member having a recess in the outer side thereof directly opposite the fastener elements of the opposed stringer and with which one of the fastener elements on said opposed stringer is adapted to cooperate, the combined over-all width of said top stop together with the opposed fastener elements being slightly greater than the width of the channel of said slider so as to limit ordinary movement of the slider in a direction to close the fastener when said top stop is disposed in said channel, said top stop adapted to be depressed by said slider when the same is subjected to an excessive pulling force with the fastener element directly opposite said top stop being forced wedgingly into said recess against the resilient action of said top stop thereby permitting the slider to pass over the same to a position thereabove, whereby the fastener elements may be disengaged and the fastener quickly opened by a tearing action.

2,422,092
TRACTION SHOE

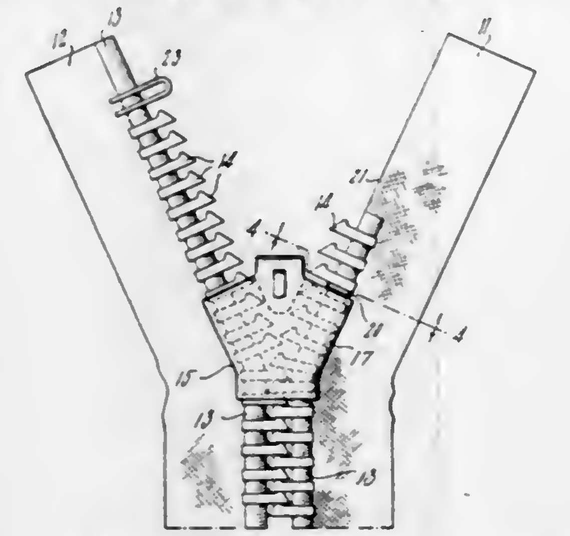
Wilks Booth Gregg, Denver, Colo.
Application February 21, 1947, Serial No. 729,973
6 Claims. (Cl. 152—229)



1. A traction shoe for removable and replaceable association with a tired automotive vehicle wheel, comprising a rigid body member embracingly engageable over and about an arcuate segment of a wheel-mounted tire, selectively engageable and releaseable means for securing said body member in mounted relation with the tire, a shallow, closed chamber on the tread portion of said member, and a plurality of studs accommodated in said chamber in centrifugally-extensible, pressure-retractable, freely-slidable relation through and radially of said chamber exterior wall.

2,422,093
SLIDE FASTENER

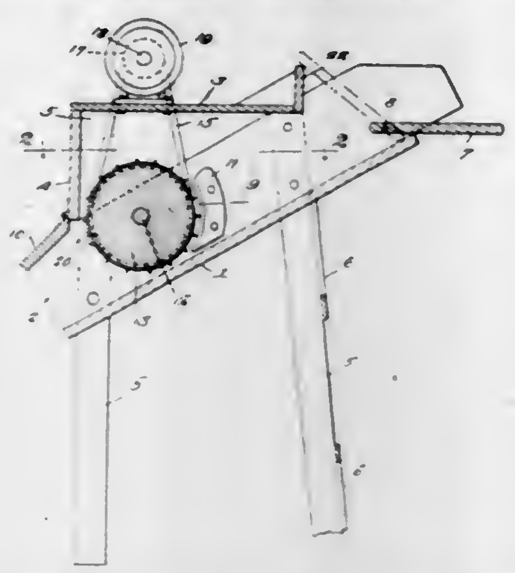
John B. Griffin, Oakville, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 11, 1945, Serial No. 587,763
7 Claims. (Cl. 24—205)



2. A slide fastener comprising in combination a pair of stringers having opposed rows of interlocking elements, a slider having a pair of spaced wings engaging the rows of elements by progressively interlocking the elements to close the fastener, a top stop normally adapted to prevent removal of the slider from the stringers when the fastener is closed, said top stop comprising an open resilient ring secured to one stringer in the path of the slider, the normal diameter of the ring being greater than the space between the wings, and the opening in the ring permitting the ring to be compressed to a diameter less than the space between the wings.

2,422,094
ICE CHIPPING MACHINE

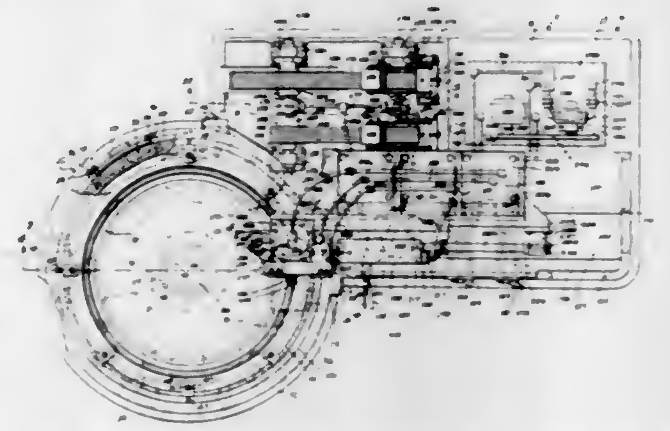
Albert T. Hagaman, Gauley Bridge, W. Va., assignor of one-third to Guy D. Brown, Gauley Bridge, W. Va.
Application June 1, 1945, Serial No. 597,068
2 Claims. (Cl. 241—221)



2. An ice chipping machine including an inclined trough having an upper inlet and a lower outlet, a transverse cylinder in the trough, a protecting sheathing extending around the cylinder, spirally arranged series of picks extending through the sheathing and into the cylinder, all of the picks being pitched in the direction of rotation of the cylinder, said cylinder having an annular groove in one end, and said trough constituting means for feeding ice by gravity into the paths of the picks, said picks being positioned to successively move into position close to the bottom of the trough, a motor, a belt connection between the motor and the cylinder, said belt connection being seated in the groove, and arcuate deflecting guards in the side portions of the trough and lapping those portions of the cylinder nearest the inlet, said guards constituting ice deflectors and one of the guards constituting a shield for the belt connection.

2,422,095
VERTICAL CUTTING MACHINE

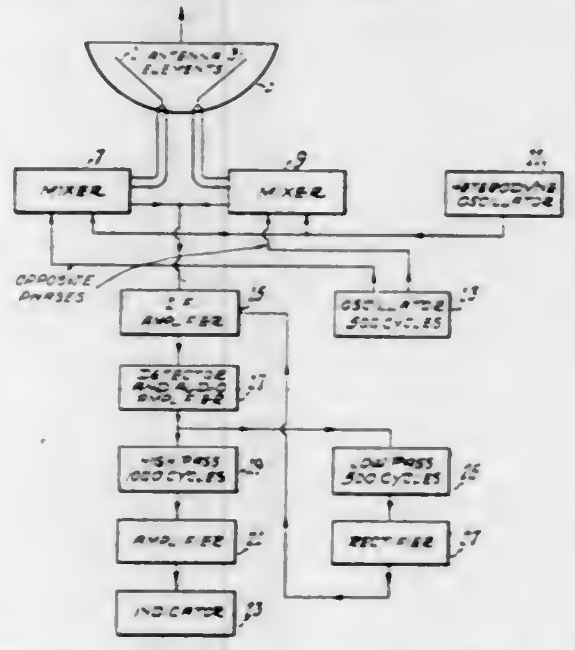
John Haller, Northville, and Louis V. Thompson, Detroit, Mich., assignors to Steel Tank Corporation, Detroit, Mich., a corporation of Michigan
Application September 2, 1942, Serial No. 457,000
8 Claims. (Cl. 29—29)



1. A vertical cutting machine, comprising a rectangular base having a cut-away corner, a round base mounted in the cut-away corner, a rotary work table mounted on the round base adapted to support a piece of work for circular cutting, means for rotating the work table, a cutting means, said rectangular base including a vertical portion adjacent said cut away corner, and means on said portion for supporting said cutting means at said corner and over said table in cutting relation to a work piece mounted thereon, whereby clearance is provided adjacent the juncture of said rectangular and round bases for an operator in the visible inspection of the cutting operation in the vicinity of said corner.

2,422,096
DIRECTION FINDING SYSTEM

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1942, Serial No. 460,297
5 Claims. (Cl. 250—11)

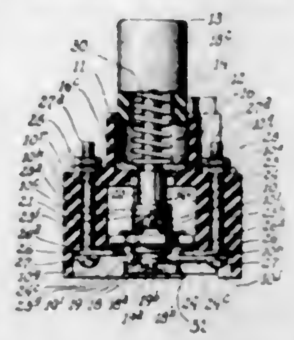


1. The method of determining the azimuth of arrival of an electromagnetic wave comprising the steps of deriving from said wave two signals differently related in their amplitudes to the angle between the line of arrival of said wave and a reference direction, modulating said signals in opposite modulation phases, combining said modulated signals so as to produce a first modulation component related in amplitude to the sum of the amplitudes of said signals and a second modulation component related in amplitude to the difference of the amplitudes of said signals, amplifying said combined signals, separating said amplified modulation components, controlling the amplification of said combined signals in response to the magnitude of one of said amplified components, and determining said azimuth as a function of the magnitude of the other of said amplified modulation components.

2,422,097
ELECTRIC SWITCH

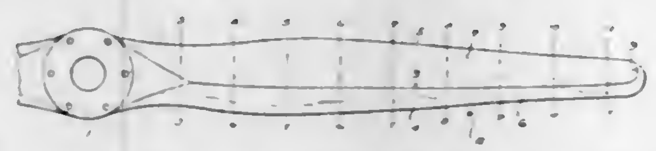
Kenneth H. Hansen, White Plains, N. Y., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 19, 1945, Serial No. 594,718
17 Claims. (Cl. 200—159)

1. In a shockproof electric switch, in combination, an operating member movable in a substantially straight line between extreme positions, stationary contact means, a contactor surrounding said operating member and also movable in a substantially straight line between opposite extreme positions into and out of engagement with said contact means, said operating member and said contactor being of substantially equal mass, and means including an interposed rotatable tubular member affording a positive driving connection between said operating member and said contactor, said last mentioned means being adapted to insure against simultaneous movement of said operating member and said contactor in a like direction.



2,422,098
PROPELLER BLADE

Leo A. Heintzelman, Grand Rapids, Mich.
Application January 26, 1944, Serial No. 519,803
1 Claim. (Cl. 170—159)

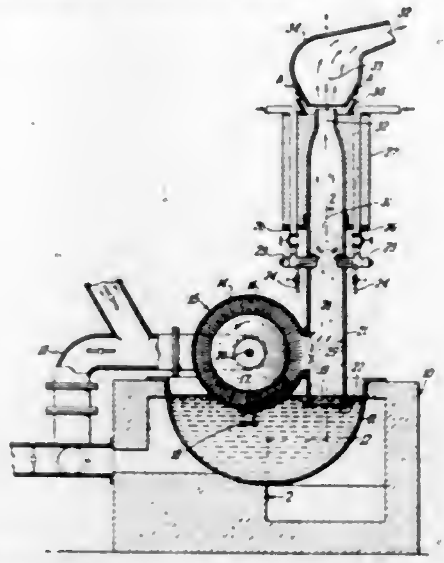


A propeller including a hub, and a blade projecting from the hub and disposed at an angle to the axis of the propeller, said blade having leading and trailing edges similarly slightly bowed outwardly so that the blade symmetrically decreases in width from a point near but inwardly of the transverse center of the blade to the hub and the tip of the blade, said blade further being in the form of an obtuse-angled triangle in each cross section substantially throughout its length so as to provide a flat rear surface extending between the leading and trailing edges and a V-shaped front surface whose apex is nearly straight and located nearer to the leading edge of the blade than to the trailing edge thereof, said apex terminating at its outer end adjacent but inwardly of the tip edge of the blade and having its outer end curved toward and merging with the trailing edge.

2,422,099
APPARATUS FOR THE PRODUCTION OF COMMINUTED PARTICLES

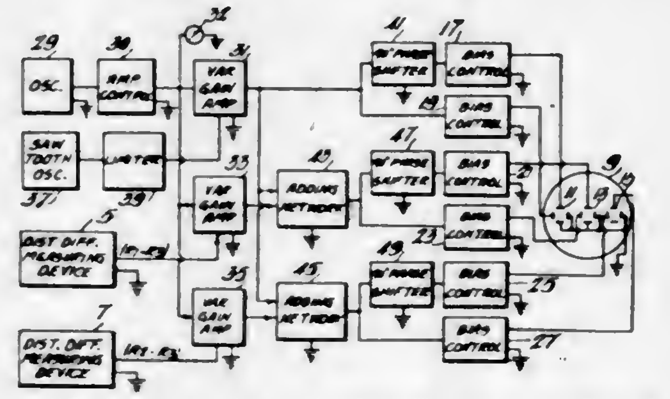
Siegfried Hiller, New York, N. Y.
Original application January 3, 1941, Serial No. 372,980. Divided and this application June 20, 1944, Serial No. 541,180
4 Claims. (Cl. 23—277)

1. In an apparatus for producing comminuted metallic particles, the combination of a vessel for maintaining a mass of molten metal, a drum-shaped chamber having an opening therein for admitting said molten metal and an outlet to permit discharge of molten particles therefrom, a flinger wheel rotatably mounted within said chamber, said flinger wheel provided with fins for comminuting and projecting said molten metal in a comminuted state, a vertically extending combustion chamber mounted adjacent to said drum-shaped chamber and connected through an aperture in the side thereof to receive the comminuted particles of molten metal as they leave said drum-shaped chamber, the combustion chamber positioned to extend downwardly into the vessel with an opening in the bottom thereof, so that heavier particles falling from a comminuted mass of particles projected therein are returned by gravity to said vessel at a point removed from said drum-shaped chamber after entering the combustion chamber through said aperture.



2,422,100
POSITION DETERMINING SYSTEM

Henry S. Huff, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 6, 1943, Serial No. 471,415
8 Claims. (Cl. 250—11)



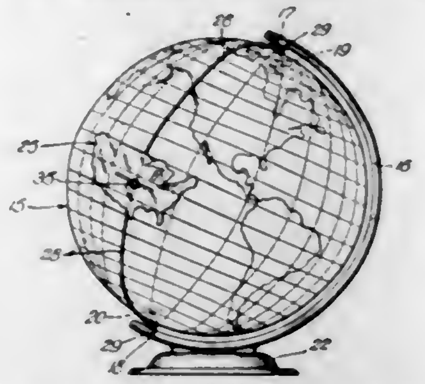
1. The method of producing an indication of the position of a mobile station with respect to the positions of a plurality of reference stations, comprising the steps of generating voltages corresponding to the respective differences in the distances of said reference stations from said mobile station, generating an additional variable voltage, adding said additional voltage separately to each of said first mentioned voltages to produce corresponding resultant voltages, varying said additional voltage, and producing an indication at the instant during the variation of said additional voltage when the magnitudes of said resultant voltages correspond respectively to the distances of said reference stations from said mobile station.

2,422,101
TERRESTRIAL GLOBE

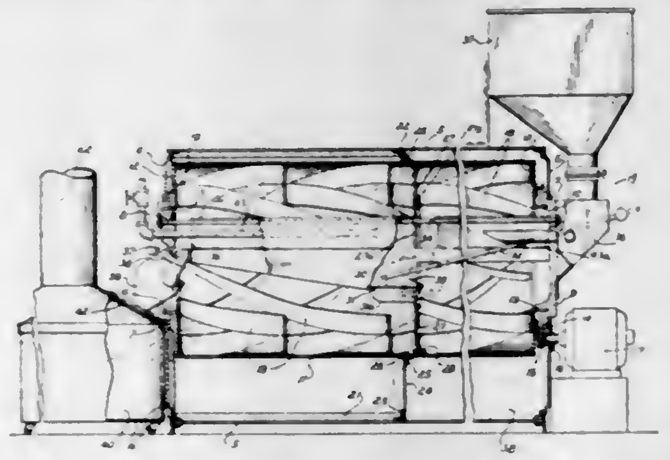
Homer V. Johannsen, Chicago, Ill.
Application October 22, 1943, Serial No. 507,243
12 Claims. (Cl. 35—46)

1. In combination, a terrestrial globe, a transparent facsimile of the outline of the United States in substantially the same scale as the illustration of the United States on said globe, said facsimile being of spherical curvature corresponding substantial to the curvature of said globe,

and a curved supporting member mounting said facsimile for swinging movement around said globe in close proximity thereto for making comparisons of area between said facsimile and different portions of the globe.



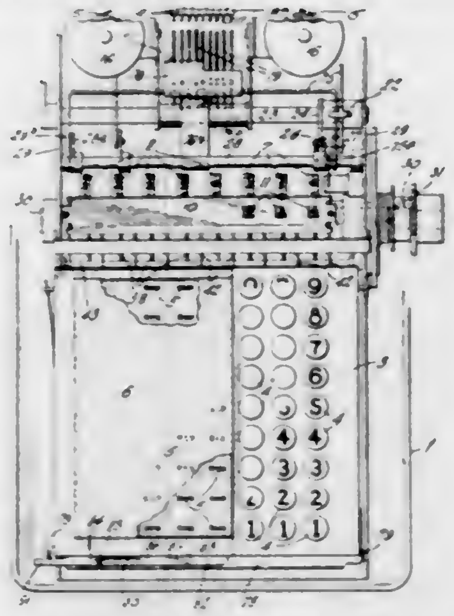
2,422,102
COFFEE ROASTING APPARATUS
William C. Kline, Oak Lawn, Ill.
Application March 19, 1943, Serial No. 479,820
12 Claims. (Cl. 263—32)



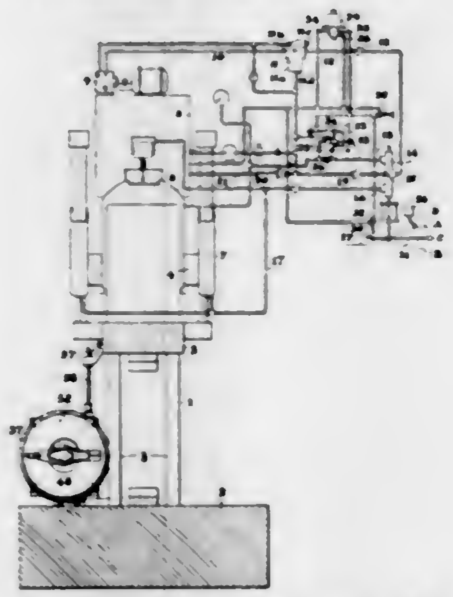
3. In a coffee roasting apparatus, a casing, means dividing said casing into a coffee roasting compartment and a coffee preheating compartment, a cooling pan having a conduit leading to said roasting compartment, a rotary drum mounted in said casing, means dividing said drum into a coffee roasting chamber located in said roasting compartment and a coffee preheating chamber located in said preheating compartment, said drum dividing means having a suction passage therethrough, means for rotating said drum, means for passing coffee from said preheating chamber to said roasting chamber, means for feeding coffee to said preheating chamber, means for discharging coffee from said roasting chamber to said pan, means for supplying products of combustion to said roasting compartment and exhaust means for drawing said products into and thru said roasting chamber and into said preheating chamber and simultaneously drawing the hot air from said cooling pan into said roasting compartment and thru said chambers.

2,422,103
DUPLEX CALCULATING MACHINE
Harry L. Lambert, Enfield, N. Y., assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y.
Application July 4, 1942, Serial No. 449,759
22 Claims. (Cl. 235—60)

2. In a calculating machine, a primary totalizer, a separate grand totalizer, a manually operable keyboard, means controlled by said keyboard for entering amounts into said primary totalizer, a second keyboard, means controlled by said second keyboard for entering amounts into said grand totalizer, means connecting said keyboards operable by actuation of said manually operated keyboard for automatically actuating said second keyboard to cause the entry into said grand totalizer of an amount corresponding to the amount entered into said primary totalizer in the same cycle of operation, means rendered effective at will for clearing said primary totalizer in a separate cycle of operation, and selectively operated means cooperating with said last named means for causing at will a clearance of said grand totalizer solely in the same cycle of operation as said primary totalizer.

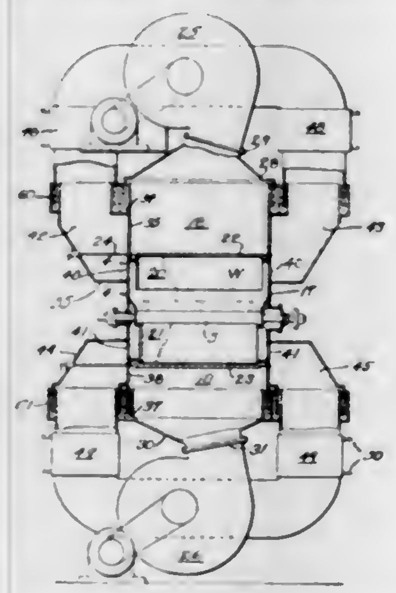


2,422,104
HYDRAULIC POWER PRESS CONTROL
Harry P. L. Laussucq, Reading, and Bertrand Japikse, Reiffton, Pa., assignors to Birdsboro Steel Foundry and Machine Co., Birdsboro, Pa., a corporation of Pennsylvania
Application February 20, 1943, Serial No. 476,584
6 Claims. (Cl. 192—138)



1. In a pressure stroke control of a hydraulic power press, the combination of, a dial, a rotatable pointer arranged to be maintained fixed with respect to said dial, pivotal means carried by said rotatable pointer, a second pointer arranged to respond to a downward action of a movable platen of said press, means fixed relative to said second pointer and arranged to contact said pivotal means, means actuated by said pivotal means for limiting the downward action of said movable platen, and means connected to said second pointer for returning the latter to normal position.

2,422,105
COOLING APPARATUS FOR HEAT-TREATED WORK USING AIR JETS
William Lehrer, Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Continuation of application Serial No. 489,567, June 3, 1943. This application October 19, 1945, Serial No. 623,242
6 Claims. (Cl. 34—225)

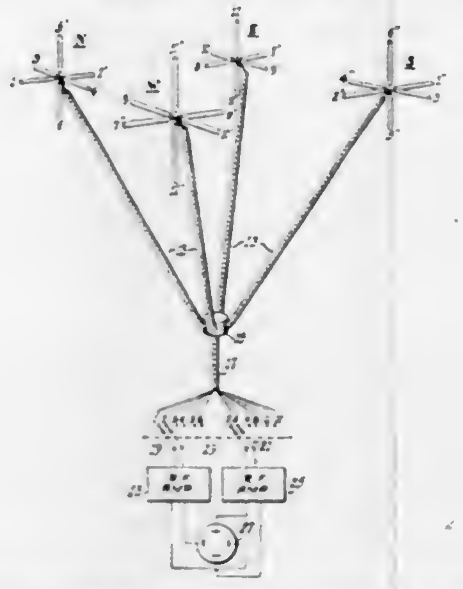


1. In apparatus of the class described, the combination of wall means including top and bottom walls and right and left hand side walls forming a treating chamber wherein material on passing therethrough may be treated with gaseous treating medium, wall means including said top wall forming a first plenum chamber outside of said treating chamber for receiving a supply of said treating medium from means including a blower, a first set of right and left hand suction conduits leading from the suction side of said blower and communicating with the upper portion of said treating chamber through the right and left hand side walls thereof for withdrawing spent treating medium therefrom, wall means including said bottom wall forming a second plenum chamber outside of said treating chamber for receiving a supply of said treating medium from means including a blower, a second set of right and left hand suction conduits leading from the suction side of the last mentioned blower and communicating with the lower portion of said treating chamber through the right and left hand side walls thereof for withdrawing spent treating gas therefrom, and nozzles extending into said treating chamber from the upper and lower plenum chambers for directing gaseous treating medium from the plenum chambers against the upper and lower sides, respectively, of the said material moving through the treating chamber.

2,422,106
SANTONIN-PHENOTHIAZINE VERMIFUGE
Raymond E. Lubbehusen, Webster Groves, Mo., assignor to Ralston Purina Company, St. Louis, Mo., a corporation of Missouri
No Drawing. Application March 20, 1943, Serial No. 479,878
1 Claim. (Cl. 167—53)

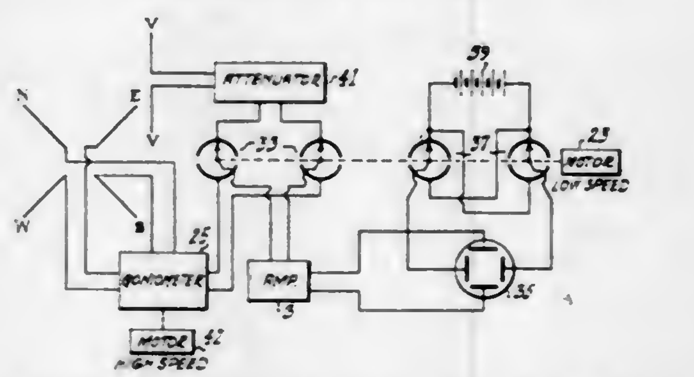
A vermifuge unit for administration to pigs of body weight in the range of 35 to 65 pounds to effect removal of ascarid worms, the ascaricide ingredients of said unit being approximately 1¼ grains of santonin and not less than 4 grams of phenothiazine.

2,422,107
RADIO DIRECTION FINDER
David G. C. Luck, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 1, 1942, Serial No. 449,229
8 Claims. (Cl. 250—11)



1. A radio direction finder comprising a plurality of independent arrays of spaced antennas having different directivity patterns, separate channels associated with each array comprising means for deriving voltages related to each other in accordance with the differences in phase of the signals derived at the different antennas of an array from an incident wave; a bearing indicator, and means responsive to the outputs of said arrays for connecting said bearing indicator to be actuated through one of said channels.

2,422,108
RADIO DIRECTION FINDING
David G. C. Luck, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1942, Serial No. 456,764
8 Claims. (Cl. 250—11)



1. A warning system for radio direction finders including orthogonally related horizontal dipole antennas, a vertical antenna, a voltage responsive indicator, and switching means arranged to cyclically and successively effectively connect said antennas to said indicator.

6. A warning system for radio direction finders including two horizontal dipoles arranged at right angles to each other, a goniometer connected to said dipoles, means for operating said goniometer to provide an output simulating that of a single horizontal dipole rotating about a central vertical axis, a vertical dipole, an amplifier, periodic switching means arranged to connect said goniometer output and said vertical dipole cyclically and successively to said amplifier, a cathode ray tube provided with orthogo-

nally disposed deflection means, connections between the output of said amplifier and one of said deflection means, and a source of voltage of rectangular wave form connected to the other of said deflection means.

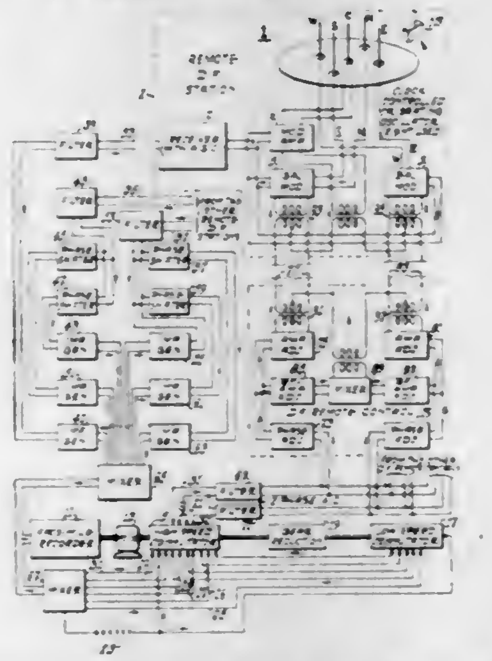
7. The method of determining the suitability of a radio wave for the purpose of direction finding comprising the steps of deriving a plurality of signals from one type of horizontally polarized component of said wave, combining said signals to provide a resultant signal proportional to the magnitude of said component and independent of the direction of arrival of said wave, deriving a signal from the same type of vertically polarized component of said wave, and comparing the magnitude of said last mentioned signal with the amplitude of said resultant signal.

2,422,109
RADIO DIRECTION FINDING

David G. C. Luck, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 11, 1942, Serial No. 457,967

4 Claims. (Cl. 250—11)



1. A system for recording the time and origin of radio transmission including a facsimile recorder, a motor arranged to drive said recorder, means for producing alternating current synchronous with the scanning of said recorder, a plurality of antenna arrays at spaced points, means associated with each of said arrays for providing a rotating directive pattern in response to said alternating current, a receiver connected to each of said arrays so as to provide an output related in phase to said alternating current in accordance with the direction of wave arrival, means for producing impulses in response to the output of each of said receivers, of characteristics distinguishable from the impulses produced in response to the output of each of the others of said receivers; means operated by said driving motor for producing time and azimuth reference impulses, and means for actuating said recorder in response to all of said impulses.

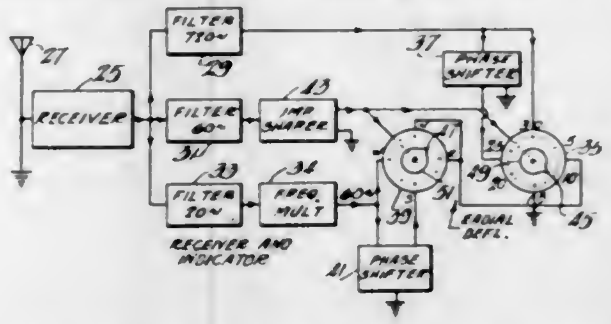
2,422,110
OMNIDIRECTIONAL RADIO RANGE

David G. C. Luck, Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 30, 1942, Serial No. 460,292

3 Claims. (Cl. 250—11)

1. An omnidirectional radio range system including means for radiating a radio frequency carrier in a rotating directive field pattern and means for changing the shape of said pattern cyclically at frequencies harmonically related to the frequency of said pattern rotation whereby said carrier is modulated at one frequency with a phase depending upon azimuth and at other frequencies independent of azimuth, means for receiving and demodulating said carrier to produce a signal corresponding to the composite modulation thereof, filter means arranged to separate the components of said signal, means arranged to change the frequency of one of said components to a frequency equal to that of said pattern rotation, a phase responsive indicator device arranged to compare said latter component with the modulation derived from said pattern rotation to provide a coarse unique indication, and a second phase responsive indicator device arranged to compare said pattern rotation modulation component with a higher frequency component to provide a fine indication.

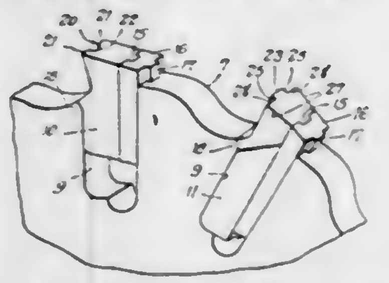


2,422,111
CUTOFF SAW

Roland O. Lundberg, Chicago, Ill.

Application November 8, 1945, Serial No. 627,452

2 Claims. (Cl. 29—105)



1. In a cutoff saw having a saw body the combination of alternate wide and narrow teeth projecting from an edge of said saw body, said narrow teeth having their cutting edges interrupted by a groove to provide a pair of cutting edges spaced the same distance from said saw body, said wide teeth having a plurality of cutting edges with one of said cutting edges of each thereof spaced the same distance from the saw body as the pair of cutting edges of said narrow teeth and positioned in alignment with the groove in the latter, and said wide teeth each having second cutting edges disposed to either side of said one cutting edge thereof with said second cutting edges being spaced inwardly of said one cutting edge thereof.

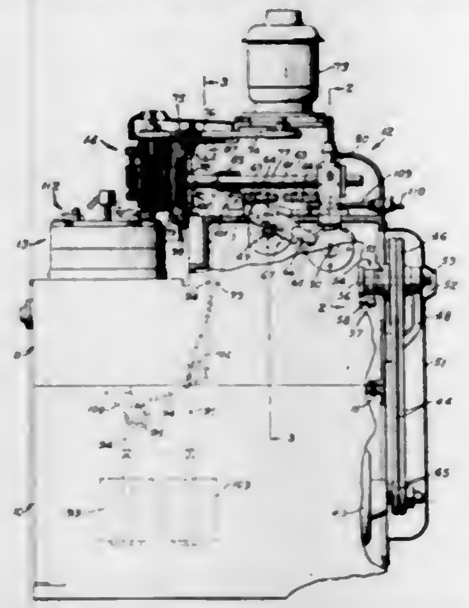
2,422,112
MILLING MACHINE

Newman M. Marsilius, Trumbull, Conn.

Original application August 28, 1941, Serial No. 408,580, now Patent No. 2,353,480, dated July 11, 1944. Divided and this application December 16, 1943, Serial No. 514,495

2 Claims. (Cl. 90—15.1)

1. A tool actuating mechanism for a milling machine comprising a bed, a tool holding slide reciprocatable on said bed, a rack secured to said slide, a first gear mounted in said bed and engaging said rack, a second gear integral and concentric with said gear and of lesser diameter, a rack reciprocatedly mounted in said bed and engaging said second gear, a cam movably mounted in said bed and engaging an end of said second mentioned rack, an actuating means for said cam, whereby actuation of said cam reciprocates said second rack, causing rotation of said second gear to effect rotation of said first gear for the purpose of reciprocating said first rack and said slide to an extent amplified by said gears so as to be greater than the extent of reciprocation of said second rack.

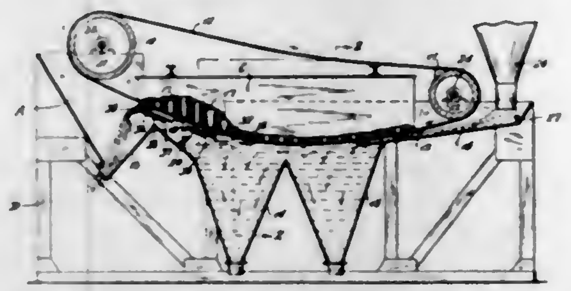


2,422,113
MAGNETIC DEWATERING AND CONCENTRATING MEANS FOR MAGNETIC SEPARATORS

Henry K. Martin, Ironwood, Mich., assignor to Reserve Mining Company, Babbit, Minn., a corporation of Minnesota

Application October 22, 1943, Serial No. 507,268

6 Claims. (Cl. 209—232)



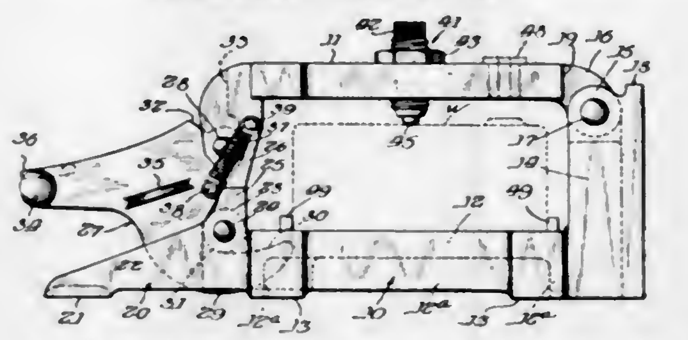
1. In a magnetic separator for separating magnetic and non-magnetic material such as ore concentrates and middlings from each other and/or from tailings, the combination of: a reservoir or tank; means for supplying liquid to said tank; a flexible non-magnetic conveyor having a portion submerged in the liquid in said tank and a portion thereof adjacent to the discharge end of the separator disposed above the surface of said liquid; means for moving said conveyor; a plurality of magnets having pole faces disposed closely adjacent to the upper side of parts of said submerged portion and said non-submerged portion of said conveyor for producing a continuous magnetic field on the opposite side of said conveyor; means for feeding material to be separated to said tank and causing it to come in close proximity to the underside of said conveyor in said magnetic field whereby said magnetic field causes magnetic material in said mixture to engage and be carried along by said conveyor; magnet means located below said non-submerged portion of said conveyor and opposite said pole faces for producing a high intensity magnetic field through which material being carried along by said conveyor must pass and within which the material will concentrate thus expediting the removal of the liquid; and a non-magnetic member or shield interposed between said conveyor and said magnet means.

2,422,114
QUICK LATCH JIG

Albert J. Matter, Park Ridge, Ill.

Application March 8, 1944, Serial No. 525,496

11 Claims. (Cl. 77—62)



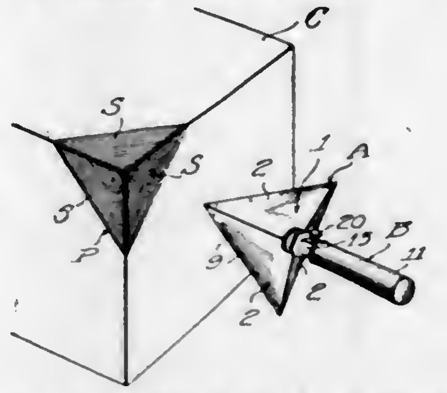
1. A quick latch jig comprising a base arranged to support a piece of work, a swingable cover pivotally mounted to said base and provided with work clamping means, and coacting latch members on the base and cover for releasably securing the free ends thereof together, one of said latch members being pivoted on the cover and having a hand grip extending parallel with the axis of the latch pivot, said pivoted latch member having also thumb and finger pieces extending laterally from the pivoted latch member, whereby the pivoted latch member is manipulated to latch the cover to the base and to unlatch it therefrom.

2,422,115
OBJECT MARKER

Jessie R. Matthews and William A. Davidson, Norfolk, Va., assignors of seventeen one-hundredths to P. H. Mason, seventeen one-hundredths to W. D. Mason, and seventeen one-hundredths to J. H. Mason, all of Norfolk, Va.

Application March 29, 1945, Serial No. 585,494

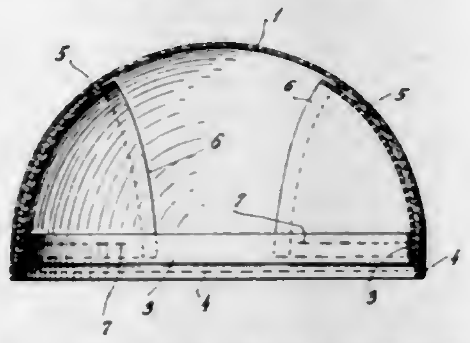
6 Claims. (Cl. 91—62.5)



1. A device for marking the three sides of a substantially pyramidal area to the corner of an object of substantially parallelepiped form, said device comprising an applicator including three substantially triangular sides joined together so as to form the sides of an open base pyramid, the inner faces of said applicator sides being constituted by flexible material adapted to carry marking material and to transfer said marking material to said object pyramidal area when said applicator inner faces are pressed into contact

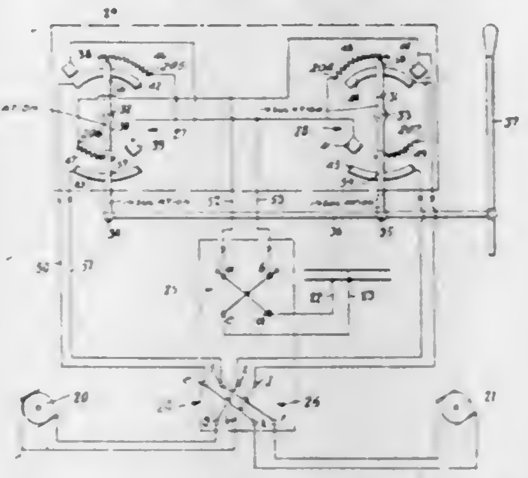
with said area; and cushions backing said flexible material whereby the latter can conform to irregularities in the surface of said area so as to enable substantially the whole of said area to be marked.

2,422,116
PROTECTING CAP
Eugene Mauro, New York, N. Y.
Application August 11, 1944, Serial No. 549,023
1 Claim. (Cl. 2—3)



A ball player's protective cap of cloth having a visor at the front and a band inside around the rim, said cap containing fibre reinforcing comprising a rigid member at each side, said members each having a lining of thick cushioning material secured to its inner face, the lower edge of said members and said linings being substantially straight and covered by said band, said members and said linings being fastened to said cap at each side adjacent said lower edge, said members with said linings being concave to conform both horizontally and vertically to the shape of the head when the cap is placed thereon, and having a curved upper edge extending from end to end of the straight lower edge, the members being of sufficient height and width to shield the sides of the head under said cap, the curved upper edges of the linings extending beyond the curved upper edges of the fiber members to protect the wearer's head against the said edges, and the lower straight edges of the lining being slightly above the lower straight edges of the fiber members beneath the band of said cap to permit the band to present a bevelled lower edge of the head of the wearer.

2,422,117
UNITARY CONTROL FOR PLURAL ELECTRIC MOTORS
Jean Mercier, New York, N. Y.
Application June 5, 1944, Serial No. 538,805
4 Claims. (Cl. 172—239)

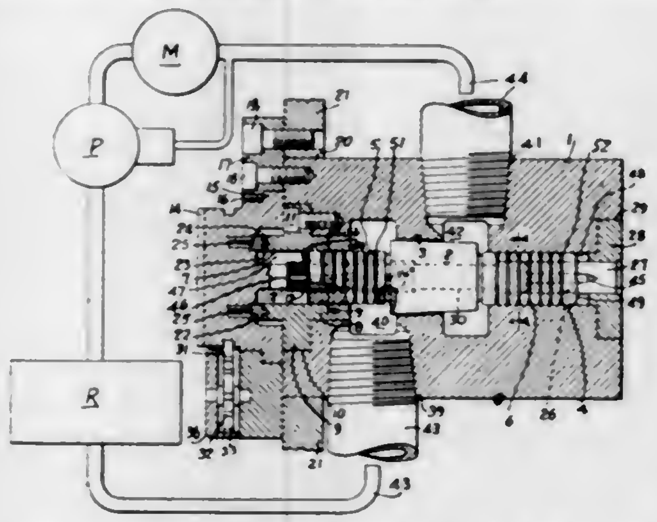


1. In a control mechanism of the character described, the combination of two electromotors each controlling one of two devices of a machine, said devices being intended to be alternatingly actuated in two opposite directions, and required to be simultaneously and correspondingly actuated and capable, when operated in a different manner, of producing a disturbance in the working of said machine; general control means independent of said devices and adapted to be displaced by the operator of said machine for the correction of and in proportion to disturbances in the operation of said machine, a master switch adapted in one position to supply current to both said electromotors to operate said devices in one direction, and in a second position to supply current to both said electromotors to operate said devices in the opposite direction, and adapted, in a third position, to cut off both said electromotors, a distributor unit associated with said electromotors and said master switch, said distributor unit including movable contacts, said contacts being operatively connected to said general control means, said distributor unit being adapted to control the supply of current to each individual electromotor, said unit being further adapted, when said general control means are in their normal position, to supply equal current to each electromotor, and to supply, when said general control means are displaced from their normal position, continued flow of current to one of said electromotors while cutting off said other electromotor.

2,422,118
MAKING CORES FOR CASTING LIGHT METAL ALLOYS
Leonard S. Meyer, Toledo, Ohio, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company, a corporation of Ohio
No Drawing. Application March 13, 1942, Serial No. 434,588
6 Claims. (Cl. 22—188)

1. A method of casting light metal alloys that includes preparing a green sand core consisting essentially of sand, water and a hardenable urea-formaldehyde reaction product as a binder, the proportion of binder being sufficient so that the green sand can be molded into an integral core, baking, and casting a light metal alloy in contact with the core whereby said binder volatilizes substantially completely after the metal has taken its shape.

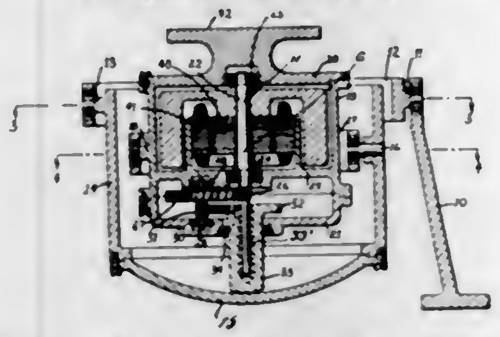
2,422,119
CONTROL VALVE
Johan A. Muller, Dayton, Ohio, assignor to H-P-M Development Corporation, a corporation of Delaware
Application August 26, 1943, Serial No. 500,069
3 Claims. (Cl. 251—34)



1. The combination in a valve, of a valve body, a flow passage through said valve body comprising

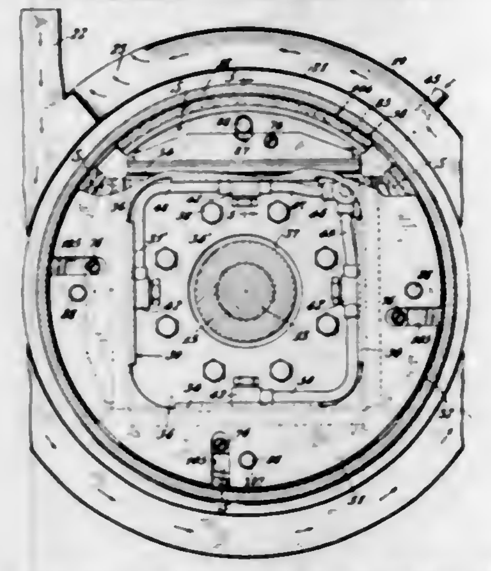
a relatively long tapered valve seat, a relatively long tapered valve member adapted with said seat to form a variable orifice, projections integral with said valve member extending axially either way therefrom for engagement with said valve body whereby said valve member is rigidly guided toward and from said seat, one of said extensions having a threaded recess therein, a hand wheel having a threaded portion adapted for engagement with said threaded recess, a plate adapted for rotatably securing said hand wheel to said body, and sealing means comprising a spring pressed annular ring carried by one of said hand wheels and body and in engagement with the other thereof for preventing leakage of fluid from said body.

2,422,120
ARTIFICIAL HORIZON
Edson J. Noble, Shaker Heights, Ohio; Marion M. Noble executrix of said Edson J. Noble, deceased
Application July 13, 1944, Serial No. 544,710
8 Claims. (Cl. 74—5)



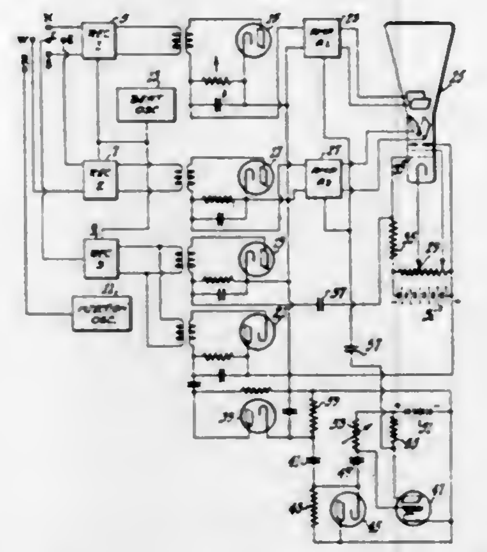
1. In an artificial horizon, a universally suspended housing having a semi-spherical base, a gyro comprising a casing universally supported within said housing about a center below the center of suspension of said housing, a gyroscopic rotor journaled within said casing and means at the lower end of said rotor and rotated thereby presenting a rounded lower extremity with substantially a point thrust bearing on said spherical surface whereby the gyro partakes of the characteristics of a blunt peg top and opposes any force tending to move its axis out of the vertical.

2,422,121
FLUID PRESSURE OPERATED BRAKE AND ADJUSTMENT THEREFOR
Joseph Norstrom and Alvin L. Smith, Newburgh, N. Y., assignor to Muskegon Machine Company, Newburgh, N. Y., a corporation of Delaware
Application August 10, 1945, Serial No. 610,040
8 Claims. (Cl. 188—79.5)



1. In a brake construction, a brake shoe comprising an outer section having a brake lining adapted to engage a brake drum, an inner section having a pressure-receiving surface, a leaf spring mounted on said outer section, said brake shoe being formed to receive a longitudinally slidable supporting rod, the ends of said rod normally extending outwardly from the sides of said brake shoe, said rod being provided with an annular recessed portion adapted to receive said leaf spring to lock the rod in fixed transverse position with respect to the brake shoe, said outer section and said brake lining being shaped to form a passage through which a tool may be inserted to move said leaf spring out of said annular recess so that the rod may be removed.

2,422,122
RADIO DIRECTION FINDING
Lowell E. Norton, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 28, 1942, Serial No. 456,471
4 Claims. (Cl. 250—11)

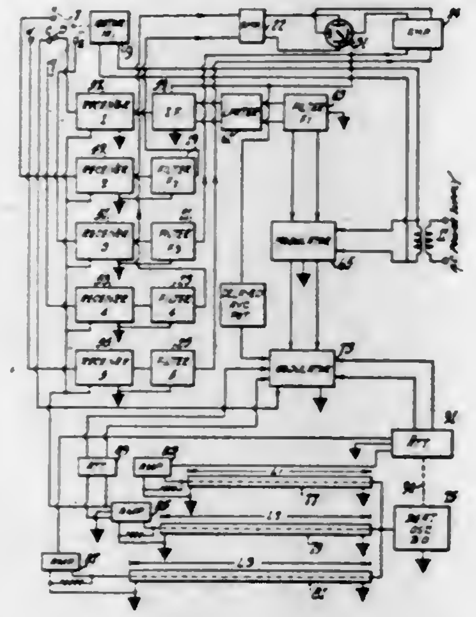


1. In combination with a direction finder system including a bilaterally responsive directional receiver system, a non-directive sense receiver system and azimuth indicator means connected to said receiver systems, means for preventing response of said indicator to sky-wave signals comprising detector means connected to said sense receiver, impulse generator means connected to said detector means, and means responsive to said impulse generator means to substantially disconnect said azimuth indicator means from said directional receiver means at the end of a predetermined period after the reception by said sense receiver means of the initial portion of a signal.

2,422,123
DIRECTION FINDER
Lowell E. Norton, Princeton, N. J., assigner to Radio Corporation of America, a corporation of Delaware
Application December 31, 1942, Serial No. 470,861
4 Claims. (Cl. 250—11)

1. A radio direction finder including a directive antenna array, a radiation injection antenna, radio receiver means connected to said directive array, a limiter connected to an intermediate frequency circuit of said receiver means so as to provide intermediate frequency voltage with modulation removed therefrom, a local source of low frequency voltage, a balanced modulator connected directly to said limiter and to said low frequency source, a second balanced modulator connected through 90° phase shifters to said

limiter and to said low frequency source, a third balanced modulator connected directly to the output circuits of said first two balanced modulators, a fourth balanced modulator connected through a 90° phase shifter to the output circuits of said first two balanced modulators, a beat oscillator connected through a phase shifting network to said third and fourth balanced modulators so as to provide voltages to said balanced modulators which are in quadrature phase with respect to each other, and connections from the output circuits of said third and fourth balanced modulators to said injection antenna whereby said injection antenna radiates energy at a frequency differing from that of an arriving wave by a predetermined amount.



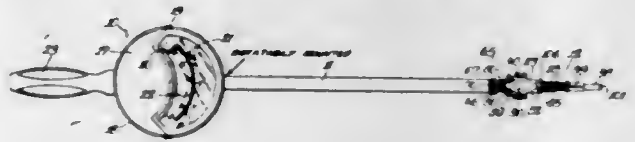
2,422,124

FLEXIBLY MOUNTED THERMOCOUPLE FOR MEASURING SURFACE TEMPERATURE

John A. Obermaier, Chicago, Ill.

Application June 6, 1942, Serial No. 446,045

15 Claims. (Cl. 136—4)



14. In a device of the class described, in combination, a base, tip supporting means extending from said base, a tubular tip supporting member pivoted on said tip supporting means for free tilting movement in position spaced from said base, an insulating tip coaxial with said tip supporting member, said insulating tip having a portion thereof extending into and pivoted within said tip supporting member for free pivotal movement at substantially right angles to the pivotal movement of said tubular tip supporting member on said tip supporting means, and a pair of thermocouple elements joined to form a thermojunction adjacent the outer end of said tip.

2,422,125

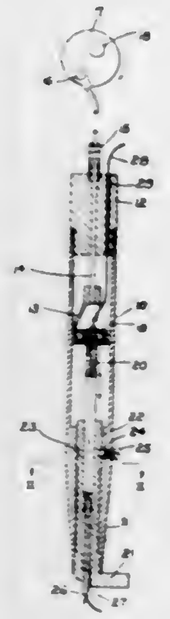
TUFTING DEVICE

Samuel P. Parker, La Grange, Ga., assignor to Callaway Mills, La Grange, Ga., a corporation of Georgia

Application July 8, 1946, Serial No. 682,017

16 Claims. (Cl. 112—80)

1. An embroidery pencil which comprises a casing, a needle bar mounted within the casing for rotary movement and also for reciprocation lengthwise of the casing, a hollow needle attached to the bar and projectable out of one end of the casing during reciprocation of the bar, and a presser foot mounted at said end of the casing for movement about the axis of the bar, the presser foot extending laterally from the casing, the bar being free to reciprocate relative to the presser foot but being connected for rotary movement in unison therewith.



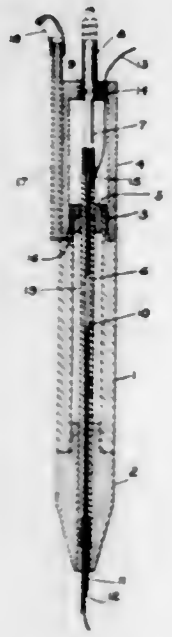
2,422,126

TUFTING DEVICE

Samuel P. Parker, La Grange, Ga., assignor to Callaway Mills, La Grange, Ga., a corporation of Georgia

Application July 9, 1946, Serial No. 682,377

6 Claims. (Cl. 112—80)



1. An embroidery pencil which comprises a casing, a needle bar mounted within the casing for reciprocation lengthwise thereof, a hollow needle attached to the bar and having a free end projectable out of one end of the casing upon reciprocation of the bar, a passage through the wall of the casing for supplying yarn to the needle to pass therethrough and out the free end of the needle, and means for supplying air under pressure to the interior of the needle to pass therethrough and escape at the free end of the needle.

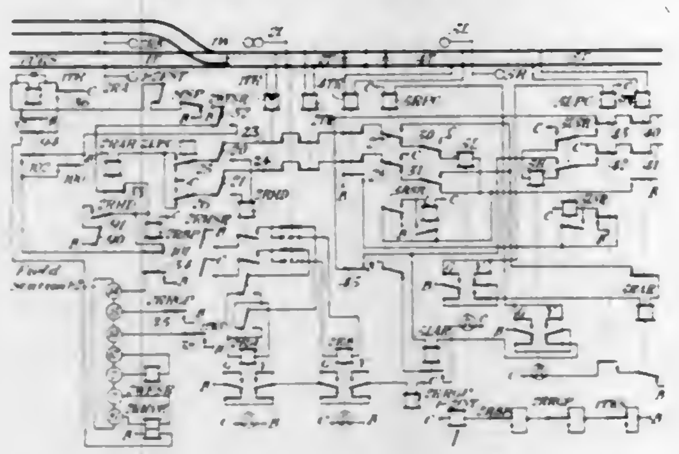
2,422,127

RAILWAY SIGNALING APPARATUS

Frank T. Pascoe, Carnegie, and Arthur L. Jerome, Edgewood, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 23, 1945, Serial No. 601,100

13 Claims. (Cl. 246—3)



1. In a system of centralized traffic control for a stretch of single track railroad between the ends of adjacent passing sidings and equipped with a code type communication system connecting the ends of said stretch with a control office, said code communication system including at each end of the stretch a starting relay having contacts which are moved from a normal to an operated position in response to a change in apparatus conditions at that location and are restored to their normal position in response to transmission of an indication code from that location to the office, in combination, a block relay at each end of the stretch controlling transmission of indication codes to the office to show traffic conditions in the stretch, a system of reversible circuits extending the length of said track stretch and governed by traffic conditions in the stretch, said system of circuits being manually controlled from said office through said code communication system so as to at times prepare the stretch for traffic in one direction and to at other times prepare the stretch for traffic in the other direction, said system of circuits being operative when conditioned to prepare the stretch for traffic in either direction to control the signal and a block indication control circuit at the corresponding entrance end of the stretch in accordance with traffic conditions in at least a portion of said stretch, a detector track section at each end of the stretch including the track switch for connecting the track stretch with the adjacent passing siding, each detector track section being provided with a track circuit including a track relay, each detector section track relay having associated therewith a detector section repeater relay, means for each detector section repeater relay for causing its contacts to move from a normal to an operated position when the associated track relay releases, means for each detector section repeater relay for causing its contacts to move from their operated to their normal position when and only when the associated track relay is picked up and the contacts of the associated starting relay are in their normal position, means for each of said block relays for moving its contacts from an operated to a normal position when the associated block indication control circuit shows that the track stretch over which it is controlled is unoccupied, means effective on movement of the contacts of a detector section repeater relay to their operated position when the contacts of the associated block relay are in their normal position to maintain the contacts of said block relay in their normal position as long as the detector section repeater relay contacts are in their operated position, each detector section repeater relay governing a detector section indication relay at the office through said code communication system and each block relay governing a block indication relay at the office through said code communication system, and means at said office governed by the detector section and block indication relays associated with said track stretch for governing transmission of control codes by said code communication system to cause said system of reversible circuits to maintain the established direction of traffic during occupancy of said stretch.

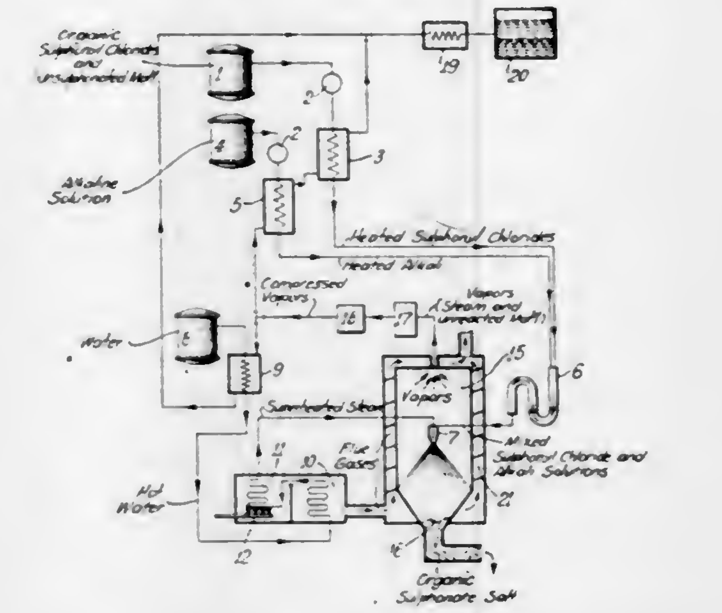
2,422,128

PROCESS OF PREPARING PURIFIED ORGANIC SULPHONATES

Joseph Henry Percy, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Application August 9, 1941, Serial No. 406,223

18 Claims. (Cl. 260—504)



1. The process of preparing purified organic sulphonates which comprises flashing a hot mixture containing an organic sulphonyl halide, unsulphonated material, an alkaline hydrolyzing agent and a solvent therefor into a zone maintained at a temperature above the boiling point of the solvent whereby the sulphonyl halide is hydrolyzed and neutralized and the solvent and unsulphonated material are volatilized.

2,422,129

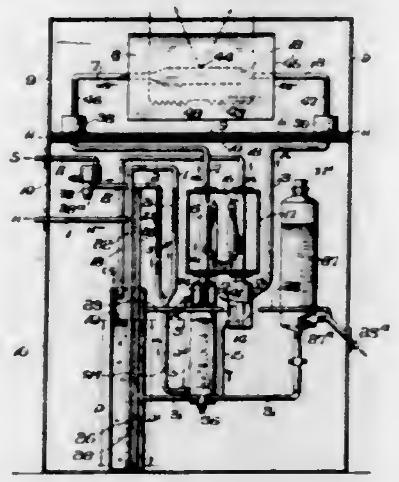
MEASUREMENT OF OXYGEN IN GAS MIXTURES

George A. Perley, Wyncote, and James B. Godshalk, Philadelphia, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 19, 1942, Serial No. 431,466

7 Claims. (Cl. 23—232)

4. A method of analyzing a gas mixture comprising oxygen and one or more other gases, such as carbon monoxide, carbon dioxide, sulphur dioxide or methane, which comprises mixing an excess of combustible gas with a sample of aforesaid mixture, passing the resultant mixture of sample gas and added combustible gas through a non-metallic combustion chamber, raising the mixture, while traversing said combustion chamber, by heat generated externally thereof, to a



temperature within a range from about 650° C. to about 1000° C. to effect selective combustion of the oxygen of the sample gas mixture with the added combustible gas, and measuring the change in the thermal conductivity of the gases prior and subsequent to aforesaid selective combustion.

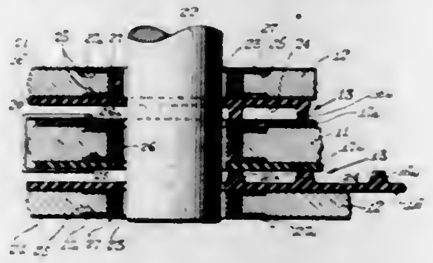
2,422,130

STORAGE BATTERY PLATE AND SEPARATOR ASSEMBLY

George N. Proctor, Verona, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey

Application January 14, 1944, Serial No. 518,483

3 Claims. (Cl. 136—81)



1. A battery plate assembly comprising a stack of spaced battery plates, a rigidifying rod extending through said plates, said plates having recesses in the side walls thereof around said rod, and insulating members embracing said rod and disposed within said recesses, said insulating members having the exterior side surfaces thereof substantially flush with the side surfaces of the respective battery plates.

2,422,131

COMBINED AIR HEATER FOR HOT-AIR TURBINE AND BLAST FURNACE

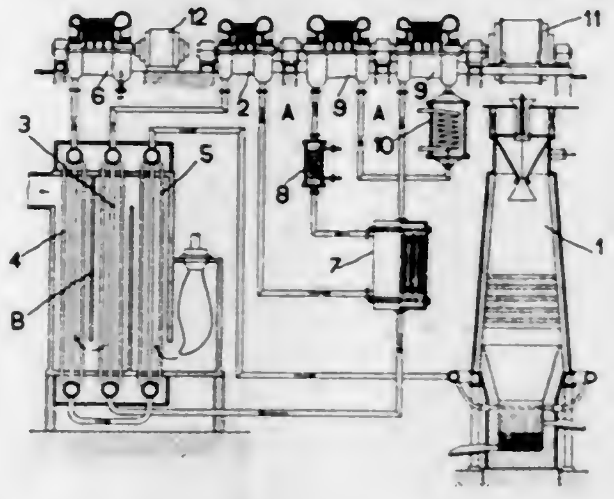
Rudolf Ruegg, Zurich, Switzerland, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland, a corporation of Switzerland

Application March 9, 1944, Serial No. 525,786

In Switzerland May 3, 1943

3 Claims. (Cl. 60—2)

1. The combination of a combustion chamber; a burner for producing combustion therein; means forming an offtake passage for combustion products leading from said chambers; two surface heat exchangers positioned in said passage so as to be contacted successively by off-flowing products of combustion, the first being adjacent the combustion chamber and the second near the discharge end of said passage; means for passing air to be heated at a relatively low pressure, first through the second, then through the first of said exchangers, and then to a consumer of hot air; and a thermal power plant of the type in which a gaseous working medium flows in a closed circuit comprising a turbo-compressor in which the medium is raised to a higher pressure, a surface heater in which said medium is next heated while at said higher pressure, and a turbine through which the compressed and heated medium expands, the surface heater of the power plant being interposed in said offtake passage between said first and second surface heat exchangers whereby it is subjected to a controlled temperature range safe for the pressure of the working medium passing therethrough.



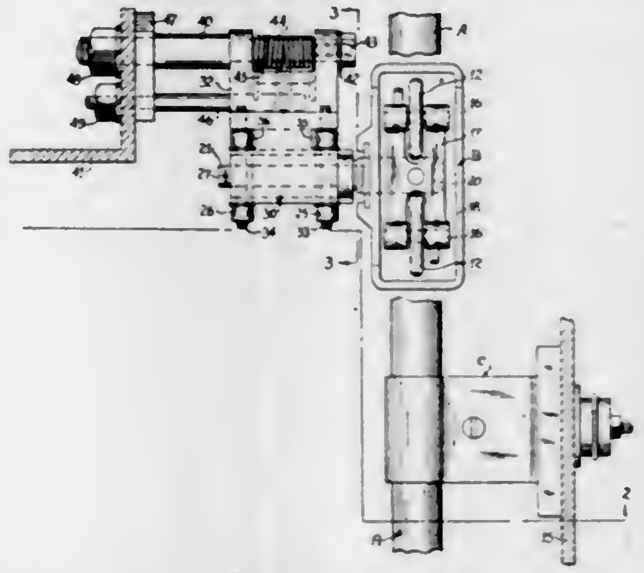
2,422,132

CURRENT COLLECTOR

Charles H. Saiter, Cleveland Heights, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio

Application July 3, 1945, Serial No. 602,987

4 Claims. (Cl. 191—45)



1. In a device of the character referred to, the combination of a first member adapted to carry a contactor and maintaining the same in engagement with a trolley conductor, a second member, means for supporting said first member from said second member for pivotal movement about an axis extending transversely of the trolley conductor, a third member, parallel motion mechanism supporting said second member from said third member for movement lengthwise of the first-named axis, means for supporting said third member for rotation about an axis parallel with said first-mentioned axis, and resilient means for continuously urging said third member about said last-mentioned axis and in a direction to engage the contactor with the trolley conductor.

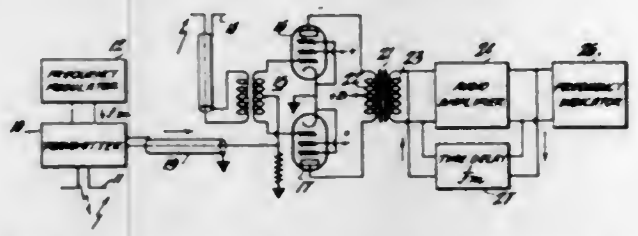
2,422,133

FREQUENCY MODULATED ALTIMETER OR DISTANCE INDICATOR

Royden C. Sanders, Jr., Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 30, 1942, Serial No. 470,695

6 Claims. (Cl. 250—1.68)



2. The method of distance measuring comprising cyclically frequency modulating a wave at a periodic rate of f_m, transmitting said modulated wave to a reflecting object, heterodyning said wave after reflection from said object with a portion of said wave supplied directly from the point of transmission whereby a cyclically recurring beat-frequency signal is obtained, amplifying said beat-frequency signal, delaying a portion of said amplified signal by an amount substantially equal to $1/f_m$ times a whole number, and utilizing said delayed signal to regeneratively reinforce said amplification.

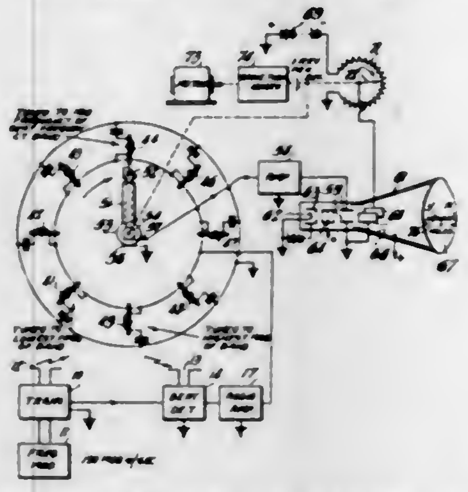
2,422,134

DISTANCE INDICATOR

Royden C. Sanders, Jr., Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 29, 1943, Serial No. 481,041

4 Claims. (Cl. 250—1.68)



1. A distance indicating system comprising means for transmitting a cyclically frequency modulated radio wave, means for receiving said wave after reflection from objects that are unknown distances from the transmitting means, a beat frequency detector, means for supplying to said detector both said reflected wave and a frequency modulated wave direct from the transmitting means whereby the detector output contains signals having beat frequencies corresponding to said unknown distances, and a multiple resonant frequency indicator connected to receive said detector output, said indicator comprising a plurality of resonant units each tuned to a different frequency within the band of beat frequencies covering the operating range of the system, a pick-up device and means for moving it past said resonant units successively, an indicating scale, means for producing relative movement between an indicating means and said scale in synchronism with the movement of said pick-up device, and means for supplying signal from said pick-up device to said indicating means.

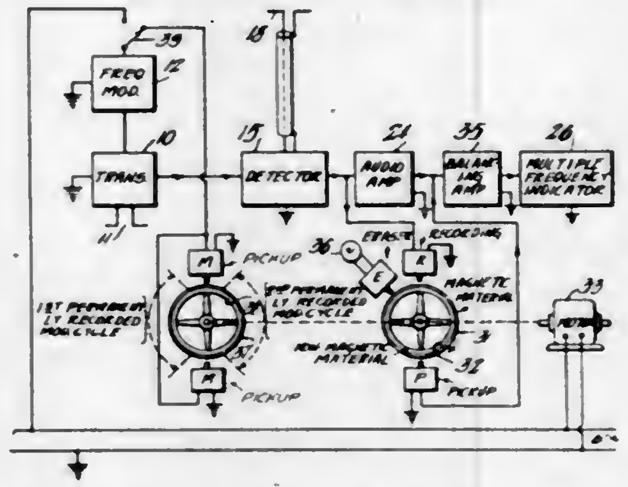
2,422,135

FREQUENCY MODULATED DISTANCE INDICATOR

Royden C. Sanders, Jr., Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 26, 1943, Serial No. 492,654

13 Claims. (Cl. 250—1.68)



8. A distance measuring system comprising means for cyclically frequency modulating a wave at a periodic rate of f_m, means for transmitting said modulated wave to a reflecting object, a beat frequency detector, means for supplying said wave to said receiver after reflection from said object, means for supplying a portion of said wave directly from the transmitter to said detector whereby a cyclically recurring beat-frequency signal is obtained, a first channel and a second channel for said beat-frequency signal, said second channel including means for delaying the signal passed through the second channel with respect to the signal passed through the first channel by an amount substantially equal to $1/f_m$ times an integer, means for supplying the output of said second channel to said first channel with such phase relation and with such amplitude that the beat-frequency signals produced by reflections from fixed objects will be cancelled out whereby only moving objects will be indicated, means for maintaining synchronism between said delay means and said cyclic frequency modulation, and means for varying at a periodic rate both said delay and said cyclic frequency modulation.

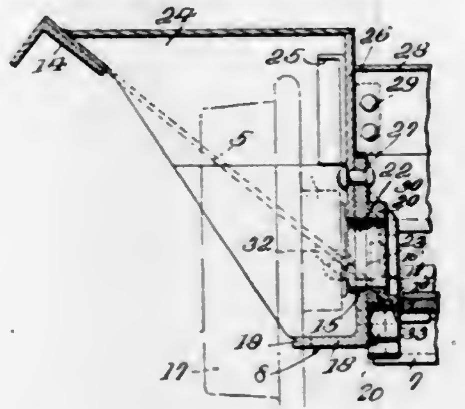
2,422,136

MINE CAR

Hugh W. Sanford, Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del., a corporation of Delaware

Application July 19, 1939, Serial No. 285,393

32 Claims. (Cl. 105—364)



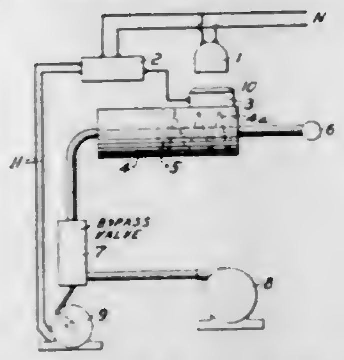
1. In a mine car, spaced longitudinal sill-elements each including substantially upright lading space defining portions that extend substantially

from one end of the car to the other, car axles disposed transversely of the sill-elements, car wheels on said axles located close to and outside said sill-elements, a lading-supporting bottom structure located between said sill-elements and disposed at least in part beneath the horizontal plane of the axes of the car wheels, and car body structure including wheel hood structures and including also outwardly extending and upwardly sloped side-wing-bottom portions in rigidly secured relation with said sill-elements and intersecting the said horizontal plane outwardly of the outside of the said substantially upright portions of the sill-elements.

2,422,137

COPYING DEVICE

Werner Schindler, Biel, Switzerland
Application November 4, 1943, Serial No. 508,982
In Switzerland September 8, 1942
1 Claim. (Cl. 90—13.5)

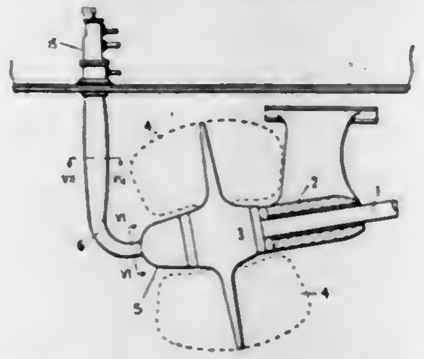


In a copying device, a movable cylinder, a pattern supporting means movable with said cylinder, a stationary piston in said cylinder, a fluid pump, a fluid conduit connecting said pump with said cylinder for supplying pressure fluid thereto, means opposing the pressure fluid, a control valve interposed in said conduit, a pattern tracer controlled servo-motor for regulating said valve said servo-motor including a motor-generator aggregate in which a generator housing is rockably supported and means on said housing for actuating said valve, said housing rotating in dependence upon energization of the photo-cell through the armature of the generator coupled with the motor.

2,422,138

SWIVELLING BLADED ADJUSTABLE PITCH PROPELLER

Paul Werner Seewer, Rugby, England, assignor to The English Electric Company Limited, London, England, a British company
Application September 13, 1945, Serial No. 615,952
In Great Britain November 19, 1943
2 Claims. (Cl. 170—163)

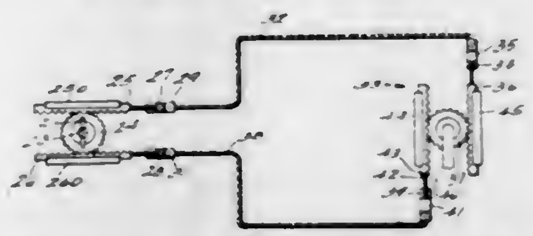


1. In combination, a variable pitch propeller incorporating a propeller hub, swivelling blades thereon, a rotary gear wheel type fluid pressure servo-motor within said hub in driving connection with said swivelling blades, a stationary tubular member communicating with the interior of said rotary hub and in fluid supply connection with said servo-motor without forming a supporting bearing for said hub, a control valve outside the propeller connected to said tubular member, a follow-up member within said valve, an eccentric connected with one of the said swivelling blades, a follower engaging said eccentric, and a mechanically operative connection extending from the said follower through said tubular member to said follow-up member within the valve the said connection being adapted, subsequently to an adjustment of the said blades by the said servo-motor, to restore the said follow-up member to a position relative to the said control valve in which the latter disconnects the servomotor from the fluid pressure tending to continue said adjustment of the blades.

2,422,139

HYDRAULIC REMOTE CONTROL SYSTEM

Hiram W. Sheridan, Oak Park, Ill.
Application July 1, 1943, Serial No. 493,039
4 Claims. (Cl. 60—54.5)

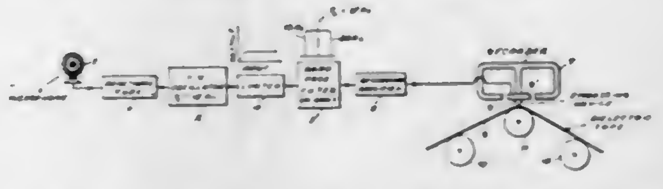


1. In a control device, an operating member comprising a gear rotatable about a fixed axis, an operated member comprising a gear adapted to rotate and having a motion of pure translation, a pair of hydraulic columns between said members, a cylinder at each end of said columns, a piston in each cylinder, a rack connected to each piston, the racks at the inner ends of said columns being parallel and extending in the same direction and the racks at the outer ends of said columns being parallel and extending in opposite directions, whereby when said hydraulic columns expand they will cause the rotation of the outer gear only and when said inner gear is rotated in either direction it will cause the outer gear to move in a plane parallel to said outer racks, and a passage between the outer ends of each pair of cylinders for assisting in preventing leakage past the pistons in said cylinders.

2,422,140

FREQUENCY MODULATED RECORDING AND REPRODUCING SYSTEM

Chester M. Sinnett, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 15, 1943, Serial No. 487,121
8 Claims. (Cl. 179—100.4)

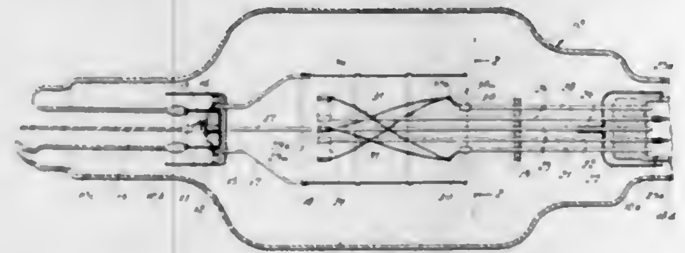


1. In a capacity pickup device: a metallic stylus, a metallic support, a record consisting of a relatively thin tape composed of paper, a face of said tape being provided with a plurality of embossed impressions in the form of hills and dales, said tape being positioned to move between said support and stylus with the stylus riding in said impressions, and said impressions being representative of frequency modulation signals.

2,422,141

FILAMENT STRUCTURE FOR ELECTRICAL DISCHARGE DEVICES

Joseph W. Skehan, Stamford, Conn., assignor to Machlett Laboratories, Inc., Springdale, Conn., a corporation of Connecticut
Application May 19, 1945, Serial No. 594,688
7 Claims. (Cl. 250—27.5)

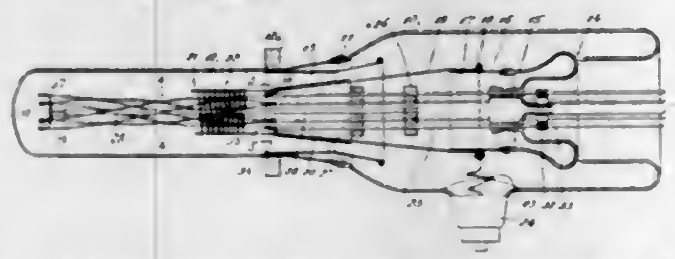


1. In a cathode filament structure, the combination of a pair of fixed supports laterally spaced from and angularly spaced about the axis of the structure, a third support spaced longitudinally of the structure from the pair of supports and lying spaced angularly about said axis from said supports and at the same side of both said supports, and a filament attached rigidly at its ends to the respective supports of the pair and anchored between its ends to the third support.

2,422,142

CATHODE STRUCTURE FOR ELECTRON DISCHARGE DEVICES

Joseph W. Skehan and Bror K. M. Magnusson, Stamford, Conn., assignors to Machlett Laboratories, Inc., Springdale, Conn., a corporation of Connecticut
Application May 26, 1945, Serial No. 596,038
10 Claims. (Cl. 250—27.5)



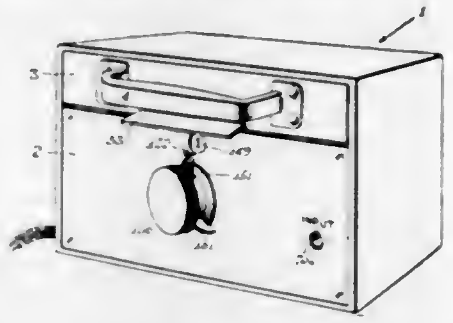
1. In a vacuum tube, a cathode including fixed supports disposed in spaced relation in two groups lying remote from one another, the supports in the respective groups lying in circular series in substantially parallel planes, and a plurality of filaments each connected rigidly to a pair of supports one in each group, the supports of each such pair being offset angularly from one another by an angle of not to exceed 360°, the filaments being of generally helical formation and of such form in cold condition, that the portions of the filament between their ends lie inward from a closed surface passing through the supports in the two series.

2,422,143

MAGAZINE TYPE MAGNETIC RECORDER AND REPRODUCER

Richard M. Somers, West Orange, and Roscoe C. Van Camp, Madison, N. J., assignors to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application January 31, 1944, Serial No. 520,508
26 Claims. (Cl. 179—100.2)

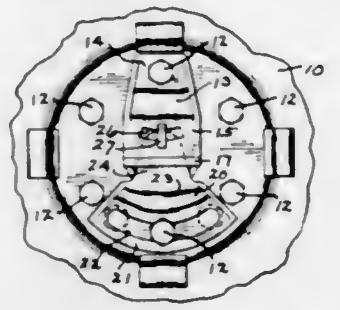
1. A telegraphone comprising a cabinet having a main portion and a slidably removable drawer portion, said drawer portion comprising a magnetizable element and drive mechanism for said element; a motor in said main portion for said drive mechanism; and a single drive connection between said main and removable portions for coupling said motor to said drive mechanism, said drive connection being disengageable to permit removal of said drawer portion.



2,422,144

WHEEL ABUTMENT FOR JACKS

Charles H. Stevens, Indianapolis, Ind.
Application February 6, 1946, Serial No. 645,717
3 Claims. (Cl. 254—133)



1. A jack abutment attachment for wheels having a ring of wheel securing bolts, comprising a bracket; a top leg inwardly turned from the upper portion of the bracket; a foot on the leg through which one of the wheel bolts may be passed; a knee on the underside of the bracket forming an abutment for the head of a lifting jack; a leg down and inturned from the bracket back of said knee; and a foot on said last leg through which may be passed one of said wheel bolts substantially diametrically removed from the said top foot bolt; said bracket having a slot through its forward portion below said top leg; said downturned leg being a separate member from the bracket; a neck extending from the upper portion of said downturned leg to enter said slot, whereby that leg may be rocked relative to the bracket to accommodate its foot to varying spacing apart and ring diameters of said bolts.

2,422,145

ESSENTIAL OIL COMPOSITIONS

Walter A. Taylor, Killingworth, Conn., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 21, 1942, Serial No. 431,819
17 Claims. (Cl. 99—140)

1. A composition comprising a clear, stable solution of a quantity of an essential oil and at least an equal quantity of a water-soluble hydroxy polyoxyethylene ether of a partial higher fatty acid ester of a low molecular weight polyhydroxylic compound, the said solution being capable, upon dilution with water, of forming a clear, stable aqueous dispersion of said essential oil and hydroxy polyoxyethylene ether.

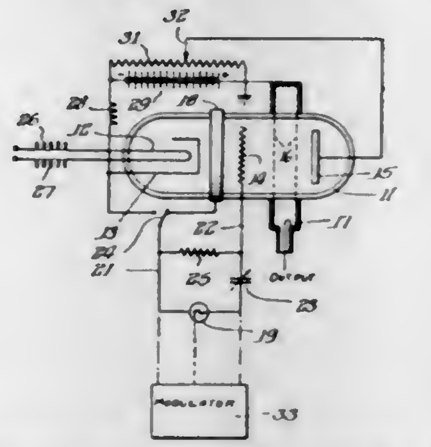
2,422,146

REFLEX HARMONIC GENERATOR

John W. Tiley, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application August 31, 1944, Serial No. 552,139

9 Claims. (Cl. 315—5)



1. A velocity modulation electron beam vacuum tube having a cathode, a control grid, a repeller electrode and a plurality of grids connected to a cavity resonator, a source of potential connected between said cathode and said resonator, a source of potential of lower value connected between said cathode and said repeller electrode, a source of high frequency energy connected to said grid, said source of high frequency energy being a sub-multiple of the resonant frequency of said resonator.

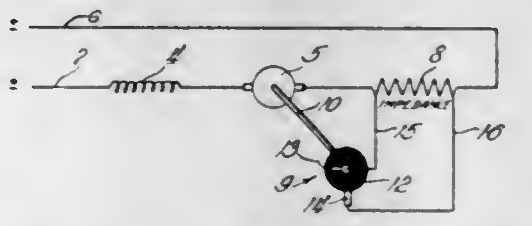
2,422,147

ELECTRIC MOTOR SPEED CONTROL SYSTEM AND METHOD

Earl L. Tornquist, Elmhurst, Ill., assignor of one-half to John A. Dienner, Evanston, Ill.

Application October 30, 1942, Serial No. 463,916

17 Claims. (Cl. 172—293)



1. In the operation of an asynchronous alternating current electric motor having a stator and a rotor, the method of holding the rotation of the rotor at a speed in predetermined ratio to the frequency of the alternations of the electric current operating the same which comprises periodically and in predetermined relation to the frequency of the alternating current impressing an impulse of alternating current voltage of less than half wave duration upon the motor when the rotor arrives at a predetermined angular position.

2,422,148

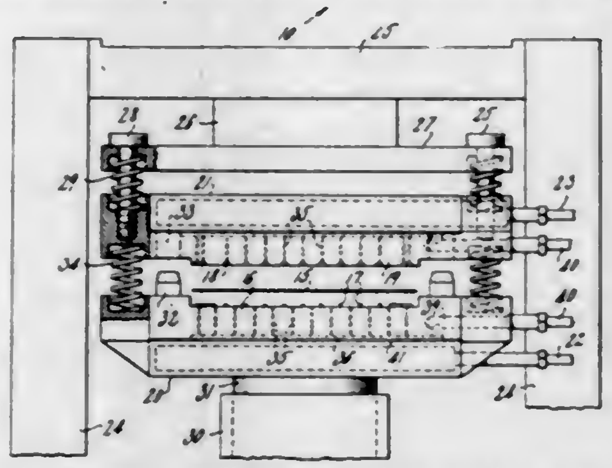
METHOD OF MAKING BATTERY SEPARATORS

Edwin C. Uhlig, Greenwood, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application December 7, 1944, Serial No. 567,081

7 Claims. (Cl. 18—56)

4. The method of producing an embossed microporous battery separator, which comprises the steps of forming a microporous sheet of heat-softenable organic plastic composition, wetting said sheet with a liquid that is a non-solvent for and is inert to the sheet and which boils at a temperature equal to or slightly above the embossing temperature, subjecting the sheet to a hot embossing pressure so as to emboss the sheet before substantially all of its contained liquid is driven off, while under this hot embossing pressure reducing the temperature of the embossed sheet to set the embossed design by forcing air therethrough to volatilize the liquid with cooling effect, and relieving the embossing pressure while the temperature of the sheet is so reduced.



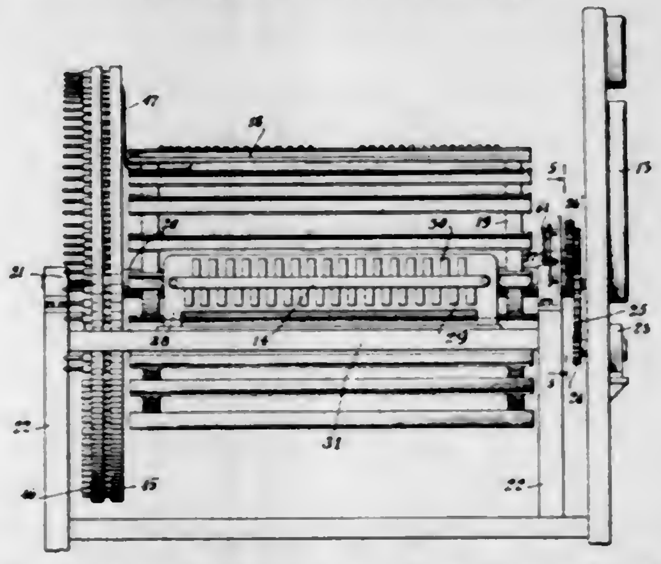
2,422,149

SIGN CONTROL AND SYSTEM

Edward H. Unkles, Weehawken, N. J., and Bert W. Roth, Riverdale, and Charles S. Whitney, Jr., Brooklyn, N. Y., assignors to Trans-Lux Ad-News Corporation, New York, N. Y., a corporation of New York

Application November 16, 1943, Serial No. 510,470

16 Claims. (Cl. 177—346)



10. A control system including in combination a transmitter with which there is to be associated and through which there is to be fed a tape having predetermined permutations of perforations, a selector mechanism connected to said transmitter to be operated thereby, a controller including relatively movable parts, cooperable groups of contacts associated with such parts, one of said groups being connectable to energizable elements, a setting head forming a part of said controller and comprising a plurality of elements actuated responsive to the operation of said selector for selectively energizing contacts of the second group, synchronizing means connected to be operated responsive to the relative movements of the parts of said controller, and means connecting said synchronizing means to govern the feeding of the tape through the transmitter and also the intervals of time during which the elements of said setting head are operated.

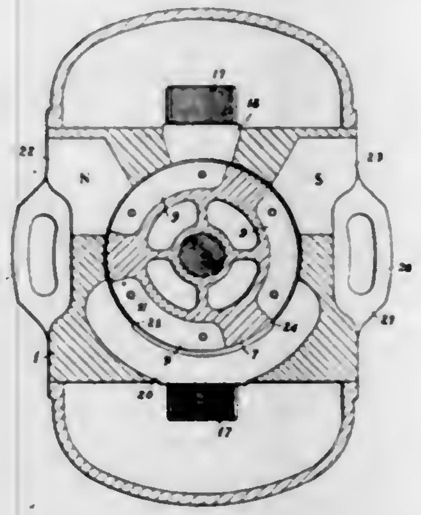
2,422,150

MAGNETO CONSTRUCTION

Frederick P. Upton, New Rochelle, N. Y., assignor to Geneto Corporation, Mount Vernon, N. Y.

Application February 10, 1945, Serial No. 577,281

17 Claims. (Cl. 171—209)



1. A magneto including a frame, a pair of permanent magnets carried by the frame, one on each side of a plane through the longitudinal axis of the magneto as specified herein, a pair of coil core pole pieces carried by the frame in arcuate spaced relation between said magnets and operatively connected with each end of a coil core, the said pole pieces being disposed, one each, adjacent opposite ends of said magnets, a pair of pole shoes carried by the frame and disposed, one each, directly opposite the coil core pole pieces, the shoes being operatively connected one at each end of another coil core, each of said cores carrying an ignition coil and a rotor carried by the frame and having arcuately spaced inductors at each end of the rotor for cooperation with said magnets, coil core pole pieces and pole shoes for producing flux changes through said coil cores as and for the purposes described.

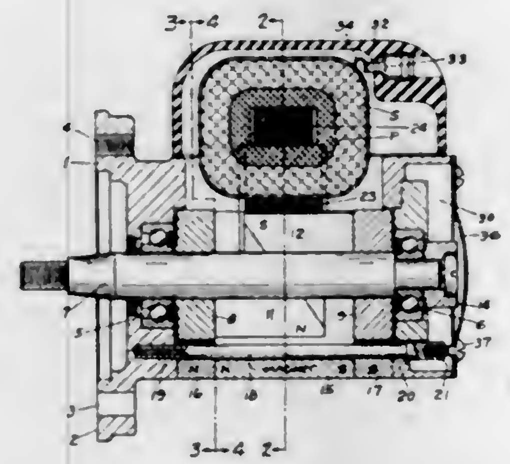
2,422,151

SINGLE AND MULTISPARK MAGNETO

Frederick P. Upton, New Rochelle, N. Y., assignor to Geneto Corporation, Mount Vernon, N. Y.

Application February 10, 1945, Serial No. 577,282

8 Claims. (Cl. 171—209)



1. A magneto having a frame, a semi-circular magnet carried by the frame, the magnet having its magnetic poles located on its opposite axial edges, semi-circular pole shoes held in the frame in edge contact against said magnet edges and each having arcuate flux-distributing faces, an ignition coil having a core and pole pieces therefor carried by the frame, and a rotor structure having spaced inductor units each composed of a circular disc mounted to rotate in close cooperation with said magnet pole shoe faces with inductor lobes extending from the discs toward each other in arcuate spaced relation for passing the magnet flux, picked up by said discs from the magnet, to said coil core pole pieces and through said core to excite said coil.

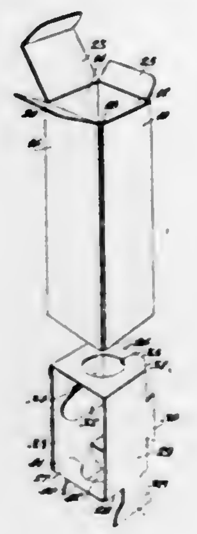
2,422,152

CONTAINER HAVING AN INNER SLIDABLE MERCHANDISE CARRIER

Clifford C. Vatter, Louisville, Ky., assignor to The Bradley & Gilbert Company, Louisville, Ky., a corporation of Kentucky

Application February 9, 1945, Serial No. 577,005

1 Claim. (Cl. 229—6)



A slide carton comprising an outer shell and a merchandise-containing member slidably received therein, said merchandise-containing member comprising an elongated strip having portions thereof foldable with respect to one another to form a rectangular box having side walls and end walls disposed to embrace the respective sides and ends of an article of merchandise, and lines of severing within the confines of at least one endwise portion of said rectangular form delineating portions which are bendable outwardly to constitute extended legs projecting beyond the said endwise portion and also to thereby provide an opening in said merchandise-containing member through which a portion of the merchandise in the slide carrier may be exposed, said last named endwise portion being integrally connected to the side portions along fold lines.

2,422,153

RUBBER BONDED ABRASIVES

Garret Van Nimwegen, Carl von Doenhoff, and Charles E. Wooddell, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

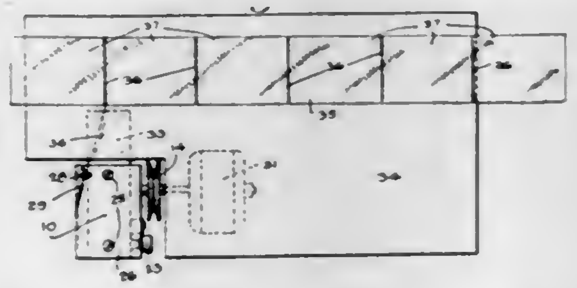
No Drawing. Application July 7, 1943, Serial No. 493,754

5 Claims. (Cl. 260—41)

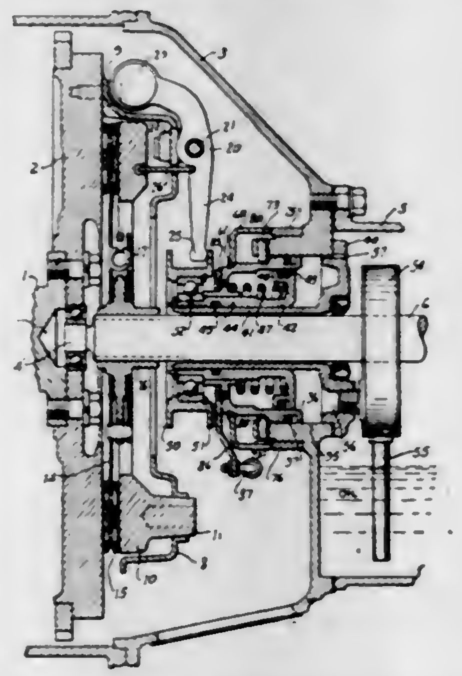
1. An ebonite cured composition comprising the reaction product of a copolymer of butadiene and styrene, sulfur in sufficient amount to vulcanize said copolymer to the ebonite state, a fatty acid, boric oxide in an amount from 0.1 to 15% by weight of said copolymer, and a non-reactive filler in a proportion by volume with respect to said copolymer of from 1:1 to 4.1:1.

2,422,154
APPARATUS FOR SEVERING KNITTED STRUCTURES
Charles Weller, Philadelphia, Pa.
Application September 15, 1945, Serial No. 616,546
7 Claims. (Cl. 28—17)

1. In a thread-removing apparatus of the character described, a pair of meshing gears, one of said gears being driven and the other being freely rotatable therewith, the teeth of said driven gear being each deformed adjacent its outer face to provide a series of notches spaced circumferentially about the peripheral edge of said driven gear, and a thread guide disposed above the driven gear at a point located inwardly of the notched portions of its teeth and in spaced relation to the meshing teeth of said gears.



2,422,155
CLUTCH AND CLUTCH OPERATING MECHANISM
Ernest E. Wemp, Detroit, Mich.
Application July 4, 1945, Serial No. 603,183
12 Claims. (Cl. 192—105)

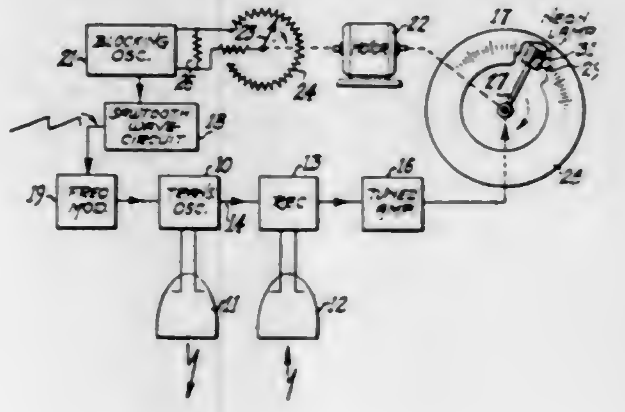


1. In combination, a centrifugal clutch for use between an internal combustion engine and a driven member, said clutch having a centrifugally unbalanced weight system and retractor spring means coordinated so that the clutch is disengaged at normal engine idling speeds and engages and disengages as the engine is accelerated and decelerated, auxiliary clutch retractor spring means, means operatively connecting the auxiliary retractor spring means to the weight system, and control means for conditioning the connecting means to selectively render the auxiliary retractor spring means effective and ineffective, whereby when effective, the retractor spring means and the auxiliary retractor spring means act together to maintain the clutch disengaged at a relatively high engine idling speed.

2,422,156
VULCANIZATION OF RUBBERLIKE BUTADIENE-1,3 POLYMERIZATES WITH PHENOL SULFIDES
George M. Wolf, Wyandotte, and Thomas E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 15, 1943, Serial No. 506,410
7 Claims. (Cl. 260—79)

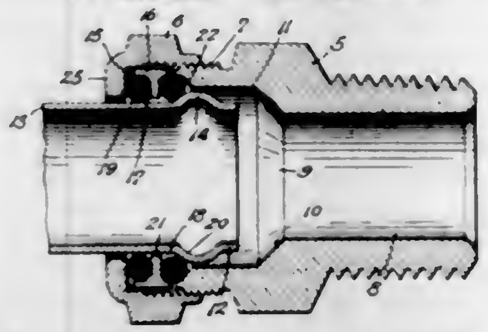
1. In the manufacture of vulcanized synthetic rubber products, the process which comprises mixing a synthetic rubber-like butadiene 1,3 polymerizate with a tertiary alkyl phenol sulfide consisting of at least two benzene rings interconnected by sulfur and substituted by hydroxyl and tertiary alkyl radicals in a ratio of between 5 and 25 parts of the phenol sulfide per 100 parts of the polymerizate, the sulfur of said phenol sulfide constituting at least 30% of the sulfur present in the vulcanization reaction mixture, and the sulfur of said phenol sulfide being in replacement of a corresponding amount of the sulfur normally required for the vulcanizing operation, and thereafter vulcanizing the reaction mixture.

2,422,157
DISTANCE MEASURING APPARATUS
Irving Wolff, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1942, Serial No. 452,990
10 Claims. (Cl. 250—1.58)



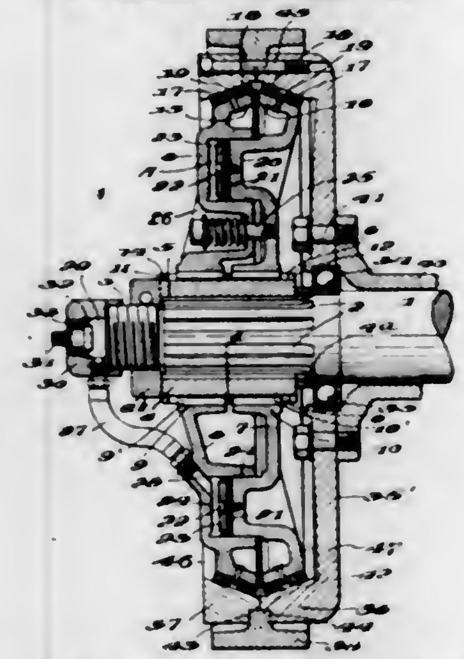
8. In apparatus for determining distance, a radio transmitter and a receiver located in the region of said transmitter, means for producing a periodic modulating wave that can be varied in amplitude and in frequency, means for frequency modulating said transmitter by said wave, means for heterodyning in said receiver said frequency modulated radio wave after reflection from an object with said frequency modulated radio wave received directly from said transmitter whereby a signal having a difference frequency is produced, an indicator comprising a scale and a relatively movable index marking means, a sharply tuned circuit connected to supply signal from said receiver to said indicator, and means for repeatedly changing the position of said index marking means with respect to said scale and for synchronously varying at least one of said two variable characteristics of the modulating wave whereby the distance from said transmitter to said object is shown by the position of said index mark with respect to the scale.

2,422,158
FLEXIBLE COUPLING
John N. Wolfram, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application November 21, 1944, Serial No. 564,460
2 Claims. (Cl. 285—90)



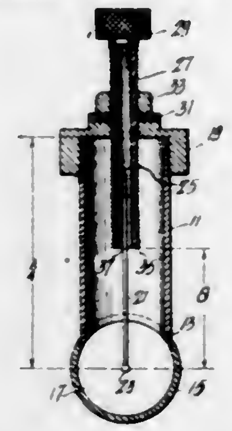
1. A flexible coupling for a tube having an enlarged end comprising a body member to which said tube is to be connected, and a nut having a threaded engagement with said body member, the end of said body member and the nut being shaped so as to provide an annular chamber, a sleeve disposed in said chamber and surrounding said tube, said sleeve being adapted to engage the end of the body member when the coupling is closed, said sleeve having an inwardly projecting annular rib formed integral therewith and disposed intermediate the ends thereof and having an opening therethrough of greater diameter than the diameter of the tube but of less diameter than the enlarged end of the tube, a deformable gasket disposed within the sleeve at one side of said rib and between said rib and the inner end of the body member, and adapted when the coupling is closed to make sealing engagement with the tube and the body member, a deformable gasket disposed within said sleeve on the opposite side of said rib and adapted to be contacted with by the nut when the coupling is closed, whereby said last-named gasket is forced into contact with the tube and thereby establish a second seal for the tube and a resilient support for the tube within the coupling.

2,422,159
FRICTION CLUTCH
Davis M. Wood, Seattle, Wash., assignor to Pacific Car and Foundry Company, Renton, Wash.
Application October 6, 1944, Serial No. 557,447
2 Claims. (Cl. 192—85)



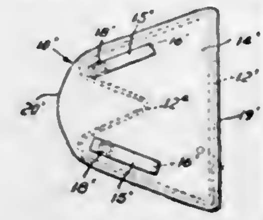
1. In a clutch assembly, a shaft having a threaded end portion, a hub fixed to the shaft, means for adjusting said hub axially on said shaft including a nut member normally positioned inward of the shaft extremity, said hub having a splined outer surface, plates having clutch faces at their peripheral faces carried by said hub and relatively movable thereon, means for limiting the relative movement of said plates on said hub, an annular cylinder formed in the inner face of one of said plates, an annular piston formed in the inner face of the other plate, said cylinder and piston being spaced medially between the clutch faces and said hub to form a central guiding structure for said parts, a member forming a fluid chamber threaded on the end of said shaft, a fluid connection between said chamber and cylinder, and a swivelled connection for feeding fluid to said fluid chamber.

2,422,160
VARIABLE REACTANCE DEVICE FOR COAXIAL LINES
Oakley M. Woodward, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 13, 1944, Serial No. 540,108
4 Claims. (Cl. 178—44)



3. A variable reactance device comprising an outer tubular conductive member substantially one-quarter wavelength long at operating frequency, a second tubular conductive member extending coaxially within said outer member and connected thereto at one end of said outer member, and an innermost conductor extending coaxially within said outer conductor and into said second conductor, said second conductor being adjustable longitudinally with respect to said outer and innermost conductors.

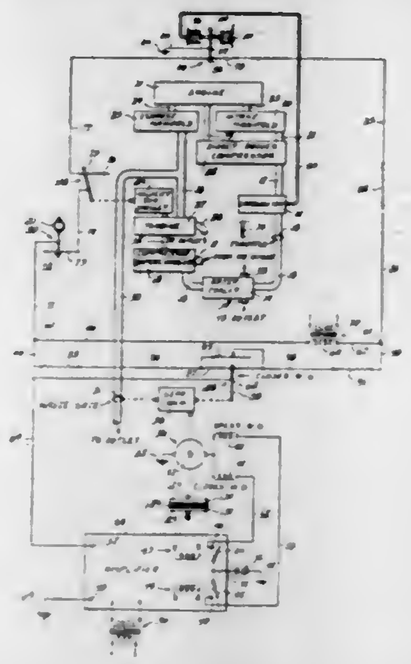
2,422,161
SHOULDER PAD
Florence B. Zacks, Columbus, Ohio
Application December 21, 1946, Serial No. 717,637
10 Claims. (Cl. 2—268)



8. In a shoulder pad of the class described, which comprises a soft yieldable arched body member of a roughly triangular configuration, the combination of a pliant reinforcing support member comprising a wire frame embedded in said body member and approximately following the periphery thereof except adjacent an apex of the triangular configuration nearest the neck of the wearer, where said frame is provided with

a reentrant angle, said frame serving to impart and maintain the shape of the pad, and a tensioned retaining tape secured at its ends to the underside of the pad and extending approximately in the direction of the extent of the shoulder, said tape providing means for frictionally engaging a garment shoulder strap passed between the body member and the tape, said reinforcing member being pliant enough to render it capable of being bent to various shapes to conform the pad to individual shoulders while at the same time sufficiently stiff to resist distortion of the pad by the tensions set up by the attaching tape, said reentrant angle providing a gap in the contour of the frame to relieve any possible pressure on the crown of the shoulder.

2,422,162
CONTROL SYSTEM
George L. Borell, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 25, 1944, Serial No. 523,872
7 Claims. (Cl. 60—13)



1. In combination, a combustion engine having a compressor for supplying air to the intake manifold of the engine and a turbine powered by exhaust gases from the engine for operating the compressor, means for adjusting the operating speed of the turbine and compressor to thereby control the compressing effect of the latter, and motor means for operating said adjusting means to increase and decrease the operating speeds of the turbine and compressor, said motor means being operative to increase the operating speeds at a more gradual rate than it decreases these speeds.

2,422,163
CATALYTIC CONVERSION OF AROMATIC COMPOUNDS
James Kenneth Dixon, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 21, 1945, Serial No. 611,926
11 Claims. (Cl. 260—668)

1. A process of producing a plurality of aromatic compounds which comprises heating a paraffin having at least two carbon atoms and having two aryl substituents attached to one of said carbon atoms at a temperature which will cause said paraffin to decompose into a plurality of aromatic compounds in the presence of a catalyst and which is at least 350° C., in the presence of a titania-alumina-silica catalyst.

2,422,164
CATALYTIC METHOD OF PRODUCING AROMATIC COMPOUNDS
James Kenneth Dixon, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 21, 1945, Serial No. 611,927
11 Claims. (Cl. 260—668)

1. A process of producing a plurality of aromatic compounds which comprises heating a paraffin having at least two carbon atoms and having two aryl substituents attached to one of said carbon atoms at a temperature which will cause said paraffin to decompose into a plurality of aromatic compounds in the presence of a catalyst and which is at least 350° C., in the presence of a zirconia-alumina-silica catalyst.

2,422,165
PRODUCTION OF AROMATIC COMPOUNDS
James Kenneth Dixon, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 21, 1945, Serial No. 611,928
12 Claims. (Cl. 260—668)

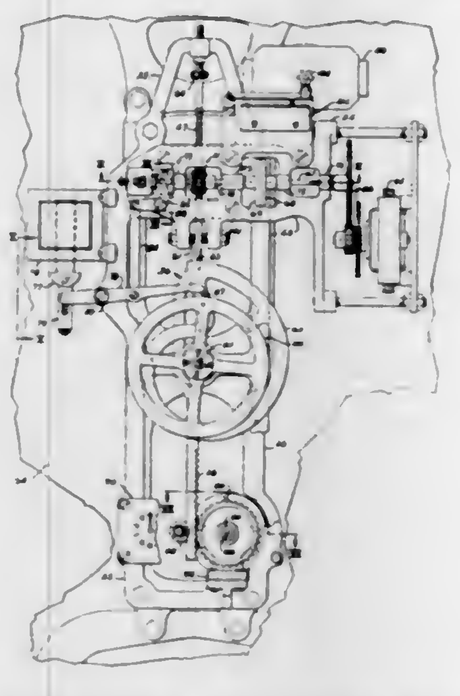
1. A process of producing a plurality of aromatic compounds which comprises heating a paraffin having at least two carbon atoms and having two aryl substituents attached to one of said carbon atoms at a temperature which will cause said paraffin to decompose into a plurality of aromatic compounds in the presence of a catalyst and which is at least 350° C. in the presence of a thoria-alumina-silica catalyst.

2,422,166
PROCESS OF PRODUCING AROMATIC COMPOUNDS
James Kenneth Dixon, Riverside, and Donald R. May, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 21, 1945, Serial No. 611,923
13 Claims. (Cl. 260—668)

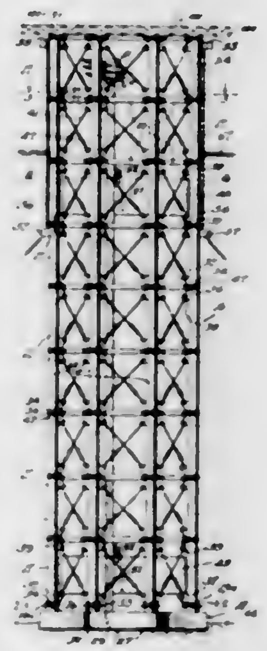
1. A process of producing a plurality of aromatic compounds which comprises heating a paraffin having at least two carbon atoms and having two aryl substituents attached to one of said carbon atoms at a temperature which will cause said paraffin to decompose into a plurality of aromatic compounds in the presence of a catalyst and which is at least 350° C. in the presence of a zirconium oxide catalyst.

2,422,167
INTEGRATING WEIGHING SCALE
Halvor O. Hem, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application July 9, 1943, Serial No. 494,001
3 Claims. (Cl. 265—28)

1. In a weighing scale, in combination, load counterbalancing and load indicating means, a spiral cam positioned by the load indicating means, a reciprocatory slide, a continuously running motor and slipping clutch for holding the slide against a stop and free of said cam, a solenoid for disengaging said clutch to allow said slide to move into contact with said cam, and means for totalizing the motion of said slide.



2,422,168
MARINE TOWER AND METHOD OF PLACING SAME
George L. Kirby, Houston, Tex., assignor to Kirby Development Corporation, San Antonio, Tex., a corporation of Texas
Application October 23, 1945, Serial No. 624,023
22 Claims. (Cl. 61—46)



1. A floatable structural marine tower, to rest on a water-bed and extend above the surface of the water to support a superimposed load thereupon, comprising a hollow annular-like watertight casing forming a buoyant base to rest upon the water-bed, an open framework to support said superimposed load and extending from said base and arranged about the central opening in said base, and means for controllably flooding and emptying said base; said framework and the opening in said base defining an unobstructed open-work-area or shaft extending the length of the tower to allow multiple drilling operations through the center of the tower.

2,422,169
PRODUCTION OF AROMATIC COMPOUNDS
Donald R. May, Stamford, and James Kenneth Dixon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 21, 1945, Serial No. 611,924
15 Claims. (Cl. 260—668)

1. A process of producing a plurality of aromatic compounds which comprises heating a paraffin having at least two carbon atoms and having two aryl substitutents attached to one of said carbon atoms at a temperature which will cause said paraffin to decompose into a plurality of aromatic compounds in the presence of a catalyst and which is at least 350° C. in the presence of a titanium oxide catalyst.

2,422,170
SULFANILYLSULFANILAMIDE
Maurice L. Moore, Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application July 5, 1943, Serial No. 493,577
10 Claims. (Cl. 260—397.7)

1. An N^4-carboxyacyl-N^1-(4-sulfamylphenyl)-sulfanilamide, in which the carboxyacyl group is a monoacyl radical of a dicarboxylic acid selected from the aliphatic and aromatic dicarboxylic acids.

2,422,171
METHODS OF PRODUCING ARYL COMPOUNDS
Kenneth W. Saunders, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 21, 1945, Serial No. 611,919
11 Claims. (Cl. 260—668)

1. A process of producing a plurality of aromatic compounds which comprises heating a paraffin having at least two carbon atoms and having two aryl substituents attached to one of said carbon atoms at a temperature which will cause said paraffin to decompose into a plurality of aromatic compounds in the presence of a catalyst and which is at least 350° C., in the presence of a magnesia-alumina-silica catalyst.

2,422,172
THERMOSTABLE CATALYSTS FOR THE DEHYDROGENATION OF HYDROCARBONS
Albert E. Smith and Otto A. Beeck, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 28, 1942, Serial No. 452,656
16 Claims. (Cl. 196—50)

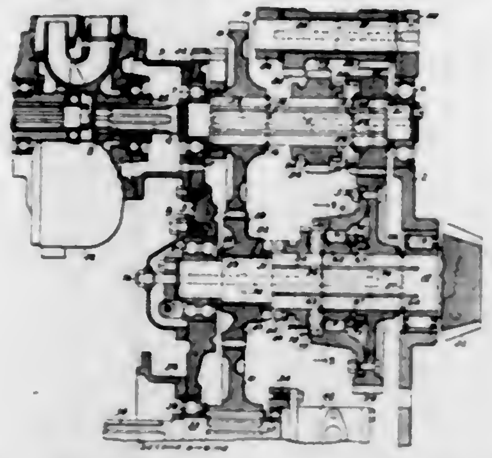
14. A process for the catalytic dehydrogenation of a dehydrogenatable hydrocarbon wherein the catalyst is periodically regenerated by burning deposited carbonaceous materials therefrom which comprises contacting the hydrocarbon to be dehydrogenated under dehydrogenation conditions with a catalyst composite comprising a dehydrogenating promoter of relatively high activity incorporated on the surface of an adsorptive alumina compound prepared by impregnating an adsorptive gamma alumina of the Haber system with from about 1% to about 10% of an alkaline earth metal in the form of a compound

capable of being converted to the oxide by heating, heating the mixture at a temperature between about 950° C. and 1250° C. for a time to convert at least the surface into the corresponding alkaline earth beta alumina of the general formula $3RO \cdot 16Al_2O_3$, wherein R represents the alkaline earth metal, and thereafter incorporating said dehydrogenating promoter on said surface.

2,422,173
TRANSMISSION

William F. Wilson, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Original application January 12, 1944, Serial No. 517,941. Divided and this application March 23, 1945, Serial No. 584,315
8 Claims. (Cl. 74—359)

1. In a change speed transmission, driving and driven shafts rotatable, respectively, on relatively spaced axes, a relatively large diameter high speed gear non-rotatably secured to said driving shaft, a relatively small diameter high speed gear rotatively loose on said driven shaft and in contact mesh with said large diameter gear, relatively small and large diameter low speed gears rotatively loose, respectively, on said driving and driven shafts and in constant mesh with each other, a reverse idler in constant mesh with said large diameter low speed gear, a combined gear and clutch element non-rotatably connected with said driving shaft and shiftable axially thereof alternately into clutching engagement with said small diameter low speed gear and into meshing engagement with said idler, an overrunning clutch operatively interposed between said large diameter low speed gear and said driven shaft and effective to connect said driven shaft with said large diameter low speed gear for rotation in unison therewith upon transmission of power from said driving shaft to said large diameter low speed gear through said small diameter low speed gear, and a control element non-rotatably connected with said driven shaft and shiftable axially thereof alternately into clutching engagement with said small diameter high speed gear and with said large diameter low speed gear.

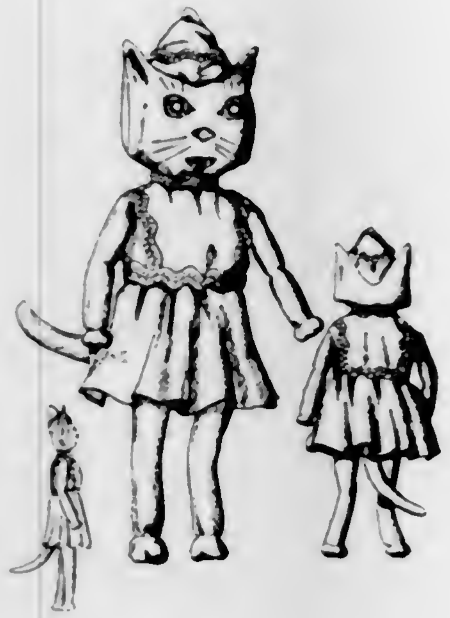


DESIGNS

JUNE 10, 1947

146,892
DESIGN FOR A TOY CAT OR THE LIKE

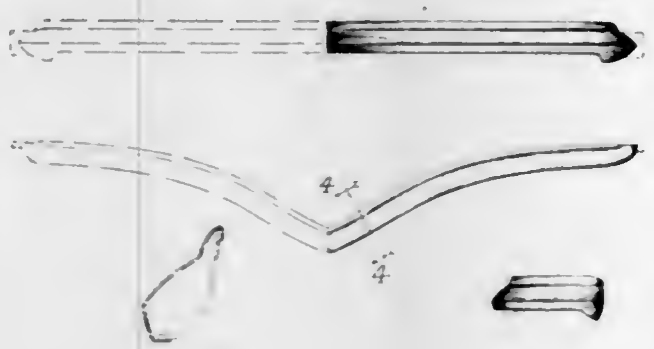
Candus R. Bailey, Lewiston, Idaho
Application December 19, 1945, Serial No. 124,858
Term of patent 3½ years
(Cl. D34—2)



The ornamental design for a toy cat or the like, as shown.

146,893
DESIGN FOR AN AUTOMOBILE GRILLE BAR

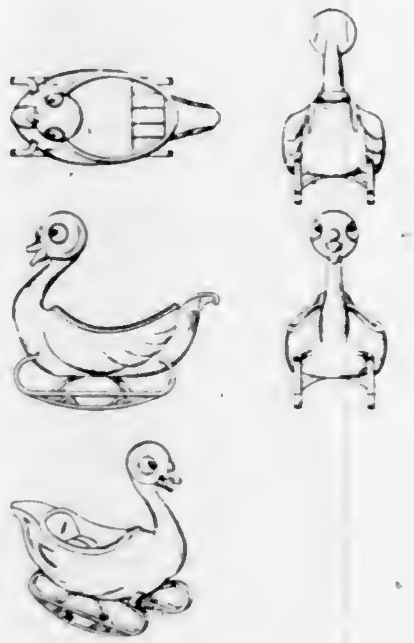
Harry Thomas Bannister, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 29, 1945, Serial No. 125,115
Term of patent 7 years
(Cl. D14—6)



The ornamental design for an automobile grille bar, substantially as shown and described.

146,894
DESIGN FOR A CHILD'S ROCKER

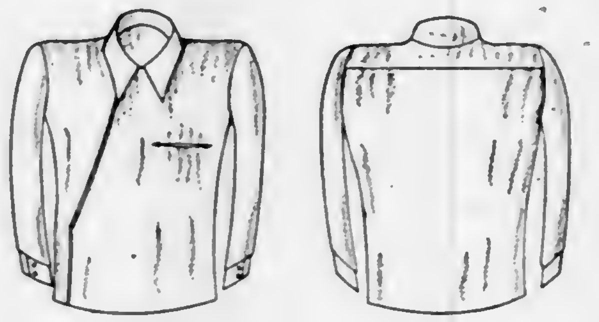
Bernard Bellville, St. Louis, Mo.
Application April 12, 1946, Serial No. 128,550
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a child's rocker, substantially as shown.

146,895
DESIGN FOR A SHIRT

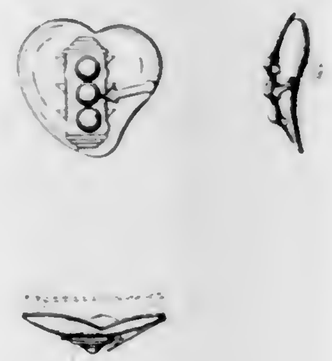
Montie M. Brohard, Jr., Cincinnati, Ohio
Application December 23, 1944, Serial No. 117,055
Term of patent 14 years
(Cl. D3—25)



The ornamental design for a shirt, as shown.

146,896
DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE

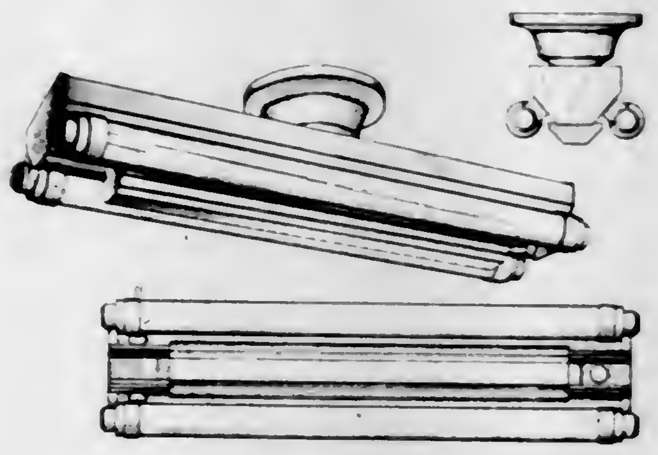
Laurie J. Campbell, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application June 11, 1946, Serial No. 130,601
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

146,897
DESIGN FOR A LAMP FIXTURE

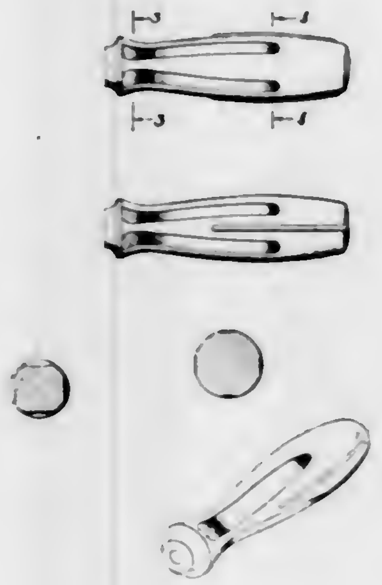
Robert A. Clark, Jr., Chicago, Ill.
Application November 5, 1945, Serial No. 123,456
Term of patent 3½ years
(Cl. D48—23)



The ornamental design for a lamp fixture, substantially as shown.

146,898
DESIGN FOR A HANDLE FOR SCREW-DRIVERS AND THE LIKE

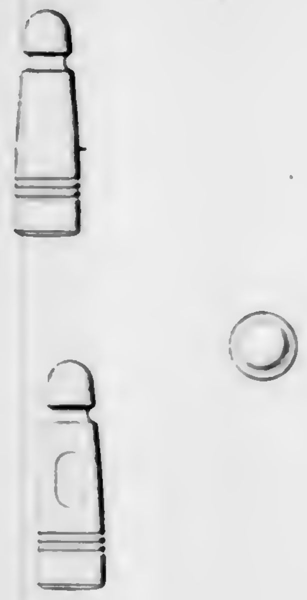
Elmer H. Daniels, Pasadena, Calif., assignor to The Plomb Tool Company, Los Angeles, Calif., a corporation of California
Application February 25, 1946, Serial No. 127,208
Term of patent 14 years
(Cl. D93—4)



The ornamental design for a handle for screwdrivers and the like, substantially as shown.

146,899
DESIGN FOR A HAMMER HEAD

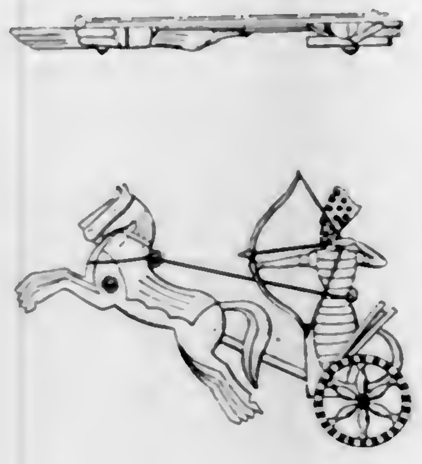
Elmer H. Daniels, Pasadena, Calif., assignor to The Plomb Tool Company, Los Angeles, Calif., a corporation of California
Application February 25, 1946, Serial No. 127,270
Term of patent 14 years
(Cl. D93—4)



The ornamental design for a hammer head, substantially as shown.

146,900
DESIGN FOR A PIN OR SIMILAR ARTICLE

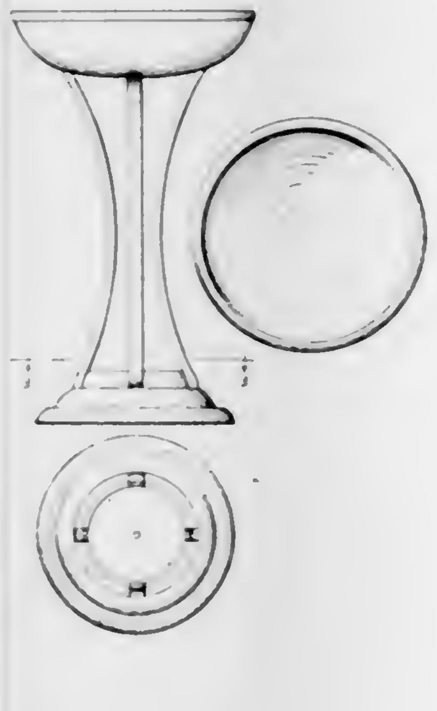
George E. Fearn, New York, N. Y., assignor to Kaufman-Ruderman Co. Inc., New York, N. Y., a corporation of New York
Application April 6, 1946, Serial No. 128,350
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

146,901
DESIGN FOR A BIRDBATH

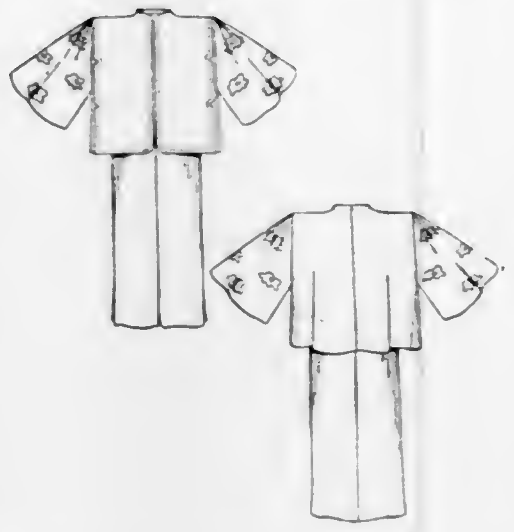
Ciro Americo Fiorio, Northfield, Ill.
Application December 13, 1945, Serial No. 124,680
Term of patent 7 years
(Cl. D35—3)



The ornamental design for a birdbath, as shown.

146,902
DESIGN FOR A SUIT

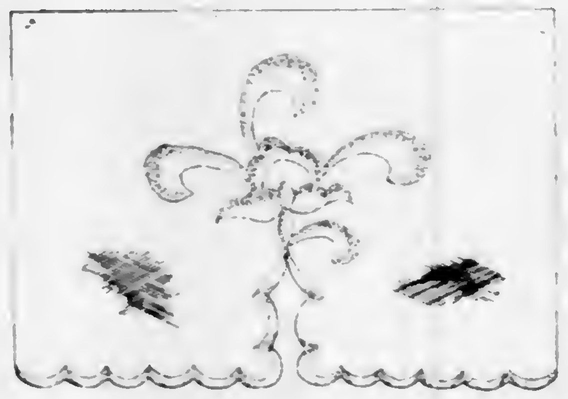
Jules Freedman, New York, N. Y.
Application December 5, 1946, Serial No. 135,293
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

146,903
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE

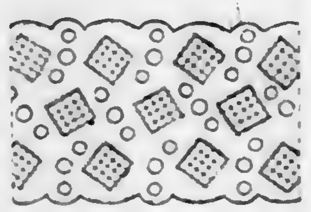
Beatrice Friedman, New York, N. Y.
Application October 21, 1946. Serial No. 134,144
Term of patent 7 years
(Cl. D92—1)



The ornamental design for an embroidered trimming or the like, substantially as shown.

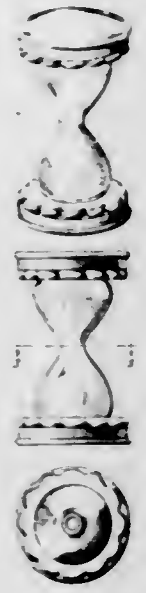
146,904
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE

Beatrice Friedman, New York, N. Y.
Application January 3, 1947, Serial No. 135,921
Term of patent 7 years
(Cl. D92—1)



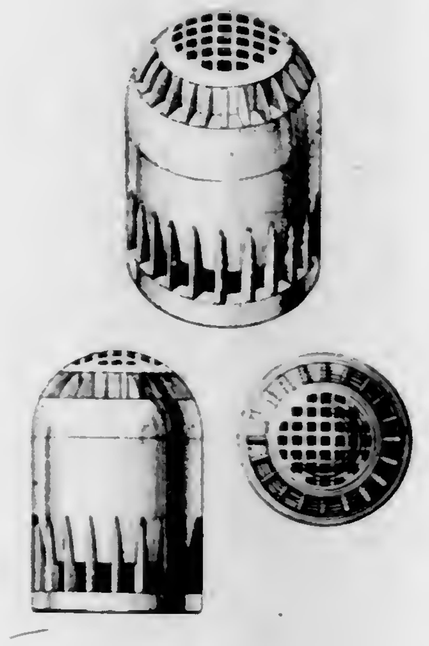
The ornamental design for an embroidered trimming or the like, substantially as shown.

146,905
DESIGN FOR A BOTTLE
Hugh Genske, Philadelphia, Pa.
Application August 17, 1945, Serial No. 121,457
Term of patent 3½ years
(Cl. D58—9)



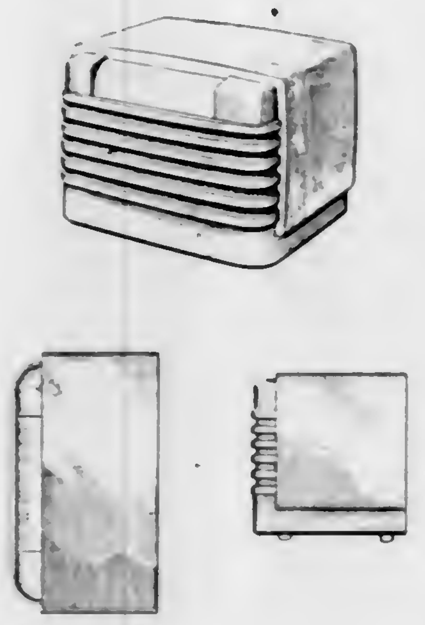
The ornamental design for a bottle, as shown.

146,906
DESIGN FOR A VAPORIZER OR SIMILAR ARTICLE
Charles W. Gibson, Chicago, Ill.
Application March 5, 1946, Serial No. 127,118
Term of patent 3½ years
(Cl. D83—1)



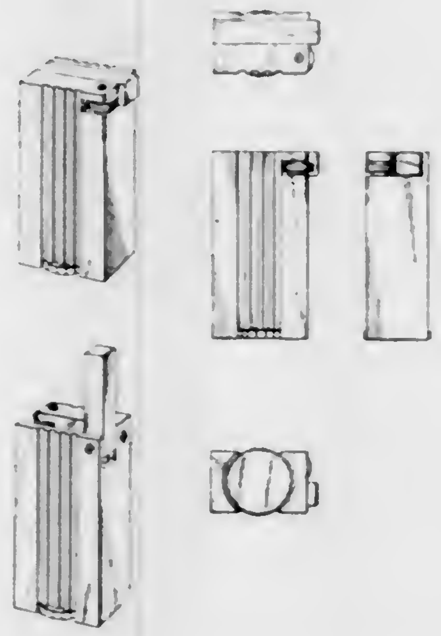
The ornamental design for a vaporizer or similar article, substantially as shown.

146,907
DESIGN FOR A RADIO CABINET OR THE LIKE
James Franklin Glover, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 6, 1946, Serial No. 126,305
Term of patent 3½ years
(Cl. D56—4)



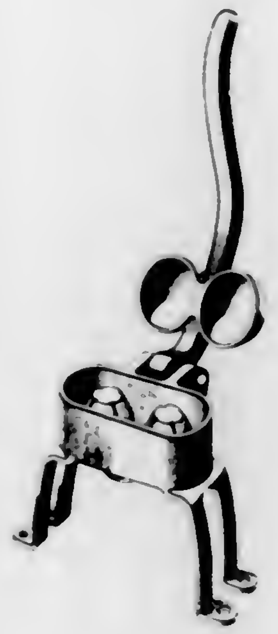
The ornamental design for a radio cabinet or the like, as shown and described.

146,908
DESIGN FOR A CIGARETTE LIGHTER
Raymond J. Goddard and Leonard Dalkoff, Rock Island, Ill., assignors to Aztec Supply Co., Rock Island, Ill., a corporation of Illinois
Application October 27, 1945, Serial No. 123,250
Term of patent 3½ years
(Cl. D48—27)



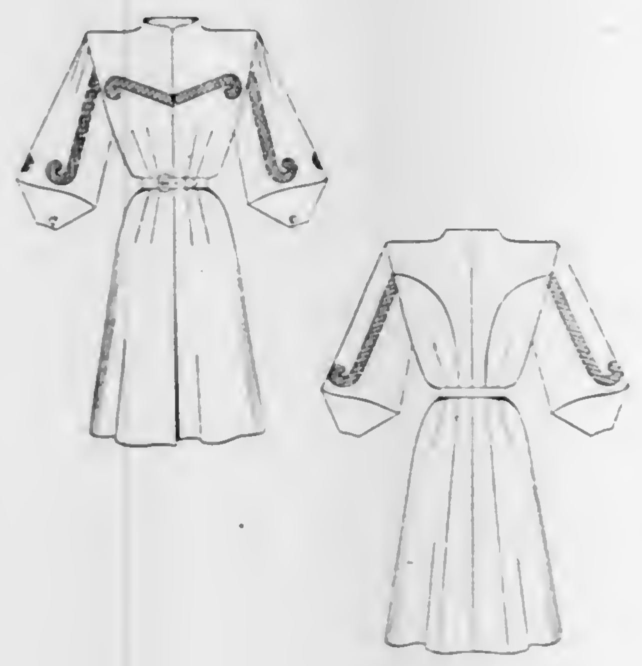
The ornamental design for a cigarette lighter, as shown.

146,909
DESIGN FOR A FRUIT SQUEEZER
Owen Luther Godwin, Lakeland, Fla.
Application February 26, 1946, Serial No. 126,915
Term of patent 14 years
(Cl. D89—1)



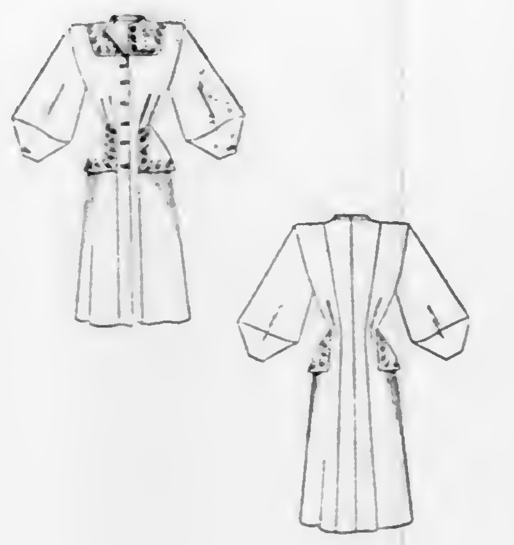
The ornamental design for a fruit squeezer, as shown.

146,910
DESIGN FOR A COAT
Irving Goldstein, New York, N. Y.
Application December 5, 1946, Serial No. 135,278
Term of patent 3½ years
(Cl. D3—4)



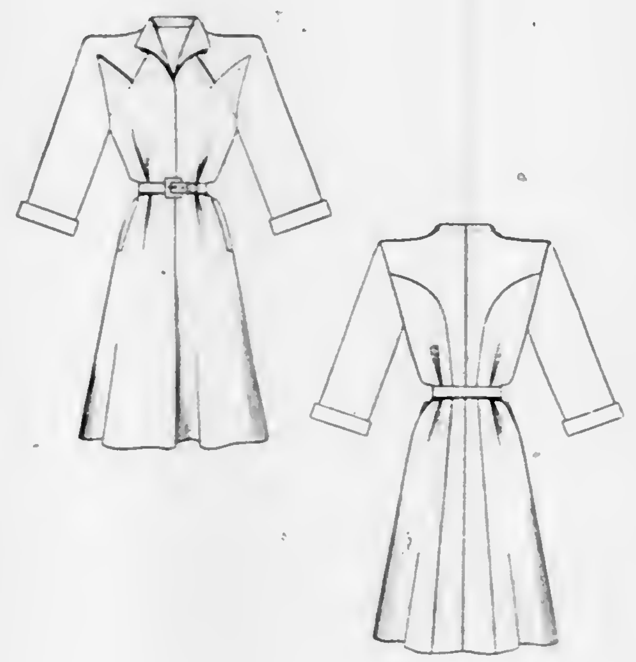
The ornamental design for a coat, substantially as shown.

146,911
DESIGN FOR A COAT
Irving Goldstein, New York, N. Y.
Application December 5, 1946, Serial No. 135,279
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

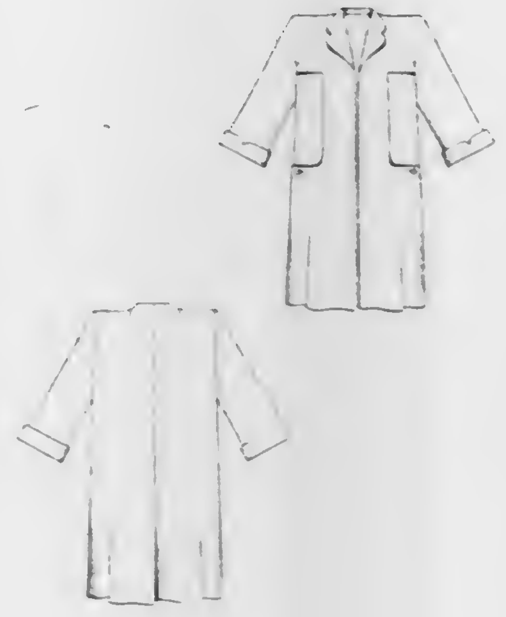
146,912
DESIGN FOR A COAT
Irving Goldstein, New York, N. Y.
Application December 5, 1946, Serial No. 135,283
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

146,913
DESIGN FOR A COAT

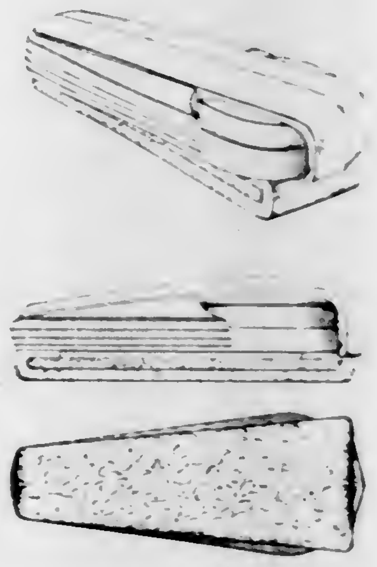
Irving Goldstein, New York, N. Y.
Application December 5, 1946, Serial No. 135,291
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

146,914
DESIGN FOR A COMBINATION SHOE POLISHING KIT

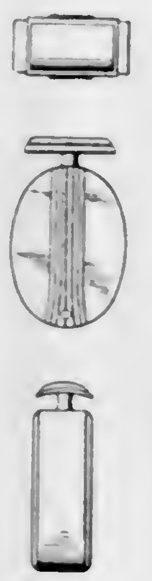
Bernard A. Grae, Chicago, Ill.
Application April 22, 1946, Serial No. 128,847
Term of patent 7 years
(Cl. D9—2)



The ornamental design for a combination shoe polishing kit, as shown.

146,915
DESIGN FOR A SAFETY RAZOR OR SIMILAR ARTICLE

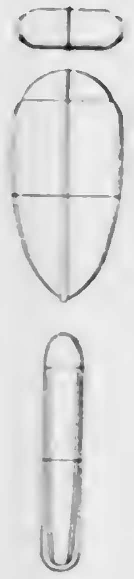
Clarence P. Hornung, New York, N. Y., assignor to Consolidated Razor Blade Co. Inc., Jersey City, N. J., a corporation of New Jersey
Application February 16, 1946, Serial No. 126,607
Term of patent 7 years
(Cl. D22—3)



The ornamental design for a safety razor or similar article, as shown.

146,916
DESIGN FOR A SAFETY RAZOR CASING OR SIMILAR ARTICLE

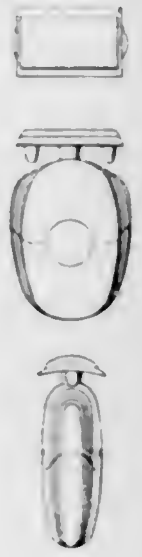
Clarence P. Hornung, New York, N. Y., assignor to Consolidated Razor Blade Co. Inc., Jersey City, N. J., a corporation of New Jersey
Application February 16, 1946, Serial No. 126,608
Term of patent 7 years
(Cl. D22—3)



The ornamental design for a safety razor casing or similar article, as shown.

146,917
DESIGN FOR A SAFETY RAZOR OR SIMILAR ARTICLE

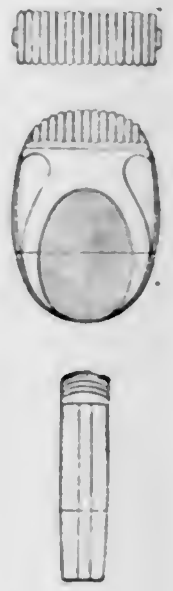
Clarence P. Hornung, New York, N. Y., assignor to Consolidated Razor Blade Co. Inc., Jersey City, N. J., a corporation of New Jersey
Application February 16, 1946, Serial No. 126,609
Term of patent 7 years
(Cl. D22—3)



The ornamental design for a safety razor or similar article, as shown.

146,918
DESIGN FOR A SAFETY RAZOR CASING OR SIMILAR ARTICLE

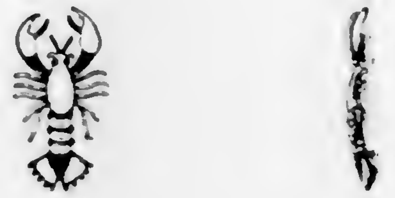
Clarence P. Hornung, New York, N. Y., assignor to Consolidated Razor Blade Co. Inc., Jersey City, N. J., a corporation of New Jersey
Application February 16, 1946, Serial No. 126,611
Term of patent 7 years
(Cl. D22—3)



The ornamental design for a safety razor casing or similar article, as shown.

146,919
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

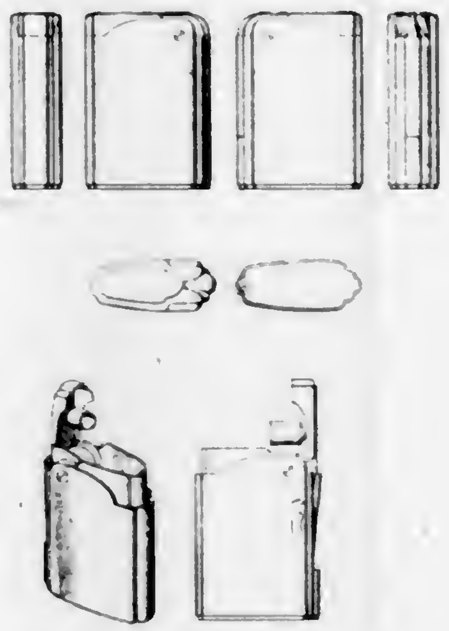
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 2, 1946, Serial No. 126,207
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,920
DESIGN FOR A LIGHTER OR SIMILAR ARTICLE

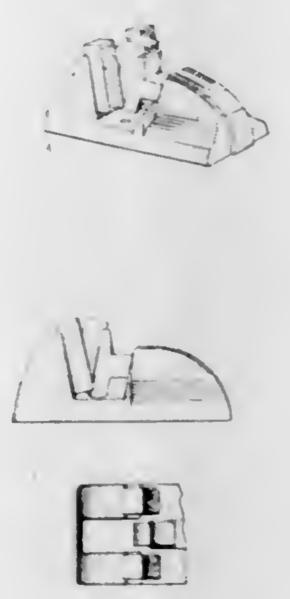
Frederick Kaupmann, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application December 6, 1945, Serial No. 124,433
Term of patent 14 years
(Cl. D48—27)



The ornamental design for a lighter or similar article, substantially as shown.

146,921
DESIGN FOR A KNIFE SHARPENER

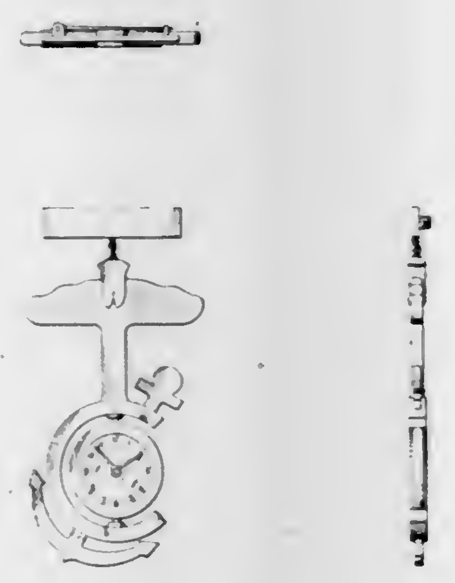
Reuben B. Lambert, Erie, Pa., assignor to Superedge Corporation, Erie, Pa., a corporation of Pennsylvania
Application December 3, 1945, Serial No. 124,297
Term of patent 14 years
(Cl. D37—1)



The ornamental design for a knife sharpener, substantially as shown and described.

146,922
DESIGN FOR A LAPEL WATCH OR SIMILAR ARTICLE

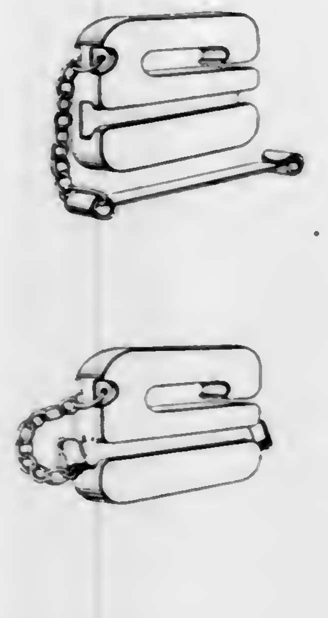
Frances E. Lauro, Bronx, N. Y.
Application August 14, 1946, Serial No. 132,500
Term of patent 3½ years
(Cl. D42—8)



The ornamental design for a lapel watch or similar article, as shown.

146,923
DESIGN FOR A HOSE SUPPORTER

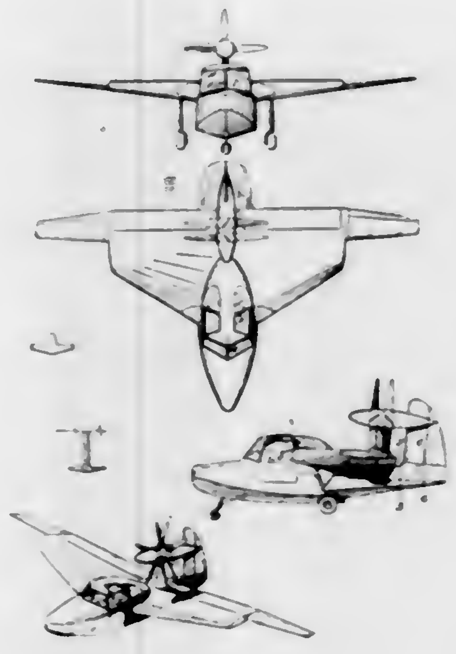
Samuel W. Leming, Pittsburgh, Pa.
Application April 26, 1946, Serial No. 128,972
Term of patent 7 years
(Cl. D17—9)



The ornamental design for a hose supporter, substantially as shown and described.

146,924
DESIGN FOR AN AIRPLANE

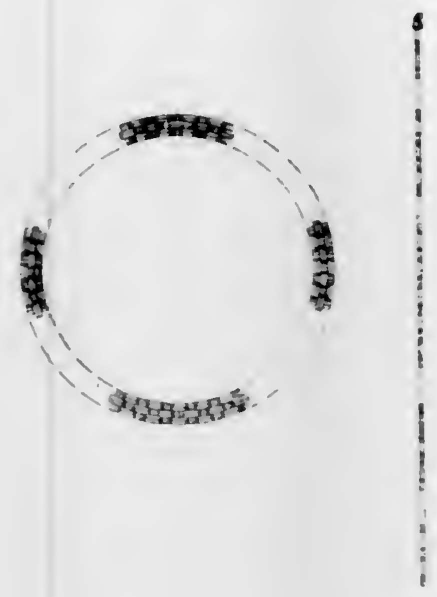
Wallace H. McLauchlan, Los Angeles, Calif.
Application August 17, 1945, Serial No. 121,479
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, substantially as shown.

146,925
DESIGN FOR A NECKLACE OR SIMILAR ARTICLE

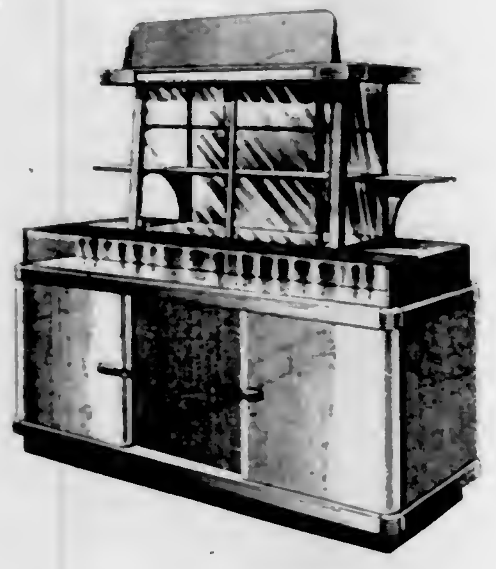
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 3, 1946, Serial No. 135,228
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or similar article, substantially as shown and described.

146,926
DESIGN FOR A SHOWCASE

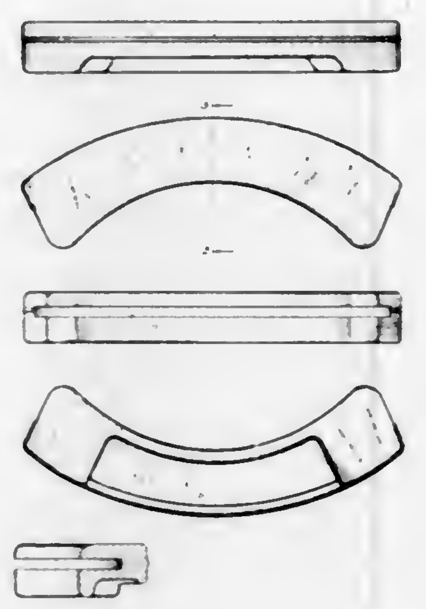
Joseph B. Platt, New York, N. Y., assignor to Stephen F. Whitman & Son, Inc., Philadelphia, Pa.
Application March 20, 1946, Serial No. 127,689
Term of patent 14 years
(Cl. D80—11)



The ornamental design for a showcase, as shown and described.

146,927
DESIGN FOR A HANDLE FOR PLATTERS AND THE LIKE

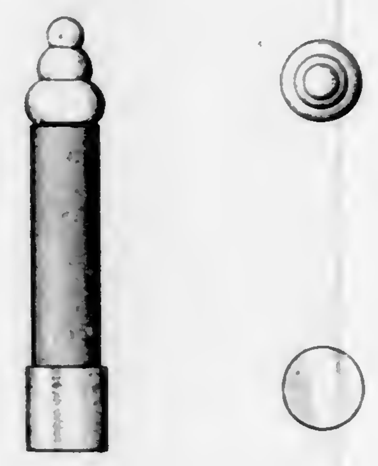
Alfred Faustin Ramsthal, West Bend, Wis., assignor to West Bend Aluminum Company, West Bend, Wis., a corporation of Wisconsin
Application January 31, 1946, Serial No. 126,125
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a handle for platters and the like, as shown.

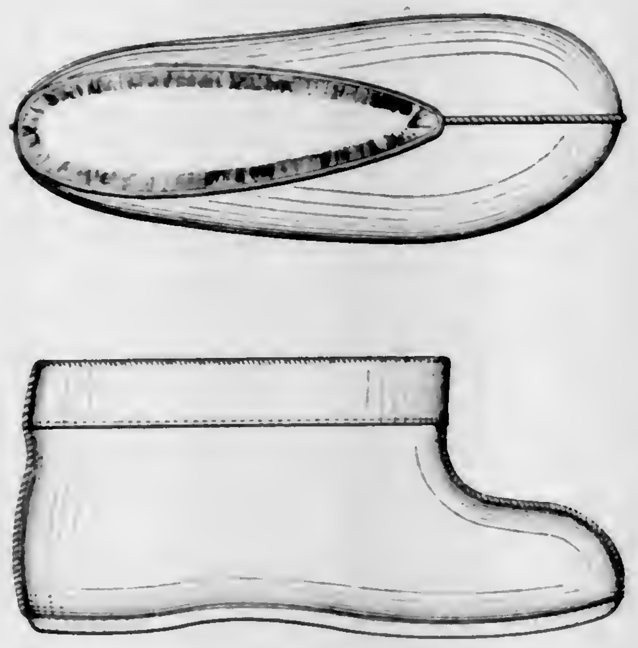
146,928
DESIGN FOR A PERFUME CONTAINER OR THE LIKE

Edward P. Schreyer, Ridgefield, Conn.
Application August 23, 1946, Serial No. 132,770
Term of patent 14 years
(Cl. D86—10)



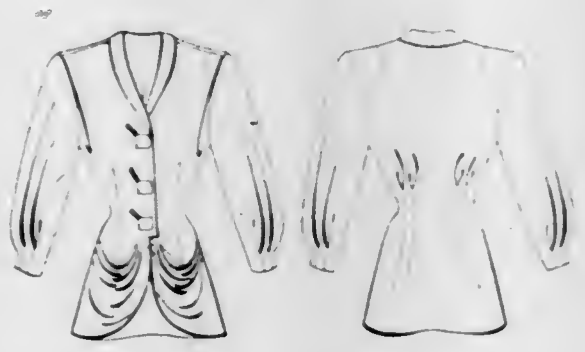
The ornamental design for a perfume container or the like, substantially as shown.

146,929
DESIGN FOR A SHOE
Myer S. Silver, Brookline, Mass.
Application January 25, 1947, Serial No. 136,435
Term of patent 3½ years
(Cl. D7—7)



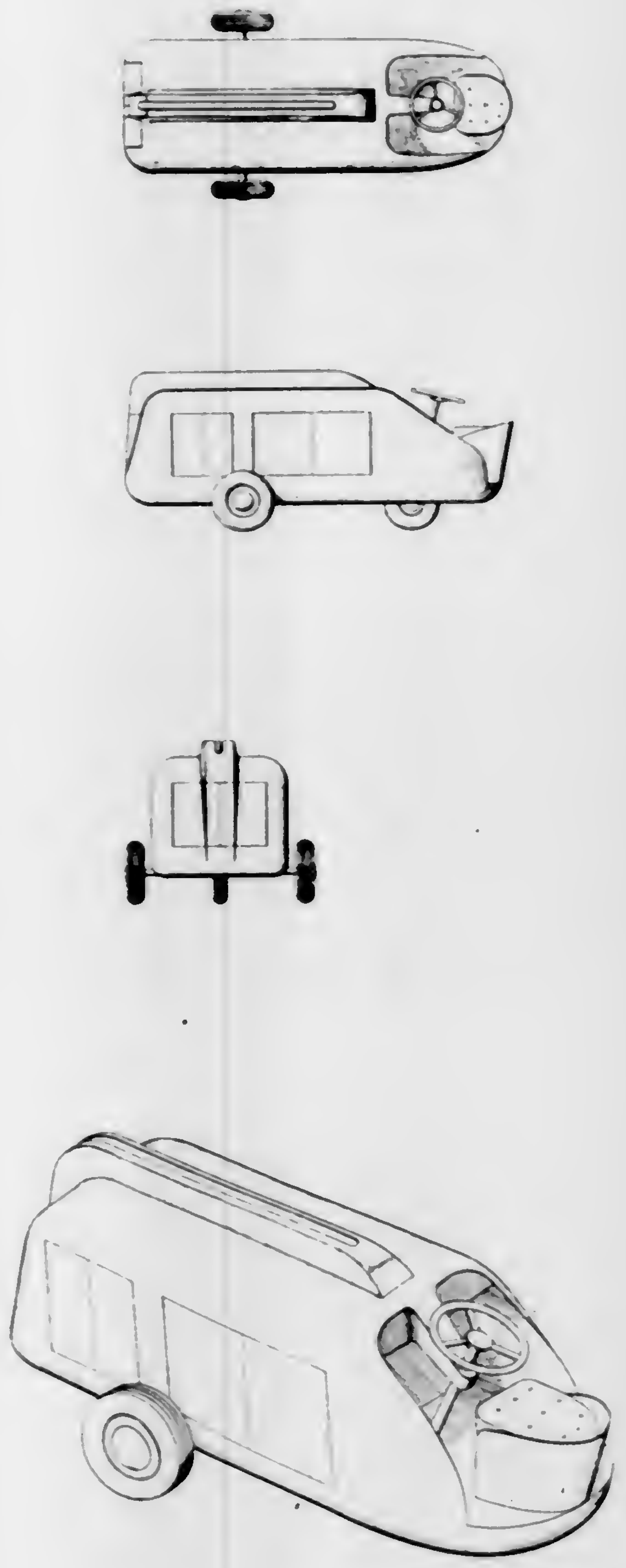
The ornamental design for a shoe, substantially as shown.

146,930
DESIGN FOR A JACKET
Harold H. Stahl, New York, N. Y.
Application December 30, 1946, Serial No. 135,834
Term of patent 3½ years
(Cl. D3—4)



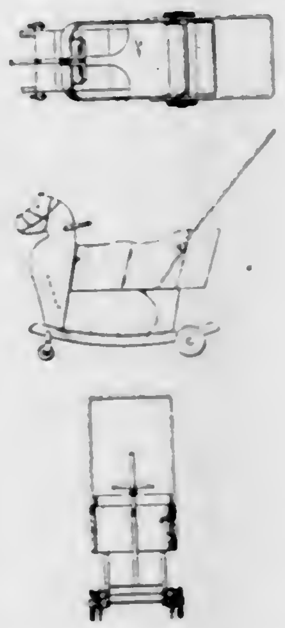
The ornamental design for a jacket, substantially as shown.

146,931
DESIGN FOR A VEHICLE
Arthur A. Turton, Los Angeles, Calif.
Application October 20, 1945, Serial No. 123,058
Term of patent 14 years
(Cl. D14—3)



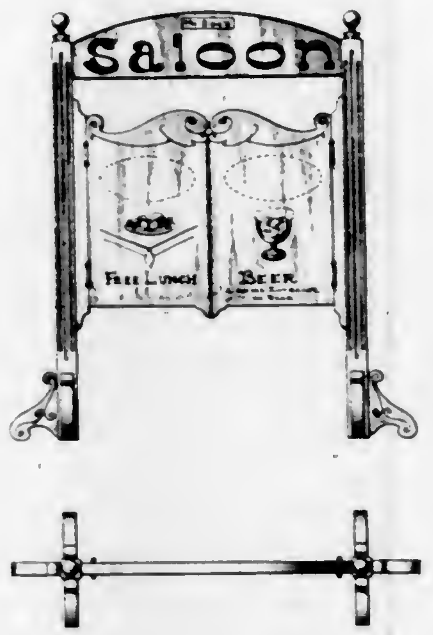
The ornamental design for a vehicle, substantially as shown and described.

146,932
DESIGN FOR A WHEELED HOBBYHORSE
Lawrence Wenpetren, Detroit, Mich.
Application April 27, 1946, Serial No. 129,033
Term of patent 7 years
(Cl. D14—14)



The ornamental design for a wheeled hobbyhorse, as shown.

146,933
DESIGN FOR A SCREEN OR THE LIKE
Jack Wolf, Washington, D. C.
Application December 7, 1945, Serial No. 124,435
Term of patent 7 years
(Cl. D33—1)



The ornamental design for a screen or the like, as shown and described.

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
W. AVERELL HARRIMAN, *Secretary*

U. S. Patent Office
CASPER W. OOMS, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

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T. M. Renewals. . . .	120	
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Plant Patents.	1—No.	739
Patents	476—No.	2,422,174 to No. 2,422,649, inclusive
Designs	20—No.	146,934 to No. 146,953, inclusive
Total	773	

Patents expiring: Patent Numbers 1,763,636 to 1,765,358, inclusive, issued June 17, 1930, expire June 17, 1947

Condition of Applications Under Examination at Close of Business May 29, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 146,177; Trade-Mark Division, 13,354. Oldest new case, August 7, 1945; oldest amended, August 3, 1945.)

(The dates given are 1945 except where * indicates 1946 and † indicates 1947.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Oct. 8	Nov. 30	2,903
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 18	Oct. 26	3,532
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus)	Dec. 5	Dec. 5	1,771
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	*Jan. 8	*Feb. 2	3,046
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	Aug. 7	Aug. 3	3,790
6. SURLE, H., Carbon Chemistry (part)	*Apr. 26	*Mar. 14	1,861
7. HANLIN, GEORGE, Optics, Photography	*May 27	*June 10	2,024
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	Dec. 10	Dec. 12	3,782
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Nov. 1	Nov. 7	2,161
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Dec. 17	*Jan. 31	1,416
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	*Aug. 16	*Aug. 16	818
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Dec. 19	*Jan. 7	2,664
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Oct. 4	Oct. 10	2,249
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal: Wire; Misc. Processes); Wire Fabrics; Farriery	*Mar. 15	*Mar. 15	1,395
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	Sept. 19	Sept. 18	1,972
16. LOVEWELL, N. N., Telegraphy; Telephony	*Mar. 25	*Mar. 22	1,286
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	*Jan. 29	*Jan. 24	1,338
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 13	Sept. 6	1,698
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	*Mar. 22	*Apr. 1	1,768
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Oct. 31	Nov. 7	2,284
21. THOMPSON, T. J., Textiles	*July 8	*Sept. 5	911
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Dec. 18	Dec. 18	1,872
23. LEWIS, J. B., Cash Registers; Calculators (part)	*July 10	*Feb. 15	593
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	*Oct. 3	*Oct. 4	1,671
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	*Jan. 2	*Jan. 4	1,803
26. YOUNG, R. R., Electricity—Generation and Motive Power	Dec. 5	Dec. 3	2,203
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	*Jan. 25	*Jan. 6	2,475
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	Nov. 1	Oct. 19	1,258
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	*Jan. 12	*Jan. 16	2,680
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	*Feb. 8	*Feb. 11	2,536
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons; Halogenated Hydrocarbons; Hydrogenation of Carbon Oxides.	*May 25	*July 9	1,008
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	*Jan. 4	Dec. 27	2,472
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Nov. 5	Nov. 8	3,258
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	*Jan. 3	*Jan. 19	1,367
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	*Jan. 3	*Feb. 15	2,351
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 7	Oct. 26	1,884
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	*Mar. 6	*Mar. 23	1,603
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions; Rubber; Ornamentation	*May 1	*Apr. 2	1,377
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Sept. 24	Sept. 17	2,697
40. DRUMMOND, E. J., Receptacles (part); Packages	Dec. 6	*Jan. 18	2,847
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-Controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	Nov. 28	*Feb. 1	807
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	*June 11	*July 17	1,073
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	*June 8	*June 7	1,072
44. HARVEY, L. P., Refrigeration; Preserving	Oct. 31	Oct. 8	1,420
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	Nov. 6	Dec. 6	2,400
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	*Feb. 4	*Mar. 14	1,797
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	*Feb. 18	*Mar. 8	2,937
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Nov. 9	Nov. 23	1,892
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	*Feb. 23	*Feb. 25	1,534
50. LEVIN, SAMUEL, Synthetic Resins	*Apr. 6	*Apr. 5	2,631
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	*Jan. 15	*Jan. 11	2,067
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	*Mar. 11	*Feb. 28	3,448
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Nov. 2	Nov. 6	3,954
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	*Feb. 26	*Feb. 11	2,137
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Nov. 19	Nov. 6	1,952
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Acetylene; Gas Mixing	*Apr. 9	*Apr. 10	1,442
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Nov. 5	Dec. 28	3,216
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	*Mar. 19	*Apr. 26	1,346
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Nov. 8	Oct. 18	2,155
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Nov. 28	*Apr. 3	2,036
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys, Ships and Marine Propulsion.	Dec. 13	*Jan. 7	2,839
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Oct. 1	Sept. 13	4,117
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	*Feb. 1	*Jan. 8	2,140
64. NASH, P. M., Compositions—Coating or Plastic (part), Fuel and Miscellaneous	*May 2	*Mar. 11	1,656
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Oct. 20	Oct. 25	2,296
TRADE-MARKS: MERCHANT, J. H.	*Aug. 9	*Nov. 18	13,354
DESIGNS: BREHM, G. L. (Acting)	*Mar. 1	†Jan. 4	9,179

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott, Donald B., Mamaroneck, N. Y. Sail boats and sails therefor. Serial No. 509,315; June 17. Class 19.

Abbott Laboratories, North Chicago, Ill. Vitamin preparation. Serial No. 511,780; June 17. Class 6.

Acme Awning Company, The, Cleveland, Ohio. Cushions and seats and textile removable coverings for such seats. Serial No. 498,366; June 17. Class 19.

Adams, Arthur R., assignor to Adams Rite Manufacturing Company, Glendale, Calif. Door bolts, locks, door fasteners, etc. Serial No. 504,873; June 17. Class 25.

Adams Rite Manufacturing Company, assignee: *See*—
Adams, Arthur R.

Akts. Holmegaards Glasvaerk, Copenhagen, Denmark. Glassware. Serial No. 505,829; June 17. Class 33. Serial No. 505,944; June 17. Class 4.

Allergy and Medical Products Company: *See*—
Biederman, Joseph B.

Allied Electronics Company, New York, N. Y. Machines for electrically recording sounds on records and machines. Serial No. 505,330; June 17. Class 21.

Allied Petroleum Corp., Chicago, Ill. Motor lubricating oil. Serial No. 487,159; June 17. Class 15.

All Metal Polish Co., New York, N. Y. Metal polish.

Alpha-Craft, Inc., New York, N. Y. Costume jewelry. Serial No. 511,437; June 17. Class 28.

Aluminum & Steel Fabricating Company, Chicago, Ill. Toy lawn mowers. Serial No. 503,034; June 17. Class 22.

Alves, David S., Richmond, Calif. Bowling game. Serial No. 502,551; June 17. Class 22.

American Fastener Company, Waterbury, Conn., and elsewhere. Snap fasteners, garter grips, garter clasps, etc. Serial No. 479,020; June 17. Class 40.

American Food Laboratories, Inc., Brooklyn, N. Y. Coffee concentrate. Serial No. 512,477; June 17. Class 46.

American Foods, Inc., Buffalo, N. Y. Hydrolyzed protein preparations. Serial No. 507,229; June 17. Class 6.

American Map Company, Inc., New York, N. Y. Maps and atlases. Serial No. 484,553; June 17. Class 38.

American Seating Company, Grand Rapids, Mich. Classroom chairs. Serial No. 508,638; June 17. Class 32.

Archer Hosiery Mills, Columbus, Ga. Girdles. Serial No. 487,495; June 17. Class 39.

Archie Comic Publications, Inc., New York, N. Y., and St. Louis, Mo. Magazines. Serial No. 506,721; June 17. Class 38.

Argus Equipment Company: *See*—
Roth, Saul.

Aron, M., Corporation, New York, N. Y. Neckties. Serial No. 502,252; June 17. Class 39.

Ashenfelter, Dabney, doing business as Bil-Jax Manufacturing Co., Swanton, Ohio. Scaffold horses. Serial No. 507,035; June 17. Class 50.

Associated Knitted Outerwear Mills, Inc., New York, N. Y. Men's, boys', and children's underwear; and knitted outerwear. Serial No. 502,935; June 17. Class 39.

Associated Producers, Inc., Detroit, Mich. Garage mechanic's equipment. Serial No. 513,791; June 17. Class 23.

Associated Products, Inc., Chicago, Ill. Face lotions, skin bleaches, vanishing, cleansing, and cold creams, etc. Serial No. 506,495; June 17. Class 6.

Associated Products, Inc., Chicago, Ill. Face lotions, skin bleaches, vanishing, cleansing, and cold creams, etc. Serial No. 506,978; June 17. Class 6.

Atlas Fertilizer & Grinding Co., Colma, Calif. Fertilizers. Serial No. 507,505; June 17. Class 10.

Automatic Household Aids, Inc., New York, N. Y. Radio receiving sets. Serial No. 510,228; June 17. Class 21.

Auto-Wrap Corporation, New York, N. Y. Merchandise envelopes and paper bags. Serial No. 507,711; June 17. Class 2.

Avalon Novelty Co.: *See*—
Cartledge, Stephen G.

Avon Products, Inc., New York, N. Y. Toilet soaps. Serial No. 503,789; June 17. Class 4.

Ayvad Water-Wings, Inc. Inflatable swim supports. Serial No. 501,896; June 17. Class 22.

Baker, Malcolm C., assignor to Jarmilla Products, Inc., Lake Worth, Fla. Scalp preparation. Serial No. 497,523; June 17. Class 6.

Barnes, Taylor, doing business as Shreveport Engineering Company, Shreveport, La. Electrical ventilating fans. Serial No. 508,962; June 17. Class 21.

Bayshore Industries, Inc., Elkton, Md. Toy balloons. Serial No. 518,513; June 17. Class 22.

Beary, E. D. W., & Co., Inc., New Orleans, La. Insecticide. Serial No. 506,728; June 17. Class 6.

Beasley, Mercer, New York, N. Y. Column in a periodical. Serial No. 507,795; June 17. Class 38.

Behr-Manning Corporation, Troy, N. Y. Coated abrasives. Serial No. 503,278; June 17. Class 4.

Bell Aircraft Corporation, Wheatfield, N. Y. Coin changing apparatus. Serial No. 507,880; June 17. Class 26.

Bell & Grossett Company, Morton Grove, Ill. Refrigerating apparatus. Serial No. 493,908; June 17. Class 31.

Bell & Howell Company, Chicago, Ill. Tripods for photographic cameras. Serial No. 507,230; June 17. Class 26.

Belle, Barbara, New York, N. Y. Information chart. Serial No. 506,574; June 17. Class 38.

Biederman, Joseph B., doing business under the name of Allergy and Medical Products Company, Cincinnati, Ohio. Nasal inhalers. Serial No. 500,161; June 17. Class 44.

Bil-Jax Manufacturing Co.: *See*—
Ashenfelter, Dabney.

Biochemical Products Corporation, New York, N. Y. Bismuth compound. Serial No. 507,616; June 17. Class 6.

Bloch, Joseph, doing business as Omaha Cosmetics Company, Omaha, Nebr. Shaving cream. Serial No. 503,214; June 17. Class 4.

Boston Leather Specialties Co., assignor to Bunny Bear, Inc., Everett, Mass. Crib cushions. Serial No. 476,193; June 17. Class 32.

Botany Worsted Mills, Passaic, N. J. Powder for the toilette. Serial No. 506,503; June 17. Class 6.

Boyle and Company, Los Angeles, Calif. Preparation consisting of liver, iron, and vitamin B complex. Serial No. 508,265; June 17. Class 6.

Brammer Manufacturing Co., assignor to Brammer Manufacturing Co., Davenport, Iowa. Kitchen cupboards and kitchen cabinets. Serial No. 492,176; June 17. Class 32.

Brault, Eugene E., doing business as Elf Way Mfg. Company, Jefferson, S. Dak. Household kitchen cabinets, wardrobes, writing desks, etc. Serial No. 492,818; June 17. Class 32.

British Approved Yarn Association, The, Manchester, England. Yarns wholly of cotton. Serial No. 504,089; June 17. Class 43.

Bruno, D. B., Incorporated, Jacksonville, Tex. Fresh vegetables. Serial No. 508,093; June 17. Class 46.

Bucyrus-Erie Company, South Milwaukee, Wis. Power shovels; railway-type power shovels; revolving power shovels; pile drivers, excavators, etc. Serial No. 473,801; June 17. Class 23.

Bunny Bear, Inc., assignee: *See*—
Boston Leather Specialties Co.

Burckhalter, James A., doing business as Integral Electrics, Barnwell, S. C. Distributor caps and cables. Serial No. 509,632; June 17. Class 21.

Burns, Bob, Machinery Co., Fort Worth, Tex. Hydraulically and mechanically operated concrete tile machines, concrete and cement mixers, etc. Serial No. 500,518; June 17. Class 23.

Butler Brothers, Chicago, Ill. Fishing rods. Serial No. 502,798; June 17. Class 22.

Campbell-Hausfeld Co., Harrison, Ohio. Air compressors and parts thereof. Serial No. 511,136; June 17. Class 23.

Carbide and Carbon Chemicals Corporation, New York, N. Y. Chemical compounds. Serial No. 470,937; June 17. Class 6.

Carnac, Inc., New York, N. Y. Cotton piece goods. Serial No. 506,091; June 17. Class 42.

Cartledge, Stephen G., doing business as Avalon Novelty Co., Chicago, Ill. Toy kangaroos. Serial No. 501,116; June 17. Class 22.

Cavalier Corporation, Chattanooga, Tenn. Combination desk and chest. Serial No. 507,235; June 17. Class 32.

Celanese Corporation of America, New York, N. Y. Box covers, display boxes, containers and front for containers. Serial No. 505,555; June 17. Class 2.

Central Mills, Inc., Dunbridge, Ohio. Livestock feeds. Serial No. 507,885; June 17. Class 46.

Chemical Specialties Company: *See*—
Shapiro, Harry.

Chisholm, Helen E., doing business as Shore Line Laboratory, Saybrook, Conn. Cleansing powder. Serial No. 507,237; June 17. Class 4.

Cineflex Corporation, Rutland, Vt. Electric phonographs. Serial No. 499,203; June 17. Class 21.

Cle Products Company: *See*—
McJunkin, Herbert H.

Cleveland Formgrader Company, The, Cleveland, Ohio. Portable motor-driven belt conveyor. Serial No. 472,097; June 17. Class 23.

Cohn-Hall-Marx Co., New York, N. Y. Piece goods of cotton, rayon and/or silk, or combinations thereof. Serial No. 508,269; June 17. Class 42.

Collar-Bobs Co.: *See*—
Schoenberg, Isidore.

Comedy Publications, Inc., New York, N. Y. Magazine or publication. Serial No. 508,718; June 17. Class 38.

Commanditaire Vennootschap Chemische Fabriek Rids, Ijmuiden, The Netherlands. Insecticides. Serial No. 496,885; June 17. Class 6.
Continental Chemical Company, Sacramento, Calif. Granulated soap. Serial No. 501,047; June 17. Class 4.
Controls, Inc., Detroit, Mich. Gas conversion burners. Serial No. 514,692; June 17. Class 34.
Corner, Arthur N., New York, N. Y. Toy building blocks. Serial No. 503,636; June 17. Class 22.
Coronet Handbags, Inc., New York, N. Y. Ladies' handbags and pocket books. Serial No. 510,765; June 17. Class 3.
Cosgrove Brothers, Inc., Quincy, Mass. Underwear and lingerie. Serial No. 506,803; June 17. Class 39.
Costa Distributing Co. of El Centro, El Centro, Calif. Fresh vegetables. Serial No. 510,378; June 17. Class 46.
Crest Fabrics Corp., New York, N. Y. Vinyl type plastic sheeting. Serial No. 504,094; June 17. Class 42.
Crest Fabrics Corp., New York, N. Y. Vinyl type plastic sheeting. Serial No. 509,757; June 17. Class 42.
Crossen, Ken, doing business as Spark Publications, New York, N. Y. Periodicals. Serial No. 493,666; June 17. Class 38.
Dan River Mills, Incorporated: *See—*
  Riverside & Dan River Cotton Mills, Inc.
Dan River Mills, Incorporated, Danville, Va. Sheets, sheeting, and pillowcases. Serial No. 509,502; June 17. Class 42.
Dealy, Plank, Los Angeles, Calif. All purpose cosmetic preparation. Serial No. 505,687; June 17. Class 6.
Dorést, Washinton, D. C. Neck base for ornamentation. Serial No. 513,929; June 17. Class 40.
Doughboy Industries, Inc., New Richmond, Wis. Electrically heated and operated bar type machine for applying heat and pressure to thermoplastic sheets. Serial No. 504,479; June 17. Class 21.
Douglas Laboratories, Inc., Boston, Mass. Amino acid preparation. Serial No. 490,748; June 17. Class 6.
Drissman, Simon, doing business as Lovnail Products, Detroit, Mich. Nail polish, nail polish remover, cuticle remover, etc. Serial No. 500,798; June 17. Class 6.
Duchess D'Andre, Chicago, Ill. Creme hair shampoo. Serial No. 506,631; June 17. Class 6.
Duffy, Robert E., Buffalo, N. Y. Combination egg shell cutting and egg ladling kitchen utensil. Serial No. 508,469; June 17. Class 23.
Eagle Chemical Products Company, Philadelphia, Pa. Chemical for rust proofing boilers, and preventing rust or scale from forming on boilers, etc. Serial No. 487,505; June 17. Class 6.
Economy Fillet Co., Inc., New Bedford, Mass. Fresh and frozen fish fillets. Serial No. 506,993; June 17. Class 46.
Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather. Serial No. 506,864; June 17. Class 1.
Elf Way Mfg. Company: *See—*
  Brault, Eugene E.
Elgin American Division of Illinois Watch Case Co.: *See—*
  Illinois Watch Case Co.
Erl Sales, Dist., Los Angeles, Calif. Tooth powder. Serial No. 504,165; June 17. Class 6.
Fernandez, Alice, doing business as Victory Enterprises, New York, N. Y. Cleanser. Serial No. 498,816; June 17. Class 4.
Fibrcan Corporation, New York, N. Y. Material or waste cans of plastic, paper, or base metal. Serial No. 502,957; June 17. Class 2.
Finkl, A., & Sons Company, Chicago, Ill. Piston rods, crankshafts, rams, and forged parts. Serial No. 494,494; June 17. Class 23.
Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Prepared biscuit flour. Serial No. 467,520; June 17. Class 46.
Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Prepared cornmeal. Serial No. 481,404; June 17. Class 46.
Franklin County Coal Corporation, Chicago, Ill. Coal. Serial No. 473,213; June 17. Class 1.
Frederick Iron & Steel, Inc., Frederick, Md. Metal shearing machines. Serial No. 510,500; June 17. Class 23.
Fremont Products Company: *See—*
  Gundlach, Paul J.
Fuller, D. B., & Co. Inc.: *See—*
  Vandam, Albert H., Co., Inc.
Garay & Co., Inc., New York, N. Y. Decorative and garment supporting belts. Serial No. 501,905; June 17. Class 39.
Gastona Medicine Co.: *See—*
  Respondek, John E.
General Machine Company, Milwaukee, Wis. Golf clubs. Serial No. 509,509; June 17. Class 22.
General Machine Company, Milwaukee, Wis. Golf clubs. Serial No. 509,512; June 17. Class 22.
Goldrich, Stanley P., doing business as Noble Products, Daytona Beach, Fla. Insect and moth repellent. Serial No. 500,470; June 17. Class 6.
Gort, Eric H., Inc., Metuchen, N. J. Ceramic bases for electric lamps. Serial No. 490,820; June 17. Class 21.
Gort, Eric H., Inc., Metuchen, N. J. Book ends. Serial No. 490,821; June 17. Class 32.
Granville Fabrics Co., New York, N. Y. Rayon fabrics in the piece. Serial No. 505,820; June 17. Class 42.
Grasso, Salvatore, Syracuse, N. Y. Liniment. Serial No. 507,313; June 17. Class 6.
Grossman Music Co., Cleveland, Ohio. Toy musical humming instruments. Serial No. 515,421; June 17. Class 22.
Grunwald-Marx, Los Angeles, Calif. Men's dress and work shirts. Serial No. 471,259; June 17. Class 39.
Guckenheimer, Julius, doing business as Ronsard Perfumers, New York, N. Y. Perfumes and toilet water. Serial No. 497,240; June 17. Class 6.
Gulf City Coffee Company, Inc., Pensacola, Fla. Tea. Serial No. 510,679; June 17. Class 46.
Gundlach, Paul J., doing business as Fremont Products Company, Cleveland, Ohio. Vitamin preparation. Serial No. 507,816; June 17. Class 6.
H. and K. Company, The, Dayton, Ohio. Liquid medicinal preparation. Serial No. 482,102; June 17. Class 6.
H & L Mfg. Co.: *See—*
  Lee, Kathleen H.
Hall Brothers, Incorporated, Kansas City, Mo. Greeting cards. Serial No. 508,378; June 17. Class 38.
Hardesty Chemical Co., Inc., New York, N. Y. Plasticizers for resins, plastics, and elastomers. Serial No. 499,493; June 17. Class 6.
Hartford Rayon Corporation, The, Rocky Hill, Conn. Viscose rayon yarn. Serial No. 506,523; June 17. Class 43.
Harvey Manufacturing Company, Racine, Wis. Hammer mills, and corn shellers. Serial No. 489,736; June 17. Class 23.
Hass-Miller Corporation, Philadelphia, Pa. Chemical compounds. Serial No. 503,365; June 17. Class 6.
Heckethorn Mfg. & Supply Co., Littleton, Colo. Belt pulleys and sheaves. Serial No. 505,495; June 17. Class 23.
Heribert, Herbert J., New York, N. Y. Wide belting, stripping, webbing. Serial No. 511,473; June 17. Class 42.
Herman, Morris, doing business as Herman Products Co., Brooklyn, N. Y. Liquid preparation used as skin refreshener. Serial No. 501,452; June 17. Class 6.
Herman Products Co.: *See—*
  Herman, Morris.
Heyden Chemical Corporation, New York, N. Y. Technical 4,4′-dihydroxydiphenylmethane-3,3′-dicarboxylic acid. Serial No. 507,583; June 17. Class 6.
Hilltop Farm Feed Co., Minneapolis, Minn. Poultry feeders, portable founts, portable tanks, etc. Serial No. 503,204; June 17. Class 50.
Hobby Hill, Chicago, Ill. Wheeled pull toys; toys in the form of animals; educational toys. Serial No. 484,020; June 17. Class 22.
Hobby Hill, Chicago, Ill. Educational toys. Serial No. 484,026; June 17. Class 22.
Hollin, John G., doing business as International Export Company, San Francisco, Calif. Radio receiving sets. Serial No. 510,954; June 17. Class 21.
House Beautiful Curtains Inc., New York, N. Y. Window curtains, draperies, bedspreads, etc. Serial No. 504,765; June 17. Class 42.
Huff, Victor C., doing business as Victor C. Huff Company, Newark, N. J. Electrical sealing tongs. Serial No. 511,019; June 17. Class 21.
Huff, Victor C., Company: *See—*
  Huff, Victor C.
Huyck, F. C., & Sons, Rensselaer and Albany, N. Y. All wool bed blankets. Serial No. 506,754; June 17. Class 42.
Hyco Products, Cincinnati, Ohio. Liquid laundry starch. Serial No. 497,180; June 17. Class 6.
Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Radio receiving sets. Serial No. 501,509; June 17. Class 21.
Integral Electrics: *See—*
  Buckhalter, James A.
International Cellucotton Products Company, Chicago, Ill. Cleansing tissue, toilet tissue, and paper towels. Serial No. 500,616; June 17. Class 37.
International Export Company: *See—*
  Hollin, John G.
International Latex Corporation, Dover, Del. Crib sheets. Serial No. 516,696; June 17. Class 42.
International Plastics, Inc., Boston, Mass. Plastic compositions. Serial No. 507,402; June 17. Class 1.
Iron Fireman Manufacturing Company, Portland, Oreg. House organ. Serial No. 503,449; June 17. Class 38.
Jackson Research Laboratories: *See—*
  Jackson, Walter B.
Jackson, Walter B., doing business as Jackson Research Laboratories, Houston, Tex. Liquid insecticide. Serial No. 485,952; June 17. Class 6.
Jarmilla Products, Inc., assignee: *See—*
  Baker, Malcolm C.
Jordan Electrical Manufacturing Company, Minneapolis, Minn. Apparatus for charging storage batteries and parts thereof. Serial No. 509,288; June 17. Class 21.
Kane Novelty Co.: *See—*
  Zahralban, Gabriel.
Keystone Window Shade Company, Inc., Pittsburgh, Pa. Venetian window blinds and for slats for Venetian window blinds. Serial No. 506,242; June 17. Class 32.
King, Arden, Ltd., New York, N. Y. Face creams, beautifying creams, tissue creams, etc. Serial No. 493,780; June 17. Class 6.
Kloster Steel Corporation, Chicago, Ill. Die and tool steel. Serial No. 492,563; June 17. Class 14.

Kohler & Campbell, Inc., New York, N. Y. Pianos. Serial Nos. 507,191–2; June 1[illegible] Class 36.
Kolb, Clyde E., doing business as Tourn-A-Grip Company, Birmingham, Mich. Fishing rods. Serial No. 500,085; June 17. Class 22.
Kress, S. H., and Company, New York, N. Y. Powder puffs, nail brushes, bath brushes, etc. Serial No. 505,357; June 17. Class 29.
Kromex Corporation, Cleveland, Ohio. Cold- and heat-insulated tubs. Serial No. 502,702; June 17. Class 2.
Lander, David, Long Beach, Calif. Foot powder. Serial No. 491,486; June 17. Class 6.
Lansing Button Co.: *See—*
  Lansing Company, Inc.
Lansing Company, Inc., doing business as Lansing Button Co., Lansing, Iowa. Toy automobiles. Serial No. 503,104; June 17. Class 22.
La Porte, G. Clark, doing business as La Porte Industries, Baltimore, Md. Top cylinder lubricating oil. Serial No. 488,594; June 17. Class 15.
La Porte Industries: *See—*
  La Porte, G. Clark.
Larson, W. O., Foundry Company, The, Grafton, Ohio. Iron castings and ferrous metal castings. Serial No. 498,067; June 17. Class 14.
Lee, Frank H., Company, The, Danbury, Conn. Men's and boys' fur felt hats. Serial No. 475,004; June 17. Class 39.
Lee, Kathleen H., doing business as H & L Mfg. Co., San Francisco, Calif. Preparation in powder form for cleaning. Serial No. 494,085; June 17. Class 4.
Lehman Bros., Cleveland, Ohio. Candy for dogs. Serial No. 506,110; June 17. Class 46.
Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. Serial No. 493,199; June 17. Class 6.
Lewis-Hubbard Corporation, Charleston, W. Va. Toilet tissue. Serial No. 506,950; Jan. 17. Class 37.
Lewis, J. B., & Sons Limited, Nottingham, England. Men's, women's, children's, and infants' wearing apparel. Serial No. 488,108; June 17. Class 39.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 498,154; June 17. Class 6.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparations. Serial No. 500,674; June 17. Class 6.
Liquilite Company, The, Dallas, Tex. Electrically illuminated drinking glass coasters, Christmas trees and illuminated center-pieces. Serial No. 491,417; June 17. Class 21.
Lorceviez Ditisheim Brands, Inc., New York, N. Y. Watches, watch movements, and parts thereof. Serial No. 507,065; June 17. Class 27.
Lovnail Products: *See—*
  Drissman, Simon.
Loyal Canning Company, Loyal, Wis. Canned vegetables. Serial No. 501,749; June 17. Class 46.
Luchs, Joseph, doing business as Joseph Luchs & Staff, Philadelphia, Pa. Educational literature. Serial No. 508,172; June 17. Class 38.
Luchs, Joseph, & Staff: *See—*
  Luchs, Joseph.
Lux Clock Manufacturing Company, Inc., The, Waterbury, Conn., and elsewhere. Combination clocks and range timers. Serial No. 505,159; June 17. Class 27.
Lynn Umbrella Mfg. Co., Boston, Mass. Umbrellas. Serial No. 492,446; June 17. Class 41.
Magic Mist Co.: *See—*
  Van House, Arthur C.
Malco Refineries, Incorporated, Artesia, N. Mex. Gasoline, kerosene, distillate, etc. Serial No. 488,111; June 17. Class 15.
Mammoth Tree Shears Company: *See—*
  McFaull, Clarence.
Marriott, John E., doing business as Nu Pyro Products Company, Augusta, Ga. Medicines. Serial No. 497,033; June 17. Class 6.
Martin, Emile E., New Orleans, La. Greeting cards. Serial No. 506,952; June 17. Class 38.
Massera, Al: *See—*
  Massera, Wilma.
Massera, Wilma, doing business as Al Massera, Watsonville, Calif. Fresh vegetables. Serial. No. 509,094; June 17. Class 46.
McFaull, Clarence, doing business as Mammoth Tree Shears Company, San Antonio, Tex. Tree shears. Serial No. 494,187; June 17. Class 23.
McIntyre, Myron W., Ltd., New York, N. Y. Suitcases, portfolios, wallets, key cases, etc. Serial No. 515,505; June 17. Class 3.
McJunkin, Herbert H., doing business as Cle Products Company, Dallas, Tex. Dry compound for washing and cleaning. Serial No. 497,620; June 17. Class 4.
McJunkin, Herbert H., doing business as Cle Products Company, Dallas, Tex. Dry wall cleaning compound. Serial No. 497,621; June 17. Class 4.
Medar Co.: *See—*
  Seiger, H. Wright.
Medart, Fred, Manufacturing Company, St. Louis, Mo. Trampolines. Serial No. 500,890; June 17. Class 22.
Metlen, Fred A., Seattle, Wash. Reflectors. Serial No. 512,928; June 17. Class 21.
Metropolitan Watch Material Importing Company, New York, N. Y. Watches and parts thereof. Serial No. 498,570; June 17. Class 27.
Meyer, Joseph H., Bros., Brooklyn, N. Y. Necklaces, bracelets, finger rings, etc. Serial No. 511,885; June 17. Class 28.
Meyer, Joseph H., Bros., Brooklyn, N. Y. Necklaces, bracelets, finger rings, etc. Serial Nos. 511,888–91; June 17. Class 28.
Meyerhans & Cie. A.-G. Mühle Weinfelden, Weinfelden, Switzerland. Vegetable products. Serial No. 497,876; June 17. Class 1.
Mifflin Chemical Company, Philadelphia, Pa. Rubbing alcohol. Serial No. 507,684; June 17. Class 6.
Miller, Gelly G., Oakland, Calif. Jewelry. Serial No. 495,491; June 17. Class 28.
Miller, Jack, Long Beach, N. Y. Ladies slips. Serial No. 509,356; June 17. Class 39.
Miquel y Costas & Miquel, S. A., Barcelona, Spain. Cigarette paper. Serial No. 505,440; June 17. Class 8.
Mom's Cleaner Co.: *See—*
  Perew, Frank, Jr.
Monarch Leather Company, Chicago, Ill. Real leather in the piece. Serial No. 500,627; June 17. Class 1.
Moore and Monroe, Inc., Boston, Mass. Clothespins. Serial No. 510,969; June 17. Class 24.
Motioid Company, Inc., The, Chicago, Ill. Dental articulators. Serial No. 514,981; June 17. Class 44.
Movie-Mite Corporation, Kansas City, Mo. Motion picture projectors. Serial No. 505,361; June 17. Class 26.
Nancy Ann Dressed Dolls, assignor to Nancy Ann Storybook Dolls, Inc., San Francisco, Calif. Dressed dolls. Serial No. 490,074; June 17. Class 22.
Nancy Ann Storybook Dolls, Inc., assignee: *See—*
  Nancy Ann Dressed Dolls.
National Acme Company, The, Cleveland, Ohio. Chucking machines. Serial No. 505,511; June 17. Class 23.
Nepera Chemical Company, Inc., Nepera Park, N. Y. Chemical compounds. Serial No. 506,387; June 17. Class 6.
New Home Sewing Machine Company, The, Rockford, Ill. Sewing machines and attachments. Serial No. 477,945; June 17. Class 23.
New York Air Brake Company, The, Watertown, N. Y. Master cylinders. Serial No. 495,554; June 17. Class 23.
Nickerson, I. J., doing business as Old Nick's Seed Company, Rock Port, Mo. Various types of hybrid seed corn. Serial No. 497,264; June 17. Class 1.
Noble Products: *See—*
  Goldrich, Stanley P.
Nordfelt, Gustaf R., Stockholm, Sweden. Razor blades, razors, and safety razors. Serial No. 487,002; June 17. Class 23.
Norwalk Razor & Blade Co.: *See—*
  Osiecky, William.
Nu Pyro Products Company: *See—*
  Marriott, John E.
Oakes & Company, assignor to Oakes & Company, Chicago, Ill. Fuse plugs, light sockets, lighting fixtures, etc. Serial No. 493,451; June 17. Class 21.
Oakes & Company, assignor to Oakes & Company, Chicago, Ill. Electric floor, bridge, table and bed lamps, electric vacuum cleaners, and electric kitchen stoves. Serial No. 498,922; June 17. Class 21.
Ohio Chemical & Mfg. Co., The, Cleveland, Ohio. Machines for administering anesthesia and analgesia. Serial No. 499,854; June 17. Class 44.
Old Nick's Seed Company: *See—*
  Nickerson, I. J.
Omaha Cosmetics Company: *See—*
  Bloch, Joseph.
Omanoff, Arthur A., doing business as Omanoff Caviar Company, New York, N. Y. Canned caviar. Serial No. 508,182; June 17. Class 46.
Omanoff Caviar Company: *See—*
  Omanoff, Arthur A.
Osiecky, William, doing business as Norwalk Razor & Blade Co., Newark, N. J. Razor blades. Serial No. 487,433; June 17. Class 23.
Panef Manufacturing Co., Milwaukee, Wis. Resealing cap for beverage bottles. Serial No. 506,685; June 17. Class 50.
Parents' Institute, Inc., The, New York, N. Y. Reprint magazine. Serial No. 498,025; June 17. Class 38.
Parfumerie Fragonard G. Fuchs & Cie, Paris, France. Perfumes. Serial No. 501,772; June 17. Class 6.
Parfumerie Fragonard G. Fuchs & Cie, Paris, France. Perfumes. Serial No. 504,688; June 17. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparation to be used as an antiluetic. Serial No. 506,471; June 17. Class 6.
Peanut Specialty Co., Chicago, Ill. Peanut candy bars. Serial No. 510,797; June 17. Class 46.
Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Insecticides. Serial No. 492,514; June 17. Class 6.
Perew, Frank, Jr., doing business as Mom's Cleaner Co., Beverly Hills, Calif. Cleaner for removing grease and soil. Serial No. 514,718; June 17. Class 4.
Perfect Circle Company, The, Hagerstown, Ind. Antifreeze solution. Serial No. 498,449; June 17. Class 6.
Pilot Marine Corporation, New York, N. Y. Electrical sound reproducing and amplifying equipment. Serial No. 488,415; June 17. Class 21.

Pitney-Bowes, Inc., Stamford, Conn. Postage printing machines, postage issuing machines, postage registering machines, etc. Serial No. 503,752; June 17. Class 23.

Poirier, James A., Detroit, Mich. Hand operated mop wringers and parts thereof. Serial No. 511,417; June 17. Class 23.

Presto Water Heater Manufacturing Company, The, Hartford, Conn. Water heaters and cooking stoves. Serial No. 493,507; June 17. Class 34.

Regency Electric Manufacturing Corp., New York, N. Y. Electric stoves, electric toasters, electric sandwich grills, etc. Serial No. 512,090; June 17. Class 21.

Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic or chemically-modified resinous materials. Serial No. 507,844; June 17. Class 1.

Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic resinous materials. Serial No. 507,846; June 17. Class 1.

Respondek, John E., doing business as Gastona Medicine Co., Detroit, Mich. Preparation in liquid form for use to relieve gas on the stomach. Serial No. 474,508; June 17. Class 6.

Rhinelander Paper Company, Inc., Rhinelander, Wis. Wrapping paper. Serial No. 502,715; June 17. Class 37.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Sheets and pillow cases. Serial No. 479,208; June 17. Class 42.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Sheets and pillow cases. Serial No. 506,203; June 17. Class 42.

Robbins Company, The, Attleboro, Mass. Tie-holders. Serial No. 511,645; June 17. Class 28.

Ronsard Perfumers: *See—*
Guckenheimer, Julius.

Roth, Saul, doing business as Argus Equipment Company, New York, N. Y. Ash trays. Serial No. 501,089; June 17. Class 8.

Sachs Quality Furniture Inc., New York, N. Y. Living-room furniture. Serial No. 469,280; June 17. Class 32.

Safco-Trevoux, Paris, France. Electrical condensers. Serial No. 486,071; June 17. Class 21.

Saresa Company, Port Chester, N. Y. Ointment. Serial No. 507,696; June 17. Class 6.

Schiffmann, R., Co., Los Angeles, Calif. Suntan lotion. Serial No. 495,154; June 17. Class 6.

Schlumbohm, Peter, New York, N. Y. Drink mixer. Serial No. 496,105; June 17. Class 23.

Schoenberg, Isidore, doing business as Collar-Bobs Co., San Antonio, Tex. Ornamental collar point pins. Serial No. 505,317; June 17. Class 28.

Schwab, A. G., & Sons, Inc., Cincinnati, Ohio. Watches. Serial No. 511,292; June 17. Class 27.

Schwab, A. G., & Sons, Inc., Cincinnati, Ohio. Diamonds and jewelry. Serial No. 511,293; June 17. Class 28.

Scovell, Lu M., doing business under the name Slendo-Motion Co., Los Angeles, Calif. Body massaging apparatus. Serial No. 501,540; June 17. Class 44.

Sealy, Incorporated, Chicago, Ill. Mattresses and box springs. Serial No. 509,960; June 17. Class 32.

Seco Products Company, Toledo, Ohio. Washing and general cleaning powder. Serial No. 498,864; June 17. Class 4.

Seiger, H. Wright, doing business as Medar Co., Santa Monica, Calif. Baby nursing bottle holders. Serial No. 497,500; June 17. Class 44.

Select Publications, Inc., New York, N. Y. Magazine or publication. Serial No. 504,398; June 17. Class 38.

Seneca Company, Inc., New York, N. Y. Rayon and cotton fabrics in the piece. Serial No 504,512; June 17. Class 42.

Seneca Printing Company, Chicago, Ill. Weekly publication. Serial No. 506,778; June 17. Class 38.

Shakespeare Company, Kalamazoo, Mich. Fishing reels. Serial No. 502,014; June 17. Class 22.

Shapiro, Harry, doing business as Chemical Specialties Company, New York, N. Y. Dog shampoo. Serial No. 497,974; June 17. Class 6.

Shore Line Laboratory: *See—*
Chisholm, Helen E.

Shrage & Pines, New York, N. Y. Sportswear. Serial No. 508,011; June 17. Class 39.

Shreveport Engineering Company: *See—*
Barnes, Taylor.

Skner, Samuel, New York, N. Y. Relief valves. Serial No. 503,472; June 17. Class 13.

Slendo-Motion Co.: *See—*
Scovell, Lu M.

Smith, A. M., & Company Limited, Halifax, Nova Scotia, Canada. Fish products. Serial No. 490,334; June 17. Class 46.

Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Pharmaceutical preparation. Serial No. 501,608; June 17. Class 6.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Petroleum and products of petroleum. Serial No. 504,400; June 17. Class 15.

Southern Dairies, Inc., Washington, D. C. Milk, cream, buttermilk, etc. Serial No. 480,801; June 17. Class 46.

Spark Publications: *See—*
Crossen, Ken.

Speidel Corporation, Providence, R. I. Bracelets. Serial No. 508,497; June 17. Class 28.

Spirling Products Co., Inc., New York, N. Y. Automobile radio antennae. Serial No. 510,364; June 17. Class 21.

Standard Products Company, The, Detroit, Mich. Molds for the production of frozen confectionery. Serial No. 506,134; June 17. Class 13.

Statler Tissue Company, Somerville, Mass. Paper napkins. Serial No. 504,303; June 17. Class 37.

Stelrose Fashions, New York, N. Y. Blouses, dresses, jumpers, etc. Serial No. 491,682; June 17. Class 39.

Stern, Louis A., Los Angeles, Calif. Colognes. Serial No. 497,682; June 17. Class 6.

Stevens, John W., Sparkill, N. Y. Elastic cotton or other fabric bandages for all sports use. Serial No. 488,550; June 17. Class 22.

Sun Oil Company, Philadelphia, Pa. Lubricating grease compound. Serial No. 497,210; June 17. Class 15.

Taffy Publications, Inc., New York, N. Y. Cartoon periodical. Serial No. 505,779; June 17. Class 38.

Tan Town Stories Co., New York, N. Y. Publication. Serial No. 492,163; June 17. Class 38.

Terrytoons, Inc., New Rochelle, N. Y. Motion picture films. Serial No. 509,889; June 17. Class 26.

Tourn-A-Grip Company: *See—*
Kolb, Clyde E.

Tubiolo, Russell F., doing business as U-Lik-Nu Chemical Co., Rochester, N. Y. Cleaning solution. Serial No. 499,672; June 17. Class 4.

U-Lik-Nu Chemical Co.: *See—*
Tubiolo, Russell F.

Uniline Manufacturing Corporation, Dallas, Tex. Fish lures. Serial No. 501,293; June 17. Class 22.

Union Metal Manufacturing Company, The, Canton, Ohio. Rolled or pressed straight or cylindrical or tapered, etc., pipes, tubes, and poles. Serial No. 506,709; June 17. Class 13.

Union Relojera Suiza, S. A., Lima, Peru. Gold, silver, gold plated, etc., flatware and hollow-ware, flower vases, etc. Serial No. 509,313; June 17. Class 28.

United Aircraft Products, Inc., Dayton, Ohio. Metal baking pans. Serial No. 497,582; June 17. Class 13.

Vandam, Albert H., Co., Inc., assignor to D. B. Fuller & Co. Inc., New York, N. Y. Textile fabrics in the piece, of cotton, rayon, protein fibres, and mixtures thereof. Serial No. 495,705; June 17. Class 42.

Vanderbilt, Gloria, Corp., New York, N. Y. Perfumes and toilet water. Serial No. 506,308; June 17. Class 6.

Van House, Arthur C., doing business as Magic Mist Co., Evanston, Ill. Hair dressing. Serial No. 500,004; June 17. Class 6.

Vassar Company, Chicago, Ill. Men's and women's knitted and woven union suits, vests, drawers, etc. Serial No. 508,630; June 17. Class 39.

Victory Enterprises: *See—*
Fernandez, Alice L.

Vincent-McCall Company, The, Kenosha, Wis. Mattresses, bed springs, and garden chairs. Serial No. 495,922; June 17. Class 32.

Vitron Corporation, The, Wilmington, Del. Cordage. Serial No. 513,918; June 17. Class 7.

W H B Broadcasting Company, Kansas City, Mo. Magazine. Serial No. 508,348; June 17. Class 38.

Weiss, A., Hosiery Co., Chicago, Ill. Infants' and children's hosiery. Serial No. 509,060; June 17. Class 39.

Werk, Julius N., Fabrics, Inc., New York, N. Y. Rayon textile fabrics. Serial No. 507,172; June 17. Class 42.

Wesson Houseware Products Co., Chicago, Ill. Dry, slip-preventing chemically inert powder. Serial No. 507,667; June 17. Class 4.

Western Home Products Co., San Francisco, Calif. Lawn sprinklers. Serial No. 508,768; June 17. Class 13.

Western States Mfg. Co., Sioux City, Iowa. Inner tube repair kits. Serial No. 489,843; June 17. Class 35.

Westinghouse Electric Corporation: *See—*
Westinghouse Electric & Manufacturing Company.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., now by change of name Westinghouse Electric Corporation. Manually controlled automatic sprayers. Serial No. 481,506; June 17. Class 23.

White Laboratories, Inc., Newark, N. J. Vitamin-mineral preparation. Serial Nos. 506,076–8; June 17. Class 6.

Wilkinson, Herbert W., Jr., Southbridge, Mass. Ethyl lactate, dimethyl phthalate, aqueous solutions of metallic salts, etc. Serial No. 474,843; June 17. Class 6.

Wolf, Jacques, & Co., Clifton, N. J. Product for wave set lotions. Serial No. 503,855; June 17. Class 6.

Wool Trading Co., Inc., New York, N. Y. Yarns made of virgin wool. Serial No. 515,286; June 17. Class 43.

Worth Lacquer and Chemical Company, assignor to Worth Lacquer and Chemical Company, Inc., New York, N. Y. Enamel liquid lacquer. Serial No. 508,349; June 17. Class 16.

Worth Lacquer and Chemical Company, Inc.: *See—*
Worth Lacquer and Chemical Company.

Wynne Precision Company, Griffin, Ga. Fishing tackle. Serial No. 489,891; June 17. Class 22.

Zahralban, Gabriel, doing business as Kane Novelty Co., Brooklyn, N. Y. Ladies' hand bags. Serial No. 500,984; June 17. Class 3.

LIST OF REGISTRANTS OF TRADE-MARKS

Adam Hat Stores Inc., assignee: *See—*
Dempsey, Jack.

Aid Laboratories: *See—*
Cohen, Benjamin Lee.

Airdar Corporation, Wilmington, Del. Electrical control instruments. 430,554; June 17; Serial No. 464,865; published Mar. 7, 1944. Class 21.

Allen, Edgar, & Co., Limited, Sheffield, England. Steel, unwrought and partly wrought. 57,379–80; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Allen, Edgar, & Co., Limited, Sheffield, England. Unwrought and partly-wrought steel, except sheet-steel. 57,450; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Allen, S. L., & Co., to S. L. Allen & Co., Inc., Philadelphia, Pa. Sled. 61,432–3; re-renewed Mar. 19, 1947. O. G. June 17. Class 19.

Allen, S. L., & Co., Inc.: *See—*
Allen, S. L., and Co.

American Blouse Co. Inc., New York, N. Y. Blouses. 430,663; June 17; Serial No. 508,568; published Mar. 18, 1947. Class 39.

American Box Board Company, Grand Rapids, Mich. Receptacles made of paper. 221,529; renewed Dec. 7, 1946. O. G. June 17. Class 2.

American Liquid Gas Corporation, Los Angeles, Calif. Gas making equipment and complete gas plant mixers and vaporizers, etc. 430,666; June 17. Class 34.

Anchor Hocking Glass Corporation, Lancaster, Ohio. Closure caps. 430,611; June 17; Serial No. 502,093; published Mar. 25, 1947. Class 50.

Angelica Jacket Company, St. Louis, Mo. Men's and women's washable or cleanable apparel and uniforms. 225,700; renewed Mar. 22, 1947. O. G. June 17. Class 39.

Aqualon Studios: *See—*
Blumenthal, Julius.

Aseptic Drinking Cup Co., The, Cambridge, to Burnitol Manufacturing Co., Boston, Mass. Paper drinking-cups. 59,834; re-renewed Jan. 22, 1947. O. G. June 17. Class 2.

Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fish-lines. 59,016; re-renewed Jan. 1, 1947. O. G. June 17. Class 22.

Atlantic Drier & Varnish Company, to Monad Paint & Varnish Co., Philadelphia, Pa. Spar varnish. 226,378; renewed Apr. 5, 1947. O. G. June 17. Class 16.

Ayers Manufacturing Co.: *See—*
Ayers, William T. H.

Ayers, William T. H., doing business as Ayers Manufacturing Co., Indianapolis, Ind. Brick layers' levels. 430,643; June 17; Serial No. 506,364; published Apr. 1, 1947. Class 26.

BMC Manufacturing Corporation, Binghamton, N. Y. Electrical automobile trouble lamps and parts thereof. 430,693; June 17. Class 21.

Backes, M., Sons, to M. Backes' Sons, Inc., Wallingford, Conn. Toy torpedoes and toy paper caps. 29,299; re-renewed Dec. 15, 1946. O. G. June 17. Class 9.

Backes's M., Sons, Inc.: *See—*
Backes, M., Sons.

Barclay Home Products, Inc., Cohoes, N. Y. Comforters, patchwork quilts, bedspreads, etc. 430,701; June 17. Class 42.

Barnes & Williams Co., Philadelphia, Pa. Periodic publications. 430,696; June 17. Class 38.

Bates Shoe Company, Webster, Mass. Shoes. 430,627; June 17. Serial No. 504,148; published Mar. 18, 1947. Class 39.

Baumert, F. X., & Company, to The Borden Company, New York, N. Y. Cheese. 60,251; re-renewed Feb. 5, 1947. O. G. June 17. Class 46.

Baumert, F. X., & Company, to The Borden Company, New York, N. Y. Cheese. 60,289; re-renewed Feb. 5, 1947. O. G. June 17. Class 46.

Bear Brand Hosiery Co.: *See—*
Paramount Knitting Company.

Beatrice Foods Co.: *See—*
Continental Creamery Company, The.
Linn, Geo. W., & Son.
Pioneer Creamery Co.

Bee Chemical Company, Chicago, Ill. Cutting lubricants. 430,581; June 17; Serial No. 491,384; published Mar. 18, 1947. Class 15.

Behrens' Fixture Company: *See—*
Behrens, Louis H.

Behrens, Louis H., doing business as Behrens' Fixture Company, Denver, Colo. Refrigerators and refrigerating equipment. 430,704; June 17. Class 31.

Beiersdorf, P. & Co., Hamburg, Germany, to Lehn & Fink Products Corporation, Bloomfield, N. J. Tooth-paste and tooth powder. 61,678; re-renewed Apr. 2, 1947. O. G. June 17. Class 6.

Bemis Bro. Bag Company, St. Louis, Mo. Tents; tarpaulins; and non-tailored waterproof fabric covers. 430,580; June 17; Serial No. 491,053; published Feb. 18, 1947. Class 50.

Bio-Medical Instrument Co.: *See—*
Frohring, William O.

Blumenthal, Julius, doing business as Aqualon Studios, New York, N. Y. Phonograph recording blanks. 430,579; June 17; Serial No. 490,995; published Mar. 18, 1947. Class 36.

Borden Company, The: *See—*
Baumert, F. X., & Company.
Chateau Cheese Company Limited.
Maricopa Creamery Co., The.

Brevity Coats: *See—*
Brimberg, Samuel N.

Brian Fabrics Corp., New York, N. Y. Ladies' handkerchiefs, scarves, and fascinators. 430,564; June 17; Serial No. 482,271; published Mar. 18, 1947. Class 39.

Brilles, Bell D., doing business as Manhattan Incense Works, New York, N. Y. Assorted incense. 222,402; renewed Jan. 4, 1947. O. G. June 17. Class 6.

Brimberg, Samuel N., to Brevity Coats, New York, N. Y. Ladies', misses', and juniors' coats, wraps, suits, etc. 219,627; renewed Oct. 19, 1946. O. G. June 17. Class 39.

Brook Manufacturing Company (Northampton) Limited, Northampton, England. Women's and childrens' coats, suits, skirts, etc. 430,596; June 17; Serial No. 499,378; published Apr. 1, 1947. Class 39.

Brown, Howard L., doing business as "Religious Productions," Hollywood, Calif. Grooved phonograph records. 430,610; June 17; Serial No. 501,818; published Mar. 18, 1947. Class 36.

Brown & Wilkinson Limited, London, England. Women's and children's coats, suits, skirts, etc. 430,597; June 17; Serial No. 499,379; published Apr. 1, 1947. Class 39.

Buckingham, Donald F., Chicago, Ill. Units of blocks of symbols including letters, numbers, punctuation marks, etc. 430,679; June 17. Class 38.

Bulluck Bottling Works: *See—*
Bulluck, Mark C.

Bulluck, Mark C., doing business as Bulluck Bottling Works, Elm City, to Mark C. Bulluck, doing business as Bulluck Bottling Works, Rocky Mount, N. C. Non-alcoholic, maltless beverage. 224,554; renewed Mar. 1, 1947. O. G. June 17. Class 45.

Burke & James, Inc., Chicago, Ill. Photographic supplies. 430,632; June 17; Serial No. 504,739; published Mar. 18, 1947. Class 26.

Burnitol Manufacturing Co.: *See—*
Aseptic Drinking Cup Co., The.

Butcher, Charles F., Sheffield, England, to Durham-Enders Razor Corporation, Mystic, Conn. Files, gouges, chisels, etc. 58,634; re-renewed Dec. 18, 1946. O. G. June 17. Class 23.

Butcher, Charles F., Sheffield, England, to Durham-Enders Razor Corporation, Mystic, Conn. Razors. 62,019; re-renewed Apr. 16, 1947. O. G. June 17. Class 23.

Cahners, Norman L., doing business as Materials Handling Laboratories, Boston, Mass. Portable material handling platforms. 430,621; June 17; Serial No. 503,157; published Mar. 11, 1947. Class 50.

California Syrup & Extract Company, Inc., Oakland, Calif. Cane and maple sirup, honey. 223,033; renewed Jan. 11, 1947. O. G. June 17. Class 46.

Cambridge Associates, Inc., Boston, Mass. Monthly publication. 430,673; June 17. Class 38.

Cape Ann Manufacturing Co., Gloucester, Mass. Boys' and men's woolen, cotton, and leather coats. 430,665; June 17; Serial No. 508,887; published Mar. 18, 1947. Class 39.

Carr Manufacturing Company, San Antonio, Tex. Ladies' and girls' sportswear. 430,647; June 17; Serial No. 507,106; published Mar. 4, 1947. Class 39.

Carrier Corporation: *See—*
Carrier Engineering Corporation.

Carrier Engineering Corporation, Newark, N. J., to Carrier Corporation, Syracuse, N. Y. Air conditioning, drying, and ventilating equipment. 223,772; renewed Feb. 8, 1947. O. G. June 17. Class 34.

Century Sportswear Co., Inc., Boston, Mass. Women's, misses', and junior skirts, shirts, shorts, etc. 430,651; June 17; Serial No. 507,371; published Mar. 4, 1947. Class 39.

Century Textile Products, New York, N. Y. Infants' bibs and panties; and ladies' aprons and rain hoods, etc. 430,639; June 17; Serial No. 505,950; published Mar. 11, 1947. Class 39.

Charles of the Ritz, Inc.: *See—*
Huebschman, Hyman.

Chateau Cheese Company Limited, Ottawa, Ontario, Canada, to The Borden Company, New York, N. Y. Cheese. 226,374; renewed Apr. 5, 1947. O. G. June 17. Class 46.

Chicago Flexible Shaft Company, Chicago, Ill., now by change of name to Sunbeam Corporation. Receptacles for household use. 430,571; June 17; Serial No. 488,190; published Mar. 11, 1947. Class 33.

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Chippewa Shoe Co., Chippewa Falls, Wis. Leather boots and shoes. 430,652; June 17; Serial No. 507,374; published Apr. 1, 1947. Class 39.

Cohen, Abraham, doing business as Craftex Underwear Co., New York, N. Y. Ladies', misses', and children's pajamas, slips, and nightgowns. 430,659; June 17; Serial No. 507,803; published Mar. 18, 1947. Class 39.

Cohen, Benjamin L., doing business as Aid Laboratories, Camden, N. J. Shaving cream. 430,688; June 17. Class 4.

Cohen Bros. Dress Corp., New York, N. Y. Women's and misses' dresses. 430,650; June 17; Serial No. 507,298; published Mar. 4, 1947. Class 39.

Colgate & Co., New York, N. Y., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 61,829; re renewed Apr. 9, 1947. O. G. June 17. Class 4.

Colgate & Co., New York, N. Y., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Perfumery, talc-powder, and toilet water. 62,050; re-renewed Apr. 16, 1947. O. G. June 17. Class 6.

Colgate-Palmolive-Peet Company: *See—*
Colgate & Co.
Palmolive Company.

Columbia Carbon Company, The, Dayton, Ohio. Inked ribbons, sheets, and strips. 224,645; renewed Mar. 1, 1947. O. G. June 17. Class 11.

Columbia Phonograph Company, New York, N. Y., to Columbia Recording Corporation, Bridgeport, Conn. Talking machine records, talking machines, and supplies therefor. 61,237; re-renewed Mar. 12, 1947. O. G. June 17. Class 36.

Columbia Recording Corporation: *See—*
Columbia Phonograph Company.

Continental Creamery Company, The, Denver, Colo., and Topeka, Kans., to Beatrice Foods Co., Chicago, Ill. Butter. 56,818; re-renewed Oct. 23, 1946. O. G. June 17. Class 46.

Continental Creamery Company, The, Denver, Colo., to Beatrice Foods Co., Chicago, Ill. Butter. 56,820; re renewed Oct. 23, 1946. O. G. June 17. Class 46.

Copell, Don F., Newark, N. J. Magazines. 430,669; June 17. Class 38.

Craftex Underwear Co.: *See—*
Cohen, Abraham.

Crest Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 430,675; June 17. Class 42.

Crown Manufacturing Company, Inc., San Francisco, Calif. Men's pajamas and sport shirts. 430,560; June 17; Serial No. 478,989; published Apr. 1, 1947. Class 39.

Custom-Bilt Pipes, Inc., Indianapolis, Ind. Smoking pipes. 430,691; June 17. Class 8.

Custom-Bilt Pipes, Inc., Indianapolis, Ind. Smoking tobacco. 430,692; June 17. Class 17.

Dan River Mills, Incorporated: *See—*
Riverside & Dan River Cotton Mills, Inc.

Daviot Company, Los Angeles, Calif. Resilient, removable insoles. 430,616; June 17; Serial No. 502,367; published Mar. 25, 1947. Class 39.

Dean, Harry W., New York, N. Y. Raincoats, rain capes, and hoods. 430,662; June 17; Serial No. 508,105; published Mar. 18, 1947. Class 39.

Dearborn Chemical Company, Chicago, Ill. Cloth wrapper impregnated with chemically-compounded rust inhibitors. 225,227; renewed Mar. 15, 1947. O. G. June 17. Class 6.

Dempsey, Jack, assignor to Adam Hat Stores Inc., New York, N. Y. Men's hats. 430,617; June 17; Serial No. 502,502; published Mar. 18, 1947. Class 39.

Dietzgen, Eugene, Co., Chicago, Ill. Drawing instruments and supplies. 430,566; June 17; Serial No. 483,812; published Apr. 1, 1947. Class 26.

Disney Ltd.: *See—*
Munter, Milton M.

Dixie-Del Farms, Lewes, Del. Turkeys, turkey poults, and fresh and hatching eggs. 430,569; June 17; Serial No. 486,479; published Apr. 1, 1947. Class 46.

Dubarry Perfumery Company, Limited, The, Hove, England. Perfumed soap, toilet soap, shaving cream, etc. 221,146; renewed Nov. 23, 1946. O. G. June 17.

Duchess Royal, New York, N. Y. Raincoats, jackets, sport jackets, etc. 430,575–6; June 17; Serial Nos. 490,238–9; published Apr. 1, 1947. Class 39.

Dudley, Carl, doing business as Carl Dudley Productions, Beverly Hills, Calif. Series of motion picture film productions. 430,641; June 17; Serial No. 506,101; published Apr. 1, 1947. Class 26.

Dudley, Carl, Productions: *See—*
Dudley, Carl.

Dumari Textile Co., Inc., New York, N. Y. Cotton piece goods. 222,405; renewed Jan. 4, 1947. O. G. June 17. Class 42.

Dumari Textile Co., Inc., New York, N. Y. Ladies' and misses' dresses. 430,608; June 17; Serial No. 501,724; published Apr. 1, 1947. Class 39.

Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Rug pads. 430,577; June 17; Serial No. 490,367; published Apr. 1, 1947. Class 50.

Duotone Company, New York, N. Y. Phonograph needles. 430,583; June 17; Serial No. 493,333; published Feb. 18, 1947. Class 36.

Durham-Enders Razor Corporation: *See—*
Butcher, Charles F.

Edge, William, & Sons Limited, Bolton, England. Tinting-color. 61,721; re-renewed Apr. 2, 1947. O. G. June 17. Class 6.

Edison Brothers Stores, Inc., St. Louis, Mo. Ladies' shoes. 430,591; June 17; Serial No. 498,510; published Mar. 18, 1947. Class 39.

Elco Lubricant Corporation, The, Cleveland, Ohio. Lubricant concentrate. 430,561; June 17; Serial No. 480,409; published Mar. 11, 1947. Class 15.

Elco Lubricant Corporation, The, Cleveland, Ohio. Lubricant concentrate. 430,562–3; June 17; Serial Nos. 482,096–7; published Mar. 11, 1947. Class 15.

Eugene Ltd., New York, to Eugene Ltd., Brooklyn, N. Y. Preparations in liquid or solid form to be used in the permanent waving of hair. 223,852; renewed Feb. 15, 1947. O. G. June 17. Class 6.

Excelsior Varsity Underwear Corporation, New York, N. Y. Men's outer shirts, undershirts, underwear, etc. 430,656; June 17; Serial No. 507,721; published Mar. 11, 1947. Class 39.

Fairchild Bros. & Foster, New York, N. Y., to Sterling Drug Inc., Wilmington, Del. Preparation for the modification of cow's milk. 62,065; re-renewed Apr. 16, 1947. O. G. June 17. Class 6.

Fashion Children Dress Co., New York, N. Y. Children's, girls', and misses' dresses, slacks, outer shorts, etc. 430,637; June 17; Serial No. 505,690; published Mar. 11, 1947. Class 39.

Fashion Park, Inc.: *See—*
Stein-Bloch Co., The.

Fawcett Publications, Inc., Greenwich, Conn. Monthly publication. 430,703; June 17. Class 38.

Fennville Fruit Exchange, Inc., Fennville, Mich. Fresh fruit. 224,595; renewed Mar. 1, 1947. O. G. June 17. Class 46.

Fernandez, Palicio y Compania, S. en C., Habana, Cuba. Cigars. 226,818; renewed Apr. 19, 1947. O. G. June 17. Class 17.

Firestone Tire & Rubber Company, The, Akron, Ohio. Arch cushions and insoles for shoes, shaped padding for caps, hats, etc. 430,568; June 17; Serial No. 486,144; published Feb. 5, 1946. Class 39.

First National Stores, Inc., Boston, to First National Stores, Inc., Somerville, Mass. Bread, cake, crackers, etc. 226,760; renewed Apr. 19, 1947. O. G. June 17. Class 46.

Fitz Patrick, A. L., Philadelphia, Pa. Dogs and horses. 226,349; renewed Apr. 5, 1947. O. G. June 17. Class 1.

Flexible File Company, The, Fremont, Ohio. Desk sets. 430,613; June 17; Serial No. 502,281; published Mar. 25, 1947. Class 50.

Foley & Company, Chicago, Ill. Publication. 430,668; June 17. Class 38.

Folker Fabrics Corp., New York, N. Y. Ladies', misses', and girls' dresses, blouses, playsuits, etc. 430,649; June 17; Serial No. 507,249; published Mar. 4, 1947. Class 39.

Forcherio Hnos. S. R. Ltda., Buenos Aires, Argentina. Peppermint candies, peppermint lozenges, natural mint flavored lozenges, etc. 430,572; June 17; Serial No. 488,580; published Mar. 11, 1947. Class 46.

Fox, Samuel, & Co., Limited, Sheffield, England. Umbrellas. 57,106; re-renewed Nov. 6, 1946. O. G. June 17. Class 41.

Frohring, William O., doing business as Bio-Medical Instrument Co., Chagrin Falls, Ohio. Instruments for quantitatively determining the sensitivity of any portion of the human body. 430,626; June 17; Serial No. 503,893; published Mar. 18, 1947. Class 26.

Fuller, James C., assignor to Vimedia Company, to The Vimedia Company, Kansas City, Mo. Capsules for uterine diseases, a cerate for external application, a suppository for rectal diseases, etc. 56,538; re-renewed Oct. 2, 1946. O. G. June 17. Class 6.

Fulton Watch Crystal Corp., New York, N. Y. Watch crystals. 430,698; June 17. Class 33.

Furane Plastics and Chemicals Company, Los Angeles, Calif. Art pottery, statues, and statuettes. 430,586; June 17; Serial No. 495,543; published Mar. 18, 1947. Class 50.

Gartner, Harold H., doing business as Gartner Printing and Lithographing Company, Los Angeles, Calif. Writing paper and envelopes. 430,674; June 17. Class 37.

Gartner Printing and Lithographing Company: *See—*
Gartner, Harold H.

Gastwirth, Louis, & Co., New York, N. Y. Children's coats and legging sets. 430,644; June 17; Serial No. 506,519; published Apr. 1, 1947. Class 39.

General Shoe Corporation, Nashville, Tenn. Women's, misses', and children's shoes, slippers, mules, and pumps. 430,620; June 17; Serial No. 502,890; published Mar. 25, 1947. Class 39.

Gernsback, Hugo, New York, N. Y. Monthly publications. 430,677; June 17. Class 38.

Gilbert Shoe Co., The, Theinsville, Wis. Shoes. 430,614; June 17; Serial No. 502,285; published Mar. 11, 1947. Class 39.

Gillette Publishing Company, Chicago, Ill. Magazine. 430,682; June 17. Class 38.

Goldman, Wm. P., & Bros. Inc., New York, N. Y. Men's suits, sport coats, slacks, etc. 430,642; June 17; Serial No. 506,357; published Mar. 4, 1947. Class 39.

Goldschmidt Thermit Co., to Metal & Thermit Corporation, New York, N. Y. Metal compounds. 61,880; re-renewed Apr. 9, 1947. O. G. June 17. Class 14.

Goodman Cigar Co. Inc., Westfield, Mass. Cigars. 430,695; June 17. Class 17.

Goodrich, B. F., Company, The, doing business as Hood Rubber Company, New York, N. Y., and Watertown, Mass. Unsupported film in sheet form. 430,584; June 17; Serial No. 493,349; published Apr. 1, 1947. Class 50.

Gotham Instrument Company, New York, N. Y. Thermometer. 430,588; June 17; Serial No. 497,307; published Mar. 18, 1947. Class 26.

Gotham Record Corp., New York, N. Y. Albums of grooved phonograph records. 430,628; June 17; Serial No. 504,174; published Apr. 1, 1947. Class 36.

Grant Photo Products, Inc., New York, N. Y. Sensitized photographing paper. 430,573; June 17; Serial No. 488,753; published Mar. 25, 1947. Class 26.

Grant, W. T., Company, Lynn, Mass., and New York, N. Y., to W. T. Grant Company, New York, N. Y. Batteries. 221,838; renewed Dec. 14, 1946. O. G. June 17. Class 21.

Great Bear Spring Company, New York, N. Y. Ginger ale. 226,470; renewed Apr. 12, 1947. O. G. June 17. Class 45.

Grede Foundries, Inc.: *See—*
Smith, George H., Steel Casting Company.

Half Moon Fruit & Produce Co., San Francisco, Calif. Persian, casaba, and honeydew fresh melons. 430,590; June 17; Serial No. 498,418; published Dec. 10, 1946. Class 46.

Haloid Company, The, Rochester, N. Y. Light sensitive paper, cameras, and camera equipment. 430,619; June 17; Serial No. 502,637; published Mar. 18, 1947. Class 26.

Hardware Products Company, Boston, Mass. Power-transmission gear. 224,994; renewed Mar. 8, 1947. O. G. June 17. Class 23.

Harrower Laboratory, Inc., The, Wilmington, Del., and Glendale, Calif., to The Harrower Laboratory, Inc., Glendale, Calif. Medicinal compound. 220,322; renewed Nov. 9, 1946. O. G. June 17. Class 6.

Havemeyer Oil Company, to The Texas Company, New York, N. Y. Oils and greases. 61,806; re-renewed Apr. 9, 1947. O. G. June 17. Class 15.

Hearst Consolidated Publications, Inc.: *See—*
New York American, Inc.

Hearst Magazines Inc.: *See—*
International Magazine Company, Inc.

Her Majesty Underwear Company: *See—*
Magill, Samuel N., Inc.

Hevener, Osborn F., Irvington, N. J. Humidity indicators. 430,622; June 17; Serial No. 503,168; published Mar. 25, 1947. Class 26.

Hobson, Houghton & Co. Limited, Sheffield, England. Steel in bars, plates, rods, etc. 57,506; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Hood Rubber Company: *See—*
Goodrich, B. F., Company, The.

Horrockses, Crewdson & Co., Limited, Preston and Manchester, England. Cotton piece goods. 220,661; renewed Nov. 16, 1946. O. G. June 17. Class 42.

Houghton, E. F., & Co., Philadelphia, Pa. Oils or the like for treating cotton or other textile fibers. 225,022; renewed Mar. 8, 1947. O. G. June 17. Class 6.

Houghton, E. F., & Co., Philadelphia, Pa. Oils for treating textile fibers. 225,299; renewed Mar. 15, 1947. O. G. June 17. Class 6.

Hovis Limited, London, England. Wheat flour. 219,747; renewed Oct. 26, 1946. O. G. June 17. Class 46.

Huebschman, Hyman, Brooklyn, to Charles of the Ritz, Inc., New York, N. Y. Perfumes, toilet waters, hair tonic, etc. 226,718; renewed Apr. 19, 1947. O. G. June 17. Class 6.

Inecto Inc., to Sales Affiliates, Inc., New York, N. Y. Hair oil. 219,622; renewed Oct. 19, 1946. O. G. June 17. Class 6.

Inecto Inc., to Sales Affiliates, Inc., New York, N. Y. Hair-dye wash. 219,638; renewed Oct. 19, 1946. O. G. June 17. Class 6.

International Magazine Company, Inc., to Hearst Magazines Inc., New York, N. Y. Monthly magazine. 219,445; renewed Oct. 19, 1946. O. G. June 17. Class 38.

International Merit Products Corporation, New York, N. Y. Phonograph needles. 430,607; June 17; Serial No. 501,667; published Mar. 11, 1947. Class 36.

Jonas & Colver, Limited, to Jonas & Colver (Novo) Limited, Sheffield, England. Steel. 57,460–1; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Jonas & Colver (Novo) Limited: *See—*
Jonas & Colver, Limited.

Katinka, Inc., New Haven, Conn. Knitted suits for women and children, morning, afternoon, and evening dress, jersey sport dresses, etc. 226,199; renewed Apr. 5, 1947. O. G. June 17. Class 39.

Keen, Robinson & Company Limited, Norwich and London, England. Patent barley, pearl barley, patent groats, etc. 430,595; June 17; Serial No. 499,238; published Feb. 25, 1947. Class 46.

Kelley-Clarke Company: *See—*
Kelley-Clarke Co., The.

Kelley-Clarke Co., The, to Kelley-Clarke Company, Seattle, Wash. Canned fish. 56,988; re-renewed Oct. 30, 1946. O. G. June 17. Class 46.

Koester, E. H., Bakery Company, The, Baltimore, Md. Bakery products. 430,570; June 17; Serial No. 487,783; published Mar. 25, 1947. Class 46.

Kreider-Creveling Shoe Company: *See—*
Tedcastle, A. W., & Co.

L. and L. Company, Minneapolis, Minn. Geometric instrument. 430,603; June 17; Serial No. 500,012; published Mar. 18, 1947. Class 26.

Landers, Frary & Clark, New Britain, Conn. Bread-making machines, cake-making machines, and egg-beating machines. 56,846; re-renewed Oct. 23, 1946. O. G. June 17. Class 23.

Landers, Frary & Clark, New Britain, Conn. Coffee and spice mills. 56,847; re-renewed Oct. 23, 1946. O. G. June 17. Class 23.

Landers, Frary & Clark, New Britain, Conn. Rotary meat and vegetables choppers. 56,930; re-renewed Oct. 23, 1946. O. G. June 17. Class 23.

Laurel Potteries, Stockton, Calif. Colored pottery dinnerware. 430,625; June 17; Serial No. 503,580; published Mar. 11, 1947. Class 30.

Lawrence Products Co., Attalla, Ala. Cotton rugs. 430,697; June 17. Class 42.

Leadite Company, The: *See—*
Leadite Company of America, The.

Leadite Company of America, The, to The Leadite Company, Philadelphia, Pa. Cement compounds. 61,669; re-renewed Apr. 2, 1947. O. G. June 17. Class 12.

Lehman Bros. Corp.: *See—*
Lehman Bros., Inc.

Lehman Bros., Inc., to Lehman Bros. Corp., Jersey City, N. J. Dry, ready-mixed and paste paints, paint enamels, varnishes, etc. 221,178; renewed Nov. 23, 1946. O. G. June 17. Class 16.

Lehman Bros., Inc., to Lehman Bros. Corp., Jersey City, N. J. Interior and exterior gloss paint. 221,253; renewed Nov. 23, 1946. O. G. June 17. Class 16.

Lehman, Charles H., New York, N. Y. Hearing aids. 430,683; June 17. Class 44.

Lehn & Fink Products Corporation: *See—*
Beiersdorf, P., & Co.
Lysol, Incorporated.

Linn, Geo. W., & Son, to Beatrice Foods Co., Chicago, Ill. Butter. 57,099; re-renewed Nov. 6, 1946. O. G. June 17. Class 46.

Linn, Geo. W., & Son, to Beatrice Foods Co., Chicago, Ill. Butter. 59,199; re-renewed Jan. 1, 1947. O. G. June 17. Class 46.

Loomerica, Incorporated, New York, N. Y. Handkerchiefs. 430,618; June 17; Serial No. 502,586; published Mar. 18, 1947. Class 39.

Lowe, E. S., Company, Inc., New York, N. Y. Game. 430,685; June 17. Class 22.

Lufkin Rule Co., Saginaw, Mich. Folding rules. 224,093; renewed Feb. 15, 1947. O. G. June 17. Class 26.

Lysol, Incorporated, to Lehn & Fink Products Corporation, Bloomfield, N. J. Antiseptic and disinfectants. 226,530; renewed Apr. 12, 1947. O. G. June 17. Class 6.

Magill, Samuel N., Inc., Philadelphia, to Her Majesty Underwear Company, Leola, Pa. Women's knitted, woven, and textile underwear of all kinds. 222,963; renewed Jan. 11, 1947. O. G. June 17. Class 39.

Maine Manufacturing Company, The: *See—*
Maine Manufacturing Co.

Maine Manufacturing Co., to The Maine Manufacturing Company, Nashua, N. H. Refrigerators. 57,911; re-renewed Dec. 4, 1946. O. G. June 17. Class 31.

Maison France, New York, N. Y. Dickeys. 430,690; June 17. Class 39.

Malloy, D. M., & Sons, Cleveland, to Joshua Malloy, doing business as D. M. Malloy & Sons, Chagrin Falls, Ohio. Medicine. 224,438; renewed Mar. 1, 1947. O. G. June 17. Class 6.

Malloy, Joshua: *See—*
Malloy, D. M., & Sons.

Manhattan Incense Works: *See—*
Brilles, Bell D.

Manufacturing Co. of America, to Thos. D. Richardson Company, Philadelphia, Pa. Candy and chewing-gum. 62,187; re-renewed Apr. 23, 1947. O. G. June 17. Class 46.

Marathon Raincoat Mfg. Co., New York, N. Y. Raincoats. 430,629; June 17; Serial No. 504,193; published Mar. 18, 1947. Class 39.

Maricopa Creamery Co., The, Phoenix, Ariz., to The Borden Company, New York, N. Y. Butter. 225,782; renewed Mar. 22, 1947. O. G. June 17. Class 46.

Marshall Field & Company, Chicago, Ill. Hosiery. 57,118; re-renewed Nov. 6, 1946. O. G. June 17. Class 39.

Marvelo Dress Co., Inc., Philadelphia, Pa. Maternity dresses. 430,684; June 17. Class 39.

Maryland Glass Corporation, Baltimore, Md. Glass bottles. 225,523; renewed Mar. 22, 1947. O. G. June 17. Class 33.

Mascolo, C., Beverage Company: *See—*
Mascolo, Emil.

Mascolo, Emil, doing business as C. Mascolo Beverage Company, Waterbury, Conn. Carbonated, nonalcoholic, noncereal, maltless beverages. 224,890 ; renewed Mar. 8, 1947. O. G. June 17. Class 45.

Materials Handling Laboratories : *See—*
Cahners, Norman L.

McMillan Book Company, Syracuse, N. Y. Loose-leaf books. 226,844 ; renewed Apr. 19, 1947. O. G. June 17. Class 37.

McRoskey Airflex Mattress Co. : *See—*
McRoskey, Edward, Mattress Co.

McRoskey, Edward, Mattress Co., to McRoskey Airflex Mattress Co., San Francisco, Calif. Mattresses, bed springs, pillows, etc. 226,624 ; renewed Apr. 12, 1947. O. G. June 17. Class 32

Metal & Thermit Corporation : *See—*
Goldschmidt Thermit Co.

Michael Swanson Brady Produce Co., Kansas City, Mo. Potatoes. 430,658 ; June 17 ; Serial No. 507,771 ; published Mar. 11, 1947. Class 46.

Mid-States Gummed Paper Co. : *See—*
Mid-States Gummed Paper Company.

Mid-States Gummed Paper Company, to Mid-States Gummed Paper Co., Chicago, Ill. Craft paper, bond paper, manila paper, etc. 226,823 ; renewed Apr. 19, 1947. O. G. June 17. Class 37.

Miller Company, The : *See—*
Miller, Edward, & Co.

Miller, Edward, & Co., to The Miller Company, Meriden, Conn. Oil lamps and parts thereof. .60,933 ; re-renewed Feb. 26, 1947. O. G. June 17. Class 34.

Modern Hygiene Corporation : *See—*
Modern Hygiene, Inc.

Modern Hygiene, Inc., assignor to Modern Hygiene Corporation, Boston, Mass. Electric vacuum cleaners. 430,678 ; June 17. Class 21.

Monad Paint & Varnish Co. : *See—*
Atlantic Drier & Varnish Company.

Munsingwear, Inc., Minneapolis, Minn. Women's pajamas. 430,648 ; June 17 ; Serial No. 507,209 ; published Apr. 1, 1947. Class 39.

Munter, Milton M., doing business as Disney Ltd., Brooklyn, to Pond's Extract Company, New York, N. Y. Toilet preparations. 224,795 ; renewed Mar. 8, 1947. O. G. June 17. Class 6.

NEA Service, Inc., Cleveland, Ohio. Comic drawings. 430,676 ; June 17. Class 38.

National Distillers Products Corporation : *See—*
Rosenfield Bros.

Nestlé & Anglo-Swiss Condensed Milk Co., Cham, Switzerland, to Nestlé's Milk Products, Inc., New York, N. Y. Condensed milk, butter, and cheese. 60,486 ; re-renewed Feb. 12, 1947. O. G. June 17. Class 46.

Nestlé's Milk Products, Inc. : *See—*
Nestlé & Anglo-Swiss Condensed Milk Co.

New York American, Inc., to Hearst Consolidated Publications, Inc., New York, N. Y. Daily newspaper. 219,452 ; renewed Oct. 19, 1946. O. G. June 17. Class 38.

Noblesville Milling Company : *See—*
Noblesville Milling Co.

Noblesville Milling Co., Noblesville, to Noblesville Milling Company, Indianapolis, Ind. Wheat flour. 219,363 ; renewed Oct. 19, 1946. O. G. June 17. Class 46.

No Mend Hosiery, Inc., Philadelphia, Pa. Hosiery. 430,623 ; June 17 ; Serial No. 503,212 ; published Mar. 11, 1947. Class 39.

Ojai Orange Association, Ojai, Calif. Fresh citrous fruits. 226,668 ; renewed Apr. 19, 1947. O. G. June 17. Class 46.

Pagliuso Engineering Co. : *See—*
Pagliuso, R. J.

Pagliuso, R. J., doing business as Pagliuso Engineering Co., Glendale, Calif. Photographic equipment. 430,687 ; June 17. Class 26.

Palmolive Company, The, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet and shaving soaps. 224,703 ; renewed Mar. 1, 1947. O. G. June 17. Class 4.

Panther-Panco Rubber Co., Inc., Chelsa, Mass. Shoe soles. 430,633 ; June 17 ; Serial No. 504,926 ; published Apr. 1, 1947. Class 39.

Paramount Knitting Company, to Bear Brand Hosiery Co., Chicago Ill. Hosiery. 60,842–5 ; re-renewed Feb. 19, 1947. O. G. June 17. Class 39.

Parke, L. H., Company, Philadelphia, Pa. Coffee. 226,787 ; renewed Apr. 19, 1947. O. G. June 17. Class 46.

Parker Shirt Company, New Britain, Conn. Men's, boys', and women's outer shirts. 430,565 ; June 17 ; Serial No. 483,334 ; published Nov. 13, 1945. Class 39.

Patrick Industries : *See—*
Patrick, Joshua.

Patrick, Joshua, doing business under the name of Patrick Industries, Detroit, Mich. Animal trap. 430,559 ; June 17 ; Serial No. 478,896 ; published Feb. 25, 1947. Class 50.

Peace, W. K. & C., Limited, Sheffield, England. Steel. 57,485 ; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Penobscot Shoe Company, Old Town, Maine. Shoes. 430,589 ; June 17 ; Serial No. 497,408 ; published Apr. 1, 1947. Class 39.

Pepsin Syrup Co., Monticello, Ill., to Sterling Drug Inc., Wilmington, Del. Remedy for diseases of the stomach and bowels. 61,686 ; re-renewed Apr. 2, 1947. O. G. June 17. Class 6.

Phonolite Corporation, The, St. Louis, Mo. Electric lamp especially adapted for attachment to a telephone. 430,699 ; June 17. Class 21.

Picot Company, The : *See—*
Valldejuli, Manuel S.

Picot Laboratories, Inc. : *See—*
Valldejuli, Manuel S.

Pilkington Brothers Limited, Liverpool, England. Prismatic glass, sheet glass, rolled glass, etc. 430,567 ; June 17 ; Serial No. 486,001 ; published Feb. 18, 1947. Class 33.

Pioneer Creamery Co., Galesburg, to Beatrice Foods Co., Chicago, Ill. Dressed poultry. 221,176 ; renewed Nov. 23, 1946. O. G. June 17. Class 46.

Pioneer Suspender Company, Philadelphia, Pa. Gloves. 430,630 ; June 17 ; Serial No. 504,208 ; published Mar. 11, 1947. Class 39.

Pittsburgh Plate Glass Company : *See—*
Rennous Kleinle & Co. of Baltimore City.

Placentia Orange Growers Association, Fullerton, Calif. Fresh citrus fruits. 430,574 ; June 17 ; Serial No. 489,607 ; published Apr. 1, 1947. Class 46.

Plymhurst Manufacturing Company, Boston, Mass. Ear muffs. 430,657 ; June 17 ; Serial No. 507,752 ; published Mar. 11, 1947. Class 39.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Pianos and organs. 430,631 ; June 17 ; Serial No. 504,697 ; published Apr. 1, 1947. Class 36.

Poix, G. M., Inc., New York, N. Y. Strapless brassières and bandeaux. 430,640 ; June 17 ; Serial No. 505,983 ; published Mar. 18, 1947. Class 39.

Pond's Extract Company : *See—*
Munter, Milton M.

Premier Optical Products, Inc., New York, N. Y. Optical instruments. 430,654 ; June 17 ; Serial No. 507,489 ; published Apr. 1, 1947. Class 26.

Pressed & Welded Steel Products Co., Inc., Long Island City, N. Y. Bookracks. 226,798 ; renewed Apr. 19, 1947. O. G. June 17. Class 32.

Prosperity Company, Inc., The, Syracuse, N. Y. Pressing machine. 223,871 ; renewed Feb. 15, 1947. O. G. June 17. Class 24.

Public Service Tire & Rubber Co., Inc., Brooklyn, N. Y. Inner tubes of rubber compound. 226,826 ; renewed Apr. 19, 1947. O. G. June 17. Class 35.

Red Star Yeast and Products Company, Milwaukee, Wis. Compressed (wet) yeast, dry yeast, yeast food, etc. 430,604 ; June 17 ; Serial No. 500,573 ; published Mar. 11, 1947. Class 46.

Reggie, Christy, doing business as Southern Beauties, Waynesville, N. C. Men's and ladies' shoes. 430,636 ; June 17 ; Serial No. 505,446 ; published Apr. 1, 1947. Class 39.

"Religious Productions" : *See—*
Brown, Howard L.

Rennous Kleinle & Co. of Baltimore City, Baltimore, Md., to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paint and varnish brushes. 59,815 ; re-renewed Jan. 15, 1947. O. G. June 17. Class 29.

Rexon Inc., New York, N. Y. Mouth organs, harmonicas, music boxes, etc. 430,555 ; June 17 ; Serial No. 470,636 ; published Aug. 7, 1945. Class 36.

Rexon Inc., New York, N. Y. Mouth organs, harmonicas, music boxes, etc. 430,556 ; June 17 ; Serial No. 470,640 ; published Aug. 7, 1945. Class 36.

Richardson, Thos. D., Company : *See—*
Manufacturing Co. of America.

Richbar Hats, Inc., The, New York, N. Y. Misses' and junior misses' hats. 430,606 ; June 17 ; Serial No. 501,599 ; published Mar. 18, 1947. Class 39.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Sheets, sheeting, and pillowcases. 430,686 ; June 17. Class 42.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Sheets, sheeting and pillowcases. 430,705 ; June 17. Class 42.

Riverside & Dan River Cotton Mills, Inc., Schoolfield and Danville, Va., to Dan River Mills, Incorporated, Danville, Va. Sheeting, sheets, and pillowcases, etc. 224,653 ; renewed Mar. 1, 1947. O. G. June 17. Class 42.

Rosenfield Bros., Chicago, Ill., to National Distillers Products Corporation, New York, N. Y. Whisky. 226,667 ; renewed Apr. 19, 1947. O. G. June 17. Class 49.

Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. 430,645 ; June 17 ; Serial No. 506,551 ; published Mar. 18, 1947.. Class 39.

Royal Knitting Mills, Inc., Chicago, Ill. Knitted wear. 430,624 ; June 17 ; Serial No. 503,391 ; published Mar. 25, 1947. Class 39.

Sales Affiliates, Inc. : *See—*
Inecto Inc.

Sanderson Brothers & Newbould, Limited, Sheffield, England. Steel and steel bars, rods and sheets, etc. 57,475 ; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Sawyer Crystal Blue Company : *See—*
Sawyer Crystal Blue Company, The.

Sawyer Crystal Blue Company, The, to Sawyer Crystal Blue Company, Boston, Mass. Washing blue. 61,328 ; re-renewed Mar. 12, 1947. O. G. June 17. Class 6.

Schiff Company, The, Columbus, Ohio. Shoes made of leather, fabric or rubber, or combinations thereof. 430,552 ; June 17 ; Serial No. 433,630 ; published Dec. 9, 1941. Class 39.

Scientific Development Corp., New York, N. Y. Photographic appliances. 430,635 ; June 17 ; Serial No. 505,318 ; published Mar. 18, 1947. Class 26.

Seinsheimer, H. A., Company, The, Cincinnati, Ohio. Men's suits, topcoats, and ensembles. 430,615 ; June 17 ; Serial No. 502,338 ; published Mar. 18, 1947. Class 39.

Selmer, H. & A., Inc. : *See—*
Selmer, Henri.

Selmer, Henri, Paris, France, to H. & A. Selmer, Inc., Elkhart, Ind. Wood-wind musical instruments and accessories therefor. 224,533 ; renewed Mar. 1, 1947. O. G. June 17. Class 36.

Servel Corporation, Evansville, Ind., to Servel, Inc., New York, N. Y. Ice tongs and ice picks. 223,165 ; renewed Jan. 18, 1947. O. G. June 17. Class 23.

Servel Corporation, Evansville, Ind., to Servel, Inc., New York, N. Y. Kitchen furniture. 223,166 ; renewed Jan. 18, 1947. O. G. June 17. Class 32.

Servel, Inc. : *See—*
Servel Corporation.

Service Station Equipment Company, Philadelphia, Pa., and Muskegon Heights, Mich. Self-measuring gasoline dispensing pumps. 430,680 ; June 17. Class 26.

Silverman, Renée H., New York, N. Y. Dress patterns. 430,553 ; June 17 ; Serial No. 462,858 ; published Mar. 25, 1947. Class 26.

Simtex Mills, Division of Simmons Company, New York, N. Y. Men's shirts. 430,660–1 ; June 17 ; Serial Nos. 507,856–7 ; published Mar. 18, 1947. Class 39.

Smilin' Thru Maternities, Inc., New York, N. Y. Maternity dresses. 430,582 ; June 17 ; Serial No. 493,078 ; published Mar. 11, 1947. Class 39.

Smith, George H., Steel Casting Company, to Grede Foundries, Inc., Milwaukee, Wis. Metal products. 226,208 ; renewed Apr. 5, 1947. O. G. June 17. Class 14.

Smith, Herbert, Miami, Fla. Tags, labels, or markers. 430,594 ; June 17 ; Serial No. 499,081 ; published Feb. 25, 1947. Class 50.

Snowdon, Inc., Osceola, Iowa. Underwear for women. 430,664 ; June 17 ; Serial No. 508,750 ; published Mar. 18, 1947. Class 39.

Song Lyrics, Inc., New York, N. Y. Periodical publications. 430,670–2 ; June 17. Class 38.

Southern Beauties : *See—*
Reggie, Christy.

Spencer, Walter, & Co., Limited, Sheffield, England. Steel in bar, rod, rail, sheet, etc. 57,391 ; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Spencer, Walter, & Co., Limited, Sheffield, England. Steel in bar, rail, sheet, etc. 57,486 ; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Spencer, Walter, & Co., Limited, Sheffield, England. Steel and iron in bar, rod, rail, etc. 57,617 ; re-renewed Nov. 13, 1946. O. G. June 17. Class 14.

Standard Products Incorporation, Newark, N. J., to F. P. Stewart, Miami Beach, Fla. Powdered preparation for general household cleaning purposes. 226,263 ; renewed Apr. 5, 1947. O. G. June 17. Class 4.

Stedfast Rubber Co., Inc., Mattapan, Mass. Artificial leather. 430,612 ; June 17 ; Serial No. 502,163 ; published Mar. 18, 1947. Class 50.

Stein-Bloch Co., to Fashion Park, Inc., Rochester, N. Y. Men's overcoats and sack coats. 226,791 ; renewed Apr. 19, 1947. O. G. June 17. Class 39.

Stember, Bernard, Summit, N. J. Bill folds, brief cases, valises, etc. 430,702 ; June 17. Class 3.

Sterling Drug Inc. : *See—*
Fairchild Bros. & Foster.
Pepsin Syrup Co.

Stern & Saalberg Company, The, New York, N. Y., to The Sweets Company of America, Incorporated, Hoboken, N. J. Pulling-candies. 62,179 ; re-renewed Apr. 23, 1947. O. G. June 17. Class 46.

Steury, Noah R., Decatur, Ind. Musical cigarette, jewelry, and powder boxes. 430,585 ; June 17 ; Serial No. 493,933 ; published Apr. 1, 1947. Class 36.

Stewart, F. P. : *See—*
Standard Products Incorporation.

Stolman, David J., Gloversville, N. Y. Wool, leather, cotton, and rayon jackets, suits, pants, etc. 430,634 ; June 17 ; Serial No. 505,265 ; published Apr. 1, 1947. Class 39.

Strand Fisheries : *See—*
Strand, Gus.

Strand, Gus, doing business as Strand Fisheries and as Strand-Pioneer Fisheries, Aberdeen, Wash. Canned salmon. 226,342 ; renewed Apr. 5, 1947. O. G. June 17. Class 46.

Strand-Pioneer Fisheries : *See—*
Strand, Gus.

Sunbeam Corporation : *See—*
Chicago Flexible Shaft Company.

Sweets Company of America, Incorporated, The : *See—*
Stern & Saalberg Company, The.

Tailored Silk Undergarment Co. Inc., New York, N. Y. Women's and misses' slips and nightgowns, dresses, etc. 430,646 ; June 17 ; Serial No. 506,971 ; published Mar. 4, 1947. Class 39.

Taylor, Taylor & Hobson Limited, Leicester, England. Photographic lenses. 430,592 ; June 17 ; Serial No. 498,735 ; published Mar. 25, 1947. Class 26.

Taylor, Taylor & Hobson Limited, Leicester, England. Cinematograph projection lenses. 430,593 ; June 17 ; Serial No. 498,736 ; published Mar. 25, 1947. Class 26.

Taylor, Taylor & Hobson Limited, Leicester, England. Photographic lenses. 430,598 ; June 17 ; Serial No. 499,738 ; published Apr. 1, 1947. Class 26.

Taylor, Taylor & Hobson Limited, Leicester, England Photographic lenses. 430,599 ; June 17 ; Serial No. 499,739 ; published Mar. 25, 1947. Class 26.

Taylor, Taylor & Hobson Limited, Leicester, England. Engineers' measuring instruments. 430,600 ; June 17 ; Serial No. 499,741 ; published Mar. 25, 1947. Class 26.

Taylor, Taylor & Hobson Limited, Leicester, England. Surface roughness measuring instruments. 430,601 ; June 17 ; Serial No. 499,742 ; published Mar. 25, 1947. Class 26.

Taylor, Tommy, Togs, New York, N. Y. Boys' two-part suits and blouses. 430,700 ; June 17. Class 39.

Tedcastle, A. W., & Co., to Kreider-Creveling Shoe Company, Boston, Mass. Leather boots and shoes. 61,863 ; re-renewed Apr. 9, 1947. O. G. June 17. Class 39.

Telematic Corporation, Chicago, Ill. Float controlled liquid level gaging apparatus and parts thereof. 430,605 ; June 17 ; Serial No. 500,713 ; published Apr. 1, 1947. Class 26.

Texas Company, The : *See—*
Havemeyer Oil Company.

Texas Company, The, Houston, Tex., and New York, N. Y., to The Texas Company, New York, N. Y. Lubricating oil. 225,135 ; renewed Mar. 15, 1947. O. G. June 17. Class 15.

Thomas, M. & W., Co., New York, N. Y. Silk and rayon piece goods. 430,689 ; June 17. Class 42.

Tru Test Laboratories, Inc., Philadelphia, Pa. Instruments and apparatus for making analytical tests, etc. 430,667 ; June 17. Class 26.

United States Gutta Percha Paint Company, Providence, R. I. Ready-mixed paints and enamel. 226,606 ; renewed Apr. 12, 1947. O. G. June 17. Class 16.

United States News Publishing Corporation, Washington, D. C. Section of periodical publication. 430,681 ; June 17. Class 38.

Valldejuli, Manuel, doing business as The Picot Company, Buffalo, to Picot Laboratories, Inc., Mt. Vernon, N. Y. Preparation for the treatment of indigestion, uric acid conditions, etc. 226,737 ; renewed Apr. 19, 1947. O. G. June 17. Class 6.

Van Baalen Heilbrun & Co., New York, N. Y. Raincoats. 430,653 ; June 17 ; Serial No. 507,471 ; published Apr. 1, 1947. Class 39.

Vimedia Company, assignee : *See—*
Fuller, James C.

Vimedia Company, The : *See—*
Fuller, James C.

Vogue Optical Mfg. Company, New York, N. Y. Optical frames. 430,557 ; June 17 ; Serial No. 475,088 ; published Feb. 27, 1945. Class 26.

Vogue Optical Mfg. Company, New York, N. Y. Optical frames. 430,558 ; June 17 ; Serial No. 475,090 ; published Feb. 27, 1945. Class 26.

Waterman Products Company, Incorporated, Philadelphia, Pa. Oscilloscopes. 430,638 ; June 17 ; Serial No. 505,934 ; published Apr. 1, 1947. Class 26.

Weathers, J. S., doing business as Weathers Poke Company, Windsor, Mo. Animal pokes. 430,694 ; June 17. Class 3.

Weathers Poke Company : *See—*
Weathers, J. S.

Weill, Raphael, & Company, also doing business as The White House, San Francisco, Calif. Women's hats. 430,609 ; June 17 ; Serial No. 501,796 ; published Mar. 25, 1947. Class 39.

Wheary Incorporated : *See—*
Wheary Trunk Company.

Wheary Trunk Company, to Wheary Incorporated, Racine, Wis. Wardrobe trunks and cases. 224,099 ; renewed Feb. 15, 1947. O. G. June 17. Class 3.

White House, The : *See—*
Weill, Raphael, & Company.

Whiting Company, The, New York, N. Y. Leather cuff and collar sets. 430,655 ; June 17 ; Serial No. 507,608 ; published Mar. 18, 1947. Class 39.

Willson Products, Inc., Reading, Pa. Ophthalmic mountings and parts thereof. 430,578 ; June 17 ; Serial No. 490,471 ; published Apr. 1, 1947. Class 26.

Wimelbacher & Rice, Inc., New York, N. Y. Leather and fabric gloves. 430,587 ; June 17 ; Serial No. 497,287 ; published Apr. 1, 1947. Class 39.

Winer Manufacturing Company, Hammond, Ind., assignor to Winer Manufacturing Co., Inc. Sport jackets. 430,602 ; June 17 ; Serial No. 499,979 ; published Oct. 8, 1946. Class 39.

Winer Manufacturing Co., Inc., assignee : *See—*
Winer Manufacturing Company.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Dogs and harnesses. A. L. Fitz Patrick. 226,349; renewed Apr. 5, 1947. O. G. June 17.

CLASS 2

Drinking-cups, Paper. Aseptic Drinking Cup Co. 59,834; re-renewed Jan. 22, 1947. O. G. June 17.

Receptacles made of paper. American Box Board Company. 221,529; renewed Dec. 7, 1946. O. G. June 17.

CLASS 3

Bill folds, brief cases, valises, etc. Bernard Stember. 430,702; June 17.

Pokes, Animal. J. S. Weathers. 430,694; June 17.

Trunks and cases, Wardrobe. Wheary Trunk Company. 224,099; renewed Feb. 15, 1947. O. G. June 17.

CLASS 4

Powdered preparation for general household cleaning purposes. Standard Products Incorporation. 226,263; renewed Apr. 5, 1947. O. G. June 17.

Shaving cream. B. L. Cohen. 430,688; June 17.

Soap. Colgate & Co. 61,829; re-renewed Apr. 9, 1947. O. G. June 17.

Soap, toilet soap, shaving cream, etc., Perfumed. Dubarry Perfumery Company Limited. 221,146; renewed Nov. 23, 1946. O. G. June 17.

Soaps, Toilet and shaving. Palmolive Company. 224,703; renewed Mar. 1, 1947. O. G. June 17.

CLASS 6

Antiseptic and disinfectants. Lysol, Incorporated. 226,530; renewed Apr. 12, 1947. O. G. June 17.

Capsules for uterine diseases, a cerate for external application, a suppository for rectal diseases, etc. J. C. Fuller. 56,538; re-renewed Oct. 2, 1946. O. G. June 17.

Hair-dye wash. Inecto Inc. 219,638; renewed Oct. 19, 1946. O. G. June 17.

Hair oil. Inecto Inc. 219,622; renewed Oct. 19, 1946. O. G. June 17.

Incense, Assorted. B. D. Brilles. 222,402; renewed Jan. 4, 1947. O. G. June 17.

Medicinal compound. Harrower Laboratory, Inc. 220,322; renewed Nov. 9, 1946. O. G. June 17.

Medicine. D. M. Malloy & Sons. 224,438; renewed Mar. 1, 1947. O. G. June 17.

Oils for treating textile fibers. E. F. Houghton & Co. 225,299; renewed Mar. 15, 1947. O. G. June 17.

Oils or the like for treating cotton or other textile fibers. E. F. Houghton & Co. 225,022; renewed Mar. 8, 1947. O. G. June 17.

Perfumery, talc-powder, and toilet water. Colgate & Co. 62,050; re-renewed Apr. 16, 1947. O. G. June 17.

Perfumes, toilet waters, hair tonic, etc. Hyman Huebschman. 226,718; renewed Apr. 19, 1947. O. G. June 17.

Preparation for the modification of cow's milk. Fairchild Bros. & Foster. 62,065; re-renewed Apr. 16, 1947. O. G. June 17.

Preparation for the treatment of indigestion, uric acid conditions, etc. M. S. Valldejuli. 226,737; renewed Apr. 19, 1947. O. G. June 17.

Preparations in liquid or solid form to be used in the permanent waving of hair. Eugene Ltd. 223,852; renewed Feb. 15, 1947. O. G. June 17.

Remedy for diseases of the stomach and bowels. Pepsin Syrup Co. 61,686; re-renewed Apr. 2, 1947. O. G. June 17.

Tinting-color. William Edge & Sons Limited. 61,721; re-renewed Apr. 2, 1947. O. G. June 17.

Toilet preparations. M. M. Munter. 224,795; renewed Mar. 8, 1947. O. G. June 17.

Tooth-paste and tooth powder. P. Beiersdorf & Co. 61,678; re-renewed Apr. 2, 1947. O. G. June 17.

Washing blue. Sawyer Crystal Blue Company. 61,328; re-renewed Mar. 12, 1947. O. G. June 17.

Wrapper impregnated with chemically-compounded rust inhibitors, Cloth. Dearborn Chemical Company. 225,227; renewed Mar. 15, 1947. O. G. June 17.

CLASS 8

Pipes, Smoking. Custom-Bilt Pipes, Inc. 430,691; June 17.

CLASS 9

Torpedoes and toy paper caps, Toy. M. Backes Sons. 29,299; re-renewed Dec. 15, 1946. O. G. June 17.

CLASS 11

Ribbons, sheets, and strips, Inked. Columbia Carbon Company. 224,645; renewed Mar. 1, 1947. O. G. June 17.

CLASS 12

Cement compound. Leadite Company of America. 61,669; re-renewed Apr. 2, 1947. O. G. June 17.

CLASS 14

Metal compounds. Goldschmidt Thermit Co. 61,880; re-renewed Apr. 9, 1947. O. G. June 17.

Metal products. George H. Smith Steel Casting Company. 226,208; renewed Apr. 5, 1947. O. G. June 17.

Steel. Jonas & Colver, Limited. 57,460–1; re-renewed Nov. 13, 1946. O. G. June 17.

Steel. W. K. & C. Peace Limited. 57,485; re-renewed Nov. 13, 1946. O. G. June 17.

Steel and iron in bar, rod, rail, etc. Walter Spencer & Co., Limited. 57,617; re-renewed Nov. 13, 1946. O. G. June 17.

Steel and steel bars, rods and sheets, etc. Sanderson Brothers & Newbould, Limited. 57,475; re-renewed Nov. 13, 1946. O. G. June 17.

Steel, except sheet-steel, Unwrought and partly-wrought. Edgar Allen & Co., Limited. 57,450; re-renewed Nov. 13, 1946. O. G. June 17.

Steel in bar, rod, and rail form, etc. Walter Spencer & Co., Limited. 57,486; re-renewed Nov. 13, 1946. O. G. June 17.

Steel in bar, rod, rail, and sheet form, etc. Walter Spencer & Co., Limited. 57,391; re-renewed Nov. 13, 1946. O. G. June 17.

Steel in bars, plates, rods, etc. Hobson, Houghton & Co. Limited. 57,506; re-renewed Nov. 13, 1946. O. G. June 17.

Steel, unwrought and partly wrought. Edgar Allen & Co., Limited. 57,379–80; re-renewed Nov. 13, 1946. O. G. June 17.

CLASS 15

Lubricant concentrate. Elco Lubricant Corporation. 430,561; June 17; Serial No. 480,409; published Mar. 11, 1947.

Lubricant concentrate. Elco Lubricant Corporation. 430,562–3; June 17; Serial Nos. 482,096–7; published Mar. 11, 1947.

Lubricants, Cutting. Bee Chemical Company. 430,581; June 17; Serial No. 491,384; published Mar. 18, 1947.

Oil, Lubricating. Texas Company. 225,135; renewed Mar. 15, 1947. O. G. June 17.

Oils and greases. Havemeyer Oil Company. 61,806; re-renewed Apr. 9, 1947. O. G. June 17.

CLASS 16

Paint, Interior and exterior gloss. Lehman Bros., Inc. 221,253; renewed Nov. 23, 1946. O. G. June 17.

Paints and enamel, Ready-mixed. United States Gutta Percha Paint Company. 226,606; renewed Apr. 12, 1947. O. G. June 17.

Paints, paint enamels, varnishes, etc., Dry, ready-mixed and paste. Lehman Bros., Inc. 221,178–9; renewed Nov. 23, 1946. O. G. June 17.

Varnish, Spar. Atlantic Drier & Varnish Company. 226,378; renewed Apr. 5, 1947. O. G. June 17.

CLASS 17

Cigars. Fernandez, Palicio y Compania, S. en C. 226,818; renewed Apr. 19, 1947. O. G. June 17.

Cigars. Goodman Cigar Co. Inc. 430,695; June 17.

Tobacco, Smoking. Custom-Bilt Pipes, Inc. 430,692; June 17.

CLASS 19

Sleds. S. L. Allen & Co. 61,432–3; re-renewed Mar. 19, 1947. O. G. June 17.

CLASS 21

Batteries. W. T. Grant Company. 221,838; renewed Dec. 14, 1946. O. G. June 17.

Electrical automobile trouble lamps, and parts thereof. BMC Manufacturing Corporation. 430,693; June 17.

Electrical control instruments. Airdar Corporation. 430,554; June 17; Serial No. 464,865; published Mar. 7, 1944.

Lamp especially adapted for attachment to a telephone, Electric. Phonolite Corporation. 430,699; June 17.

Vacuum cleaners, Electric. Modern Hygiene, Inc. 430,678; June 17.

CLASS 22

Fish-lines. Ashaway Line & Twine Manufacturing Company. 59,016; re-renewed Jan. 1, 1947. O. G. June 17.

Game. E. S. Lowe Company, Inc. 430,685; June 17.

CLASS 23

Bread-making machines, cake-making machines, and egg-beating machines. Landers, Frary & Clark. 56,846; re-renewed Oct. 23, 1946. O. G. June 17.

Choppers, Rotary meat and vegetable. Landers, Frary & Clark. 56,930; re-renewed Oct. 23, 1946. O. G. June 17.

Files, gouges, chisels, etc. C. F. Butcher. 58,634; re-renewed Dec. 18, 1946. O. G. June 17.

Gear, Power-transmission. Hardware Products Company. 224,994; renewed Mar. 8, 1947. O. G. June 17.

Mills, Coffee and spice. Landers, Frary & Clark. 56,847; re-renewed Oct. 23, 1946. O. G. June 17.

Razors. C. F. Butcher. 62,019; re-renewed Apr. 16, 1947. O. G. June 17.

Tongs and ice picks, Ice. Servel Corporation. 223,165; renewed Jan. 18, 1947. O. G. June 17.

CLASS 24

Pressing machines. Prosperity Company, Inc. 223,871; renewed Feb. 15, 1947. O. G. June 17.

CLASS 26

Brick layers' levels. W. T. H. Ayers. 430,643; June 17; Serial No. 506,364; published Apr. 1, 1947.

Dispensing-pumps, Self-measuring gasoline. Service Station Equipment Company. 430,680; June 17.

Drawing instruments and supplies. Eugene Dietzgen Co. 430,566; June 17; Serial No. 483,812; published Apr. 1, 1947.

Gaging apparatus and parts thereof, Float controlled liquid level. Telematic Corporation. 430,605; June 17; Serial No. 500,713; published Apr. 1, 1947.

Geometric instrument. L. and L. Company. 430,603; June 17; Serial No. 500,012; published Mar. 18, 1947.

Indicators, Humidity. O. F. Hevener. 430,622; June 17; Serial No. 503,168; published Mar. 25, 1947.

Instruments and apparatus for making analytical tests, etc. Tru Test Laboratories, Inc. 430,667; June 17.

Instruments for quantitatively determining the sensitivity of any portion of the human body. W. O. Frohring. 430,626; June 17; Serial No. 503,893; published Mar. 18, 1947.

Lenses, Cinematograph projection. Taylor, Taylor & Hobson Limited. 430,593; June 17; Serial No. 498,736; published Mar. 25, 1947.

Measuring instruments, Engineers'. Taylor, Taylor & Hobson Limited. 430,600; June 17; Serial No. 499,741; published Mar. 25, 1947.

Measuring instruments, Surface roughness. Taylor, Taylor & Hobson Limited. 430,601; June 17; Serial No. 499,742; published Mar. 25, 1947.

Motion picture film productions, Series of. C. Dudley. 430,641; June 17; Serial No. 506,101; published Apr. 1, 1947.

Ophthalmic mountings and parts thereof. Willson Products, Inc. 430,578; June 17; Serial No. 490,471; published Apr. 1, 1947.

Optical frames. Vogue Optical Mfg. Company. 430,557; June 17; Serial No. 475,088; published Feb. 27, 1945.

Optical frames. Vogue Optical Mfg. Company. 430,558; June 17; Serial No. 475,090; published Feb. 27, 1945.

Optical instruments. Premier Optical Products, Inc. 430,654; June 17; Serial No. 507,489; published Apr. 1, 1947.

Oscilloscopes. Waterman Products Company, Incorporated. 430,638; June 17; Serial No. 505,934; published Apr. 1, 1947.

Patterns, Dress. R. H. Silverman. 430,553; June 17; Serial No. 462,858; published Mar. 25, 1947.

Photographic appliances. Scientific Development Corp. 430,635; June 17; Serial No. 505,318; published Mar. 18, 1947.

Photographic equipment. R. J. Pagliuso. 430,687; June 17.

Photographic lenses. Taylor, Taylor & Hobson Limited. 430,592; June 17; Serial No. 498,735; published Mar. 25, 1947.

Photographic lenses. Taylor, Taylor & Hobson Limited. 430,598; June 17; Serial No. 499,738; published Apr. 1, 1947.

Photographic lenses. Taylor, Taylor & Hobson Limited. 430,599; June 17; Serial No. 499,739; published Mar. 25, 1947.

Photographic supplies. Burke & James, Inc. 430,632; June 17; Serial No. 504,739; published Mar. 18, 1947.

Rules, Folding. Lufkin Rule Co. 224,093; renewed Feb. 15, 1947. O. G. June 17.

Sensitive paper, cameras, and camera equipment, Light. Haloid Company. 430,619; June 17; Serial No. 502,637; published Mar. 18, 1947.

Sensitized photographing paper. Grant Photo Products, Inc. 430,573; June 17; Serial No. 488,753; published Mar. 25, 1947.

Thermometer. Gotham Instrument Company. 430,588; June 17; Serial No. 497,307; published Mar. 18, 1947.

CLASS 29

Brushes, Paint and varnish. Rennous Kleinle & Co. of Baltimore City. 59,815; re-renewed Jan. 15, 1947. O. G. June 17.

CLASS 30

Pottery dinnerware, Colored. Laurel Potteries. 430,625; June 17; Serial No. 503,580; published Mar. 11, 1947.

CLASS 31

Refrigerators. Maine Manufacturing Co. 57,911; re-renewed Dec. 4, 1946. O. G. June 17.

Refrigerators and refrigerating equipment. L. H. Behrens. 430,704; June 17.

CLASS 32

Bookracks. Pressed & Welded Steel Products Co. Inc. 226,798; renewed Apr. 19, 1947. O. G. June 17.

Furniture, Kitchen. Servel Corporation. 223,166; renewed Jan. 18, 1947. O. G. June 17.

Mattresses, bed springs, pillows, etc. Edward McRoskey Mattress Co. 226,624; renewed Apr. 12, 1947. O. G. June 17.

CLASS 33

Crystals, Watch. Fulton Watch Crystal Corp. 430,698; June 17.

Glass bottles. Maryland Glass Corporation. 225,523; renewed Mar. 22, 1947. O. G. June 17.

Glass, sheet glass, rolled glass, etc., Prismatic. Pilkington Brothers Limited. 430,567; June 17; Serial No. 486,001; published Feb. 18, 1947.

Receptacles for household use. Chicago Flexible Shaft Company. 430,571; June 17; Serial No. 488,190; published Mar. 11, 1947.

CLASS 34

Air conditioning, drying, and ventilating equipment. Carrier Engineering Corporation. 223,772; renewed Feb. 8, 1947. O. G. June 17.

Gas making equipment and complete gas plant mixers and vaporizers, etc. American Liquid Gas Corporation. 430,666; June 17.

Lamps and parts thereof, Oil. Edward Miller & Co. 60,933; re-renewed Feb. 26, 1947. O. G. June 17.

CLASS 35

Tubes of rubber compound, Inner. Public Service Tire & Rubber Co., Inc. 226,826; renewed Apr. 19, 1947. O. G. June 17.

CLASS 36

Albums of grooved phonograph records. Gotham Record Corp. 430,628; June 17; Serial No. 504,174; published Apr. 1, 1947.

Musical cigarette, jewelry, and powder boxes. N. R. Steury. 430,585; June 17; Serial No. 493,933; published Apr. 1, 1947.

Musical instruments and accessories therefor, Wood-wind. Henri Selmer. 224,533; renewed Mar. 1, 1947. O. G. June 17.

Organs, harmonicas, music boxes, etc., Mouth. Rexon Inc. 430,555; June 17; Serial No. 470,636; published Aug. 7, 1945.

Organs, harmonicas, music boxes, etc., Mouth. Rexon Inc. 430,556; June 17; Serial No. 470,640; published Aug. 7, 1945.

Phonograph needles. Duotone Company. 430,583; June 17; Serial No. 493,333; published Feb. 18, 1947.

Phonograph needles. International Merit Products Corporation. 430,607; June 17; Serial No. 501,667; published Mar. 11, 1947.

Phonograph recording blanks. J. Blumenthal. 430,579; June 17; Serial No. 490,995; published Mar. 18, 1947.

Phonograph records, Grooved. H. L. Brown. 430,610; June 17; Serial No. 501,818; published Mar. 18, 1947.

Pianos and organs. Plymouth Wholesale Dry Goods Corporation. 430,631; June 17; Serial No. 504,697; published Apr. 1, 1947.

Records, talking machines, and supplies therefor, Talking machine. Columbia Phonograph Company. 61,237; re-renewed Mar. 12, 1947. O. G. June 17.

CLASS 37

Loose-leaf books. McMillan Book Company. 226,844; renewed Apr. 19, 1947. O. G. June 17.

Paper and envelopes, Writing. H. H. Gartner. 430,674; June 17.

Paper, bond paper, manila paper, etc., Craft. Mid-States Gummed Paper Company. 226,823; renewed Apr. 19, 1947. O. G. June 17.

CLASS 38

Blocks of symbols including letters, numbers, punctuation marks, etc., Units of. D. F. Buckingham. 430,679; June 17.

Comic drawings. NEA Service, Inc. 430,676; June 17.

Magazine. Gillette Publishing Company. 430,682; June 17.

Magazine, Monthly. International Magazine Company, Inc. 219,445; renewed Oct. 19, 1946. O. G. June 17.

Magazines. D. F. Copell. 430,669; June 17.

Newspaper, Daily. New York American, Inc. 219,452; renewed Oct. 19, 1946. O. G. June 17.

Publication. Foley & Company. 430,668; June 17.

Publication, Monthly. Cambridge Associates, Inc. 430,673; June 17.

Publication, Monthly. Fawcett Publications, Inc. 430,703; June 17.

Publication, Monthly. H. Gernsback. 430,677; June 17.

Publications, Periodic. Barnes & Williams Co. 430,696; June 17.

Publications, Periodical. Song Lyrics, Inc. 430,670–2; June 17.

Section of periodical publications. United States News Publishing Corporation. 430,681; June 17.

CLASS 39

Apparel and uniforms, Men's and women's washable or cleanable. Angelica Jacket Company. 225,700; renewed Mar. 22, 1947. O. G. June 17.

Bibs and panties; and ladies' aprons and rain hoods, etc., Infants'. Century Textile Products. 430,639; June 17; Serial No. 505,950; published Mar. 11, 1947.

Blouses. American Blouse Co. Inc. 430,663; June 17; Serial No. 508,568; published Mar. 18, 1947.

Boots and shoes, Leather. Chippewa Shoe Co. 430,652; June 17; Serial No. 507,374; published Apr. 1, 1947.

Boots and shoes, Leather. A. W. Tedcastle & Co. 61,863; re-renewed Apr. 9, 1947. O. G. June 17.

Brassières and bandeaux, Strapless. G. M. Poix, Inc. 430,640; June 17; Serial No. 505,983; published Mar. 18, 1947.

Coats and legging sets, Children's. Louis Gastwirth & Co. 430,644; June 17; Serial No. 506,519; published Apr. 1, 1947.

Coats, Boys' and men's woolen, cotton, and leather. Cape Ann Manufacturing Co. 430,665; June 17; Serial No. 508,887; published Mar. 18, 1947.

Coats, suits, skirts, etc., Women's and children's. Brook Manufacturing Company (Northampton) Limited. 430,596; June 17; Serial No. 499,378; published Apr. 1, 1947.

Coats, suits, skirts, etc., Women's and children's. Brown & Wilkinson Limited. 430,597; June 17; Serial No. 499,379; published Apr. 1, 1947.

Coats, wraps, suits, etc., Ladies', misses', and juniors'. S. N. Brimberg. 219,627; renewed Oct. 19, 1946. O. G. June 17.

Cuff and collar sets, Leather. Whiting Company. 430,655; June 17; Serial No. 507,608; published Mar. 18, 1947.

Cushions and insoles for shoes, shaped padding for caps, hats, etc., Arch. Firestone Tire & Rubber Company. 430,568; June 17; Serial No. 486,144; published Feb. 5, 1946.

Dickeys. Maison France. 430,690; June 17.

Dresses, blouses, playsuits, etc., Ladies', misses', and girls'. Folker Fabrics Corp. 430,649; June 17; Serial No. 507,249; published Mar. 4, 1947.

Dresses, Ladies' and misses'. Dumari Textile Co., Inc. 430,608; June 17; Serial No. 501,724; published Apr. 1, 1947.

Dresses, Maternity. Marvelo Dress Co., Inc. 430,684; June 17.

Dresses, Maternity. Smilin' Thru Maternities, Inc. 430,582; June 17; Serial No. 493,078; published Mar. 11, 1947.

Dresses, slacks, outer shorts, etc., Children's, girls' and misses'. Fashion Children Dress Co. 430,637; June 17; Serial No. 505,690; published Mar. 11, 1947.

Dresses, Women's and misses'. Cohen Bros. Dress Corp. 430,650; June 17; Serial No. 507,298; published Mar. 4, 1947.

Gloves. Pioneer Suspender Company. 430,630; June 17; Serial No. 504,208; published Mar. 11, 1947.

Gloves, Leather and fabric. Wimelbacher & Rice, Inc. 430,587; June 17; Serial No. 497,287; published Apr. 1, 1947.

Handkerchiefs. Loomerica, Incorporated. 430,618; June 17; Serial No. 502,586; published Mar. 18, 1947.

Handkerchiefs, scarves, and fascinators, Ladies'. Brian Fabrics Corp. 430,564; June 17; Serial No. 482,271; published Mar. 18, 1947.

Hats, Men's. J. Dempsey. 430,617; June 17; Serial No. 502,502; published Mar. 18, 1947.

Hats, Misses' and junior misses'. Richbar Hats, Inc. 430,606; June 17; Serial No. 501,599; published Mar. 18, 1947.

Hats, Women's. Raphael Weill & Company. 430,609; June 17; Serial No. 501,796; published Mar. 25, 1947.

Hosiery. Marshall Field & Company. 57,118; re-renewed Nov. 6, 1946. O. G. June 17.

Hosiery. No Mend Hosiery, Inc. 430,623; June 17; Serial No. 503,212; published Mar. 11, 1947.

Hosiery. Paramount Knitting Company. 60,842–5; re-renewed Feb. 19, 1947. O. G. June 17.

Hosiery. Chester H. Roth Co., Inc. 430,645; June 17; Serial No. 506,551; published Mar. 18, 1947.

Insoles, Resilient, removable. Daviot Company. 430,616; June 17; Serial No. 502,367; published Mar. 25, 1947.

Jackets, Sport. Winer Manufacturing Company. 430,602; June 17; Serial No. 499,979; published Oct. 8, 1946.

Jackets, suits, pants, etc., Wool, leather, cotton and rayon. D. J. Stolman. 430,634; June 17; Serial No. 505,265; published Apr. 1, 1947.

Knitted wear. Royal Knitting Mills, Inc. 430,624; June 17; Serial No. 503,391; published Mar. 25, 1947.

Muffs, Ear. Plymhurst Manufacturing Company. 430,657; June 17; Serial No. 507,752; published Mar. 11, 1947.

Overcoats and sack coats, Men's. Stein-Bloch Co. 226,791; renewed Apr. 19, 1947. O. G. June 17.

Pajamas and sport shirts, Men's. Crown Manufacturing Company, Inc. 430,560; June 17; Serial No. 478,989; published Apr. 1, 1947.

Pajamas, slips, and nightgowns, Ladies', misses', and children's. A. Cohen. 430,659; June 17; Serial No. 507,803; published Mar. 18, 1947.

Pajamas, Women's. Munsingwear, Inc. 430,648; June 17; Serial No. 507,209; published Apr. 1, 1947.

Raincoats. Marathon Raincoat Mfg. Co. 430,629; June 17; Serial No. 504,193; published Mar. 18, 1947.

Raincoats. Van. Baalen Heilbrun & Co. 430,653; June 17; Serial No. 507,471; published Apr. 1, 1947.

Raincoats, jackets, sport jackets, etc. Duchess Royal. 430,575–6; June 17; Serial Nos. 490,238–9; published Apr. 1, 1947.

Raincoats, rain capes and hoods. H. W. Dean. 430,662; June 17; Serial No. 508,105; published Mar. 18, 1947.

Shirts, Men's. Simtex Mills, Division of Simmons Company. 430,660–1; June 17; Serial Nos. 507,856–7; published Mar. 18, 1947.

Shirts, Men's, boys', and women's outer. Parker Shirt Company. 430,565; June 17; Serial No. 483,334; published Nov. 13, 1945.

Shirts, undershirts, underwear, etc., Men's outer. Excelsior Varsity Underwear Corporation. 430,656; June 17; Serial No. 507,721; published Mar. 11, 1947.

Shoe soles. Panther-Panco Rubber Co., Inc. 430,633; June 17; Serial No. 504,926; published Apr. 1, 1947.

Shoes. Bates Shoe Company. 430,627; June 17; Serial No. 504,148; published Mar. 18, 1947.

Shoes. Gilbert Shoe Co. 430,614; June 17; Serial No. 502,285; published Mar. 11, 1947.

Shoes. Penobscot Shoe Company. 430,589; June 17; Serial No. 497,408; published Apr. 1, 1947.

Shoes. Schiff Company. 430,552; June 17; Serial No. 433,630; published Dec. 9, 1941.

Shoes, Ladies'. Edison Brothers Stores, Inc. 430,591; June 17; Serial No. 498,510; published Mar. 18, 1947.

Shoes, Men's and ladies'. C. Reggie. 430,636; June 17; Serial No. 505,446; published Apr. 1, 1947.

Shoes, slippers, mules, and pumps, Women's, misses', and children's. General Shoe Corporation. 430,620; June 17; Serial No. 502,890; published Mar. 25, 1947.

Skirts, shirts, shorts, etc., Women's, misses', and junior. Century Sportswear Co., Inc. 430,651; June 17; Serial No. 507,371; published Mar. 4, 1947.

Slips and nightgowns, dresses, etc., Women's and misses'. Tailored Silk Undergarment Co. Inc. 430,646; June 17; Serial No. 506,971; published Mar. 4, 1947.

Sportswear, Ladies' and girls'. Carr Manufacturing Company. 430,647; June 17; Serial No. 507,106; published Mar. 4, 1947.

Suits and blouses, Boys' two-part. Tommy Taylor Togs. 430,700; June 17.

Suits for women and children, morning, afternoon, and evening dresses, jersey sport dresses, etc., Knitted. Katinka, Inc. 226,199; renewed Apr. 5, 1947. O. G. June 17.

Suits, sport coats, slacks, etc., Men's. Wm. P. Goldman & Bros. Inc. 430,642; June 17; Serial No. 506,357; published Mar. 4, 1947.

Suits, topcoats, and ensembles, Men's. H. A. Seinsheimer Company. 430,615; June 17; Serial No. 502,338; published Mar. 18, 1947.

Underwear for women. Snowdon, Inc. 430,664; June 17; Serial No. 508,750; published Mar. 18, 1947.

Underwear of all kinds, Women's knitted, woven, and textile. Samuel N. Magill Inc. 222,963; renewed Jan. 11, 1947. O. G. June 17.

CLASS 41

Umbrellas. Samuel Fox & Co. Limited. 57,106; re-renewed Nov. 6, 1946. O. G. June 17.

CLASS 42

Comforters, patchwork quilts, bedspreads, etc. Barclay Home Products, Inc. 430,701; June 17.

Cotton piece goods. Dumari Textile Co., Inc. 222,405; renewed Jan. 4, 1947. O. G. June 17.

Cotton piece goods. Horrockses, Crewdson & Co., Limited. 220,661; renewed Nov. 16, 1946. O. G. June 17.

Cotton rugs. Lawrence Products Co. 430,697; June 17.

Sheeting, sheets, and pillowcases, etc. Riverside & Dan River Cotton Mills, Inc. 224,653; renewed Mar. 1, 1947. O. G. June 17.

Sheets, sheeting, and pillowcases. Riverside & Dan River Cotton Mills, Inc. 430,686; June 17.

Sheets, sheeting, and pillowcases. Riverside & Dan River Cotton Mills, Inc. 430,705; June 17.

Silk and rayon piece goods. M. & W. Thomas Co. 430,689; June 17.

Textile fabrics in the piece. Crest Fabrics Corp. 430,675; June 17.

CLASS 44

Hearing aids. C. H. Lehman. 430,683; June 17.

CLASS 45

Beverage, Nonalcoholic, maltless. M. C. Bulluck. 224,554; renewed Mar. 1, 1947. O. G. June 17.

Beverages, Carbonated, nonalcoholic, noncereal, maltless. E. Mascolo. 224,890; renewed Mar. 8, 1947. O. G. June 17.

Ginger ale. Great Bear Spring Company. 226,470; renewed Apr. 12, 1947. O. G. June 17.

CLASS 46

Bakery products. E. H. Koester Bakery Company. 430,570; June 17; Serial No. 487,783; published Mar. 25, 1947.

Barley, pearl barley, patent groats, etc., Patent. Keen, Robinson & Company Limited. 430,595; June 17; Serial No. 499,238; published Feb. 25, 1947.

Bread, cake, crackers, etc. First National Stores, Inc. 226,760; renewed Apr. 19, 1947. O. G. June 17.

Butter. Continental Creamery Company. 56,818; re-renewed Oct. 23, 1946. O. G. June 17.

Butter. Continental Creamery Company. 56,820; re-renewed Oct. 23, 1946. O. G. June 17.

Butter. Geo. W. Linn & Son. 57,099; re-renewed Nov. 6, 1946. O. G. June 17.

Butter. Geo. W. Linn & Sons. 59,199; re-renewed Jan. 1, 1947. O. G. June 17.

Butter. Maricopa Creamery Co. 225,782; renewed Mar. 22, 1947. O. G. June 17.

Candies, peppermint lozenges, natural mint flavored lozenges, etc., Peppermint. Forcherio Hnos. S. R. Ltda. 430,572; June 17; Serial No. 488,580; published Mar. 11, 1947.

Candy and chewing-gum. Manufacturing Co. of America. 62,187; re-renewed Apr. 23, 1947. O. G. June 17.

Cane and maple sirup, honey. California Syrup & Extract Company, Inc. 223,033; renewed Jan. 11, 1947. O. G. June 17.

Canned fish. Kelley-Clarke Co. 56,988; re-renewed Oct. 30, 1946. O. G. June 17.

Canned salmon. G. Strand. 226,342; renewed Apr. 5, 1947. O. G. June 17.

Cheese. F. X. Baumert & Company. 60,251; re-renewed Feb. 5, 1947. O. G. June 17.

Cheese. F. X. Baumert & Company. 60,289; re-renewed Feb. 5, 1947. O. G. June 17.

Cheese. Chateau Cheese Company Limited. 226,374; renewed Apr. 5, 1947. O. G. June 17.

Coffee. L. H. Parke Company. 226,787; renewed Apr. 19, 1947. O. G. June 17.

Flour, Wheat. Hovis Limited. 219,747; renewed Oct. 26, 1946. O. G. June 17.

Flour, Wheat. Noblesville Milling Company. 219,363; renewed Oct. 19, 1946. O. G. June 17.

Fruit, Fresh. Fennville Fruit Exchange, Inc. 224,595; renewed Mar. 1, 1947. O. G. June 17.

Fruits, Fresh citrous. Ojai Orange Association. 226,668; renewed Apr. 19, 1947. O. G. June 17.

Fruits, Fresh citrus. Placentia Orange Growers Association. 430,574; June 17; Serial No. 489,607; published Apr. 1, 1947.

Melons, Persian, casaba, and honeydew fresh. Half Moon Fruit & Produce Co. 430,590; June 17; Serial No. 498,418; published Dec. 10, 1946.

Milk, butter, and cheese, Condensed. Nestlé & Anglo-Swiss Condensed Milk Co. 60,486; re-renewed Feb. 12, 1947. O. G. June 17.

Potatoes. Michael Swanson Brady Produce Co. 430,658; June 17; Serial No. 507,771; published Mar. 11, 1947.

Poultry, Dressed. Pioneer Creamery Co. 221,176; renewed Nov. 23, 1946. O. G. June 17.

Pulling-candies. Stern & Saalberg Company. 62,179; re-renewed Apr. 23, 1947. O. G. June 17.

Turkeys, turkey poults and fresh and hatching eggs. Dixie-Del Farms. 430,569; June 17; Serial No. 486,479; published Apr. 1, 1947.

Yeast; dry yeast; yeast food; etc., Compressed (wet). Red Star Yeast and Products Company. 430,604; June 17; Serial No. 500,573; published Mar. 11, 1947.

CLASS 49

Whisky. Rosenfield Bros. 226,667; renewed Apr. 19, 1947. O. G. June 17.

CLASS 50

Caps, Closure. Anchor Hocking Glass Corporation. 430,611; June 17; Serial No. 502,093; published Mar. 25, 1947.

Desk sets. Flexible File Company. 430,613; June 17; Serial No. 502,281; published Mar. 25, 1947.

Film in sheet form, Unsupported. B. F. Goodrich Company. 430,584; June 17; Serial No. 493,349; published Apr. 1, 1947.

Leather, Artificial. Stedfast Rubber Co., Inc. 430,612; June 17; Serial No. 502,163; published Mar. 18, 1947.

Platforms, Portable material handling. N. L. Cahners. 430,621; June 17; Serial No. 503,157; published Mar. 11, 1947.

Pottery, statues and statuettes, Art. Furane Plastics and Chemicals Company. 430,586; June 17; Serial No. 495,543; published Mar. 18, 1947.

Rug pads. Dunlop Tire and Rubber Corporation. 430,577; June 17; Serial No. 490,367; published Apr. 1, 1947.

Tags, labels or markers. H. Smith. 430,594; June 17; Serial No. 499,081; published Feb. 25, 1947.

Tents; tarpaulins; and non-tailored waterproof fabric covers. Bemis Bro. Bag Company. 430,580; June 17; Serial No. 491,053; published Feb. 18, 1947.

Trap, Animal. J. Patrick. 430,559; June 17; Serial No. 478,896; published Feb. 25, 1947.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Dauenhauer, Florian F., Santa Rosa, Calif. Stationary type hop picking machine. Re. 22,889; June 17.

General Motors Corporation, assignee: *See*—
Manney, David H.

Manney, David H., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Breather plug for electric motors. Re. 22,890; June 17.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 739; June 17.

Jackson & Perkins Company, assignee: *See*—
Boerner, Eugene S.

LIST OF DESIGN PATENTEES

Allied Plastics Company, assignee: *See*—
Crane, Walton B.

Ayres, Francis L.: *See*—
Fossum, Erling G., and Ayres.

Barrett, Howard J., Philadelphia, Pa. Sled. 146,934; June 17.

Bradford, Arthur J., Wilmette, assignor to Motion Picture Engineering Corporation, Chicago, Ill. Picture projector. 146,935; June 17.

Brown, Susan S.: *See*—
Mitchell, Jeanette F., and Brown.

Chernow, Michael, New York, N. Y. Earring or similar article. 146,936; June 17.

Columbia Protektosite Company, Inc., assignee: *See*—
Lux, Eugene J.

Cooper, Virgil K., North Hollywood, Calif. Clothespin or similar article. 146,937; June 17.

Crane, Walton B., Beverly Hills, assignor to Allied Plastics Company, Los Angeles, Calif. Compact. 146,938; June 17.

Fossum, Erling G., and F. L. Ayres, assignors to Stewart-Warner Corporation, Chicago, Ill. Service station write-up desk or similar article. 146,939; June 17.

Giannini, G. M., & Co. Inc., assignee: *See*—
Klose, Alfred J.

Hackley, Joseph, Stoke-on-Trent, England. Dinner plate. 146,940; June 17.

Klose, Alfred J., Rolling Hills, Calif., assignor to G. M. Giannini & Co., Inc., New York, N. Y. Model airplane. 146,941; June 17.

Lederer, George J., Providence, R. I. Pendant. 146,942; June 17.

Lederer, George J., Providence, R. I. Pendant. 146,943; June 17.

Lisi, Frank A., Philadelphia, Pa. Doll's cradle. 146,944; June 17.

Lux, Eugene J., New York, N. Y., assignor to Columbia Protektosite Company, Inc., Carlstadt, N. J. Comb with handle. 146,945; June 17.

Mitchell, Jeanette F., and S. S. Brown, Portsmouth, Va. Figure toy. 146,946; June 17.

Motion Picture Engineering Corporation, assignee: *See*—
Bradford, Arthur J.

Roths, Herbert C., Alpena, Mich. Tractor. 146,947; June 17.

Saltz, Frank H., La Crosse, Wis. Card file. 146,948; June 17.

Saltz, Frank H., La Crosse, Wis. Card file. 146,949; June 17.

Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,950; June 17.

Steinberg, Ervin B., Milwaukee, Wis. Bather's cosmetics box or similar article. 146,951; June 17.

Stewart-Warner Corporation, assignee: *See*—
Fossum, Erling G., and Ayers.

Walker, Jane, New York, N. Y. Suit. 146,952; June 17.

Walker, Jane, New York, N. Y. Suit. 146,953; June 17.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbink-Spaink, Johann H.: *See*—
Ingoldby, Maurice K., and Abbink-Spaink.
Abernathy, David W., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Fluorescent illumination. 2,422,280; June 17.
Aceves, Julius G.: *See*—
Amy, Ernest V., and Aceves.
Adams, Harry L., Denver, Colo., assignor to Adams Retouching Machine Company. Photographic retouching device. 2,422,174; June 17.
Adams Retouching Machine Company, assignee: : *See*—
Adams, Harry L.
Adams, Robert T., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for insulating conductors. 2,422,281; June 17.
Adams, Robert T., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,422,282; June 17.
Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Wickerham, Lynferd J.
Air Reduction Company, Incorporated, assignee: *See*—
Crowe, John J.
Albright, E. J., & Co., assignee: *See*—
Albright, Edward J.
Albright, Edward J., assignor to E. J. Albright & Co., Chicago, Ill. Apparatus for plucking feathers. 2,422,608; June 17.
Alexander, Harry S., assignor to Keystone View Company, Meadville, Pa. Stereoscopical instrument. 2,422,384; June 17.
Alfano, Louis, Los Angeles, Calif. Safety means for cranes. 2,422,329; June 17.
Allen, John L., New Bedford, Mass. Apparatus for cleaning knitting machines. 2,422,514; June 17.
Allerdice, Joseph M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dust preventing device for packaging subdivided materials. 2,422,330; June 17.
Allied Control Company, Inc., assignee: *See*—
Curry, Robert S., Jr., Horman, Kircher, and Winsker.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Hansson, Bror, and Ljungberg.
Aluminum Goods Manufacturing Company, assignee: *See*—
Hansen, Harold, and Seefeldt.
Amberg, Charles R., Alfred, N. Y., and H. C. Harrison, Portland, Oreg., assignors to The Exolon Company, Blasdell, N. Y. Method of vitreous coating refractory material. 2,422,215; June 17.
American Can Company, assignee: *See*—
Jakob, John P.
American Coach & Body Company, The, assignee: *See*—
Troche, Herman J., and Farrar.
American Cyanamid Company, assignee: *See*—
Royer, George L., and Amick.
Stock, Charles R., and Taxwood.
American Electro Metal Corporation, assignee: *See*—
Schwarzkopf, Paul.
American Gas Association, Inc., assignee: *See*—
Weber, Earl J.
American Lecithin Company, assignee: *See*—
Trueger, Edward, and Sprague.
American Machine and Foundry Company, assignee: *See*—
Pedersen, Mathias.
American Optical Company, assignee: *See*—
Bernheim, Daniel P., and Splaine.
American Steel Foundries, assignee: *See*—
Baselt, Walter H.
Lehrman, Leo A.
Amick, Chester A.: *See*—
Royer, George L., and Amick.
Amy, Aceves & King, Inc., assignee: *See*—
Amy, Ernest V., and Aceves.
Amy, Ernest V., and J. G. Aceves, assignors to Amy, Aceves & King, Inc., New York, N. Y. Filter device for antenna systems. 2,422,458; June 17.
Anchor Manufacturing Company, assignee: *See*—
Johansson, Ernest G., and Young.
Anderson, Albert A., Hobart, Ind., assignor to Standard Oil Company, Chicago, Ill. Prevention of corrosion in ferrous metal pipe lines carrying refined petroleum distillates. 2,422,515; June 17.
Anderson, Alf E., Milton, Mass. Electrode holder. 2,422,385; June 17.
Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Slide loop buckle. 2,422,459; June 17.
Anderson, Peter, assignor to Washington Iron Works, Seattle, Wash. Self-righting dump car. 2,422,283; June 17.

Anderson, Warren A., West Brighton, Staten Island, N. Y., assignor to Radio Corporation of America. Frequency measurement. 2,422,386; June 17.
Andresen, Garwood C., Chicago, Ill., and H. Rockey, Denver, Colo., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Bullet trap. 2,422,284; June 17.
Annis, Russell K.: *See*—
Howe, Lewis G., Smith, and Annis.
Anti-Abradants (Proprietary) Limited, assignee: *See*—
Haarhoff, Daniel V.
Armington, Raymond Q., Shaker Heights, assignor to The Euclid Road Machinery Co., Euclid, Ohio. Tandem Axle construction. 2,422,460; June 17.
Armistead, Allan B.: *See*—
Francis, Joseph M., and Armistead.
Armour and Company, assignee: *See*—
Harrington, Bertie S.
Aro Equipment Corporation, The, assignee: *See*—
Hitt, Otis D.
Arquette, Earl E., Milton, Mass. Manufacturing faced building units. 2,422,461; June 17.
Ash, Charles S., Milford, Mich. Dual wheel brake. 2,422,462; June 17.
Attorney General of the United States: *See*—
Auwärter, Max.
Bagnulo, Albert.
Becker, Helmut, and Broschke.
Demeulenaere, Marcel.
Flury, Placido.
Holler, Hermann, and Mues.
John, Walter.
Koehler, Franz.
Martenet, Louis.
Martin, Friedrich, Gottschall, and Velde.
Müller, Oskar, and Kleinschmit.
Petersen, Boerge.
Riepert, Hermann, and Broschke.
Starck, Werner, and Freudenberger.
Steiner, Otto.
Yamamoto, Hideo.
Aubin, Joseph P., assignee, et al.: *See*—
Wiseman, Walter S.
Auer, Laszlo, South Orange, assignor to Ridbo Laboratories, Inc., Paterson, N. J. Varnish and making the same. 2,422,175; June 17.
Automatic Electric Laboratories, Inc., assignee: *See*—
Baker, George T.
McCreary, Harold J.
Auwärter, Max, Hanau-on-the-Main, Germany; vested in the Attorney General of the United States. Production of metallic surface layers. 2,422,609; June 17.
Bagnulo, Albert, Rome, Italy; vested in the Attorney General of the United States. Engine with stratified mixture. 2,422,610; June 17.
Baker, Benjamin P., Turtle Creek, and H. J. Webb, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fluid pressure operated circuit breaker. 2,422,516; June 17.
Baker, Erwin G., Indianapolis, Ind. Gas engine fuel induction means. 2,422,517; June 17.
Baker, George T., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Selector operating circuit for use in automatic telephone systems. 2,422,285; June 17.
Ball, Joseph A., Los Angeles, assignor to M. McGraw, doing business as McGraw Colorgraph Company, Burbank, Calif. Adhesive temporary support. 2,422,387; June 17.
Ballard, Seaver A.: *See*—
William, Paul H., and Ballard.
Balluff, Edwin J., Detroit, Mich., assignor to Eureka Williams Corporation. Handle lock for suction cleaners. 2,422,216; June 17.
Bankson, Severin B., San Francisco, Calif. Necktie knot holder. 2,422,463; June 17.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Molded bracelet. 2,422,518; June 17.
Barker, William M., Greece, assignor to General Railway Signal Company, Rochester, N. Y. Code communication system for railroads. 2,422,519; June 17.
Barnes, Mary F., Honolulu, Hawaii. Knockdown toy house. 2,422,217; June 17.
Bartholomew, Tracy, Pittsburgh, Pa. Method and apparatus for separating liquid from solids by rotatably mounted means. 2,422,464; June 17.
Bartley, Samuel H., Hanover, N. H. Instrument for measuring cutaneous sensitivity. 2,422,520; June 17.
Bartusch, Alexander P., Lockport, N. Y. Bow compass. 2,422,286; June 17.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Pivoted member. 2,422,521; June 17.
Bates, Charles H., Independence, assignor to Wilcox Electric Co., Kansas City, Mo. Collapsible wheelbarrow. 2,422,331; June 17.
Bauer, Irwin O., Cincinnati, Ohio. Golf club bag. 2,422,218; June 17.
Bausch & Lomb Optical Company, assignee: *See*—
Flint, Edward F.
Turner, Arthur F., and Horsfall.
Beardsley & Piper Company, The, assignee: *See*—
Clay, Murray G.
Becker, Helmut, and H. Broschke, Wetzlar, Germany; vested in the Attorney General of the United States. Measuring table. 2,422,611; June 17.
Becker, Stephen P., Poughkeepsie, N. Y. Connector. 2,422,332; June 17.
Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Pulse-echo control system. 2,422,333; June 17.
Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Automatic gain control for pulse-echo systems. 2,422,334; June 17.
Beeck, Otto A.: *See*—
Smith, Albert E., and Beeck.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bryant, Newton W.
Cutler, Cassius C.
Fox, Arthur G.
Meacham, Larned A.
Shann, Oscar A.
Bendix Aviation Corporation, assignee: *See*—
Stuart, Alfred A., Jr.
Westman, Sydney E.
Winchel, Henry T.
Benham, Spence G.: *See*—
Karlson, Charles B., Benham, and Gehle.
Benioff, Hugo, Pasadena, Calif., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Spark gap oscillation generator with radiator. 2,422,176; June 17.
Bernheim, Daniel P., and E. M. Splaine, assignors to American Optical Company, Southbridge, Mass. Variable density goggle. 2,422,287; June 17.
Beveridge, James B., Westmount, Quebec, Canada, and R. D. Kehoe, Hadlyme, Conn., assignors to Paper and Industrial Appliances, Inc., New York, N. Y. Production of pulp from cellulosic material. 2,422,522; June 17.
Bierwirth, Rudolph A.: *See*—
Brown, George H., and Bierwirth.
Biggins, Edward R.: *See*—
O'Brian, Maurice, and Biggins.
Billings, Arthur W., Portland, Maine. Airplane propeller. 2,422,388; June 17.
Biszante, Fred, assignor to The Galion Metallic Vault Company, Galion, Ohio. Closed hydraulic transmission apparatus with compensating means for unequal motor volumes. 2,422,389; June 17.
Blair, Charles M., Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Process for breaking petroleum emulsions. 2,422,177; June 17.
Bland, James R., Eastport, Md., assignor to Keuffel & Esser Company, Hoboken, N. J. Slide rule. 2,422,649; June 17.
Blizard, John, Garden City, assignor to Foster Wheeler Corporation, New York, N. Y. Vapor generator. 2,422,178; June 17.
Bondley, Ralph J., Scotia, N. Y., assignor to General Electric Company. High-frequency magnetron. 2,422,465; June 17.
Borg, George W., Corporation, The, assignee: *See*—
Laing, Gordon F.
Borne, Noah, Fort Wayne, Ind., assignor to Fort Wayne Wire Die Company. Making wire drawing dies. 2,422,612; June 17.
Botten, Henry W., assignor to The Owen Bucket Company, Cleveland, Ohio. Bucket locking means. 2,422,523; June 17.
Bowerston Shale Company, The, assignee: *See*—
Milliken, Edward C.
Boyd, George H., Sr., Washington, D. C. Shirt collar. 2,422,219; June 17.
Boynton, Wentworth D., Woodbrook, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing electrical insulation. 2,422,288; June 17.
Bozek, Maurice, Chicago, Ill. Ice creeper. 2,422,335; June 17.
Braun, Frank, Nobleford, Alberta, Canada. Beet harvesting, topping, trimming, and cleaning machine. 2,422,524; June 17.
Brauner, Pincus, Haverhill, Mass. Shoe press. 2,422,390; June 17.
Brenner, Ray A., assignor to New Castle Products, New Castle, Ind. Fabric anchorage for closures and the like. 2,422,391; June 17.
Brewster, Leslie A., Dayton, Ohio, assignor to the Government of the United States of America, as represented by the Secretary of War. Dust storm resistance testing chamber. 2,422,179; June 17.
Briggs & Stratton Corporation, assignee: *See*—
Thompson, Glenn S.
Bristol Company, The, assignee: *See*—
MacLaren, Fred B., Jr., and Shepard.

Broadbent, John H., Longmeadow, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Antenna positioning control. 2,422,180; June 17.
Brocker, Emil, Van Dyke, assignor to Super Tool Company, Warren Township, Macomb County, Mich. Diamond wheel dresser. 2,422,220; June 17.
Broschke, Heinrich: *See*—
Becker, Helmut, and Broschke.
Riepert, Hermann, and Broschke.
Brown, Donald N., assignor to Corning Glass Works, Corning, N. Y. Sheet glass forming apparatus. 2,422,466; June 17.
Brown, George H., Haddonfield, and R. A. Bierwirth, Haddon Heights, N. J., assignors to Radio Corporation of America. Radio-frequency electric field bonding apparatus. 2,422,525; June 17.
Brown Instrument Company, The, assignee: *See*—
Wannamaker, William H., Jr.
Brown, Leo H., Glenville, Conn. Periscopic bore sight. 2,422,181; June 17.
Brubaker, Merline M., Boothwyn, Pa., J. R. Roland, McDaniel Heights, Del., and M. D. Peterson, Oak Ridge, Tenn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Ethylene-vinyl chloride polymers. 2,422,392; June 17.
Bryant, Frank D., Wethersfield, Conn., assignor to Royal Electric Company, Inc., Pawtucket, R. I. Electric plug. 2,422,393; June 17.
Bryant, Newton W., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Object locating system. 2,422,182; June 17.
Bucyrus-Erie Company, assignee: *See*—
Reischl, Karl E.
Budd Company, The, assignee: *See*—
Dean, Albert G.
Watter, Michael, and Pancoe.
Burch, Lyndon W., Bronxville, N. Y., assignor to The Wilcolator Company, Newark, N. J. Heating system. 2,422,526; June 17.
Burge, John E. P., Coventry, assignor to Humber Limited, Stokes, Coventry, England. Electrical distribution system. 2,422,336; June 17.
Burt, F. N., Company, Inc., assignee: *See*—
Wells, William J.
Calfee, John D.: *See*—
Young, David W., and Calfee.
California Aero Glider Co., Inc., assignee: *See*—
Jensen, Volmer S.
California Flaxseed Products Company, assignee: *See*—
Lasher, Edward A.
California Institute Research Foundation, assignee: *See*—
Welch, David F.
Campbell, James R.: *See*—
Tangeman, William H., and Campbell.
Campbell, Julian A., Long Beach, Calif. Gas separator. 2,422,527; June 17.
Candland, Authnal L., Vista, Calif. Power driven reciprocating cutter. 2,422,221; June 17.
Carboloy Company, Inc., assignee: *See*—
Pollacek, Steven D.
Taylor, George F.
Cardwell, James R.: *See*—
Tucker, Herbert E.
Carey, Philip, Manufacturing Company, The, assignee: *See*—
Esterberg, Gustave L., and MacArthur.
Carroll, Thomas E., New York, N. Y. Electric bipost lamp adaptor. 2,422,222; June 17.
Carroll, William R., Washington, D. C. Tire loosening tool. 2,422,467; June 17.
Carter Carburetor Corporation, assignee: *See*—
Coffey, Irven E.
Carter, Ralph B., Jr., Maywood, assignor to Ralph B. Carter Company, Hackensack, N. J. Digesting sludge arranged at different levels and apparatus therefor. 2,422,394; June 17.
Carter, Ralph B., Company, assignee: *See*—
Carter, Ralph B., Jr.
Casanova, Louis A.: *See*—
Marsh, Francis E., and Casanova.
Cashman, Aloysius F.: *See*—
Lieber, Eugene, and Cashman.
Cass, Oliver W., and H. B. Copelin, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Tetrachlor succinonitrile and producing it. 2,422,528; June 17.
Chambers, Thomas S., Newark, and O. C. Slotterbeck, Rahway, N. J., assignors to Standard Oil Development Company. Electrolytic production of pinacols. 2,422,468; June 17.
Chapman, James F.: *See*—
Lensner, Herbert W., and Chapman.
Chiego, Bernard: *See*—
Plews, William J., and Chiego.
Chilowsky, Constantin, New York, N. Y. Submarine detecting buoy. 2,422,337; June 17.
Christensen, Edwin S., Long Beach, Calif. Pipe end forming machine. 2,422,338; June 17.
Christie, Soren L., Los Angeles, Calif. Tap-changing switch. 2,422,339; June 17.
Church, Walter L., Houston, Tex. Safety joint. 2,422,223; June 17.
Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener stud. 2,422,289; June 17.

Cincinnati Milling Machine Co., The, assignee: *See—*
Hoier, Walter.
Trible, Winthrop.
Clark, Henry T., St. Peterburg, Fla. Vertically reciprocating and intermittently rotating food chopper. 2,422,340; June 17.
Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,422,395; June 17.
Clarke, Thomas F., executor: *See—*
Ingolby, Maurice K., and Abbink-Spaink.
Clay, Murray G., assignor to The Beardsley & Piper Company, Chicago, Ill. Flask filling apparatus. 2,422,290; June 17.
Clement, Carl H., Jr., U. S. Army, Fort Belvoir, Va. Boat construction. 2,422,183; June 17.
Coffey, Irven E., Normandy, assignor to Carter Carburetor Corporation. St. Louis, Mo. Making diaphragms. 2,422,529; June 17.
Cole, Percy W., executor: *See—*
Ingolby, Maurice K., and Abbink-Spaink.
Colgate-Palmolive-Peet Company, assignee: *See—*
Dreger, Emil E., and Ross.
Comyns, William L.: *See—*
Strebe, Frank C., and Comyns.
Connell, John A., Carlsbad, N. Mex. Lock lubricator. 2,422,224; June 17.
Consolidated Car Heating Company, Inc., assignee: *See—*
Parson, Robert J.
Cook, Judson A., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Adjustable inspector plate for dimension gaging and assorting machines. 2,422,291; June 17.
Coomes, Edward A., Cambridge, Mass., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Electron emitting cathode. 2,422,469; June 17.
Copelin, Harry B.: *See—*
Cass, Oliver W., and Copelin.
Corning Glass Works, assignee: *See—*
Brown, Donald N.
Dalton, Robert H.
Guyer, Edwin M.
Ward, John B.
Court, Frank T., assignor to Deere & Company, Moline, Ill. Releasable power-operated tractor and trailing plow connections. 2,422,530; June 17.
Cover, Martin L., Allen Park, Mich., assignor to National Steel Corporation. Swinging spout for sintering machines. 2,422,470; June 17.
Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Solvent extraction. 2,422,341; June 17.
Crowe, John J., Westfield, N. J., assignor to Air Reduction Company, Incorporated. Apparatus for raising the dissociation pressure of acetylene in generators. 2,422,225; June 17.
Curry, Robert S., Jr., Baldwin, J. H. Horman, Tuckahoe, and A. C. Kircher and H. Winsker, Jackson Heights, assignors, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Balanced relay. 2,422,396; June 17.
Curtis, Helene, Industries, Inc., assignee: *See—*
Abernathy, David W.
Frankel, Samuel H.
Nemeth, Otto R.
Curtiss-Wright Corporation, assignee: *See—*
Flader, Fredric E., Lakowitz, and Steele.
Cutler, Cassius C., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directional microwave antenna. 2,422,184; June 17.
Cyr, Benjamin, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Safety mechanism. 2,422,471; June 17.
Dalton, Robert H., assignor to Corning Glass Works, Corning, N. Y. Glass article. 2,422,472; June 17.
Dalton, William, Schenectady, N. Y., assignor to General Electric Company. Freezing tray. 2,422,473; June 17.
Dannehower, Gilbert L., Westfield, and W. B. Heinz, Bound Brook, N. J. Apparatus for cutting bars, tubes, and the like. 2,422,531; June 17.
Davis, Harold G., Brooklyn, N. Y. Calendar stand with memoranda paper supply. 2,422,474; June 17.
Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Engine mount. 2,422,397; June 17.
Dean, Dion K., Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for deodorization of animal oils and vegetable oils. 2,422,185; June 17.
Deere & Company, assignee: *See—*
Court, Frank T.
Deger, Thomas E.: *See—*
Olin, John F., and Deger.
De Havilland Aircraft Company Limited, The, assignee: *See—*
Halford, Frank B.
Dehm, Edward, Klamath Falls, Oreg., assignor to E. Dehm and B. R. Smith, as joint tenants. Bolt-actuated cartridge feeding means for rifles. 2,422,532; June 17.
Delaware Engineering Corporation, assignee: *See—*
Moore, William E.
De Luca, Joseph, Brooklyn, assignor, by mesne assignments, to William R. Warner & Co., Inc., New York, N. Y. Dispensing apparatus. 2,422,226; June 17.

Demeulenaere, Marcel, Brussels, Belgium; vested in the Attorney General of the United States. Register selecting mechanism. 2,422,186; June 17.
Detroit Lubricator Company, assignee: *See—*
Dillman, Earnest J.
Dillman, Earnest J., and Fleury.
De Vlieg, Charles B., Birmingham, Mich., assignor to Vane Wheel Company, Cleveland, Ohio. Method of and machine for grinding. 2,422,475; June 17.
Diaphragm & Chemical Company, assignee: *See—*
Waterbury, Carl C.
Dilks, James J., Jr., Haddon Heights, N. J. Recorder and reproducer for spiral photographic disk sound records. 2,422,398; June 17.
Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Pressure regulated electrical control. 2,422,342; June 17.
Dillman, Earnest J., and J. E. Fleury, assignors to Detroit Lubricator Company, Detroit, Mich. Control device for switches or the like. 2,422,292; June 17.
Dodwell, John M., Shawbridge, Quebec, Canada. Clutch. 2,422,533; June 17.
Dominion Tar & Chemical Company Limited, assignee: *See—*
Sturrock, Murray G., and Lawe.
Doran, John E., assignor to The G. A. Gray Company, Cincinnati, Ohio. Electric control for planers and the like. 2,422,476; June 17.
Douglas Aircraft Company, Inc., assignee: *See—*
Wheelon, Orville A.
Dow Chemical Company, The, assignee: *See—*
Hansen, John N., and Smith.
Dreger, Emil E., Summit, and J. R. Ramsey, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Normal secondary tridecyl sulphates. 2,422,613; June 17.
Driver, Wilbur B., East Orange, assignor to Wilbur B. Driver Company, Newark, N. J. Low-temperature heating element. 2,422,477; June 17.
Driver, Wilbur B., Company, assignee: *See—*
Driver, Wilbur B.
Druck, Maurice, Long Beach, N. Y. Curtain. 2,422,293; June 17.
Du Bois, Joseph E., deceased; V. I. Du Bois, executrix, assignor to V. I. Du Bois, R. C. Sterne, E. Silbert, and F. E. Taylor, Buffalo, and L. T. Holzworth, North Tonawanda, N. Y. Eye shield. 2,422,534; June 17.
Du Bois, Virginia I., executrix: *See—*
Du Bois, Joseph E.
Duer, Morris J., Troy, Ohio. Speed control device. 2,422,343; June 17.
Du Pont, E. I., de Nemours & Company, assignee: *See—*
Allerdice, Joseph M.
Brubaker, Merlin M., Roland, and Peterson.
Cass, Oliver W., and Copelin.
Farlow, Mark W.
Holt, Harold S.
Jacobson, Ralph A.
Klabunde, Walter.
Kvalnes, Hamline M.
Lazier, Wilbur A., Pavlic and Peppel.
Maynard, Carl W., Jr., and Wiest.
Peters, Franklin T.
Pratt, Burt C.
Stryker, Harvey I., and Heuse.
Vaala, Gordon T., and Frank.
Du Pont, Francis G., Utica, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Gun barrel straightness testing apparatus. 2,422,294; June 17.
Eagle Pencil Company, assignee: *See—*
Hanle, Benjamin W.
Easterberg, Gustave L., Pleasant Ridge, and R. A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Manufacture of hydraulic cement products. 2,422,344; June 17.
Easterberg, Gustave L., Pleasant Ridge, and R. A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Manufacture of hydraulic cement products. 2,422,345; June 17.
Eastern Tool & Mfg. Co., assignee: *See—*
Anderson, Carl E.
Eaton, Thomas T., Haddon Heights, N. J., assignor to Radio Corporation of America. Recorder for radio locators. 2,422,295; June 17.
Edgar, Victor R., Rockton, assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill. Brake mechanism. 2,422,187; June 17.
Epstein, Harry T., Brookline, Mass. Method of and apparatus for making tubes of paper and the like. 2,422,188; June 17.
Erickson, John A., Jackson, Mich. Corn shelling and shredding, and separator machine. 2,422,399; June 17.
Euclid Road Machinery Co., The, assignee: *See—*
Armington, Raymond Q.
Eureka Williams Corporation, assignee: *See—*
Balluff, Edwin J.
Exolon Company, The, assignee: *See—*
Amberg, Charles R., and Harrison.
Fansteel Metallurgical Corporation, assignee: *See—*
Fry, Stanley S.

Farlow, Mark W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of n-methylamides. 2,422,400; June 17.
Farnsworth Television and Radio Corporation, assignee: *See—*
Hallmark, Clyde E.
Larson, Chris C.
Farrar, Alvin J.: *See—*
Troche, Herman J., and Farrar.
Farrar, Gerald L., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Isomerization process. 2,422,346; June 17.
Farrel-Birmingham Company, Incorporated, assignee: *See—*
Gordon, William A.
Fawick, Thomas L., Akron, Ohio. Assembly for brakes and clutches. 2,422,227; June 17.
Ferrar, Bernard, Los Angeles, Calif. Combined skate and sandal. 2,422,228; June 17.
Feustel, Ernest A., Hasbrouck Heights, assignor to Ernest A. Feustel, Inc., East Rutherford, N. J. Yarn guide. 2,422,535; June 17.
Feustel, Ernest A., Inc., assignee: *See—*
Feustel, Ernest A.
Fibre Products Laboratories, Inc., assignee: *See—*
Goldman, Maurice A.
Fidelity Machine Company, Inc., assignee: *See—*
Larkin, Walter.
Finnegan, William J., Jacksonville Beach, Fla. Apparatus for treatment of foods by dehydration or refrigeration comprising trucks and a treating enclosure. 2,422,536; June 17.
Fire Apparatus Company, assignee: *See—*
Howe, Lewis G., Smith, and Annis.
Fischer, Eugene H., Derry, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Machine for coating insulators. 2,422,537; June 17.
Fiske, Milan D., Schenectady, N. Y., assignor to General Electric Company. Dielectric wave guide system. 2,422,189; June 17.
Fiske, Milan D., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency coupling device and system. 2,422,190; June 17.
Flader, Fredric E., Kenmore, F. Lakowitz, Tonawanda, and F. Steele, Kenmore, N. Y., assignors to Curtiss-Wright Corporation. Slat and flap control system. 2,422,296; June 17.
Fletcher, Harry H., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Manufacture of chlorinated quinones. 2,422,229; June 17.
Fleury, Andrew J., High River, Alberta, Canada. Hobbyhorse. 2,422,347; June 17.
Fleury, Jack E.: *See—*
Dillman, Earnest J., and Fleury.
Flint, Edward F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Median value device in a sighting instrument. 2,422,348; June 17.
Florence Stove Company, assignee: *See—*
Reeves, Herbert M., and Vixler.
Flury, Placido, Novara, Italy; vested in the Attorney General of the United States. Device for the speed regulation of electric commutator machines. 2,422,614; June 17.
Fort Wayne Wire Die Company, assignee: *See—*
Borne, Noah.
Foster, Jackson W., Rahway, and H. B. Woodruff, Princeton, assignors to Merck & Co., Inc., Rahway, N. J. Production of streptothricin. 2,422,230; June 17.
Foster Wheeler Corporation, assignee: *See—*
Blizard, John.
Dean, Dion K.
Fox, Arthur G., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impedance transformer for wave guides. 2,422,191; June 17.
Frambein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pallet truck. 2,422,538; June 17.
Francis, Joseph M., and A. B. Armistead, Roanoke, Va., assignors to The Union Switch and Signal Company, Swissvale, Pa. Pulse generating receiver for coded carrier signals. 2,422,231; June 17.
Frank, Charles E.: *See—*
Vaala, Gordon T., and Frank.
Frankel, Samuel H., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Pedestal structure. 2,422,297; June 17.
Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Wrapping mechanism. 2,422,232; June 17.
Freis, James H., Chicago, Ill. Collapsible golf bag carrier. 2,422,298; June 17.
Freudenberger, Heinrich: *See—*
Starck, Werner, and Freudenberger.
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of hydrocarbons. 2,422,349; June 17.
Frye, Stanley S., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill. Selenium rectifier disk. 2,422,192; June 17.

Funk, Charles R., Greensburg, Pa. Manufacture of chrome alloy steel from a charge containing chrome scrap. 2,422,299; June 17.
Galion Metallic Vault Company, The, assignee: *See—*
Biszantz, Fred.
Gates Rubber Company, The, assignee: *See—*
Steinke, Theodore W.
Gaugler, Richard S., assignor to General Motors Corporation, Dayton, Ohio. Generator arrangement for absorption refrigerating systems. 2,422,401; June 17.
Gazda, Antoine, Providence, R. I. Humidifier for carburetors. 2,422,402; June 17.
Gearon, Edward: *See—*
Gearon, John A. and E.
Gearon, John A. and E., Chicago, Ill. Signal flare. 2,422,403; June 17.
Gehle, William A.: *See—*
Karlson, Charles B., Benham, and Gehle.
Geiselman, Ralph A., and J. P. Houck, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,422,539; June 17.
Geller, Joseph J., and C. E. Swanson, Chicago, Ill. Cigarette receptacle. 2,422,478; June 17.
General Chemical Company, assignee: *See—*
Otto, Julian A.
General Controls Co., assignee: *See—*
Ray, William A.
General Electric Company, assignee: *See—*
Bondley, Ralph J.
Dalton, William.
Fiske, Milan D.
Louden, Harry L.
Magdsick, Henry H.
Tangeman, William H., and Campbell.
Von Hoorn, Fred G.
Yeandle, Ralph S.
Zabel, William P.
General Motors Corporation, assignee: *See—*
Clark, Kendall.
Gaugler, Richard S.
General Railway Signal Company, assignee: *See—*
Barker, William M.
George, Robert H.: *See—*
Mako, Dave, and George.
Gerbes, Otto, Goose Creek, Tex., assignor to Standard Oil Development Company. Isomerization process. 2,422,233; June 17.
Gerrard Industries Limited, assignee: *See—*
Kamper, Andrew M., and Parkes.
Gleason Works, assignee: *See—*
Wildhaber, Ernest.
Glitsch Engineering Company, assignee: *See—*
Glitsch, Hans C.
Glitsch, Hans C., Dallas, Tex., assignor, by mesne assignments, to Glitsch Engineering Company. Riser for bubble cap trays. 2,422,300; June 17.
Goehle, Earl G., Royal Oak, Mich. Rotary cutting tool. 2,422,404; June 17.
Golaszewski, Walter M., and A. Kaczor, Philadelphia, Pa. Sinker head for full-fashioned knitting machines. 2,422,479; June 17.
Golba, Joseph, Gardner, Kans. Animated illuminated apparatus. 2,422,540; June 17.
Goldman, Maurice A., assignor to Fibre Products Laboratories, Inc., New Brunswick, N. J. Method and apparatus for producing tubular fabric. 2,422,234; June 17.
Gooden, Robert J., North Kansas City, Mo. Milk pail. 2,422,541; June 17.
Goodrich, B. F., Company, The, assignee: *See—*
Hunter, Willison H.
Mathes, Roger A.
Schoenfeld, Frank K.
Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Grommet and eyelet setting apparatus. 2,422,405; June 17.
Gordon, Ronald A., New York, N. Y. Illumination for typewriters. 2,422,406; June 17.
Gordon, William A., Shelton, assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Treating rubber. 2,422,480; June 17.
Gottschall, Wilhelm: *See—*
Martin, Friedrich, Gottschall, and Velde.
Grantham, Frederick W., Glencoe, Ill. Applying heat to ironing machines. 2,422,481; June 17.
Graver Tank & Mfg. Co., Inc., assignee: *See—*
Prager, Frank D.
Ulm, Reign C.
Graves, Eldon F.: *See—*
Knutson, Amos T., and Graves.
Gray, G. A., Company, The, assignee: *See—*
Doran, John E.
Green, Martin, Newark, N. J. Window blind structure. 2,422,407; June 17.
Greenbaum, Martin, assignor of one-half to C. Handler, Newark, N. J. Wrapping die. 2,422,408; June 17.
Greene, Arch C., Carrollton, Ga. Book cover and case. 2,422,235; June 17.
Greenroyd, William H., Carey, Tex. Stalk cutter. 2,422,409; June 17.
Gross, Albert, Brooklyn, N. Y. Removable slipper and shoe lining. 2,422,410; June 17.

Gross, Eshcol S., Long Beach, Calif. Refrigerator port for dispensing container and closure therefor. 2,422,350; June 17.

Gulf Oil Corporation, assignee: *See*—
Smith, Herschel G.

Gustafsson, Gotthard V. A., Akeshov, Sweden. Electrical alarm system. 2,422,542; June 17.

Guthrie, James E., assignor to Dr. Hess & Clark, Inc., Ashland, Ohio. Taeniacidal mixture. 2,422,411; June 17.

Guyer, Edwin M., assignor to Corning Glass Works, Corning, N. Y. Apparatus for fire-polishing glass articles. 2,422,482; June 17.

H S B Corporation, assignee: *See*—
Razek, Joseph.

Haarhoff, Daniel V., Alberton, Transvaal, assignor to Anti-Abradants (Proprietary) Limited, Johannesburg, Transvaal, Union of South Africa. Protection of pump surfaces. 2,422,412; June 17.

Hague, Floyd T., Drexel Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Making cast turbine blading. 2,422,193; June 17.

Hake, Elmer C., Covington, Ky., assignor, by mesne assignments, to Spray-Omatic Products Company, Cincinnati, Ohio. Ticket applying machine. 2,422,543; June 17.

Halford, Frank B., assignor to The De Havilland Aircraft Company Limited, Edgware, England. Rotary compressor. 2,422,615; June 17.

Hallmark, Clyde E., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Television synchronizing signal generator. 2,422,236; June 17.

Handler, Charles, assignee: *See*—
Greenbaum, Martin.

Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company. Fountain pen. 2,422,351; June 17.

Hanlon, Oris G., Massillon, Ohio. Marble making machine. 2,422,413; June 17.

Hansen, Harold, and L. Seefeldt, assignors to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Pressure control valve. 2,422,237; June 17.

Hansen, John N., Albert Lea, Minn., and F. B. Smith, Midland, assignors to The Dow Chemical Company, Midland, Mich. N-(2-hydroxy-ethyl)-ethylenediamine disalt of 2.6-dinitro-4-cyclohexyl-phenol. 2,422,544; June 17.

Hanson, Veb, Fairfield, Conn., assignor of two-thirds to J. N. Ledbetter, Jr., New York, N. Y. Regulating means for washing machine agitators. 2,422,545; June 17.

Hansson, Bror, Stockholm, and T. Ljungberg, Alvsjo, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Leading-through insulator. 2,422,546; June 17.

Harmon, Herbert H., Rochester, N. Y. Internal-combustion engine. 2,422,238; June 17.

Harper, Elmer E., deceased, Monrovia, Calif.; E. B. Harper, executrix. Control means for automatic regulating mechanism. 2,422,352; June 17.

Harper, Esther B., executrix: *See*—
Harper, Elmer E.

Harrington, Bertie S., assignor to Armour and Company, Chicago, Ill. Method and apparatus for collection and treatment of blood. 2,422,194; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Synthesis of vitamin B_6. 2,422,195; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_6 intermediates and preparing the same. 2,422,616; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_6 intermediates. 2,422,617; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_6 intermediates. 2,422,618; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_6 intermediates. 2,422,619; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_6 intermediates. 2,422,620; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_6 intermediates. 2,422,621; June 17.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Synthesis of vitamin B_6. 2,422,622; June 17.

Harrison, Harold C.: *See*—
Amberg, Charles R., and Harrison.

Hastings Manufacturing Company, assignee: *See*—
Melrose, Adolph E.

Haushalter, Fred L., Akron, Ohio. Endless track construction. 2,422,483; June 17.

Hawkins, Floyd L., and W. D. Phillips, Birmingham, Ala. Burgler bar. 2,422,547; June 17.

Hazewinkel, Reurt C., Zuilen-Utrecht, Netherlands. Apparatus for bending and driving in staples. 2,422,641; June 17.

Hebard, Hugh C., Northwood, England. Detonating mechanism. 2,422,548; June 17.

Heintz Manufacturing Company, assignee: *See*—
Trautvetter, George.

Heinz, Winfield B.: *See*—
Dannehower, Gilbert L., and Heinz.

Hemphill Company, assignee: *See*—
Fregeolle, Oscar.
St. Pierre, Eugene.

Herbst, Walter A., Union, N. J., assignor to Standard Oil Development Company. Stabilized xylidine. 2,422,484; June 17.

Hero Mfg. Co., Inc., assignee: *See*—
Lobl, Otto.

Hess, Dr., & Clark, Inc., assignee: *See*—
Guthrie, James E.

Heuse, Ralph O.: *See*—
Stryker, Harvey I., and Heuse.

Heyer, Don, Los Angeles, Calif. Unitary variable ratio mechanism. 2,422,196; June 17.

Hickok Manufacturing Company, Inc., assignee: *See*—
Miller, Edward F.

Hill, Ralph M., Mountainside, N. J., assignor to Standard Oil Development Company Production of xylidine and toluene. 2,422,485; June 17.

Hirestra Laboratories, Inc., assignee: *See*—
Rheinstrom, Robert I.

Hitt, Otis D., assignor to The Aro Equipment Corporation, Bryan, Ohio. Swinging hose guide. 2,422,353; June 17.

Hlavin, William S.: *See*—
Sigmund, Frank J., and Hlavin.

Hogin, Philip E., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembling tool. 2,422,549; June 17.

Hoier, Walter, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Index milling machine. 2,422,414; June 17.

Holbrook, John K., assignor to Holbrook Microfilming Service Inc., New York, N. Y. Document copying camera. 2,422,354; June 17.

Holbrook Microfilming Service Inc., assignee: *See*—
Holbrook, John K.

Holler, Hermann, Frankfort-on-the-Maine, and O. Mues, Georgsmarienhutte, near Osnabruck, Germany; vested in the Attorney General of the United States. Generation of acetylene from calcium carbide and water. 2,422,623; June 17.

Holt, Harold S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fuel container. 2,422,239; June 17.

Holzworth, Lauriene T., assignee, et al.: *See*—
Du Bois, Joseph E.

Horan, Timothy F., New Haven, Conn. Cartridge feeding mechanism for repeating firearms. 2,422,301; June 17.

Horman, John H.: *See*—
Curry, Robert S., Jr., Horman, Kircher, and Winsker.

Horn, Bernard, Chicago, Ill. Artificial limb construction. 2,422,302; June 17.

Hornbeck, Frank E., Forest City, Pa. Pen and pencil retainer. 2,422,642; June 17.

Horsfall, Robert B., Jr.: *See*—
Turner, Arthur F., and Horsfall.

Hotstream Heater Company, The, assignee: *See*—
Morrow, Clarence H.

Houck, James P.: *See*—
Geiselman, Ralph A., and Houck.

Howe, Lewis G., and E. P. Smith, Anderson, Ind., and R. K. Annis, Columbus, Ohio; said Howe and said Smith assignors to Howe Fire Apparatus Company, Anderson, Ind. Centrifugal pump. 2,422,415; June 17.

Humber Limited, assignee: *See*—
Burge, John E. P.

Humphrey, Harvey J., Cleveland, Ohio. Safety brake for roller coasters. 2,422,416; June 17.

Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflation apparatus for ice removing mechanism. 2,422,624; June 17.

Hutchinson, Volney A., assignor to Teletype Corporation, Chicago, Ill. Induction heating apparatus with rotatable work conveyor. 2,422,417; June 17.

Hutto, Marsden C., assignor to Vinco Corporation, Detroit, Mich. Honing method and apparatus. 2,422,418; June 17.

Imperial Chemical Industries Limited, assignee: *See*—
Walmesley, Robert A.

Industrial Patents Corporation, assignee: *See*—
Young, Harland H.

Ingoldby, Maurice K., deceased, Tynemouth, by T. F. Clarke, Swanley, and P. W. Cole, Purley, executors, and J. H. Abbink-Spaink, Jesmond, Newcastle-on-Tyne 2, assignors to Vickers-Armstrongs Limited, London, England. Fire control or like apparatus for similar purposes. 2,422,197; June 17.

International Nickel Company, The, assignee: *See*—
Kihlgren, Theodore E., and Lacy.

Ipatieff, Vladimir N.: *See*—
Pines, Herman, Ipatieff, and Olberg.

Jackes, Herman D., Bloomfield, N. J., assignor to Wright Aeronautical Corporation. Electrical ratio indicating instrument. 2,422,240; June 17.

Jacob, Frederick N., and M. J. Kirk, assignors to The Mantle Lamp Company of America, Chicago, Ill. Hollow magnetic shell assembly. 2,422,303; June 17.

Jacobson, Ralph A., Landenburg, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of vinyl compounds with rubber. 2,422,550; June 17.

Jakob, John P., Roselle, N. J., assignor to American Can Company, New York, N. Y. Conveyer for fish canning machines. 2,422,198; June 17.

Jenks, Harold C., Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,422,551; June 17.

Jensen, Volmer S., Glendale, Calif., assignor to California Aero Glider Co., Inc. Preflight pilot training aircraft apparatus. 2,422,552; June 17.

Johansson, Ernest G., Belmont, Mass., and A. A. Young, Manchester, N. H., assignors to Anchor Manufacturing Company, Boston, Mass. Switch box mounting. 2,422,553; June 17.

John, Walter, Gottingen, Germany; vested in the Attorney General of the United States. Process for the production of chromanes. 2,422,625; June 17.

Johnson, Clarence V., Yates Center, Kans. Foldable baby car. 2,422,241; June 17.

Johnson, Frank E., Malden, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener and installation therefor. 2,422,304; June 17.

Johnson, Joseph E., Islington, Mass. Necktie. 2,422,419; June 17.

Johnson, Victor S., assignee: *See*—
White, Sidney Y.

Johnston, Norman F., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Emulsifying and whipping agents. 2,422,486; June 17.

Jones, Edwin C.: *See*—
Main-Smith, John D., and Jones.

Jones, Maurice F., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Current collector. 2,422,554; June 17.

Judd, Charles H., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Closure device. 2,422,420; June 17.

Kaczor, Anthony: *See*—
Golaszewski, Walter M., and Kaczor.

Kamper, Andrew M., and S. Parkes, assignors to Gerrard Industries Limited, Brentford, England. Strapping machine. 2,422,643; June 17.

Karlson, Charles B., Westport, Conn., S. G. Benham, Brooklyn, N. Y., and W. A. Gehle, Arlington, N. J.; said Karlson and said Benham assignors to said Gehle. Drum-shaped oil separator divided by partitions into inlet, intermediate, and outlet section. 2,422,555; June 17.

Kaufman, Hyman M., Amesbury, Mass. Slide rule. 2,422,421; June 17.

Kaufman, Morton, Brooklyn, N. Y., assignor to Wright Aeronautical Corporation. Electroplating fixture. 2,422,242; June 17.

Kehoe, Richard D.: *See*—
Beveridge, James B., and Kehoe.

Keim, Melville, Chicago, Ill. Evaporator. 2,422,487; June 17.

Kenrick, Marie A., South Yarmouth, Mass. Baffle attachment for a heating coil surrounding a combustion tube burner. 2,422,488; June 17.

Keuffel & Esser Company, assignee: *See*—
Bland, James R.

Keystone View Company, assignee: *See*—
Alexander, Harry S.

Kihlgren, Theodore E., Scotch Plains, and C. E. Lacy, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Welding electrodes. 2,422,489; June 17.

Kimberlin, Charles N., Jr.: *See*—
Pierce, Jerry A., and Kimberlin.

Kircher, August C.: *See*—
Curry, Robert S., Jr., Horman, Kircher, and Winsker.

Kirk, Martin J.: *See*—
Jacob, Frederick N., and Kirk.

Klabunde, Walter, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent for degreasing iron and aluminum. 2,422,556; June 17.

Kleinschmit, Oskar: *See*—
Müller, Oskar, and Kleinschmit.

Knapp, George N., Pine Lawn, Mo. Automatic railroad car coupler. 2,422,355; June 17.

Knutson, Amos T., and E. F. Graves, Midland, Mich., assignors to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricating composition. 2,422,243; June 17.

Kohlolke, Adolf M., Gilderoy, Victoria, Australia. Seasoning timber. 2,422,557; June 17.

Koci, Ludvik J., Chicago, Ill., assignor to Sunbeam Corporation. Temperature responsive control mechanism. 2,422,199; June 17.

Koehler, Franz, Leuna, Germany; vested in the Attorney General of the United States. Recovery of nitrogen and oxygen. 2,422,626; June 17.

Kopec, Walter, assignor to Republic Steel Corporation, Cleveland, Ohio. Progressively welding axially moving tubing. 2,422,305; June 17.

Korff, Walter H., Burbank, Calif. Adjustable pitch propeller. 2,422,558; June 17.

Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Reactance tube controlled generator. 2,422,422; June 17.

Kovacic, Vincent: *See*—
Manderscheid, James J., Ratkovich, and Kovacic.

Kvalnes, Hamline M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of paper. 2,422,423; June 17.

Lacy, Charles E.: *See*—
Kihlgren, Theodore E., and Lacy.

Laing, Gordon F., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Variable speed mechanism. 2,422,306; June 17.

Lakowitz, Frank: *See*—
Flader, Fredric E., Lakowitz, and Steele.

Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Wide range variable frequency generator. 2,422,424; June 17.

Lane, Albert E., Wenonah, N. J., assignor to Radio Corporation of America. Tuning magnetostrictive elements. 2,422,425; June 17.

Lankelma, Herman P.: *See*—
Musselman, John M., and Lankelma.

Larkin, Walter, Norristown, assignor, by mesne assignments, to Fidelty Machine Company, Inc., Philadelphia, Pa. Electronically controlled knitting machine. 2,422,568; June 17.

Larson, Chris C., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Dissector tube. 2,422,244; June 17.

Lasher, Edward A., assignor to California Flaxseed Products Company, Los Angeles, Calif. Resinous interesterification product made with hydroxylated fatty oil. 2,422,456; June 17.

Lanretti, Goldie F., Carlisle, Pa. Golf club cover. 2,422,356; June 17.

Lawe, Thomas: *See*—
Sturrock, Murray G., and Lawe.

Lazier, Wilbur A., Wilmington, A. A. Pavlic, Claymont, and W. J. Peppel, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Carboxylic acids vicinally substituted with two mercapto groups. 2,422,246; June 17.

Lear, Incorporated, assignee: *See*—
Summers, Thomas O., Jr.

Ledbetter, John N., Jr., assignee: *See*—
Hanson, Veb.

Lee, William M., Kaneohe, Hawaii. Machine for making grommets. 2,422,200; June 17.

Leeds, Winthrop M., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,422,569; June 17.

Lehrman, Leo A., assignor to American Steel Foundries, Chicago, Ill. Truck. 2,422,201; June 17.

Lensner, Herbert W., East Orange, and J. F. Chapman, Madison, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Carrier current protective system. 2,422,570; June 17.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Feed speed control means for hydraulically operated machine tools. 2,422,357; June 17.

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Rooter. 2,422,490; June 17.

Levy, Sylvan N. and W. B., Wilmington, Del. Furnace wall construction. 2,422,571; June 17.

Levy, William B.: *See*—
Levy, Sylvan N. and W. B.

Lieber, Eugene, Staten Island, N. Y., and A. F. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company. Lubricants, etc., containing waxy hydrocarbons and a ketone-aromatic condensation product as wax modifier. 2,422,247; June 17.

Lilienfeld, Antonie, administratrix: *See*—
Lilienfeld, Leon.

Lilienfeld, Leon, deceased, Vienna, Germany, by A. Lilienfeld, Winchester, administratrix, assignor to Lilienfeld Patents, Inc., Boston, Mass. Dressing fibrous and textile materials. 2,422,572; June 17.

Lilienfeld, Leon, deceased, Vienna, Germany, by A. Lilienfeld, Winchester, administratrix, assignor to Lilienfeld Patents, Inc., Boston, Mass. Xanthated cellulose derivative and process of coating with same. 2,422,573; June 17.

Lilienfeld Patents, Inc., assignee: *See*—
Lilienfeld, Leon.

Linde Air Products Company, The, assignee: *See*—
O'Brian, Maurice, and Biggins.

Ljungberg, Ture: *See*—
Hansson, Bror, and Ljungberg.

Lobl, Otto, assignor to Hero Mfg. Co., Inc., Middleboro, Mass. Yarn bobbin. 2,422,358; June 17.

Lombardo, Frank, Kansas City, Mo. Automatic bag sewing machine. 2,422,426; June 17.

Lorber, Charles, Louisville, Ky. Self-quiz device. 2,422,491; June 17.

Lord, Francis L., Bloomfield, assignor to Titelox Manufacturing Company, Montclair, N. J. Sealing device. 2,422,248; June 17.

Losee, Eugene, Hebron, Ill., assignor to Losee Products Co. Displacement-type electric water heater. 2,422,492; June 17.

Losee Products Co., assignee: *See*—
Losee, Eugene W.

Londen, Harry L., Cleveland, Ohio, assignor to General Electric Company. Electronic discharge device. 2,422,427; June 17.

Lubri-Zol Corporation, The, assignee: *See*—
Knutson, Amos T., and Graves.

MacArthur, Roger A.: *See*—
Easterberg, Gustave L., and MacArthur.

MacLaren, Fred B., Jr., U. S. Army, and F. H. Shepard, Jr., Madison, N. J., assignors to The Bristol Company, Waterbury, Conn. Conductance-responsive electron tube system. 2,422,574 ; June 17.
Magdsick, Henry H., East Cleveland, Ohio, assignor to General Electric Company. Multiflash lamp. 2,422,428 ; June 17.
Main-Smith, John D., and E. C. Jones, Farnborough, England. Matt black paint composition. 2,422,429 ; June 17.
Mako, Dave, Catonsville, and R. H. George, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multiple processing frame. 2,422,307 ; June 17.
Malluk, Assad M., New York, N. Y. Footwear with water-resistant slide-fastener closure. 2,422,249 ; June 17.
Manderscheid Co., The, assignee : *See—*
Manderscheid, James J., Ratkovich, and Kovacic.
Manderscheid, James J., J. Ratkovich, and V. Kovacic, assignors to The Manderscheid Co., Chicago, Ill. Work holder for polishing machines. 2,422,430 ; June 17.
Mantle Lamp Company of America, The, assignee : *See—*
Jacob, Frederick N., and Kirk.
Marsh, Francis E., and L. A. Casanova, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device. 2,422,575 ; June 17.
Martenet, Louis, Neuchatel, Switzerland ; vested in the Attorney General of the United States. Apparatus for detecting defects in electrical systems. 2,422,644 ; June 17.
Martin, Friedrich, Mulheim-Ruhr, and W. Gottschall and H. Velde, Oberhausen-Holten, Germany ; vested in the Attorney General of the United States. Refining hydrocarbon mixtures. 2,422,627 ; June 17.
Martin, James, Higher Denham, near Uxbridge, England. Mechanism for retracting and automatically locking undercarriages of aircraft. 2,422,576 ; June 17.
Martin, James, Higher Denham, near Uxbridge, England. Retractable undercarriage for aircraft. 2,422,577 ; June 17.
Masbruch, Henry, Platteville, Wis. Halter. 2,422,308 ; June 17.
Masonite Corporation, assignee : *See—*
Spence, Oswald.
Mathes, Roger A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reaction product of alkyleneimine with ammonium dithiocarbamate. 2,422,578 ; June 17.
May, John F., Erie, Pa. Garment hanger. 2,422,493 ; June 17.
Maynard, Carl W., Jr., and E. G. Wiest, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Diazoamino compounds. 2,422,359 ; June 22.
McBride, John W., Burbank, Calif. Stringed instrument. 2,422,360 ; June 17.
McCarthy, Henry J., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Glass to metal seal. 2,422,628 ; June 17.
McClellan, Cyril E., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reflector for electromagnetic radiation. 2,422,579 ; June 17.
McClure, Robert W., San Diego, Calif. Chisel. 2,422,202 ; June 17.
McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Distortion correcting impulse repeater. 2,422,309 ; June 17.
McGraw Colorgraph Company, assignee : *See—*
Ball, Joseph A.
McGraw, Max, assignee : *See—*
Ball, Joseph A.
McNeill, Harry L., Denver, Colo. Specific gravity separation of solids in liquid suspension. 2,422,203 ; June 17.
Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Range indicator. 2,422,204 ; June 17.
Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Range indicator. 2,422,205 ; June 17.
Meier, Julian C., Detroit, Mich. Electrical appliance for making coffee. 2,422,580 ; June 17.
Melrose, Adolph E., assignor to Hastings Manufacturing Company, Hastings, Mich. Making piston rings. 2,422,431 ; June 17.
Merck & Co., Inc., assignee : *See—*
Foster, Jackson W., and Woodruff.
Harris, Stanton A.
Stiller, Eric T.
Meyer, Charles A., Drexel Hill, and A. H. Redding, Swarthmore, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fuel injector mounting for combustion chambers. 2,422,214 ; June 17.
Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Compounded lubricating oil. 2,422,276 ; June 17.
Miller, Edward F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Combined wallet and card case. 2,422,432 ; June 17.
Miller, Jules, Atlantic City, N. J. Polishing instrument for metal musical strings. 2,422,581 ; June 17.
Miller, William A., Port Jefferson Station, N. Y., assignor to Radio Corporation of America. Electronic indicator system. 2,422,361 ; June 17.
Milliken, Edward C., assignor to The Bowerston Shale Company, Bowerston, Ohio. Spacer collar and pipe. 2,422,582 ; June 17.
Mining Engineering Company Limited, The, assignee : *See—*
Moore, Matthew S.
Minneapolis-Honeywell Regulator Company, assignee : *See—*
Cyr, Benjamin.
Minnesota Mining & Manufacturing Company, assignee : *See—*
Phillippi, Matthew H.
Monsanto Chemical Company, assignee : *See—*
Thomas, Charles A.
Moore, Matthew S., Malvern, assignor of one-half to The Mining Engineering Company Limited, Worcester, England. Mining machine. 2,422,645 ; June 17.
Moore, Walter G., Liverpool, England. Quick release hook. 2,422,363 ; June 17.
Moore, William E., assignor to Delaware Engineering Corporation, Pittsburgh, Pa. Furnace electrode regulator. 2,422,362 ; June 17.
Morein, David, New York, N. Y. Welt shoe. 2,422,494 ; June 17.
Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Electric piston. 2,422,495 ; June 17.
Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Control device for draft regulators. 2,422,496 ; June 17.
Morse, Normand W., Chicago, Ill. Pressure booster for a lubricating system. 2,422,250 ; June 17.
Mount Hope Machinery Company, assignee : *See—*
Robertson, John D.
Mues, Otto : *See—*
Holler, Hermann, and Mues.
Müller, Oskar, and O. Kleinschmit, Leipzig, Germany ; vested in the Attorney General of the United States. Paper sheet handling method and mechanism. 2,422,629 ; June 17.
Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Electronic device. 2,422,583 ; June 17.
Musselman, John M., South Euclid, assignor to The Standard Oil Company, Cleveland, Ohio. Preparing composition of matter suitable for use as a lubricant and as an addition agent to lubricants. 2,422,206 ; June 17.
Musselman, John M., South Euclid, and H. P. Lankelma, Shaker Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Preparation of lubricants. 2,422,630 ; June 17.
Nalpantian, Rebecca, San Francisco, Calif. Manicuring implement. 2,422,207 ; June 17.
National Brass Company, assignee : *See—*
Quigley, Herbert.
National Cash Register Company, The, assignee : *See—*
Mumma, Robert E.
National Steel Corporation, assignee : *See—*
Cover, Martin L.
Waltman, Edwin G.
National Supply Company, The, assignee : *See—*
Young, Forrest J.
Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Film shoe. 2,422,310 ; June 17.
Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Adjustable hair drier. 2,422,311 ; June 17.
New Castle Products, assignee : *See—*
Brenner, Ray A.
Nichols, Harry J., New York, N. Y. Projectile. 2,422,559 ; June 17.
Noyes, Stanley E., Los Angeles, Calif. Dental impression composition. 2,422,497 ; June 17.
O'Brian, Maurice, St. Louis, Mo., and E. R. Biggins, Indianapolis, Ind., assignors, by mesne assignments, to The Linde Air Products Company. Storage of acetylene. 2,422,251 ; June 17.
Olberg, Ralph C. : *See—*
Pines, Herman, Ipatieff, and Olberg.
Olin, John F., and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of aliphatic amines and acid amides. 2,422,631 ; June 17.
Olin, John F., and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of aliphatic amines and acid amides. 2,422,632 ; June 17.
Orland, Louis, Los Angeles, Calif. Adjustably mounted motor. 2,422,433 ; June 17.
Osborn, Alden E., Mount Vernon, N. Y. Internal combustion engine. 2,422,364 ; June 17.
Osborn, Jesse C., St. Louis, Mo., assignor to Penn Electric Switch Co., Goshen, Ind. Compensated power element. 2,422,365 ; June 17.
Otto, Julian A., Long Island City, assignor to General Chemical Company, New York, N. Y. Transposition of dichlorobutenes. 2,422,252 ; June 17.
Owen Bucket Company, The, assignee : *See—*
Botten, Henry W.

Palmer, Robert T., Sharon, assignor to B. F. Sturtevant Company, Boston, Mass. Cold air and recirculated air mixing and distributing means in an overhead air conditioning duct system. 2,422,560 ; June 17.
Palotsee, John J., Youngstown, Ohio. Blade. 2,422,434 ; June 17.
Pancoe, George W. : *See—*
Wätter, Michael, and Pancoe.
Paper and Industrial Appliances, Inc., assignee : *See—*
Beveridge, James B., and Kehoe.
Parkes, Stanley : *See—*
Kamper, Andrew M., and Parkes.
Parsons, Robert J., Schenectady, assignor to Consolidated Car Heating Company, Inc., Albany, N. Y. Damper control. 2,422,312 ; June 17.
Pavitt, Harry A., assignor to Simonds Saw and Steel Co., Fitchburg, Mass. Saw blade. 2,422,561 ; June 17.
Pavlic, Albert A. : *See—*
Lazier, Wilbur A., Pavlic, and Peppel.
Pedersen, Mathias, Brooklyn, N. Y., assignor to American Machine and Foundry Company. Sewing mechanism. 2,422,208 ; June 17.
Peek, Henry L., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,422,562 ; June 17.
Pegg, Edward H. R., Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vehicle air conditioning. 2,422,563 ; June 17.
Pegg, Edward H. R., Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical dust-precipitator. 2,422,564 [illegible] 17.
Penn Electric Switch Co., assignee :
Osborn, Jesse C.
Pennington, Gordon R., Bloomfield [illegible], Mich. Automatic radio program selector. 2,422,253 ; June 17.
Peppel, William J. : *See—*
Lazier, Wilbur A., Pavlic, and Peppel.
Perlman, Samuel D., Washington, D. C. Lubricant purifying apparatus and indicator. 2,422,498 ; June 17.
Peronti, Anthony, Chicago, Ill. Baby carriage. 2,422,254 ; June 17.
Peters, Franklin T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Rinse compositions. 2,422,255 ; June 17.
Petersen, Boerge, Juelsminde, Denmark ; vested in the Attorney General of the United States. Dispersions. 2,422,633 ; June 17.
Peterson, Merlin D. : *See—*
Brubaker, Merlin M., Roland, and Peterson.
Petrolite Corporation, Ltd., assignee : *See—*
Blair, Charles M., Jr.
Phillippi, Matthew H., assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Flexible reflex reflecting film. 2,422,256 ; June 17.
Phillips Petroleum Company, assignee : *See—*
Crouch, Willie W.
Frey, Frederick E.
Phillips, William D. : *See—*
Hawkins, Floyd L., and Phillips.
Pierce, Jerry A., and C. N. Kimberlin, Jr., Baton Rouge, La., assignors to Standard Oil Development Company. Alumina gel. 2,422,499 ; June 17.
Pines, Herman, and V. N. Ipatieff, Riverside, and R. C. Olberg, Evanston, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of cyclohexene oxides. 2,422,435 ; June 17.
Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Resilient metal wheel. 2,422,366 ; June 17.
Plaud, Eugene J., New Bedford, Mass. Key case. 2,422,436 ; June 17.
Plebanski, Jozef, Warsaw, Poland, assignor to Radio Patents Corporation. Electronic reactance circuits. 2,422,257 ; June 17.
Plews, William J., Chicago, Ill., and B. Chiego, Newark, N. J. Preparing paste for electric storage battery plates. 2,422,437 ; June 17.
Poliacek, Steven D., assignor to Carboloy Company, Inc., Detroit, Mich. Method of making mandrels. 2,422,500 ; June 17.
Powell, Winfred T., assignor to Stromberg-Carlson Company, Rochester, N. Y. Intercommunicating telephone system. 2,422,565 ; June 17.
Prager, Frank D., Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc. Liquid treatment with auxiliary flow of liquid to suspend and preserve a sludge blanket. 2,422,258 ; June 17.
Pratt, Burt C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Drying oil-polyvinyl acetal compositions. 2,422,259 ; June 17.
Press Wireless, Inc., assignee : *See—*
Rustad, Arthur C.
Proell, Wayne A., assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon fuels. 2,422,566 ; June 17.
Puchlowski, Konstanty P., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic control for motors. 2,422,567 ; June 17.
Quigley, Herbert, assignor to National Brass Company, Grand Rapids, Mich. Mortising gauge. 2,422,367 ; June 17.
Radio Condenser Company, assignee : *See—*
Weiss, Melvin V.
Radio Corporation of America, assignee : *See—*
Anderson, Warren A.
Bedford, Alda V.
Brown, George H., and Bierwirth.
Eaton, Thomas T.
Korman, Nathaniel I.
Miller, William A.
Landon, Vernon D.
Lane, Albert E.
Usselman, George L.
Radio Patents Corporation, assignee : *See—*
Plebanski, Jozef.
Ratkovich, John : *See—*
Manderscheid, James J., Ratkovich, and Kovacic.
Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Electromagnetic operator. 2,422,260 ; June 17.
Ray, William A., Glendale, Calif., assignor to General Controls Co. Electromagnetic reset valve. 2,422,368 ; June 17.
Razek, Joseph, Llanerch, Pa., assignor, by mesne assignments, to H S B Corporation. Telemetering system. 2,422,313 ; June 17.
Redding, Arnold H. : *See—*
Meyer, Charles A., and Redding.
Reeves, Herbert M., and L. F. Vixler, Kankakee, Ill., assignors to Florence Stove Company, Gardner, Mass. Oil burner. 2,422,209 ; June 17.
Reeves Pulley Company, assignee : *See—*
Troemel, Walter H.
Reischl, Karl E., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Leveling device for cable-tool drills. 2,422,210 ; June 17.
Remington Arms Company, Inc., assignee : *See—*
Andresen, Garwood C., and Rockey.
Cook, Judson A.
Dupont, Francis G.
Republic Steel Corporation, assignee : *See—*
Kopec, Walter.
Reynolds, John P., Albuquerque, N. Mex. Hotbox signal. 2,422,211 ; June 17.
Rheinstrom, Robert I., New York, N. Y., assignor to Hirestra Laboratories, Inc. Combination bottle and booklet package. 2,422,314 ; June 17.
Richards, Charles, Quincy, Mass. Plate holder. 2,422,261 ; June 17.
Richards, Ralph N., Marion, Ind. Shipping box for chicks and the like. 2,422,438 ; June 17.
Rickard, Glenn, Jr., Flint, Mich. Counting device. 2,422,584 ; June 17.
Ridbo Laboratories, Inc., assignee : *See—*
Auer, Laszlo.
Riepert, Hermann, and H. Broschke, Wetzlar, Germany ; vested in the Attorney General of the United States. Microhardness testing instrument. 2,422,634 ; June 17.
Robertson, John D., assignor to Mount Hope Machinery Company, Taunton, Mass. Cloth guider. 2,422,369 ; June 17.
Robinson, Albert P., Seattle, Wash. Supporting frame for twin golf bags. 2,422,315 ; June 17.
Rockey, Harry : *See—*
Andresen, Garwood C., and Rockey.
Roetheli, Bruno E., Cranford, N. J., assignor to Standard Oil Development Company. Apparatus for carrying out chemical reactions in the presence of finely-divided powder. 2,422,501 ; June 17.
Rogers, Dilworth T. : *See—*
Winning, Carl, and Rogers.
Rogers, Thomas H., R. W. Watson, and J. W. Starrett, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,422,585 ; June 17.
Roland, John R. : *See—*
Brubaker, Merlin M., Roland, and Peterson.
Ross, John : *See—*
Dreger, Emil E., and Ross.
Royal Electric Company, Inc., assignee : *See—*
Bryant, Frank D.
Royer, George L., North Plainfield, and C. A. Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Dyeing nitrogenous fibers with pre-metallized dyes and aldehydes. 2,422,586 ; June 17.
Ruben, Samuel, assignee : *See—*
Williams, Fred D., Jr.
Russell, Barrett B., 3rd., Elizabeth, N. J., assignor to Standard Oil Development Company. Apparatus for contacting solid particles with gaseous fluids. 2,422,262 ; June 17.
Rustad, Arthur C., Floral Park, assignor to Press Wireless, Inc., New York, N. Y. Facsimile scanning and control system. 2,422,587 ; June 17.
St. Pierre, Eugene, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Yarn take-up. 2,422,599 ; June 17.
Samisch, Zdenka, Rehoboth, Palestine. Manufacture of dried citrus fruit paste. 2,422,588 ; June 17.
Samzelius, John W., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reinforced contact clip. 2,422,589 ; June 17.
Schara, Earl M., Washington, D. C. Tiltable trap chamber powder dispensing device. 2,422,263 ; June 17.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake control system. 2,422,370; June 17.

Schoenfeld, Frank K., Silver Lake, Ohio, assignor, to The B. F. Goodrich Company, New York, N. Y. Rubberlike butadiene copolymers. 2,422,371; June 17.

Schrader, Leo W., Elizabeth, N. J., assignor to Standard Oil Development Company. Expansion joint. 2,422,502; June 17.

Schumb, Walter C., Milton, and A. J. Stevens, Holliston, Mass., assignors, by mesne assignments, to United States of America, as represented by the Director, Office of Scientific Research and Development. Production of fluorine. 2,422,590; June 17.

Schwarzkopf, Paul, assignor to American Electro Metal Corporation, Yonkers, N. Y. Manufacturing composite structural materials. 2,422,439; June 17.

Scientific Research and Development, United States of America, as represented by the Director, Office of, assignee: *See*—
Schumb, Walter C., and Stevens.

Seaman, Robert V., Denver, Colo. Differential ionic analyzer. 2,422,264; June 17.

Seefeldt, Lawrence: *See*—
Hansen, Harold, and Seefeldt.

Severance, Spencer W., assignor to S. Switlik, Trenton, N. J. Parachute and elastic suspension line. 2,422,440; June 17.

Shann, Oscar A., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Adjustable step-by-step motor. 2,422,212; June 17.

Sharples Chemicals Inc., assignee: *See*—
Olin, John F., and Deger.

Shelby Cycle Company, The, assignee: *See*—
Smith, Leon A.

Shell Development Company, assignee: *See*—
Smith, Albert E., and Beeck.
Williams, Paul H., and Ballard.

Shepard, Francis H., Jr.: *See*—
MacLaren, Fred B., Jr., and Shepard.

Sights, Robert C., Kennewick, Wash. Helicopter. 2,422,441; June 17.

Sigmund Corporation, assignee: *See*—
Sigmund, Frank J., and Hlavin.

Sigmund, Frank J., and W. S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation. Magnetizable core. 2,422,591; June 17.

Sigmund, Frank J., and W. S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation. Preformed coating for magnetizable core. 2,422,592; June 17.

Silbert, Eileen, assignee, et al.: *See*—
Du Bois, Joseph E.

Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers, Inc., Long Island City, N. Y. Computing device for photographic cameras. 2,422,316; June 17.

Simmon Brothers, Inc., assignee: *See*—
Simmon, Alfred.

Simonds Saw and Steel Co., assignee: *See*—
Pavitt, Harry A.

Slotterbeck, Ober C.: *See*—
Chambers, Thomas S., and Slotterbeck.

Smith, Albert E., and O. A. Beeck, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Preparation of an alumina supported molybdenum oxide catalyst. 2,422,372; June 17.

Smith, Bertha R., assignee, et al.: *See*—
Dehm, Edward.

Smith, Elmer P.: *See*—
Howe, Lewis G., Smith, and Annis.

Smith, Frank B.: *See*—
Hansen, John N., and Smith.

Smith, Herschel G., Wallingford, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Rotary filter. 2,422,373; June 17.

Smith, Joseph P., Pyrmont, New South Wales, Australia. Sluice box with water distribution pipes. 2,422,442; June 17.

Smith, Keith V., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Combustion chamber. 2,422,213; June 17.

Smith, Leon A., assignor to The Shelby Cycle Company, Shelby, Ohio. Wheel spoke nut driving machine. 2,422,593; June 17.

Smith, Robert K., Cranford, N. J., assignor to Standard Oil Development Company. Stabilized alkaryl amine and preparing. 2,422,503; June 17.

Smith, William A., Pittsburgh, Pa. Condensation of hydrocarbons. 2,422,443; June 17.

Socony-Vacuum Oil Company, assignee: *See*—
Farrar, Gerald L.

Solanas, Ramón B., Santa Coloma de Cervello, Spain. Drawing mechanism for textile slivers. 2,422,444; June 17.

Spence, Oswald, assignor to Masonite Corporation, Laurel, Miss. Recovery of lower aliphatic acids from dilute aqueous solution. 2,422,504; June 17.

Splaine, Edward M.: *See*—
Bernheim, Daniel P., and Splaine.

Sprague, Basil S.: *See*—
Trueger, Edward, and Sprague.

Spray-Omatic Products Company, assignee: *See*—
Hake, Elmer C.

Squires, Frederic B., Tenafly, N. J. Holder for etching electrodes. 2,422,265; June 17.

Standard Oil Company, assignee: *See*—
Anderson, Albert A.
Proell, Wayne A.
Rogers, Thomas H., Watson, and Starrett.

Standard Oil Company, The, assignee: *See*—
Musselman, John M.
Musselman, John J., and Lankelma.

Standard Oil Development Company, assignee: *See*—
Chambers, Thomas S., and Slotterbeck.
Gerbes, Otto.
Herbst, Walter A.
Hill, Ralph M.
Lieberm, Eugene, and Cashman.
Mikeska, Louis A.
Pierce, Jerry A., and Kimberlin.
Roethell, Bruno E.
Russell, Barrett B., 3d.
Schrader, Leo W.
Smith, Robert K.
Winning, Carl, and Rogers.
Young, David W., and Calfee.

Starck, Werner, Hofheim, Taunus, and H. Freudenberger, Frankfort-on-the-Main-Nied, Germany; vested in the Attorney General of the United States. Aqueous emulsions and preparing them. 2,422,646; June 17.

Starrett, James W.: *See*—
Rogers, Thomas H., Watson, and Starrett.

Steele, Frederick: *See*—
Fiader, Fredric E., Lakowitz, and Steele.

Steiner, Otto, Berlin-Spandau, Germany; vested in the Attorney General of the United States. Cinematograph camera. 2,422,635; June 17.

Steinke, Theodore W., assignor to The Gates Rubber Company, Denver, Colo. Making power transmission belts. 2,422,266; June 17.

Stengren, Jon, Forest Hills, N. Y. Container with inclined front opening and closure means therefor. 2,422,594; June 17.

Sterne, Rita C., assignee, et al.: *See*—
Du Bois, Joseph E.

Stevens, Adolph K., Buffalo, N. Y. Antiskid device. 2,422,595; June 17.

Stevens, Arthur J.: *See*—
Schumb, Walter C., and Stevens.

Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Dual pneumatic power control. 2,422,596; June 17.

Stewart, Carlton D., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pipe fitting. 2,422,597; June 17.

Stiller, Eric T., Fanwood, assignor to Merck & Co., Inc., Rahway, N. J. Compounds containing an active methylene group, and preparing the same. 2,422,598; June 17.

Stock, Charles R., Greenwich, and V. C. Taxwood, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Means for impact testing. 2,422,317; June 17.

Strebe, Frank C., and W. L. Comyns, Los Angeles, Calif. Radio reception means. 2,422,374; June 17.

Stromberg-Carlson Company, assignee: *See*—
Powell, Winfred T.

Stryker, Harvey I., Carney's Point, N. J., and R. O. Heuse, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovering triaryl-methane dyestuffs. 2,422,445; June 17.

Stuart, Alfred A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Bendix, N. J. Sonic direction finding. 2,422,446; June 17.

Sturrock, Murray G., and T. Lawe, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada. Production of aromatic compounds. 2,422,318; June 17.

Sturtevant, B. F., Company, assignee: *See*—
Palmer, Robert T.

Submarine Signal Company, assignee: *See*—
Benioff, Hugo.

Summers, Thomas O., Jr., Los Angeles, Calif., assignor to Lear, Incorporated, Grand Rapids, Mich. Gyroscope caging device. 2,422,267; June 17.

Sunbeam Corporation, assignee: *See*—
Koci, Ludvik J.

Super Tool Company, assignee: *See*—
Brocker, Emil.

Swanson, Carl E.: *See*—
Geller, Joseph J., and Swanson.

Swanson, Gunnar E., New Britain, Conn. Master key cylinder lock. 2,422,600; June 17.

Switlik, Stanley, assignee: *See*—
Severance, Spencer W.

Sylvania Electric Products Inc., assignee: *See*—
McCarthy, Henry J.

Symonds, James W., Ladoga, Ind. Coal truck and unloading apparatus. 2,422,268; June 17.

Tangeman, William H., and J. R. Campbell, Ontario, Calif., assignor to General Electric Company. Flatiron having a retractable support. 2,422,505; June 17.

Tashjian, David R., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ultra high frequency coupling circuit. 2,422,601; June 17.

Taxwood, Vincent C.: *See*—
Stock, Charles R., and Taxwood.

Taylor, Florence E., assignee, et al.: *See*—
Du Bois, Joseph E.

Taylor, George F., Grosse Pointe Woods, Mich., assignor to Carboloy Company, Inc. Method of making cemented carbide article. 2,422,636; June 17.

Teletype Corporation, assignee: *See*—
Hutchinson, Volney A.

Temple, Robert, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del. Mine anchor-line cutter. 2,422,506; June 17.

Temple Velocity Equipment, Inc., assignee: *See*—
Temple, Robert.

Thomas, Charles A., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Resinous condensation product of phenol and styrene oxide. 2,422,637; June 17.

Thomas, John W., Springfield, Ohio. Tool holder. 2,422,375; June 17.

Thompson, Glenn S., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Engine starter. 2,422,319; June 17.

Thompson, Lyman F., Fayetteville, Ark. Needle. 2,422,269; June 17.

Thomson, Alex, administrator: *See*—
White, Sidney Y.

Tinnerman Products, Inc., assignee: *See*—
Judd, Charles H.

Titelox Manufacturing Company, assignee: *See*—
Lord, Francis LeB.

Tondreau, Albert W., North Hollywood, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Camera. 2,422,270; June 17.

Transit Research Corporation, assignee: *See*—
Piron, Emil H.

Trask, Allen, assignee: *See*—
Winslow, William B.

Trautvetter, George, Jenkintown, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Bus door. 2,422,447; June 17.

Trible, Winthrop, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Remote-control means for speed change mechanisms. 2,422,448; June 17.

Troche, Herman J., Cleveland Heights, and A. J. Farrar, assignors to The American Coach & Body Company, Cleveland, Ohio. Ladder counterbalancing apparatus. 2,422,507; June 17.

Troemel, Walter H., assignor to Reeves Pulley Company, Columbus, Ind. Preset control. 2,422,320; June 17.

Trueger, Edward, Roselle, N. J., and B. S. Sprague, Brooklyn, N. Y., assignors to American Lecithin Company, Cleveland, Ohio. Making nitrogenated cephalin. 2,422,321; June 17.

Tucker, Herbert E., assignor to J. R. Cardwell, Chicago, Ill. Stabilizing mechanism for railway trucks and the like. 2,422,638; June 17.

Turner, Arthur F., Brighton, and R. B. Horsfall, Jr., Perinton, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Light beam divider. 2,422,376; June 17.

Ulm, Reign C., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Flexible drain for floating roofs. 2,422,322; June 17.

Uncas Manufacturing Company, assignee: *See*—
Barbieri, Nicholas.

Union Switch and Signal Company, The, assignee: *See*—
Francis, Joseph M., and Armistead.

United-Carr Fastener Corporation, assignee: *See*—
Churchill, Wilmer H.
Johnson, Frank E.

United Shoe Machinery Corporation, assignee: *See*—
Gookin, Sylvester L.

United States Rubber Company, assignee: *See*—
Fletcher, Harry H.

Universal Oil Products Company, assignee: *See*—
Pine, Herman, Ipatieff, and Olberg.

Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency modulated transmitter. 2,422,449; June 17.

Vaala, Gordon T., and C. E. Frank, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyisocyanate modified polyesteramides. 2,422,271; June 17.

Vallely, John L., Los Angeles, Calif. Animal trap. 2,422,602; June 17.

Van Daam, Gerrit, Buffalo, N. Y. Combined space heater and grill. 2,422,450; June 17.

Vanderbilt, R. T., Company, Inc., assignee: *See*—
Johnston, Norman F.

Vane Wheel Company, assignee: *See*—
De Vlieg, Charles B.

Van Sickle, Roswell C., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,422,603; June 17.

Velde, Hermann: *See*—
Martin, Friedrich, Gottschall, and Velde.

Vibro-Plus Corporation, assignee: *See*—
Wenander, Harold S.

Vickers-Armstrongs Limited, assignee: *See*—
Ingoldby, Maurice K., and Abbink-Spaink.

Viehweger, August, Comstock Park, Mich. Machine for making tubular parts from strip material. 2,422,272; June 17.

Vinco Corporation, assignee: *See*—
Hutto, Marsden C.

Vixler, Leslie F.: *See*—
Reeves, Herbert M., and Vixler.

Vokes, Cecil G., London, assignor to Vokes Limited, Guilford, Surrey, England. Filter. 2,422,647; June 17.

Vokes Limited, assignee: *See*—
Vokes, Cecil G.

Von Hoorn, Fred G., Bridgeport, Conn., assignor to General Electric Company. Circuit breaker. 2,422,508; June 17.

Wagner Electric Corporation, assignee: *See*—
Schnell, Steve.

Walker, Willis F., Seisholtzville, Pa. Third rail support. 2,422,509; June 17.

Walmesley, Robert A., Howwood, Scotland, assignor to Imperial Chemical Industries Limited. Recovery of glycerine from fermented liquors. 2,422,453; June 17.

Waltman, Edwin G., Steubenville, Ohio, assignor to National Steel Corporation. Producing sheets and the products obtained. 2,422,323; June 17.

Wannamaker, William H., Jr., Flourtown, assignor to The Brown Instrument Company, Philadelphia, Pa. Lens type radiation pyrometer. 2,422,273; June 17.

War, Government of the United States of America, as represented by the Secretary of, assignee: *See*—
Brewster, Leslie A.
Coomes, Edward A.

Ward, John B., assignor to Corning Glass Works, Corning, N. Y. Vessel handle assembly. 2,422,510; June 17.

Warner Bros. Pictures, Inc., assignee: *See*—
Tondreau, Albert W.

Warner Electric Brake Manufacturing Company, assignee: *See*—
Edgar, Victor R.

Warner, William R., & Co., Inc., assignee: *See*—
De Luca, Joseph.

Washington Iron Works, assignee: *See*—
Anderson, Peter.

Waterbury, Carl C., assignor to Diaphragm & Chemical Company, Chicago, Ill. Pessary. 2,422,377; June 17.

Watrous, Ward W., Jr., Chatham, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spark gap device. 2,422,324; June 17.

Watson, Roger W.: *See*—
Rogers, Thomas H., Watson, and Starrett.

Watter, Michael, and G. W. Pancoe, assignors to The Budd Company, Philadelphia, Pa. Engine mount. 2,422,452; June 17.

Watters, Joseph C., Atlanta, Ga. Adjustable crutch. 2,422,451; June 17.

Webb, Herbert J.: *See*—
Baker, Benjamin P., and Webb.

Weber, Earl J., Cleveland, Ohio, assignor to American Gas Association, Inc. Gas purity testing device. 2,422,604; June 17.

Weiss, Melvin V., Haddonfield, assignor to Radio Condenser Company, Camden, N. J. High-frequency tuning structure. 2,422,454; June 17.

Welch, David F., assignor to California Institute Research Foundation, Pasadena, Calif. Low level reflector. 2,42,378; June 17.

Wells, William J., assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Dispensing package. 2,422,605; June 17.

Wenander, Harald S., Riksby, Stockholm, Sweden, assignor to Vibro-Plus Corporation, Wilmington, Del. Vibrating device. 2,422,639; June 17.

Western Electric Company, Incorporated, assignee: *See*—
Adams, Robert T.
Boynton, Wentworth D.
Hogin, Philip E.

Westinghouse Air Brake Company, The assignee: *See*—
Stevens, Roy R.
Stewart, Carlton D.

Westinghouse Electric Corporation, assignee: *See*—
Baker, Benjamin P., and Webb.
Broadbent, John H.
Fischer, Eugene H.
Geiselman, Ralph A., and Houck.
Hague, Floyd T.
Jenks, Harold C.
Jones, Maurice F.
Leeds, Winthrop M.
Lensner, Herbert W., and Chapman.
Mako, Dave, and George.
Marsh, Francis E., and Casanova.
McClellan, Cyril E.
Meyer, Charles A., and Redding.
Peek, Henry L.
Pegg, Edward H. R.
Puchlowski, Konstanty P.
Samzelius, John W.
Smith, Keith V.
Tashjian, David R.
Van Sickle, Roswell C
Watrous, Ward W., Jr.

Westman, Sydney E., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Electric bushing. 2,422,379; June 17.

Wheelon, Orville A., Pacific Palisades, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Making patterns and forging dies. 2,422,325; June 17.

Whitaker Cable Corporation, assignee: *See*—
Whitaker, Jack P.

Whitaker, Jack P., Kansas City, assignor to Whitaker Cable Corporation, North Kansas City, Mo. Battery connector. 2,422,380; June 17.

White, Sidney Y., Wilmette, assignor to V. S. Johnson, deceased, Chicago, Ill.: A. Thomson, administrator. Lining up unicontrolled tuned radio apparatus. 2,422,381 ; June 17.

Wickerham, Lynferd J., Peoria, Ill., assignor to United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Preparing a diastatic agent. 2,422,455 ; June 17.

Wiest, Emil G. : *See*—
  Maynard, Carl W., Jr., and Wiest.

Wilcolator Company, The, assignee : *See*—
  Burch, Lyndon W.

Wilcox Electric Co., assignee : *See*—
  Bates, Charles H.

Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Varying leverage gears. 2,422,326 ; June 17.

Williams, Fred D., Jr., assignor to S. Ruben, New Rochelle, N. Y. Making zinc roll anode for primary cells. 2,422,606 ; June 17.

Williams, Paul H., Berkeley, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Dihydropyran compounds and their preparation. 2,422,648 ; June 17.

Wilson, John H., Wichita Falls, Tex. Winch. 2,422,274 ; June 17.

Winchel, Henry T., North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Distance measuring apparatus. 2,422,382 ; June 17.

Winning, Carl, Westfield, and D. T. Rogers, Plainfield, N. J., assignors to Standard Oil Development Company. Compounded lubricating oil. 2,422,275 ; June 17.

Winsker, Herbert : *See*—
  Curry, Robert S., Jr., Horman, Kircher and Winsker.

Winslow, William B., assignor to A. Trask, Chicago, Ill. Resilient piston pin bushing. 2,422,327 ; June 17.

Wiseman, Walter S., Detroit, Mich., assignor of fifteen per cent to J. P. Aubin and fifteen per cent to E. M. Zahn. Window lifting and lowering device for motor vehicles. 2,422,456 ; June 17.

Witt, Frank, San Francisco, Calif. Cigarette lighting cap. 2,422,277 ; June 17.

Wolsey, Karl V., Medford, Mass. Removable draping and storage frame for luggage. 2,422,511 ; June 17.

Woodruff, Harold B. : *See*—
  Foster, Jackson W., and Woodruff.

Wright Aeronautical Corporation, assignee : *See*—
  Jackes, Herman D.
  Kaufman, Morton.
  Zimmer, Eric H.

Wright, Hubert B., Nashville, Tenn. Oil gauge wiper. 2,422,512 ; June 17.

Wynne, Frederick C., Hounslow, England. Self-operating draught excluder. 2,422,607 ; June 17.

Yale & Towne Manufacturing Company, The, assignee : *See*—
  Framheim, Herbert J.

Yamamoto, Hideo, Yokohama, Japan ; vested in the Attorney General of the United States. Apparatus for manufacturing strainless glass sheets. 2,422,640 ; June 17.

Yeandle, Ralph S., Schoharie, N. Y., assignor to General Electric Company. Frequency responsive network. 2,422,513 ; June 17.

Young, Arthur A. : *See*—
  Johansson, Ernest G., and Young.

Young, David W., Roselle, and J. D. Calfee, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil composition. 2,422,278 ; June 17.

Young, Forrest J., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Rotary machine. 2,422,383 ; June 17.

Young, Harland H., assignor to Industrial Patents Corporation, Chicago, Ill. Glucosides as plasticizers for water-soluble animal and vegetable adhesives. 2,422,328 ; June 17.

Zabel, William P., Cleveland Heights, Ohio, assignor to General Electric Company. Coating apparatus. 2,422,457 ; June 17.

Zahn, Ernest M., assignee, et al. : *See*—
  Wiseman, Walter S.

Zimmer, Eric H., Wycoff, N. J., assignor to Wright Aeronautical Corporation. Radius forming tool. 2,422,279 ; June 17.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Hop picking machine, Stationary type. F. F. Dauenhauer. Re. 22,889 ; June 17.

Plug for electric motors, Breather. D. H. Manney. Re. 22,890 ; June 17.

LIST OF PLANT INVENTIONS

Rose plant. E. S. Boerner. 739 ; June 17.

LIST OF DESIGN INVENTIONS

Airplane, Model. A. J. Klose. 146,941 ; June 17.

Box or similar article, Bather's cosmetics. E. B. Steinberg. 146,951 ; June 17.

Clothespin or similar article. V. K. Cooper. 146,937 ; June 17.

Comb with handle. E. J. Lux. 146,945 ; June 17.

Compact. W. B. Crane. 146,938 ; June 17.

Cradle, Doll's. F. A. Lisi. 146,944 ; June 17.

Desk or similar article, Service station write-up. E. G. Fossum and F. L. Ayres. 146,939 ; June 17.

Earring or similar article. M. Chernow. 146,936 ; June 17.

File, Card. F. H. Saltz. 146,948–9 ; June 17.

Pendant. G. J. Lederer. 146,942–3 ; June 17.

Pin or similar article. M. Slater. 146,950 ; June 17.

Plate, Dinner. J. Hackley. 146,940 ; June 17.

Projector, Picture. A. J. Bradford. 146,935 ; June 17.

Sled. H. J. Barrett. 146,934 ; June 17.

Suit. J. Walker. 146,952–3 ; June 17.

Toy, Figure. J. F. Mitchell and S. S. Brown. 146,946 ; June 17.

Tractor. H. C. Roths. 146,947 ; June 17.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acetylene from calcium carbide and water, Generation of. H. Holler and O. Mues. 2,422,623; June 17.
Acetylene, Storage of. M. O'Brian and E. R. Biggins. 2,422,251; June 17.
Acids from dilute aqueous solution, Recovery of lower aliphatic. O. Spence. 2,422,504; June 17.
Acids vicinally substituted with two mercapto groups, Carboxylic. W. A. Lazier, A. A. Pavlic, and W. J. Peppel. 2,422,246; June 17.
Adhesive temporary support. J. A. Ball. 2,422,387; June 17.
Adjustable hair drier. O. R. Nemeth. 2,422,311; June 17.
Adjustable step-by-step motor. O. A. Shann. 2,422,212; June 17.
Adjustably mounted motor. L. Orland. 2,422,433; June 17.
Air and recirculated air mixing and distributing means in an overhead air conditioning duct system, Cold. R. T. Palmer. 2,422,560; June 17.
Air conditioning, Vehicle. E. H. R. Pegg. 2,422,563; June 17.
Aircraft apparatus, Preflight pilot training. V. S. Jensen. 2,422,552; June 17.
Alarm system, Electrical. G. V. A. Gustafsson. 2,422,542; June 17.
Aliphatic amines and acid amides, Manufacture of. J. F. Olin and T. E. Deger. 2,422,631–2; June 17.
Alkaryl amine and preparing, Stabilized. R. K. Smith. 2,422,503; June 17.
Alkyleneimine with ammonium dithiocarbamate, Reaction product of. R. A. Mathes. 2,422,578; June 17.
Alumina gel. J. A. Pierce and C. N. Kimberlin, Jr. 2,422,499; June 17.
Anchorage for closure and the like, Fabric. R. A. Brenner. 2,422,391; June 17.
Animal trap. J. L. Vallely. 2,422,602; June 17.
Anode for primary cells, Making zinc roll. F. D. Williams, Jr. 2,422,606; June 17.
Antenna, Directional microwave. C. C. Cutler. 2,422,184; June 17.
Antenna positioning control. J. H. Broadbent. 2,422,180; June 17.
Antiskid device. A. K. Stevens. 2,422,595; June 17.
Apparatus for bending and driving in staples. R. C. Hazewinkel. 2,422,641; June 17.
Apparatus for carrying out chemical reactions in the presence of finely divided powder. B. E. Roetheli. 2,422,501; June 17.
Apparatus for cleaning knitting machines. J. L. Allen. 2,422,514; June 17.
Apparatus for contacting solid particles with gaseous fluids. B. B. Russell, 3rd. 2,422,262; June 17.
Apparatus for cutting bars, tubes, and the like. G. L. Dannehower and W. B. Heinz. 2,422,531; June 17.
Apparatus for deodorization of animal oils and vegetable oils. D. K. Dean. 2,422,185; June 17.
Apparatus for detecting defects in electrical systems. L. Martenet. 2,422,644; June 17.
Apparatus for fire-polishing glass articles. E. M. Guyer. 2,422,482; June 17.
Apparatus for ice removing mechanism, Inflation. W. H. Hunter. 2,422,624; June 17.
Apparatus for insulating conductors. R. T. Adams. 2,422,281; June 17.
Apparatus for manufacturing strainless glass sheets. H. Yamamoto. 2,422,640; June 17.
Apparatus for plucking feathers. E. J. Albright. 2,422,608; June 17.
Apparatus for raising the disassociation pressure of acetylene in generators. J. J. Crowe. 2,422,225; June 17.
Apparatus for testing electrical insulation. W. D. Boynton. 2,422,288; June 17.
Apparatus for treatment of foods by dehydration or refrigeration comprising trucks and a treating enclosure. W. J. Finnegan. 2,422,536; June 17.
Appliance for making coffee, Electrical. J. C. Meier. 2,422,580; June 17.
Aqueous emulsions and preparing them. W. Starck and H. Freudenberger. 2,422,646; June 17.
Aromatic compounds, Production of. M. G. Sturrock and T. Lawe. 2,422,318; June 17.
Article forming apparatus. R. T. Adams. 2,422,282; June 17.
Assembling tool. P. E. Hogin. 2,422,549; June 17.
Assembly for brakes and clutches. T. L. Fawick. 2,422,227; June 17.

Axle construction, Tandem. R. Q. Armington. 2,422,460; June 17.
Baffle attachment for heating coil surounding a combustion tube burner. M. A. Kenrick. 2,422,488; June 17.
Bag: *See*—
  Golf club bag.
Bag sewing machine, Automatic. F. Lombardo. 2,422,426; June 17.
Bar: *See*—
  Buglar bar.
Battery connector. J. P. Whitaker. 2,422,380; June 17.
Blade. J. J. Palotsee. 2,422,434; June 17.
Blood, Method and apparatus for collection and treatment of. B. S. Harrington. 2,422,194; June 17.
Boat construction. C. H. Clement, Jr. 2,422,183; June 17.
Bobbin, Yarn. O. Lobl. 2,422,358; June 17.
Booster for a lubricating system, Pressure. N. W. Morse. 2,422,250; June 17.
Bottle and booklet package, Combination. R. L. Rheinstrom. 2,422,314; June 17.
Box for chicks and the like, Shipping. R. N. Richards. 2,422,438; June 17.
Bracelet, Molded. N. Barbieri. 2,422,518; June 17.
Brake: *See*—
  Dual wheel brake.
Brake control system. S. Schnell. 2,422,370; June 17.
Brake for roller coasters, Safety. H. J. Humphrey. 2,422,416; June 17.
Brake mechanism. V. R. Edgar. 2,422,187; June 17.
Bucket locking means. H. W. Botten. 2,422,523; June 17.
Buckle, Slide loop. C. E. Anderson. 2,422,459; June 17.
Building units, Manufacturing faced. E. E. Arquette. 2,422,461; June 17.
Bullet trap. G. C. Andresen and H. Rockey. 2,422,284; June 17.
Buoy, Submarine detecting. C. Chilowsky. 2,422,337; June 17.
Burglar bar. F. L. Hawkins and W. D. Phillips. 2,422,547; June 1.
Burner: *See*—
  Oil burner.
Bus door. G. Trautvetter. 2,422,447; June 17.
Bushing, Electric. S. E. Westman. 2,422,379; June 17.
Bushing, Resilient piston pin. W. B. Winslow. 2,422,327; June 17.
Butadiene copolymers, Rubberlike. F. K. Schoenfeld. 2,422,371; June 17.
Camera. A. W. Tondreau. 2,422,270; June 17.
Camera, Cinematograph. O. Steiner. 2,422,635; June 17.
Camera, Document copying. J. K. Holbrook. 2,422,354; June 17.
Cap: *See*—
  Cigarette lighting cap.
Car: *See*—
  Foldable baby car.
  Self-righting dump car.
Carriage, Baby. A. Peronti. 2,422,254; June 17.
Carrier: *See*—
  Collapsible golf bag carrier.
Carrier current protective system. H. W. Lensner and J. F. Chapman. 2,422,570; June 17.
Cartridge feeding means for rifles, Bolt-actuated. E. Dehm. 2,422,532; June 17.
Cartridge feeding mechanism for repeating firearms. T. F. Horan. 2,422,301; June 17.
Case: *See*—
  Key case.
Cathode, Electrode emitting. E. A. Coomes. 2,422,469; June 17.
Cellulose derivative and coating with same, Xanthated. L. Lilienfeld. 2,422,573; June 17.
Cement products, Manufacture of hydraulic. G. L. Easterberg and R. A. MacArthur. 2,422,344–5; June 17.
Cemented carbide article, Making. G. F. Taylor. 2,422,636; June 17.
Centrifugal pump. L. G. Howe, E. P. Smith, and R. K. Annis. 2,422,415; June 17.
Chisel. R. W. McClure. 2,422,202; June 17.
Chlorinated quinones, Manufacture of. H. H. Fletcher. 2,422,229; June 17.
Chromane, Production of. W. John. 2,422,625; June 17.
Chrome alloy steel from a charge containing chrome scrap, Manufacture of. C. R. Funk. 2,422,209; June 17.
Cigarette lighting cap. F. Witt. 2,422,277; June 17.
Cigarette receptacle. J. J. Geller and C. E. Swanson. 2,422,478; June 17.

Circuit: *See*—
  Ultra high frequency coupling circuit.
Circuit breaker. H. L. Peek. 2,422,562; June 17.
Circuit breaker. F. G. von Hoorn. 2,422,508; June 17.
Circuit breaker, Fluid pressure operated. B. P. Baker and H. J. Webb. 2,422,516; June 17.
Circuit for use in automatic telephone systems, Selector operating. G. T. Baker. 2,422,285; June 17.
Circuit interrupter. W. M. Leeds. 2,422,569; June 17.
Circuit interrupter. R. C. Van Sickle. 2,422,603; June 17.
Circuits, Electronic reactance. J. Plebanski. 2,422,257; June 17.
Clip: *See*—
  Reinforced contact clip.
Closure device. C. H. Judd. 2,422,420; June 17.
Clutch. J. M. Dodwell. 2,422,533; June 17.
Coating apparatus. W. P. Zabel. 2,422,457; June 17.
Coating for magnetizable core, Preformed. F. J. Sigmund and W. S. Hlavin. 2,422,592; June 17.
Collapsible golf bag carrier. J. H. Freis. 2,422,298; June 17.
Collar and pipe, Spacer. E. C. Milliken. 2,422,582; June 17.
Collar, Shirt, G. H. Boyd, Sr. 2,422,219; June 17.
Combustion chamber. K. V. Smith. 2,422,213; June 17.
Communication system for railroads, Code. W. M. Barker. 2,422,519; June 17.
Compass, Bow. A. P. Bartusch. 2,422,286; June 17.
Composite structural materials, Manufacturing. P. Schwarzkopf. 2,422,439; June 17.
Composition of matter suitable for use as a lubricant and as an addition agent to lubricants, Preparing. J. M. Musselman. 2,422,206; June 17.
Compounds containing an active methylene group, and preparing the same. E. T. Stiller. 2,422,598; June 17.
Compressor, Rotary. F. B. Halford. 2,422,615; June 17.
Computing device for photographic cameras. A. Simmon. 2,422,316; June 17.
Connecter: *See*—
  Battery connecter.
Connector: *See*—
  Battery connector.
Connector. S. P. Becker. 2,422,332; June 17.
Container: *See*—
  Fuel container.
Container with inclined front opening and closure means therefor. J. Stengren. 2,422,594; June 17.
Control device for draft regulators. C. H. Morrow. 2,422,496; June 17.
Control device for switches or the like. E. J. Dillman and J. E. Fleury. 2,422,292; June 17.
Control for motors, Electronic. K. P. Puchlowski. 2,422,567; June 17.
Control for planers and the like, Electric. J. E. Doran. 2,422,476; June 17.
Control means for automatic regulating mechanism. E. E. Harper. 2,422,352; June 17.
Control system. R. A. Geiselman and J. P. Houck. 2,422,539; June 17.
Control system, Pulse-echo. A. V. Bedford. 2,422,333; June 17.
Control system, Slat and flat. F. E. Flader, F. Lakowitz, and F. Steele. 2,422,296; June 17.
Conveyer for fish canning machines. J. P. Jakob. 2,422,198; June 17.
Core, Magnetizable. F. J. Sigmund and W. S. Hlavin. 2,422,591; June 17.
Corrosion in ferrous metal pipe lines carrying refined petroleum distillates, Prevention of. A. A. Andersou. 2,422,515; June 17.
Counting device. G. Rickard, Jr. 2,422,584; June 17.
Coupler, Automatic railroad car. G. N. Knapp. 2,422,355; June 17.
Coupling device and system, Ultra high frequency. M. D. Fiske. 2,422,190; June 17.
Cover: *See*—
  Golf club cover.
Cover and case, Book. A. C. Greene. 2,422,235; June 17.
Crutch, Adjustable. J. C. Watters. 2,422,451; June 17.
Current collector. M. F. Jones. 2,422,554; June 17.
Curtain. M. Druck. 2,422,293; June 17.
Cutter: *See*—
  Power-driven reciprocating cutter.
  Stalk cutter.
Cyclohexene oxides, Manufacture of. H. Pines, V. N. Ipatieff, and R. C. Olberg. 2,422,435; June 17.
Damper control. R. J. Parsons. 2,422,312; June 17.
Detonating mechanism. H. C. Hebard. 2,422,548; June 17.
Device for the speed regulation of electric commutator machines. P. Flury. 2,422,614; June 17.
Diaphragms, Making. I. E. Coffey. 2,422,529; June 17.
Diastatic agent, Preparing a. L. J. Wickerham. 2,422,455; June 17.
Diazoamino compounds. C. W. Maynard, Jr., and E. G. Wiest. 2,422,359; June 17.
Dichlorobutenes, Transposition of. J. A. Otto. 2,422,252; June 17.
Die, Wrapping. M. Greenbaum. 2,422,408; June 17.
Dielectric wave guide system. M. D. Fiske. 2,422,189; June 17.
Dihydropyran compounds, and their preparation. P. H. Williams and S. A. Ballard. 2,422,648; June 17.

Direction finding, Sonic. A. A. Stuart, Jr. 2,422,446; June 17.
Disk, Selenium rectifier. S. S. Frye. 2,422,192; June 17.
Dispensing apparatus. J. De Luca. 2,422,226; June 17.
Dispensing device, Tiltable trap chamber powder. E. M. Schara. 2,422,263; June 17.
Dispensing package. W. J. Wells. 2,422,605; June 17.
Dispersions. B. Petersen. 2,422,633; June 17.
Displacement-type electric water heater. E. Losee. 2,422,492; June 17.
Dissector tube. C. C. Larson. 2,422,244; June 17.
Distribution system, Electrical. J. E. P. Burge. 2,422,336; June 17.
Domestic appliance. K. Clark. 2,422,395; June 17.
Door: *See*—
  Bus door.
Drain for floating roofs, Flexible. R. C. Ulm. 2,422,322; June 17.
Draught excluder, Self-operating. F. C. Wynne. 2,422,607; June 17.
Drawing mechanism for textile slivers. R. B. Solanas. 2,422,444; June 17.
Drier: *See*—
  Adjustable hair drier.
Dryer: *See*—
  Adjustable hair dryer.
Dual wheel brake. C. S. Ash. 2,422,462; June 17.
Dust-precipitator, Electrical. E. H. R. Pegg. 2,422,564; June 17.
Dust preventing device for packaging subdivided materials. J. M. Allerdice. 2,422,330; June 17.
Electric plug. F. D. Bryant. 2,422,393; June 17.
Electrical control, Pressure regulated. E. J. Dillman. 2,422,342; June 17.
Electrode holder. A. E. Anderson. 2,422,385; June 17.
Electrodes, Welding. T. E. Kihlgren and C. E. Lacy. 2,422,489; June 17.
Electromagnetic operator. W. A. Ray. 2,422,260; June 17.
Electromagnetic reset valve. W. A. Ray. 2,422,368; June 17.
Electronic device. R. E. Mumma. 2,422,583; June 17.
Electronic discharge device. H. L. Louden. 2,422,427; June 17.
Emulsifying and whipping agents. N. F. Johnston. 2,422,486; June 17.
Engine: *See*—
  Internal-combustion engine.
Engine starter. G. S. Thompson. 2,422,319; June 17.
Engine with stratified mixture. A. Bagnulo. 2,422,610; June 17.
Ethylene-vinyl chloride polymers. M. M. Brubaker, J. R. Roland, and M. D. Peterson. 2,422,392; June 17.
Evaporator. M. Keim. 2,422,487; June 17.
Expansion joint. L. W. Schrader. 2,422,502; June 17.
Eye shield. J. E. Du Bois. 2,422,534; June 17.
Fastener and installation therefor, Rotary. F. E. Johnson. 2,422,304; June 17.
Fastener stud, Rotary operative. W. H. Churchill. 2,422,289; June 17.
Fibrous and textile materials, Dressing. L. Lilienfeld. 2,422,572; June 17.
Film, Flexible reflex reflecting. M. H. Phillippi. 2,422,256; June 17.
Filter: *See*—
  Rotary filter.
Filter. C. G. Vokes. 2,422,647; June 17.
Filter device for antenna systems. E. V. Amy and J. G. Aceves. 2,422,458; June 17.
Fire control or like apparatus for similar purposes. M. K. Ingoldby and J. H. Abbink-Spaink. 2,422,197; June 17.
Fixture, Electroplating. M. Kaufman. 2,422,242; June 17.
Flask filling apparatus. M. G. Clay. 2,422,290; June 17.
Flatiron having a retractable support. W. H. Tangeman and J. R. Campbell. 2,422,505; June 17.
Fluorescent illumination. D. W. Abernathy. 2,422,280; June 17.
Fluorine, Production of. W. C. Schumb and A. J. Stevens. 2,422,590; June 17.
Foldable baby car. C. V. Johnson. 2,422,241; June 17.
Food chopper, Vertically reciprocating and intermittently rotating. H. T. Clark. 2,422,340; June 17.
Footwear with water-resistant slide-fastener closure. A. M. Malluk. 2,422,249; June 17.
Frame: *See*—
  Multiple processing frame.
Frame for luggage, Removable draping and storage. K. V. Wolsey. 2,422,511; June 17.
Frame for twin golf bags, Supporting. A. P. Robinson. 2,422,315; June 17.
Frequency measurement. W. A. Anderson. 2,422,386; June 17.
Fruit paste, Manufacture of dried citrus. Z. Samisch. 2,422,588; June 17.
Fuel container. H. S. Holt. 2,422,239; June 17.
Fuel induction means, Gas engine. E. G. Baker. 2,422,517; June 17.
Furnace electrode regulator. W. E. Moore. 2,422,362; June 17.
Gage: *See*—
  Mortising gage.
Gain control for pulse-echo systems, Automatic. A. V. Bedford. 2,422,334; June 17.

Garment hanger. J. F. May. 2,422,493 ; June 17.
Gas separator. J. A. Campbell. 2,422,527 ; June 17.
Gauge : *See*—
  Mortising gauge.
Gears, Varying leverage. E. Wildhaber. 2,422,326 ; June 17.
Generator : *See*—
  Reactance tube controlled generator.
  Television synchronizing signal generator.
  Vapor generator.
  Wide range variable frequency generator.
Generator arrangement for absorption refrigerating systems. R. S. Gaugler. 2,422,401 ; June 17.
Generator with radiator, Spark gap oscillation. H. Benioff. 2,422,176 ; June 17.
Glass article. R. H. Dalton. 2,422,472 ; June 17.
Glass forming apparatus, Sheet. D. N. Brown. 2,422,466 ; June 17.
Glass to metal seal. H. J. McCarthy. 2,422,628 ; June 17.
Glucosides as plasticizers for water-soluble animal and vegetable adhesives. H. H. Young. 2,422,328 ; June 17.
Glycerine from fermented liquors, Recovery of. R. A. Walmesley. 2,422,453 ; June 17.
Goggle, Variable density. D. P. Bernheim and E. M. Splaine. 2,422,287 ; June 17.
Golf club bag. I. O. Bauer. 2,422,218 ; June 17.
Golf club cover. G. F. Lauretti. 2,422,245 ; June 17.
Grinding, Method of and machine for. C. B. De Vlieg. 2,422,475 ; June 17.
Grommet and eyelet setting apparatus. S. L. Gookin. 2,422,405 ; June 17.
Guider, Cloth. J. D. Robertson. 2,422,369 ; June 17.
Gun barrel straightness testing apparatus. F. G. du Pont. 2,422,294 ; June 17.
Gyroscope caging device. T. O. Summers, Jr. 2,422,267 ; June 17.
Halter. H. Masbruch. 2,422,308 ; June 17.
Hanger : *See*—
  Garment hanger.
Harvesting, topping, trimming, and cleaning machine, Beet. F. Braun. 2,422,524 ; June 17.
Heat to ironing machines, Applying. F. W. Grantham. 2,422,481 ; June 17.
Heater and grill, Combined space. G. Van Daam. 2,422,450 ; June 17.
Heating element, Low-temperature. W. B. Driver. 2,422,477 ; June 17.
Heating system. L. W. Burch. 2,422,526 ; June 17.
Helicopter. R. C. Sights. 2,422,441 ; June 17.
Hobbyhorse. A. J. Fleury. 2,422,347 ; June 17.
Holder : *See*—
  Electrode holder.
  Necktie knot holder.
  Plate holder.
  Tool holder.
Holder for etching electrodes. F. B. Squires. 2,422,265 ; June 17.
Holder for polishing machines, Work. J. J. Manderscheid, J. Ratkovich, and V. Kovacic. 2,422,430 ; June 17.
Honing method and apparatus. M. C. Hutto. 2,422,418 ; June 17.
Hook : *See*—
  Quick release hook.
Hose guide, Swinging. O. D. Hitt. 2,422,353 ; June 17.
Hotbox signal. J. P. Reynolds. 2,422,211 ; June 17.
Humidifier for carburetors. A. Gazda. 2,422,402 ; June 17.
Hydrocarbon fuels. W. A. Proell. 2,422,566 ; June 17.
Hydrocarbon mixtures, Refining. F. Martin, W. Gottschall and H. Velde. 2,422,627 ; June 17.
Hydrocarbons, Alkylation of. F. E. Frey. 2,422,349 ; June 17.
Hydrocarbons, Condensation of. W. A. Smith. 2,422,443 ; June 17.
Ice creeper. M. Bozek. 2,422,335 ; June 17.
Illuminated apparatus, Animated. J. Golba. 2,422,540 ; June 17.
Illumination for typewriters. R. A. Gordon. 2,422,406 ; June 17.
Impact testing. C. R. Stock and V. C. Taxwood. 2,422,317 ; June 17.
Impression composition, Dental. S. E. Noyes. 2,422,497 ; June 17.
Impulse repeater, Distortion correcting. H. J. McCreary. 2,422,309 ; June 17.
Index milling machine. W. Hoier. 2,422,414 ; June 17.
Indicator : *See*—
  Range indicator.
Indicator system, Electronic. W. A. Miller. 2,422,361 ; June 17.
Induction heating apparatus with rotatable work conveyor. V. A. Hutchinson. 2,422,417 ; June 17.
Instrument for measuring cutaneous sensitivity. S. H. Bartley. 2,422,520 ; June 17.
Instrument, Stereoscopical. H. S. Alexander. 2,422,384 ; June 17.
Instrument, Stringed. J. W. McBride. 2,422,360 ; June 17.
Insulator, Leading-through. B. Hansson and T. Ljungberg. 2,422,546 ; June 17.
Internal-combustion engine. H. H. Harmon. 2,422,238 ; June 17.
Internal-combustion engine. A. E. Osborn. 2,422,364 ; June 17.
Ionic analyzer, Differential. R. V. Seaman. 2,422,264 ; June 17.
Isomerization process. G. L. Farrar. 2,422,346 ; June 17.
Isomerization process. O. Gerbes. 2,422,233 ; June 17.
Joint : *See*—
  Expansion joint.
  Safety joint.
Key case. E. J. Plaud. 2,422,436 ; June 17.
Knitting machine, Electronically controlled. W. Larkin. 2,422,568 ; June 17.
Ladder counterbalancing apparatus. H. J. Troche and A. J. Farrar. 2,422,507 ; June 17.
Lamp : *See*—
  Multiflash lamp.
Lamp adaptor, Electric bipost. T. E. Carroll. 2,422,222 ; June 17.
Leveling device for cable-tool drills. K. E. Reischl. 2,422,210 ; June 17.
Lifting and lowering device for motor vehicles, Window. W. S. Wiseman. 2,422,456 ; June 17.
Light beam divider. A. F. Turner and R. B. Horsfall, Jr. 2,422,376 ; June 17.
Limb construction, Artificial. B. Horn. 2,422,302 ; June 17.
Lining, Removable slipper and shoe. A. Gross. 2,422,410 ; June 17.
Liquid from solids by rotatably mounted means, Method and apparatus for separating. T. Bartholomew. 2,422,464 ; June 17.
Liquid treatment with auxiliary flow of liquid to suspend and preserve a sludge blanket. F. D. Prager. 2,422,258 ; June 17.
Locating system, Object. N. W. Bryant. 2,422,182 ; June 17.
Lock : *See*—
  Master key cylinder lock.
Lock for suction cleaners, Handle. E. J. Balluff. 2,422,216 ; June 17.
Lock lubricator. J. A. Connell. 2,422,224 ; June 17.
Lubricant. T. H. Rogers, R. W. Watson, and J. W. Starrett. 2,422,585 ; June 17.
Lubricants, etc., containing waxy hydrocarbons and a ketone-aromatic condensation product as wax modifier. E. Lieber and A. F. Cashman. 2,422,247 ; June 17.
Lubricants, Preparation of. J. M. Musselman and H. P. Lankelma. 2,422,630 ; June 17.
Lubricating composition. A. T. Knutson and E. F. Graves. 2,422,243 ; June 17.
Lubricator : *See*—
  Lock lubricator.
Machine for coating insulators. E. H. Fischer. 2,422,537 ; June 17.
Machine for making grommets. W. M. Lee. 2,422,200 ; June 17.
Machine for making tubular parts from strip material. A. Viehweger. 2,422,272 ; June 17.
Magnetic shell assembly, Hollow. F. N. Jacob and M. J. Kirk. 2,422,303 ; June 17.
Magnetostrictive elements, Tuning. A. E. Lane. 2,422,425 ; June 17.
Magnetron, High-frequency. R. J. Bondley. 2,422,465 ; June 17.
Mandrels, Making. S. D. Poliacek. 2,422,500 ; June 17.
Manicuring implement. R. Nalpantian. 2,422,207 ; June 17.
Marble making machine. O. G. Hanlon. 2,422,413 ; June 17.
Master key cylinder lock. G. E. Swanson. 2,422,600 ; June 17.
Measuring apparatus, Distance. H. T. Winchel. 2,422,382 ; June 17.
Measuring table. H. Becker and H. Broschke. 2,422,611 ; June 17.
Mechanism for railway trucks and the like, Stabilizing. H. E. Tucker. 2,422,638 ; June 17.
Mechanism for retracting and automatically locking undercarriages of aircraft. J. Martin. 2,422,576 ; June 17.
Metallic surface layers, Production of. M. Auwärter. 2,422,609 ; June 17.
Microhardness testing instrument. H. Riepert and H. Broschke. 2,422,634 ; June 17.
Mine anchor-line cutter. R. Temple. 2,422,506 ; June 17.
Mining machine. M. S. Moore. 2,422,645 ; June 17.
Molybdenum oxide catalyst, Preparation of an alumina. A. E. Smith and O. A. Beeck. 2,422,372 ; June 17.
Mortising gauge. H. Quigley. 2,422,367 ; June 17.
Motor : *See*—
  Adjustable step-by-step motor.
  Adjustably mounted motor.
Mount, Engine. A. G. Dean. 2,422,397 ; June 17.
Mount, Engine. M. Watter and G. W. Pancoe. 2,422,452 ; June 17.
Mounting : *See*—
  Switch box mounting.
Mounting for combustion chambers, Fuel injector. C. A. Meyer and A. H. Redding. 2,422,214 ; June 17.
Multiflash lamp. H. H. Magdsick. 2,422,428 ; June 17.
Multiple processing frame. D. Mako and R. H. George. 2,422,307 ; June 17.
N-methylamides, Production of. M. W. Farlow. 2,422,400 ; June 17.
N-(2-hydroxy-ethyl)-ethylenediamine disalt of 2.6-dinitro-4-cyclohexyl-phenol. J. N. Hansen and F. B. Smith. 2,422,544 ; June 17.
Necktie. J. E. Johnson. 2,422,419 ; June 17.
Necktie knot holder. S. B. Bankson. 2,422,463 ; June 17.
Needle. L. F. Thompson. 2,422,269 ; June 17.

Network, Frequency responsive. R. S. Yeandle. 2,422,513 ; June 17.
Nitrogen and oxygen, Recovery of. F. Koehler. 2,422,626 ; June 17.
Nitrogenated cephalin, Making. E. Trueger and B. S. Sprague. 2,422,321 ; June 17.
Nitrogenous fibers with pre-metalized dyes and aldehydes, Dyeing. G. L. Royer and C. A. Amick. 2,422,586 ; June 17.
Oil burner. H. M. Reeves and L. F. Vixler. 2,422,209 ; June 17.
Oil composition, Lubricating. D. W. Young and J. D. Calfee. 2,422,278 ; June 17.
Oil, Compounded lubricating. L. A. Mikeska. 2,422,276 ; June 17.
Oil, Compounded lubricating. C. Winning and D. T. Rogers. 2,422,275 ; June 17.
Oil-polyvinyl acetal compositions, Drying. B. C. Pratt. 2,422,259 ; June 17.
Pail, Milk. R. J. Gooden. 2,422,541 ; June 17.
Paint composition, Matt black. J. D. Main-Smith and E. C. Jones. 2,422,429 ; June 17.
Paper and the like, Method of and apparatus for making tube of. H. T. Epstein. 2,422,188 ; June 17.
Paper sheet handling method and mechanism. O. Müller and O. Kleinschmit. 2,422,629 ; June 17.
Paper, Treatment of. H. M. Kvalnes. 2,422,423 ; June 17.
Parachute and elastic suspension line. S. W. Severance. 2,422,440 ; June 17.
Paste for electric storage battery plates, Preparing. W. J. Plews and B. Chiego. 2,422,437 ; June 17.
Patterns and forging dies, Making. O. A. Wheelon. 2,422,325 ; June 17.
Pedestal structure. S. H. Frankel. 2,422,297 ; June 17.
Pen and pencil retainer. F. E. Hornbeck. 2,422,642 ; June 17.
Pen, Fountain. B. W. Hanle. 2,422,351 ; June 17.
Periscopic bore sight. L. H. Brown. 2,422,181 ; June 17.
Pessary. C. C. Waterbury. 2,422,377 ; June 17.
Petroleum emulsions, Breaking. C. M. Blair, Jr. 2,422,177 ; June 17.
Photographic retouching device. H. L. R. Adams. 2,422,174 ; June 17.
Pinacols, Electrolytic production of. T. S. Chambers and O. C. Slotterbeck. 2,422,468 ; June 17.
Pipe end forming machine. E. S. Christensen. 2,422,338 ; June 17.
Pipe fitting. C. D. Stewart. 2,422,597 ; June 17.
Piston, Electric. C. H. Morrow. 2,422,495 ; June 17.
Piston rings, Making. A. E. Melrose. 2,422,431 ; June 17.
Pivoted member. W. H. Baselt. 2,422,521 ; June 17.
Plate for dimension gaging and assorting machines, Adjustable inspector. J. A. Cook. 2,422,291 ; June 17.
Plate holder. C. Richards. 2,422,261 ; June 17.
Plug : *See*—
  Electric plug.
Polishing instrument for metal musical strings. J. Miller. 2,422,581 ; June 17.
Polyisocyanate modified polyester-amides. G. T. Vaala and C. E. Frank. 2,422,271 ; June 17.
Power control, Dual pneumatic. R. R. Stevens. 2,422,596 ; June 17.
Power-driven reciprocating cutter. A. L. Candland. 2,422,221 ; June 17.
Power element, Compensated. J. C. Osborn. 2,422,365 ; June 17.
Power transmission belts, Making. T. W. Steinke. 2,422,266 ; June 17.
Preset control. W. H. Troemel. 2,422,320 ; June 17.
Press : *See*—
  Shoe press.
Pressure control valve. H. Hansen and L. Seefeldt. 2,422,237 ; June 17.
Projectile. H. J. Nichols. 2,422,559 ; June 17.
Propeller, Adjustable pitch. W. H. Korff. 2,422,558 ; June 17.
Propeller, Airplane. A. W. Billings. 2,422,388 ; June 17.
Pulp from cellulosic material, Production of. J. B. Beveridge and R. D. Kehoe. 2,422,522 ; June 17.
Pulse generating receiver for coded carrier signals. J. M. Francis and A. B. Armistead. 2,422,231 ; June 17.
Pump : *See*—
  Centrifugal pump.
Pump surfaces, Protection of. D. V. Haarhoff. 2,422,412 ; June 17.
Purifying apparatus and indicator, Lubricant. S. D. Perlman. 2,422,498 ; June 17.
Pyrometer, Lens type radiation. W. H. Wannamaker, Jr. 2,422,273 ; June 17.
Quick release hook. W. G. Moore. 2,422,363 ; June 17.
Radio apparatus, Lining up unicontrolled tuned. S. Y. White. 2,422,381 ; June 17.
Radio-frequency electric field bonding apparatus. G. H. Brown and R. A. Bierwirth. 2,422,525 ; June 17.
Radio program selector, Automatic. G. R. Pennington. 2,422,253 ; June 17.
Radio reception means. F. C. Strebe and W. L. Comyns. 2,422,374 ; June 17.
Radius forming tool. E. H. Zimmer. 2,422,279 ; June 17.
Range indicator. L. A. Meacham. 2,422,204–5 ; June 17.
Ratio indicating instrument, Electrical. H. D. Jackes. 2,422,240 ; June 17.
Ratio mechanism, Unitary variable. D. Heyer. 2,422,196 ; June 17.
Reactance tube controlled generator. N. I. Korman. 2,422,422 ; June 17.
Receptacle : *See*—
  Cigarette receptacle.
Recorder and reproducer for spiral photographic disk sound recorders. J. J. Dilks, Jr. 2,422,398 ; June 17.
Recorder for radio locators. T. T. Eaton. 2,422,295 ; June 17.
Reflector for electromagnetic radiators. C. E. McClellan. 2,422,579 ; June 17.
Reflector, Low level. D. F. Welch. 2,422,378 ; June 17.
Refractory material, Vitreous coating. C. R. Amberg and H. C. Harrison. 2,422,215 ; June 17.
Refrigerator port for dispensing container and closure therefor. E. S. Gross. 2,422,350 ; June 17.
Register selecting mechanism. M. Demeulenaere. 2,422,186 ; June 17.
Regulating means for washing machine agitators. V. Hanson. 2,422,545 ; June 17.
Regulating system. H. C. Jenks. 2,422,551 ; June 17.
Regulator : *See*—
  Furnace electrode regulator.
Reinforced contact clip. J. W. Samzelius. 2,422,589 ; June 17.
Relay, Balanced. R. S. Curry, Jr., J. H. Horman, A. C. Kircher, and H. Winsker. 2,422,396 ; June 17.
Remote-control means for speed change mechanism. W. Trible. 2,422,448 ; June 17.
Resilient metal wheel. E. H. Piron. 2,422,366 ; June 17.
Resinous condensation product of phenol and styrene oxide. C. A. Thomas. 2,422,637 ; Jun[illegible]
Resinous enteresterification product made [illegible] hydroxylated fatty oil. E. A. Lasher. 2,422,356 ; June 17.
Rinse compositions. F. T. Peters. 2,422,255 ; June 17.
Riser for bubble cap trays H. C. Glitsch. 2,422,300 ; June 17.
Rooter. R. G. Le Tourneau. 2,422,490 ; June 17.
Rotary cutting tool. E. G. Goehle. 2,422,404 ; June 17.
Rotary filter. H. G. Smith. 2,422,373 ; June 17.
Rotary machine. F. J. Young. 2,422,383 ; June 17.
Rubber, Treating. W. A. Gordon. 2,422,480 ; June 17.
Rule, Slide. J. R. Bland. 2,422,649 ; June 17.
Safety joint. W. L. Church. 2,422,223 ; June 17.
Safety means for cranes. L. Alfano. 2,422,329 ; June 17.
Safety mechanism. B. Cyr. 2,422,471 ; June 17.
Saw blade. H. A. Pavitt. 2,422,561 ; June 17.
Scanning and control system, Facsimile. A. C. Rustad. 2,422,587 ; June 17.
Sealing device. F. L. D. Lord. 2,422,248 ; June 17.
Self-quiz device. C. Lorber. 2,422,491 ; June 17.
Self-righting dump car. P. Anderson. 2,422,283 ; June 17.
Separator : *See*—
  Gas separator.
Separator divided by partitions into inlet, intermediate, and outlet section, Drum-shaped oil. C. B. Karlson, S. G. Benham, and W. A. Gehle. 2,422,555 ; June 17.
Sewing mechanism. M. Pedersen. 2,422,208 ; June 17.
Sheets and the products obtained, Producing. E. G. Waltman. 2,422,323 ; June 17.
Shelling, shredding, and separator machine, Corn. J. A. Erickson. 2,422,399 ; June 17.
Shoe, Film. O. R. Nemeth. 2,422,310 ; June 17.
Shoe press. P. Brauner. 2,422,390 ; June 17.
Shoe, Welt. D. Morein. 2,422,494 ; June 17.
Signal : *See*—
  Hotbox signal.
Signal flare. J. A. and E. Gearon. 2,422,403 ; June 17.
Sinker head for full-fashioned knitting machines. W. M. Golaszewski and A. Kaczor. 2,422,479 ; June 17.
Skate and sandal, Combined. B. Ferrar. 2,422,228 ; June 17.
Slide rule. H. M. Kaufman. 2,422,421 ; June 17.
Sludge arranged at different levels and apparatus therefor, Digesting. R. B. Carter, Jr. 2,422,394 ; June 17.
Sluice box with water distribution pipes. J. P. Smith. 2,422,442 ; June 17.
Solids in liquid suspension, Specific gravity separation of. H. L. McNeill. 2,422,203 ; June 17.
Solvent extraction. W. W. Crouch. 2,422,341 ; June 17.
Solvent for degreasing iron and aluminum. W. Klabunde. 2,422,556 ; June 17.
Spark gap device. W. W. Watrous, Jr. 2,422,324 ; June 17.
Speed control device. M. J. Duer. 2,422,343 ; June 17.
Speed control means for hydraulically operated machine tools, Feed. R. G. Le Tourneau. 2,422,357 ; June 17.
Speed mechanism, Variable. G. F. Laing. 2,422,306 ; June 17.
Spout for sintering machines, Swinging. M. L. Cover. 2,422,470 ; June 17.
Stalk cutter. W. H. Greenroyd. 2,422,409 ; June 17.
Stand with memoranda paper supply, Calendar. H. G. Davis. 2,422,474 ; June 17.
Strapping machine. A. M. Kamper and S. Parkes. 2,422,643 ; June 17.
Streptothricin, Production of. J. W. Foster and H. B. Woodruff. 2,422,230 ; June 17.

Support: *See—*
  Adhesive temporary support.
  Third rail support.
Switch: *See—*
  Tap-changing switch.
Switch box mounting. E. G. Johansson and A. A. Young. 2,422,553; June 17.
Table: *See—*
  Measuring table.
Taeniacidal mixture. J. E. Guthrie. 2,422,411; June 17.
Tap-changing switch. S. L. Christie. 2,422,339; June 17.
Telemetering system. J. Razek. 2,422,313; June 17.
Telephone system, Intercommunicating. W. T. Powell. 2,422,565; June 17.
Television synchronizing signal generator. C. E. Hallmark. 2,422,236; June 17.
Temperature responsive control mechanism. L. J. Koci. 2,422,199; June 17.
Testing chamber, Dust storm resistance. L. A. Brewster. 2,422,179; June 17.
Testing device, Gas purity. E. J. Weber. 2,422,604; June 17.
Tetrachlor succinonitrile and producing it. O. W. Cass and H. B. Copelin. 2,422,528; June 17.
Third rail support. W. F. Walker. 2,422,509; June 17.
Ticket applying machine. E. C. Hake. 2,422,543; June 17.
Timber, Seasoning. A. M. Kobiolke. 2,422,557; June 17.
Tire loosening tool. W. R. Carroll. 2,422,467; June 17.
Tool: *See—*
  Assembling tool.
  Radius forming tool.
  Rotary cutting tool.
  Tire loosening tool.
Tool holder. J. W. Thomas. 2,422,375; June 17.
Toy house, Knockdown. M. F. Barnes. 2,422,217; June 17.
Track construction, Endless. F. L. Haushalter. 2,422,483; June 17.
Tractor and trailing plow connections, Releasable power-operated. F. T. Court. 2,422,530; June 17.
Transformer for wave guides, Impedance. A. G. Fox. 2,422,191; June 17.
Transmission apparatus with compensating means for unequal motor volumes, Closed hydraulic. F. Biszantz. 2,422,389; June 17.
Transmitter, Frequency modulated. G. L. Usselman. 2,422,449; June 17.
Trap: *See—*
  Animal trap.
  Bullet trap.
Tray, Freezing. W. Dalton. 2,422,473; June 17.
Triaryl-methane dyestuffs, Recovering. H. I. Stryker and R. O. Heuse. 2,422,445; June 17.
Tridecyl sulphates, Normal secondary. E. E. Dreger and J. Ross. 2,422,613; June 17.
Truck. L. A. Lehrman. 2,422,201; June 17.
Truck and unloading apparatus, Coal. J. W. Symonds. 2,422,268; June 17.
Truck, Pallet. H. J. Framhein. 2,422,538; June 17.
Tube: *See—*
  Dissector tube.
Tube system, Conductance-responsive electron. F. B. MacLaren, Jr., and F. H. Shepard, Jr. 2,422,574; June 17.
Tubing, Progressively welding axially moving. W. Kopec. 2,422,305; June 17.
Tubular fabric, Method and apparatus for producing. M. A. Goldman. 2,422,234; June 17.
Tuning structure, High-frequency. M. V. Weiss. 2,422,454; June 17.
Turbine blading, Making cast. F. T. Hague. 2,422,193; June 17.
Ultra high frequency coupling circuit. D. R. Tashjian. 2,422,601; June 17.
Undercarriages for aircraft, Retractable. J. Martin. 2,422,577; June 17.
Value device in a sighting instrument, Median. E. F. Flint. 2,422,348; June 17.
Valve: *See—*
  Electromagnetic reset valve.
  Pressure control valve.
Vapor electric device. F. E. Marsh and L. A. Casanova. 2,422,575; June 17.
Vapor generator. J. Blizard. 2,422,178; June 17.
Varnish and making the same. L. Auer. 2,422,175; June 17.
Vessel handle assembly. J. B. Ward. 2,422,510; June 17.
Vibrating device. H. S. Wenander. 2,422,639; June 17.
Vinyl compounds with rubber, Polymerization of. R. A. Jacobson. 2,422,550; June 17.
Vitamin B_6 intermediates. S. A. Harris. 2,422,617–21; June 17.
Vitamin B_6 intermediates and preparing the same. S. A. Harris. 2,422,616; June 17.
Vitamin B_6, Synthesis of. S. A. Harris. 2,422,195; June 17.
Vitamin B_6, Synthesis of. S. A. Harris. 2,422,622; June 17.
Wall construction, Furnace. S. N. and W. B. Levy. 2,422,571; June 17.
Wallet and card case, Combined. E. F. Miller. 2,422,432; June 17.
Wheel: *See—*
  Resilient metal wheel.
Wheelbarrow, Collapsible. C. H. Bates. 2,422,331; June 17.
Wheel dresser, Diamond. E. Brocker. 2,422,220; June 17.
Wheel spoke nut driving machine. L. A. Smith. 2,422,593; June 17.
Wide range variable frequency generator. V. D. Landon. 2,422,424; June 17.
Winch. J. H. Wilson. 2,422,274; June 17.
Window blind structure. M. Green. 2,422,407; June 17.
Wiper, Oil gauge. H. B. Wright. 2,422,512; June 17.
Wire drawing dies, Making. N. Borne. 2,422,612; June 17.
Wrapping mechanism. O. Fregeolle. 2,422,232; June 17.
Xylidine and toluene, Production of. R. M. Hill. 2,422,485; June 17.
Xylidine, Stabilized. W. A. Herbst. 2,422,484; June 17.
Yarn guide. E. A. Feustel. 2,422,535; June 17.
Yarn take-up. E. St. Pierre. 2,422,599; June 17.

CLASSIFICATION OF PATENTS

ISSUED JUNE 17, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1—	48:	2,422,641
2—	14:	2,422,287
		2,422,534
	131:	2,422,219
	145:	2,422,419
	153:	2,422,463
	250:	2,422,642
3—	12:	2,422,302
8—	43:	2,422,586
9—	6:	2,422,183
	45:	2,422,363
12—	33:	2,422,390
15—	210:	2,422,512
17—	11.1:	2,422,608
18—	12:	2,422,480
	47:	2,422,497
	47.5:	2,422,323
	59:	2,422,266
		2,422,461
19—	130:	2,422,444
20—	68:	2,422,607
22—	36:	2,422,290
23—	143:	2,422,499
	262:	2,422,185
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	288:	2,422,262
24—	81:	2,422,332
	195:	2,422,459
	221:	2,422,289
		2,422,304
26—	66:	2,422,369
28—	74:	2,422,529
29—	33:	2,422,282
	48:	2,422,375
	103:	2,422,404
	156.8:	2,422,193
	235:	2,422,549
30—	168:	2,422,202
	272:	2,422,221
31—	50:	2,422,541
33—	70:	2,422,348
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36—	10:	2,422,410
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	61:	2,422,335
37—	186:	2,422,523
38—	56:	2,422,481
	79:	2,422,505
40—	135:	2,422,256
41—	33:	2,422,387
42—	17:	2,422,301
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43—	85:	2,422,602
44—	66:	2,422,566
	72:	2,422,515
46—	19:	2,422,217
47—	61:	Pl.Pt.739
48—	38:	2,422,225
	216:	2,422,623
49—	14:	2,422,413
	17:	2,422,640
	55:	2,422,466
	92:	2,422,472
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62—	108.5:	2,422,473
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66—	56:	2,422,568
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114—	221:	2,422,506
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117—	47:	2,422,215
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212—	1:	2,422,329
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220—	26:	2,422,322
222—	126:	2,422,263
223—	91:	2,422,493
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224—	47:	2,422,235
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	54:	2,422,452
	102:	2,422,576
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	134:	2,422,624
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248—	5:	2,422,397
	33:	2,422,261
	123:	2,422,311
	194:	2,422,297
250—	1.54:	2,422,333
		2,422,334
	1.62:	2,422,182
		2,422,295
	1.66:	2,422,204
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		2,422,382
	11:	2,422,184
		2,422,361
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	13:	2,422,190
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	40:	2,422,257
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	165:	2,422,427
252—	32.7:	2,422,206
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	172:	2,422,556
	211.5:	2,422,372
	311:	2,422,486
	341:	2,422,177
254—	93:	2,422,210
	187:	2,422,274
255—	23:	2,422,383
259—	1:	2,422,639
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	140:	2,422,359
	239:	2,422,578
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		2,422,620
		2,422,621
	297.5:	2,422,195
		2,422,622
	333:	2,422,625
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	345:	2,422,435
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	396:	2,422,229
	399:	2,422,630
	403:	2,422,321
	459:	2,422,613
	464:	2,422,528
	526:	2,422,246
	540:	2,422,504
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	558:	2,422,598
	561:	2,422,632
	567.5:	2,422,544
	578:	2,422,484
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	580:	2,422,485
	583:	2,422,631
	637:	2,422,453
	654:	2,422,252
	668:	2,422,318
	683.4:	2,422,349
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261—	99:	2,422,402
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262—	8:	2,422,490
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263—	19:	2,422,213
266—	23:	2,422,338
268—	124:	2,422,456
271—	2.3:	2,422,310
272—	52:	2,422,347
273—	102.4:	2,422,284
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	11.19:	2,422,228
	42:	2,422,298
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	44:	2,422,538
285—	25:	2,422,597
	146:	2,422,223
	162:	2,422,502
286—	37:	2,422,248
294—	27:	2,422,510
	73:	2,422,283
297—	9:	2,422,365
299—	20:	2,422,487
305—	10:	2,422,483
306—	13:	2,422,216
309—	18:	2,422,327
312—	10:	2,422,594
	62:	2,422,474
	84:	2,422,478
	186:	2,422,350
314—	61:	2,422,362
	75:	2,422,539
315—	99:	2,422,280
	141:	2,422,575
318—	30:	2,422,180
	33:	2,422,448
	77:	2,422,614
	126:	2,422,212
	257:	2,422,476
	331:	2,422,567

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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2,422,215:	117— 47	2,422,275:	252—47.5	2,422,366:	152— 92	2,422,431:	51—285	2,422,505:	38— 79	2,422,614:	318— 77
2,422,234:	154—1.7	2,422,276:	252—42.7	2,422,372:	252—211.5	2,422,435:	260—345	2,422,507:	228— 10	2,422,618:	260—295
2,422,243:	252— 33	2,422,278:	252— 52	2,422,373:	210—201	2,422,448:	318— 33	2,422,527:	183— 75	2,422,628:	148—6.30
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2,422,254:	280— 1	2,422,294:	88— 14	2,422,400:	260—553	2,422,476:	318—257	2,422,567:	318—331	2,422,634:	73— 82

CLASSIFICATION OF DESIGNS

D 3— 4:	Des. 146,952	D33— 7:	Des. 146,939	D34—15:	Des. 146,944	D45—15:	Des. 146,942	D61— 1:	Des. 146,935	D86— 8:	Des. 146,945
	Des. 146,953	D34— 2:	Des. 146,946	D44—15:	Des. 146,940		Des. 146,943	D74— 2:	Des. 146,948	10:	Des. 146,938
D14— 3:	Des. 146,947	15:	Des. 146,934	D45— 9:	Des. 146,936	19:	Des. 146,950		Des. 146,949		Des. 146,951
D17— 6:	Des. 146,937		Des. 146,941								

U. S. GOVERNMENT PRINTING OFFICE: 1947

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE SWEENEY ET AL.

No. 5,238. Decided February 11, 1947

[159 F.(2d) 752; 72 USPQ 501]

PATENTABILITY—METHOD—APPARATUS LIMITATIONS.

Where appealed claims are to a method, a difference in structure of the apparatus used to carry out the method cannot be considered as a patentable limitation in the process.

SAME—SAME—SAME.

"It is well settled that the means employed cannot lend patentability to a claimed method."

SAME—PROCESS FOR CARRYING OUT CATALYTIC REACTIONS.

Certain claims to a process for carrying out catalytic reactions *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

George J. Silhavy (*W. F. Weigester* of counsel) for Sweeney et al.

W. W. Cochran (*E. L. Reynolds* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the Examiner's rejection of all the claims (numbered 1, 6, and 10 to 16, inclusive), of appellants' application for patent, entitled "Chemical Reactions."

The claims relate to a method of carrying out catalytic reactions in oil cracking processes.

Claims 1 and 14 read:

> 1. A method of carrying out catalytic reactions which comprises mixing heated gaseous fluid with divided catalyst particles, passing the resulting mixture generally upwardly through a reaction vessel having a large cross-sectional area, selecting the velocity of the gaseous fluid whereby a relatively high density fluidized liquid-simulating mixture of catalyst and gaseous fluid is obtained, said vessel being provided with spaced horizontally arranged baffles having openings therethrough to permit passage of the mixture, the mixture in passing through said reaction vessel forming turbulent zones between said baffles and said baffles preventing recirculation of catalyst particles from the top of said reaction vessel to the bottom of said reaction vessel.
>
> 14. A method of carrying out reactions which comprises contacting solid subdivided particles with a gaseous medium passing upwardly through a reaction vessel having a large cross-sectional area, selecting the velocity of the upflowing gaseous medium in said vessel to form a dense fluidized, liquid-simulating mixture of solid particles and gaseous medium, passing the mixture generally upwardly through said reaction vessel provided with spaced horizontally extending perforated baffles having openings to provide confined zones of turbulence and permit general upward movement of the solid particles and gaseous medium while eliminating recirculation of the solid particles from the top of said reaction vessel to the bottom thereof.

In his analysis of the claims, the Examiner said:

> Claim 1 calls for a method of carrying out catalytic reactions which comprises mixing heated gaseous fluid with divided catalytic particles, passing the resulting mixture generally upwardly through a reaction vessel having a large cross-sectional area, selecting the velocity of the gaseous fluid whereby a relatively high density fluidized liquid-simulating mixture of catalyst and gaseous fluid is obtained. The claim specifies that the reaction vessel is provided with spaced horizontally arranged baffles having openings therethrough for passage of the mixture. The claim recites that the mixture of catalyst and gaseous fluid forms turbulent zones between the baffles during its passage through the reaction vessel. It is further specified in the claim that the baffles prevent recirculation of catalyst particles from the top to the bottom of the reaction vessel.
>
> * * * * * * *
>
> Claim 6 differs from claim 1 by being restricted to catalytic conversion of hydrocarbons from higher to lower molecular weight hydrocarbons. The claim also adds that the products of the conversion in vapor form and solid catalyst particles are conducted away from the reaction vessel and the catalyst particles are separated from the vapors.
>
> * * * * * * *
>
> Claim 10 differs from claim 6 in statements of function such as the statement "that the horizontal extending baffles prevent undesirable recirculation of the catalyst particles from the top to the bottom of the cracking zone."
>
> * * * * * * *
>
> Claim 11 adds to claim 10 that the catalyst particles from the cracking step which are fouled and contain burnable deposits are mixed with oxygen and passed through a regeneration zone wherein the burnable deposits are burned off from the catalyst and the thus regenerated catalyst is returned to the cracking zone. Claim 11 also recites that the regeneration zone contains spaced horizontally extended partitions such as have been described in connection with the reaction zone. These horizontal partitions perform the same function in the regeneration zone as in the reaction zone.
>
> * * * * * * *
>
> Claim 12 adds to claim 10 that the solid particles comprise powdered clay and that the dense mixture in the cracking zone has a density of about 15 to 25 pounds per cubic foot.
>
> * * * * * * *
>
> Claim 13 is drawn to the step of regenerating solid subdivided contact particles and is similar in that respect to claim 11.
>
> * * * * * * *
>
> Claim 14 is broader than any claim previously discussed in that it is not limited to any particular reaction and in that the solid particles are not said to be catalytic in nature.
>
> * * * * * * *
>
> Claim 15 adds to claim 14 that the catalyst particles are fouled with burnable deposits and that the gaseous medium contains oxygen.
>
> * * * * * * *
>
> Claim 16 is somewhat similar to claim 10 but adds thereto the step of withdrawing vapors and catalyst particles from the reaction zone and purging the withdrawn catalyst particles with a stripping gas to remove volatile hydrocarbons therefrom.

The prior art cited consists of two patents, viz.: Osterstrom et al., 1,873,783, August 23, 1932; Goddin, 2,302,209, November 17, 1942.

While all the claims are method claims, the drawings disclose an apparatus by means of which the method may be practiced and this was used by the Examiner and is also used in the brief for appellants before us in giving a step by step description of the process. There is no material difference between the two descriptions, and the following is in the nature of a paraphrase of the two:

Hydrocarbon vapors and gases are introduced into a "dispersion" chamber through a pipe line.

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PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

Through another pipe line a catalyst (such as a suitable clay) which has been reduced to "powdered form" is introduced into the "dispersion" chamber. In the "dispersion" chamber the hydrocarbon vapors and gases become mixed with the powdered catalyst. From the "dispersion" chamber the mixture passes through pipes into a "reaction" chamber which contains equally-spaced, perforated baffles, arranged horizontally, and then passes to the upper end of the "reaction" chamber. From the "reaction" chamber the mixture passes through a pipe into a "cyclone separator" in which there is equipment to effect separation of the vaporous products from the catalyst particles. The catalyst particles are withdrawn through a pipe into a "regenerator" chamber where, by means of air admitted through a pipe, the carbon which has accumulated on the particles in the previous steps of the process is burned off, some traces of oxygen, however, being left. The "regenerator" chamber, like the "reaction" chamber is supplied with equally-spaced, perforated baffles, horizontally arranged. The gases together with the "regenerated" (that is cleaned of carbon) catalyst particles pass out through a pipe extending from the top of the regenerator chamber to another "cyclone separator." From that separator the gases pass, through a pipe, to a receptacle from which they are withdrawn for use as desired, the catalyst particles remaining in the separator. Steam is admitted into the separator in order to "purge" the catalyst particles of the traces of oxygen remaining after the step of burning off the carbon. The "regenerated" particles are then withdrawn from the "cyclone separator" and returned to the beginning point for re-use in another cracking operation.

It appears that when the mixture is passed through the "reaction" chamber the catalyst particles are suspended in the upflowing gaseous fluid and the velocity of the upflowing vapors maintains the particles in a "fluidized" condition so that the mixture is turbulent and mobile and "assumes the appearance of a liquid and can be handled like a liquid."

In the brief for appellants (referring to the perforated baffles in the reaction vessel) it is said (omitting the numerals as indicated by stars):

> These perforated baffles while permitting upward movement of the vapors and particles prevent recirculation of the catalyst particles from the top portion of the reaction of vessel * * * to the bottom thereof and also reduce the extreme turbulence and mixing which has certain disadvantages as above pointed out. Turbulence and eddy currents and good mixing exist in spaced zones in the reaction vessel * * *. These zones are restricted to the spaced between the baffles. The solid particles are maintained as layers of fluidized, liquid-like mixtures on each of the baffles or partitions * * *. The vapors and solid particles pass upwardly through the reaction vessel * * *. The perforated baffles act as separating means between the zones and it is to be noted that each baffle has a plurality of openings and the baffles are not relied upon as mixing means.

The basic reference is the patent to Goddin which, as recited, in substance, in the brief of the Solicitor for the Patent Office, discloses a catalytic hydrocarbon conversion system in which oil vapors passed from a furnace are mixed with a powdered catalyst supplied through a valve. The mixture passes through a pipe into the bottom of a reactor vessel. The catalyst material may be a clay such as bentonite and the density of the oil and catalyst mixture in the reactor may be about 13 pounds per cubic foot. The mixture passes upwardly through the reactor to a separator and, after separation, the catalyst is mixed with air and passed through a regenerator which is quite similar in construction to the regenerator of appellants. The coating of carbon which forms on the catalyst in the reactor is burned off in the regenerator and the catalyst is then ready for re-use.

From the foregoing, it is apparent that the method steps outlined by appellants are quite similar to those outlined in the Goddin patent. The Goddin patent, however, does not disclose the structural feature of baffles, nor any equivalent thereof. The "baffles" feature, stated in terms of structure, together with the function of the baffles—that is their effect on circulation—is embraced in claims 1 and 11, and at least implied in other of the claims.

In our decision in the case of *In re Freeman et al.*, 27 C. C. P. A. (Patents) 795, 797, 108 F.(2d) 244, 44 USPQ 116, we said, citing authorities, "It is well settled that the means employed cannot lend patentability to a claimed method." The Board applied this well settled rule in the instant case, saying:

> It is * * * noted that the claims here on appeal are method claims and that the difference in structure of the apparatus used to carry out the method cannot be considered as a patentable limitation in the process.

We think the rule is applicable and this might be regarded as dispositive of the case so far as the baffles feature is concerned, but in addition we take note of the fact that the other reference patent—that to Osterstrom et al.—discloses the availability of baffles for use in an oil treating process in which oil vapors from a furnace pass through a pipe where they become mixed with a catalyst consisting of powdered clay introduced from a hopper, the mixture so formed entering the bottom of a "contact" chamber and passing upwardly through it and thence into other chambers where finally the catalyst is regenerated—that is the particles are cleaned of carbon so that they are ready for catalytic re-use.

The specification in the Osterstrom et al. patent, after describing what we suppose may be regarded as a preferred method, states:

> While there has been specifically described a particular type of contact vessel which may be used in carrying out the invention, nevertheless it may be understood that other types of vessels may also be utilized. For example, as shown in Figure 4, pipe sections 10*a* may be employed, flanged on both ends with orifice plate 10*b* inserted between each pipe section. Again, the mixing may be secured by means of an ordinary cylinder with sufficient obstructions *in the form of baffle plates or similar devices* placed in the cylinder so that a violent swirling action will take place, providing the contact which is desired. [Italics ours.]

The orifice plate so referred to is clearly shown in Fig. 4 of the Osterstrom et al. patent drawings and it is arranged horizontally.

The brief of the Solicitor for the Patent Office aptly states:

> The function of baffles in retarding fluid flow and producing turbulence is universally understood and it is an obvious expedient to employ baffles wherever it is desired to obtain the conditions which they are known to produce. Further, Osterstrom discloses the use of baffles in a contact device exactly corresponding to the reactor of Goddin, and explains that such baffles will produce "a violent swirling action." The exact form of baffle used is immaterial especially in a process claim, but Osterstrom shows, in Fig. 4, a baffle consisting of a plate having one opening, and there would clearly be no invention in using more openings or more plates, especially in view of the patentee's broad reference to the use of "baffle plates or similar devices." Claim 1 therefore, calls for nothing more than a modification of Goddin's reactor which would be obvious in view of Osterstrom and which would produce no new or unexpected result.

We think it clear that claim 1 was properly rejected on the Goddin patent in view of the Osterstrom et al. patent, and we do not find any limitation in any other of the appealed claims which would render it patentable independently of claim 1. The Examiner discussed in detail the limitations which we have quoted from his statement, supra, and rejected all the other claims for the same reasons given for his rejection of claim 1, the opinion being also expressed that the broad claim 14 is substantially met by the Osterstrom et al. patent taken alone.

We do not understand that counsel for appellants insist that the other claims are allowable unless claim 1 be held allowable, but we have carefully considered the analysis made of them in appellants' brief. It is not deemed necessary to here analyze the claims further or discuss them in detail.

We are not convinced that the Board erred in affirming the Examiner's rejection of all the claims, and its decision is affirmed.

Affirmed.

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Hereby enters this disclaimer to claims 1 and 2 of said patent.

2,360,707—*Ilia E. Mouromtseff*, Montclair, and *George M. Dinnick*, Bloomfield, N. J. ELECTRON DISCHARGE DEVICE. Patent dated Oct. 17, 1944. Disclaimer filed May 16, 1947, by the assignee, *Westinghouse Electric Corporation.*

Hereby enters this disclaimer to claim 3 in the specification.

2,392,467.—*George C. Engel*, Ridgewood, N. J., *Leslie S. Lynch, Jr.*, Flushing, N. Y., and *Frank L. Eidmann*, deceased, late of Princeton, N. J., by *Ethel I. Eidmann*, Executrix, Princeton, N. J. RECORDING DEVICE. Patent dated Jan. 8, 1946. Disclaimer filed May 8, 1947, by the assignee, *General Time Instruments Corporation.*

Hereby enters this disclaimer to claims 1, 2, 30, 36, 37 and 45 of said patent.

Classification Order No. 3

April 30, 1947

The following changes in the classification of inventions are hereby directed to take place immediately.

ESTABLISH CLASS

318—Electricity, Motive Power Systems (Division 26)

Note.—Copies of the subclass titles and of the definitions of this class may be seen in the Search Room and in the Classification Division pending publication.

IN THE MANUAL OF CLASSIFICATION:

CHANGES IN "CLASSES ARRANGED BY EXAMINING DIVISIONS"

Under Division 26, add:
318—Electricity, Motive Power Systems

CHANGES IN "CLASSES ALPHABETICALLY ARRANGED"

After "172, Electricity—motive power", insert:
318—Electricity, Motive Power Systems . . . 26

CHANGES IN "CLASSES NUMERICALLY ARRANGED"

After "316, Electric lamp and discharge devices, manufacture and repair", insert:
318—Electricity, Motive Power Systems . . . 26

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED CLASS AND SUBCLASS

Established		Sources	
Class	*Subclass*	*Class*	*Subclass*
318	all	172	Various: (Particularly 8, 120, 152, 179, 233, 237, 239, 240, 274, 275, 276, 277, 278, 279, 280, 282, 283, 288, 289, 291, 292, 293)

IN THE DEFINITIONS:

4, Baths, Closets, Sinks and Spittoons (Division 1)

in subclass 213, add:

Search Class—

172—Electricity—Motive Power, appropriate subclasses, for electric motor structure.

318—Electricity, Motive Power Systems, appropriate subclasses, for electric motor control systems.

33, Geometrical Instruments (Division 62)

in subclass 226, under "Search Classes", cancel the reference to class 172 and add:

318—Electricity, Motive Power Systems, subclass 18 + for gyroscope actuated follow-up systems of electric motor control and subclass 489 for automatic motor control in response to direction.

40, Card, Picture and Sign Exhibiting (Division 35)

in subclass 53, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 445 + for automatic electric motor starting and stopping systems; subclass 494 + for electric motor starting and stopping by armature circuit control; subclass 521 + for electric motor starting and stopping by field circuit control.

in subclass 54, add:

Search Class—

172—Electricity—Motive Power, subclass 284 for electromagnetic clutches per se.

192—Clutches and Power Stop Control, subclass .01 + for motor control and clutch; subclass 30 + for clutches per se.

51, Abrading (Division 58)

in subclass 134.5, under "Search Class", cancel the reference to class 172 and add:

318—Electricity, Motive Power Systems, subclass 301 + for electric motor running-speed control.

57, Textiles, Spinning, Twisting and Twining (Division 21)

in subclass 100, under "(2) Search Class", add in numerical order:

318—Electricity, Motive Power Systems, appropriate subclasses, for electric motor control systems.

74, Machine Elements and Mechanisms (Divisions 12, 45)

in subclass 395, under "(3) Search Classes," cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 41 + for electrical synchronizing systems.

in subclass 565, under "(2) Search Classes", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclasses 302 +, 336 +, 339 + and 350 + for electric motor running-speed control combinations and subclass 543 + for motor controllers.

88, Optics (Division 7)

in subclass 16.2, under "(3) Search Classes", cancel the reference to class 172, and add in numerical order:

318—Electricity, Motive Power Systems, subclass 41 + for electric motor synchronizing arrangements.

103, Pumps (Division 9)

in subclass 22, cancel (3) Note and substitute:

(3) Note.—Compare class 121, Motors—Expansible Chamber Type, subclass 47 and class 318, Electricity, Motive Power Systems, subclasses 445 +, 494 +, 521 +, and 543 + for starting mechanism provided for in existing classes.

in subclass 25, cancel (1) Note and substitute:

(1) Note.—Starting mechanism for electric motors in which the action is not necessarily through the effect of a pump driven by the motor is classified in class 318, Electricity, Motive Power Systems, subclasses 445 +, 494 +, 521 +, and 543 +. For circuit making and breaking devices with actuating means therefor uncombined with other devices, see class 200, Electricity, Circuit Makers and Breakers, subclasses 81–85.

and under "(2) Search Class", add in numerical order:

200—Electricity, Circuit Makers and Breakers (see (1) Note, above).

318—Electricity, Motive Power Systems, subclasses 445 +, 494 +, 521 +, and 543 + for motor starting and stopping arrangements, especially subclass 482 for electric motor starting and stopping in response to liquid level and subclass 481 for electric motor starting and stopping in response to fluid pressure. (See (1) Note above.)

in subclass 53, under "Search Class", cancel the reference to class 172, and substitute:

172—Electricity—Motive Power, subclass 126, for reciprocating motor structure.

318—Electricity, Motive Power Systems, subclass 119 + for reciprocating motor systems.

105, Railway Rolling Stock (Division 34)

in subclass 35, add:

Search Class—

290—Prime Mover Dynamo Plants, subclasses indented under "Traction" (subclasses 9 to 29) for arrangements wherein a non-electric prime mover driven electric generator supplies a traction motor.

318—Electricity, Motive Power Systems, subclass 140 + for generator fed motor systems having generator control.

in subclass 49, add:

Search Class—

172—Electricity—Motive Power, appropriate subclasses, for electric motor structure, particularly subclass 286 for the structure of railway type motors.

in subclass 53, add:

Search Class—

172—Electricity—Motive Power, subclass 287 for the structure of wheel motors, per se.

in subclass 59, add:

Search Class—

171—Electricity—Generation, subclass 252 for dynamoelectric machine cooling and ventilating.

172—Electricity—Motive Power, subclass 36 for electric motor cooling and ventilating.

124, Mechanical Guns and Projectors (Division 62)

in subclass 3, add at the end of Note:

See class 318, Electricity, Motive Power Systems, subclass 38 for plural linear movement electric motor systems and subclass 135 for linear movement electric motor systems.

174, Electricity, Conductors and Insulators (Division 65)

in the main class definition, (6) Note, in the reference to class 172, cancel "battery systems being in subclass 291," and add in numerical order:

318—Electricity, Motive Power Systems.

178, Telegraphy (Divisions 16, 65)

in subclass 12, under "(2) Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, subclass 41 + for synchronizers of general application.

in subclass 14, under "Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, subclass 41 + for synchronizers of general application.

in subclass 23, under "(2) Search Classes", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 41 + for synchronizers of general application.

in subclass 41, under "(2) Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, subclass 41 + for means for synchronizing rotary members.

in subclass 53, under "Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, subclass 41 + for synchronizing means of general application.

in subclass 69.5, under "(2) Search Classes", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 41 + for electrical synchronizing systems of general application.

180, Motor Vehicles (Division 47)

in subclass 78, (1) Note, cancel "172, Electricity, Motive Power, subclass 179;".

in subclass 79.1, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 18 + for electric servo-motor systems.

187, Elevators (Division 4)

in subclass 29, under "(2) Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, appropriate subclasses, for electric motor control devices and systems of general application.

in subclass 31, under "Search Classes", cancel the reference to class 172, and add in numerical order:

318—Electricity, Motive Power Systems, subclass 255 + for electric motor systems having plural, diverse motor operations control by manual control; subclasses 494 + and 521 + for manual control systems for motor starting and stopping.

in subclass 32, under "Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, subclass 466 + for motor starting and stopping arrangements in response to the movement, position or limit of travel of the motor or other body or device.

in subclass 35, under "Search Class", cancel the reference to class 172 and substitute:

318—Electricity, Motive Power Systems, subclass 468 + for limit of travel control for electric motor systems.

in subclass 39, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 301 + for electric motor speed control systems of general application.

in subclass 43, under "Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, for electric motor control systems, the particular subclasses depending on the control desired and subclass 543 + for electric controller systems per se.

in subclass 48, under "Search Classes", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 466 + for motor starting and stopping systems in response to the movement, position or limit of travel of the motor or other body or device.

188, Brakes (Division 47)

in the main class definition, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 362 + for motor braking control. This class (318) takes braking arrangements for electric motors and includes friction braking, plugging, dynamic braking and magnetic braking.

in subclass 104, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 382 for electric motor braking by means of auxiliary electric generator or by magnetic attraction or repulsion device.

in subclass 156, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 370 + for electric motor braking by plural, diverse or diversely controlled braking means.

in subclass 158, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 362 + for electric motor braking systems.

in subclass 159, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 375 + for electric motor dynamic braking systems.

191, Electricity—Transmission to Vehicles (Division 34)

in subclass 7, under "Search Classes", cancel the reference to class 172.

192, Clutches and Power-Stop Control (Division 12)

in subclass .02, under "(2) Search Class", cancel the reference to class 172 and substitute:

318—Electricity, Motive Power Systems, subclass 9 + for the combination of electric motor and power or motion transmitting mechanism driven thereby.

in subclass 2, under "Search Class", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 362 + for electric motor braking systems.

in subclass 142, under "Search Class", cancel the reference to class 172, and substitute:

318—Electricity, Motive Power Systems, subclass 466 + for electric motor starting and stopping in response to movement, position or limit of travel of motor or other body or device.

209, Classifying, Separating and Assorting Solids (Division 25)

in subclass 368, under "(2) Search Classes", cancel the reference to class 172 and substitute:

172—Electricity—Motive Power, subclass 126 for reciprocating electric motor structure.

318—Electricity, Motive Power Systems, subclass 119 + for reciprocating electric motor systems.

212, Traversing Hoists (Division 4)

in subclass 72, under "(2) Search Classes", in the reference to 74, Machine Elements and Mechanisms, cancel "and 172, Electricity, Motive Power, subclass 239," and add in numerical order:

318—Electricity, Motive Power Systems, subclass 6 + for tension maintaining type electric motor control systems.

in subclass 132, under "(2) Search Classes", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 466 + for electric motor starting and stopping in response to movement, position or limit of travel of motor or other body or device.

214, Material or Article Handling (Division 4)

in subclass 128, under "(5) Search Class", cancel the reference to class 172 and substitute:

318—Electricity, Motive Power Systems, subclass 286 for electric motor reversing control in response to movement or position of motor or device driven thereby; subclass 466 + for electric motor starting and stopping in response to movement, position, or limit of travel of motor or other body or device.

222, Dispensing (Division 35)

in subclass 76, under "Search Class", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 445 +, 494 + and 521 + for various aspects of starting and stopping arrangements for electric motor systems.

230, Gas Pumps and Fans (Division 9)

in subclass 6, under "(2) Search Classes", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 255 + for plural, diverse motor operation control of electric motors; subclass 336 + for plural, diverse or diversely controlled running speed control means for electric motors; subclass 370 + for plural diverse or diversely controlled braking means for electric motors; subclass 404 for plural, diverse or diversely controlled acceleration control means for electric motors; subclass 491 for combined electric motor circuit and structure control; subclass 493 for combined electric motor armature and field circuit control.

in subclass 12, under "Search Classes", add in numerical order:

318—Electricity, Motive Power Systems, subclass 301 + for electric motor speed control systems.

in subclass 17, (1) Note, cancel the first sentence, and under "(2) Search Classes" add in numerical order:

318—Electricity, Motive Power Systems, subclasses 445 +, 494 +, and 521 +, for starting and stopping control of electric motor.

236, Automatic Temperature and Humidity Regulation (Division 30)

in subclass 74, add:

Search Class—

318—Electricity, Motive Power Systems, appropriate subclasses, for electric motor control of general application and particularly subclass 18 + for electric motor follow-up type of control; subclass 334 for electric motor speed control responsive to thermal conditions; subclass 471 for electric motor control in general in response to temperature or thermal conditions.

in subclass 75, add:

Search Class—

172—Electricity—Motive Power, subclass 126 for reciprocating or oscillating electric motor structure.

318—Electricity, Motive Power Systems, subclass 119 + for reciprocating or oscillating electric motor systems.

244, Aeronautics (Division 22)

in subclass 77, cancel (2) Note and (3) Note and add:

Search Class—

318—Electricity, Motive Power Systems, appropriate subclasses, for electric motor control of general application, particularly subclass 18 + for follow-up type of electric motor control.

246, Railway Switches and Signals (Division 34)

in the main class definition, (e) Note, cancel "171, Electricity, Generation, and 172, Electricity, Motive Power, and" and add:

318—Electricity, Motive Power Systems, subclass 301 +.

in subclass 5, under "(2) Search Classes", cancel the reference to class 172.

250, Radiant Energy (Divisions 10, 51, 54)

in subclass 27, under "Search Class", cancel the reference to class 172 and substitute:

172—Electricity—Motive Power, subclass 238, for electric space discharge device systems used to control phase modification apparatus; subclass 245 for electric space discharge device systems used with phase indication apparatus; subclass 246, for electric space discharge device systems used to control phase regulation apparatus; subclass 281, for electric space discharge device systems for controlling frequency changes.

and add in numerical order:

318—Electricity, Motive Power Systems, subclass 18 + for space discharge device systems used in follow-up type of motor control; subclass 132 for electric space discharge device systems used with reciprocating or oscillating type motors; subclass 138 for space discharge device commutated motors; subclass 227 for induction motor primary circuit control by electric space discharge devices; subclass 237 for induction motor secondary circuit control by electric space discharge devices; subclass 345 for motor speed control by electric space discharge devices in the armature circuit; subclass 356 for motor speed control by electric space discharge devices in field circuit; subclass 416 for motor acceleration control by space discharge devices in armature circuit; subclass 505 + for motor armature circuit control in general by space discharge devices; subclass 532 for motor field circuit control in general by space discharge devices.

290, Prime-Mover Dynamo Plants (Division 60)

in subclass 9, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 140 + for generator fed motor systems having generator control.

311, Supports, Tables (Division 62)

in subclass 16, cancel (1) note and substitute:

(1) Note.—For electric motor controls generally, see class 318, Electricity, Motive Power Systems, particularly subclass 301 + for electric motor speed control.

314, Electric Lamp and Discharge Devices, Consumable Electrodes (Division 60)

in subclass 69, under "(4) Search Class", cancel the reference to class 172 and substitute:

172—Electricity—Motive Power, appropriate subclasses, for electric motor structure.

318—Electricity, Motive Power Systems, appropriate subclasses, for electric motor control.

in subclass 70, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 362 + for electric motor braking control.

in subclass 71, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 508 + and the search notes thereunder, for electric motor control by impedance in the primary or armature circuit.

in subclass 72, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 515 + and the search notes thereunder, for electric motor control by switch means in combination with resistance in the armature or primary circuit.

in subclass 73, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 519 + and the search notes thereunder, for electric motor control by means of armature or primary circuit making and breaking devices.

in subclass 76, add:

Search Class—

318—Electricity, Motive Power Systems, subclass 499 and the search notes thereunder for motor control by means of armature having plural opposed windings; subclass 525 and the search notes thereunder for motor control by plural opposed field windings.

in subclass 78, under "(4) Search Classes", add in numerical order:

318—Electricity, Motive Power Systems, subclass 135 for linear motor systems.

in subclass 89, under "(3) Search Classes", add in numerical order:

318—Electricity, Motive Power Systems, subclass 117 for thermo-electric motor systems.

in subclass 101, under "(4) Search Classes", add in numerical order:

318—Electricity, Motive Power Systems, subclass 119 + for reciprocating electric motor systems.

in subclass 115, add:

Search Class—

171—Electricity—Generation, subclasses indented under "Regulators", especially 119, 229, 242 and 312, for electric current and/or voltage regulating systems of general application.

in subclass 135, under "(3) Search Class", add in numerical order:

171—Electricity—Generation, subclasses indented under "Regulators", especially 119, 229, 242, and 312, for electric current and/or voltage regulating systems of general application.

320, Electricity, Battery and Condenser Charging and Discharging (Division 60)

in the main class definition, under "Searches in Other Classes", cancel the reference to class 172 and add in numerical order:

318—Electricity, Motive Power Systems, subclass 139 for electric motor systems wherein the motor is supplied only by a primary or secondary battery; subclass 440 + for electric motor systems wherein the motor is supplied by plural sources one of which might be a primary or secondary battery.

MARK TAYLOR,
Acting Executive Primary Examiner.

Classification Order No. 4

May 8, 1947

The following transfers, to take effect immediately, are hereby ordered:

Class 25, Plastic Block and Earthenware Apparatus, from Division 33 to Division 15;

Class 48, Gas, Heating and Illuminating, subclasses 1 to 60, 180 to 189, 216, 217 from Division 64 to Division 56;

Class 49, Glass, from Division 5 to Division 15;

Class 252, Compositions, subclasses 2 to 8.05, 62, 67 to 79, 181.1 to 301.6, 372 to 408 from Division 3 to Division 64;

Class 260, Chemistry, Carbon Compounds, subclasses 97 to 123, 209 to 235, 298 to 326 from Division 15 to Division 6; subclasses 449 to 450, 648 to 664 from Division 6 to Division 31; subclasses 774 to 813 from Division 15 to Division 38;

Class 266, Metallurgical Apparatus, from Division 28 to Division 3.

MARK TAYLOR,
Acting Executive Primary Examiner.

Classification Order No. 5

May 23, 1947

The following transfers, to take effect immediately, are hereby ordered:

Class 35, Education, from Division 53 to Division 23.

Class 235, Registers, subclasses 1, 29–57, part 61, 61.5, 64–72, 74, 76–78, 79.5, 83–91, 92 (except electric multiplying machines which are in Division 23), 93–129, and 131–144, from Division 41 to Division 23.

MARK TAYLOR,
Acting Executive Primary Examiner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

The Brown Company of Portland, Maine, has offered the following seventy-four patents for license on reasonable terms. Detailed information, license terms, etc., may be obtained by directing an inquiry to Mr. Downing P. Brown, Brown Co., 500 Fifth Ave., New York 18, N. Y.

Pat. 1,839,773. Rayon Manufacture. Patented Jan. 5, 1932. Soda cellulose may be prepared from wood pulp having a viscosity in excess of 10 by aging it for 24–72 hours at temperatures of 15–20° C. This longer aging period and elevated temperature effects sufficient depolymerization for conversion into cellulose xanthate of viscosity suitable for spinning into rayon filaments. The rayon produced by this method compares favorably with that produced from good cotton fiber. Group 26—11. Reg. No. 5,738.

Pat. 1,839,774. Making of Soda Cellulose for Conversion Into Viscose. Patented Jan. 5, 1932. Alkali-refined chemical wood pulp of soda and kraft pulp character having an alpha cellulose content of about 96% is treated with a mercerizing solution of caustic soda. The soda cellulose formed is then aged in the presence of air at 25° C. The product obtained is capable of being directly and almost completely xanthated, the alpha cellulose content remaining substantially unchanged. Group 26—11. Reg. No. 5,739.

Pat. 1,842,688. Paper and the Process of Making Cellulose Xanthate From It. Patented Jan. 26, 1932. Cellulose pulp, beaten to markedly reduce the length of the pulp fibers, is made into waterleaf paper and passed as a continuous sheet through a caustic soda solution of mercerizing strength to form soda cellulose. The fiber is thus progressively depolymerized in an atmosphere of oxidizing gas and converted into cellulose xanthate more readily and completely than fiber in the usual form of drier sheets. Group 26—11. Reg. No. 5,740.

Pat. 1,842,689. Process of Treating Cellulose Fiber and Product of Same. Patented Jan. 26, 1932. Prior to chemical treatment and as part of the viscose rayon process, natural cellulose is reduced with a roll having very sharp blades to less than 0.2 mm. in size. The fibers are thus more uniformly permeated with a caustic soda solution, requiring a shorter aging period and xanthating more completely. Group 26—11. Reg. No. 5,741.

Pat. 1,851,330. Material for Conversion to Cellulose Derivatives and Process of Producing Same. Patented Mar. 29, 1932. This patent relates to the conditioning of high alpha cellulose wood fiber for conversion into derivatives customarily used as a base in the manufacture of nitrocellulose products (lacquers, Celluloid, film, artificial silk). The process, which has many variations, may comprise shredding and fluffing the bleached wood fiber to resemble cotton linters, mercerizing, washing, acidifying, rewashing and drying the fibers prior to conversion into a cellulose derivative. Group 26—11. Reg. No. 5,742.

Pat. 1,862,749. Treatment of Artificial Leather Sheetings and Product of Same. Patented June 14, 1932. Artificial leather is made soft and pliable so that it simulates the feel of natural leather. A continuous web of felted cellulose fiber is impregnated with latex and progressively passed through a series of pairs of rotating rolls. The rolls of each pair of the series are rotated at the same speed but at a speed greater than that of the preceding pair to effect a longitudinal stretching of the web. The treatment also renders the stretched web stronger and more tear resistant. Group 22—95. Reg. No. 5,743.

Pat. 1,864,580. Method of Making Fiber Webs and Wet-Machine Therefor. Patented June 28, 1932. A continuous pulp ribbon is formed on that portion of a traveling wire cloth which comes in contact with an aqueous pulp suspension held in a vat. Eddies are created at the web-forming locality by a suction roll (acting in combination with the wire and vat) so that many of the fibers are thrown in a cross direction of the forming wire and an interfelted ribbon results. Splits and frayed ends are thus avoided and a high grade roving obtained suitable for twisting and plying into yarns and twines. Group 22—98. Reg. No. 5,744.

Pat. 1,864,624. Manufacture of Pulp Rovings. Patented June 28, 1932. Blasts of a gaseous medium are delivered under a pulp ribbon being formed on a traveling wire cloth (see Patent 1,864,580) so that one side of the ribbon is lifted. A roll, arranged at an angle, frictionally engages the lifted edge so that the fibers of the ribbon are prevented from becoming entangled in the forming wire prior to the furling operation. Group 35—54. Reg. No. 5,745.

Pat. 1,867,599. Manufacture of Pulp Rovings. Patented July 19, 1932. Pulp fibers from an aqueous suspension are progressively deposited as spaced ribbons on a portion of a rotating cylinder mold and continuously furled on another portion. The hollow interior of the rotary cylinder may be made up of separate chambers, the first of which applies suction to dewater the pulp ribbon and the others as reservoirs for compressed air which lifts the ribbon from the mold. Modifications. Group 35—52. Reg. No. 5,746.

Pat. 1,880,038. Cement Composition and Process of Producing Same. Patented Sept. 27, 1932. An acid-resistant cement adapted for bonding together the acid-resistant bricks which line the "digesters" in which the acid sulphite process for producing cellulose pulp is carried on. Basically, various proportions of barium-bearing, alumina-bearing and silica-bearing cements are clinkered at about 1600–2500° F., and then pulverized. When first used, the cement is porous and easily abraded, but during the digesting process acquires a hard glazed crust so that the lining remains unimpaired. Group 32—42. Reg. No. 5,747.

Pat. 1,880,041. Stabilization of Cellulose Xanthate. Patented Sept. 27, 1932. Moist cellulose xanthate is unstable and cannot be kept for any length of time without undergoing decomposition. To repress hydrolysis, gelling of the viscose solution is prevented by rapidly removing the moisture at 20–30° C., and powdering the dry product obtained. The powder may be preserved indefinitely by coating it with a water repellent material. Group 28—51. Reg. No. 5,748.

Pat. 1,880,049. Process of Producing White Wood Pulp for High Grade Paper Manufacture. Patented Sept. 27, 1932. Unbleached, alkaline-cooked wood pulp is subjected to a series of bleaching treatments and alternate washings which remove the ligneous reaction products and preserve the desired characteristics of strength and tear resistance. The processed kraft pulp possesses a pure white color, is substantially free of resins and ash content and may be readily employed in the manufacture of bond, writing and other fine papers. Group 26—23. Reg. No. 5,749.

Pat. 1,880,052. Shredded Cellulose Pulp Adapted for Nitration and the Process of Making It. Patented Sept. 27, 1932. Cellulose pulp is shredded or flaked while it contains moisture (the bone dry cellulose content being about 40–70%). The shredded pulp is then dried and immediately nitrated. The conditioned fibers are easily penetrated so that the nitrating reaction is smooth and uniform. Group 26—11. Reg. No. 5,750.

Pat. 1,880,056. Manufacture of Rovings, Yarns, Twines, and the Like. Patented Sept. 27, 1932. An aqueous pulp suspension in the form of a number of separate strips of interfelted fibers is deposited directly on a partially submerged perforated carrier, not unlike that already described in the preceding patents. Basically, the strips are removed from the carrier and rolled into strands while moist so that finished yarn and string possess a high tensile strength, etc. Groups 22—23; 98. Reg. No. 5,751.

Pat. 1,880,286. Method of Treating Paper Articles With Viscose. Patented Oct. 4, 1932. When impregnated with a viscose solution, the free alkali of which has been neutralized with alum, boric acid, etc., the wet and dry strength of various porous articles (fabrics, molded or pressed pulp products) is greatly enhanced. The presence of only 1% regenerated cellulose in waterleaf paper intended for towelling, for example, acts to greatly increase the dry strength, and quadruple the wet strength of the towelling. Group 26—11. Reg. No. 5,752.

Pat. 1,881,493. Apparatus for Twisting Skeins of Yarn. Patented Oct. 11, 1932. Newly formed rayon is rendered more pliable by twisting the skeins mechanically. The apparatus provided generally consists of a pair of knobs mounted with normally parallel axes. The arrangement is such that one of the knobs is rotated relative to the other so that the skein is alternately twisted in opposite directions. The skein is also automatically shifted between successive twists so that different portions of the skein are affected. Group 22—23. Reg. No. 5,753.

Pat. 1,881,598. Yarn Guide for Upstroke Twisters. Patented Oct. 11, 1932. A stationary guide in the form of a slotted tube is provided to lead the twisted strand from the usual pot in which the "cake" of yarn is held. The device enables the usual spindle to be omitted. Group 35—52. Reg. No. 5,754.

Pat. 1,887,959. Manufacture of Pulp Rovings. Patented Nov. 15, 1932. This patent covers the manufacture of pulp rovings from wood pulp. A continuity of operation is provided beginning with an aqueous pulp suspension and terminating with an accumulated mass in desirable form. Despite dampness and tenderness, the rovings or strands are collected, without breaking, in a spinning pot. The package is hermetically sealed in containers so that the strands may be shipped to a mill for further twisting and plying into yarns, string, etc. Group 35—52. Reg. No. 5,755.

Pat. 1,888,771. Manufacture of Felted Fibrous Sheet Material of High Absorptivity. Patented Nov. 22, 1932. This patent refers to the manufacture of a felted fibrous material possessing a high degree of absorptivity which makes it particularly valuable as a base for artificial leathers, tar paper, etc. The water-laid sheet is a loosely felted and substantially unbeaten wood pulp having an alpha cellulose content of at least 93%. Bituminized sheets, etc., containing the alkali-refined but substantially unhydrated wood pulp as a principal raw material, are practically tearproof, having a greater tear resistance than those products having a cotton or rag felt base. Group 26—11. Reg. No. 5,756.

Pat. 1,899,256. Drier Roll. Patented Feb. 28, 1933. This patent relates to the construction of a drier roll of large diameter. The roll is composed of a number of separate curved metal blocks supported on a ring frame. Steam pipes are embedded in the blocks to provide a heated surface. The roll is particularly adapted for drying sheets having a relatively low mechanical strength, the large circumference of the roll permitting the sheet to be in engagement with the roll for a considerable interval of time without necessitating excessively low speed of sheet travel. Group 35—52. Reg. No. 5,757.

Pat. 1,905,757. Deodorization of Paper. Patented Apr. 25, 1933. Deodorization is accomplished by partially drying a continuous web of paper impregnated with a viscose solution and then subjecting the paper to an atmosphere of chlorine gas. The paper is then redried so that the operation is comparatively simple, being achieved while the paper is passing through the usual paper making operations. Group 26—25. Reg. No. 5,758.

Pat. 1,910,407. Method of and Machine for Making Pulp Rovings. Patented May 23, 1933. Pulp ribbons are furled on the wire cloth on which they have been deposited by the simple expedient of engaging their edge portions with a friction roll and rolling them out at an angle to the direction of travel of the wire, the roll being rotated by the wire if desired. Process is somewhat similar to that already described in Patent No. 1,864,580. Group 35—52. Reg. No. 5,759.

Pat. 1,915,072. Processing of Viscose Rayon. Patented June 20, 1933. Crude rayon yarn may be desulphurized and decolorized in a single step. Skeins are immersed in a hot dilute solution of sodium hydroxide (0.2%) at 80–100° C. A current of air or oxygen is passed into the solution until the yarn is thoroughly desulphurized (about thirty minutes) at which time it is bleached to snow-whiteness. The yarn is then removed, washed, and dried, the rayon so treated being soft and lustrous. Group 26—11. Reg. No. 5,760.

Pat. 1,915,451. Method of and Means for Directing and Accumulating Strand Material. Patented June 27, 1933. Strand material is so light in weight that it is often misdirected by air currents as it proceeds from the fabricating means to the accumulator. This is overcome by sucking the strand into a stationary duct where it is surrounded by steam and leading the strand through an oscillating tube which discharges the strand into a centrifugal accumulating pot. Group 35—52. Reg. No. 5,761.

Pat. 1,915,952. Finishing of Viscose Rayon. Patented June 27, 1933. By bleaching crude yarn before desulphurization it is possible to effect a more thorough, rapid, and uniform penetration. The crude viscose rayon yarn is treated with a hypochlorite bleach and subjected to a solution of formaldehyde to reduce and inactivate the residual bleach carried by the rayon after which it is desulphurized. The strength of the rayon is substantially unimpaired. Group 28—51. Reg. No. 5,762.

Pat. 1,918,285. Magazine Spooling Mechanism. Patented July 18, 1933. Magazine spooling arrangement for winding strands into a form known as a "cheese." The mechanism provided is capable of operating on relatively weak strands such as rovings of damp wood pulp fiber. Group 35—52. Reg. No. 5,763.

Pat. 1,919,962. Conditioning of Cellulose Fiber for Nitration. Patented July 25, 1933. Finely shredded mercerized wood fiber may be handled by nitration manufacturers as a substitute for cotton linters without any fundamental changes in processing or equipment. Preliberated cellulose fibers are suspended in a large excess of caustic soda solution under mercerizing conditions and washed free of the alkaline solution. The washed fiber is then dewatered to a fiber content of from 25–75%, shredded, and ready to be shipped in bales for later nitration. Group 26—11. Reg. No. 5,764.

Pat. 1,921,539. Chemical Pulping Process. Patented Aug. 8, 1933. A strong, long-fibered, easily bleachable pulp is produced when raw manila fiber is cooked at 335° C. for about four hours in a liquor containing about 2–3% sodium carbonate, 2% sodium sulphide, and 1–2% sodium sulphite. Group 26—11. Reg. No. 5,765.

Pat. 1,923,641. Low Viscosity Cellulose Fiber and Process of Producing the Same. Patented Aug. 22, 1933. To permit successful spinning into filaments it is necessary to lower the viscosity of the cellulose fiber solution. A white refined wood pulp having an alpha cellulose content of 94–96% and a solution viscosity of 5–8 is treated (as an 8–10% pulp suspension) with a slight acid or neutral solution containing 1–2% potassium permanganate (based on the fiber at 15–40° C.). After two hours the solution viscosity is reduced to below 1. The fiber is washed, decolorized with sodium bisulphite and then rewashed. The fiber obtained is snow white with the alpha cellulose content substantially unchanged. Group 26—11. Reg. No. 5,766.

Pat. 1,924,623. Refinement of Cellulose Fiber. Patented Aug. 29, 1933. Preliberated wood pulp of the character of sulphite and kraft is digested at temperatures above 175° C. in alkaline solutions containing only 0.1–0.2% sodium carbonate or sodium hydroxide. The elevated temperature enables the pulp to acquire an alpha cellulose content of at least 94% despite the small amount of alkali employed. Group 26—11. Reg. No. 5,767.

Pat. 1,932,751. Preparation of Cellulose Xanthate From Sheeted Cellulose Fiber. Patented Oct. 31, 1933. Prior to xanthating, sheets of cellulose pulp are dipped into a bath of caustic soda solution (about 18% strength) at a temperature of 40° C. and removed. The soda cellulose so prepared is cooled to about 20° C. to effect mercerization. Treatment prevents the sheet cellulose from disintegrating into pulp masses and is conducive to an improved, low-viscosity soda cellulose which can be xanthated with little aging. Group 26—11. Reg. No. 5,768.

Pat. 1,935,728. Chemical Pulping Process. Patented Nov. 21, 1933. Raw manila, sisal or ramie fiber is first steeped with chlorine water and hypochlorite liquor for about half an hour and then washed free of residual chlorine and reaction products. The washed material is then digested at approximately 335° F., with a plain 2% solution of sodium sulphite. The process enables sodium sulphite solutions of low strength to be used so that spent liquors may be economically discarded. Group 26—11. Reg. No. 5,769.

Pat. 1,937,274. Screen Plate. Patented Nov. 28, 1933. In paper making, aqueous pulp suspensions are run through a screen to strain out foreign particles, lumps, etc., which would cause irregularities in the paper sheet. The usual screen, prepared by sawing narrow slits in a previously grooved bronze plate, is easily worn by the acid and grit present in the water and must be renewed frequently. A less costly and more simply made screen may be fabricated by welding together acid resistant bars of keystone cross section assembled in side by side relation and spaced by the insertion of shims between their ends. Group 35—52. Reg. No. 5,770.

Pat. 1,938,722. Ripening of Viscose Sirup. Patented Dec. 12, 1933. This patent pertains to reducing the ripening period of viscose sirups. Unripened viscose sirup is deposited as a film (under atmospheric pressure) on a surface heated to a temperature ranging from 50–120° C. The film is progressively removed from the heated surface in a ripened, but ungelled condition and then cooled to 20° C., so that it may be handled by the usual spinning machines. Group 26—11. Reg. No. 5,771.

Pat. 1,945,202. Refined Cellulose Fiber. Patented Jan. 30, 1934. A process for treating the pulp derived from hemp, jute, ramie, manila, etc., so that it may be used in the manufacture of a soft and absorbent paper which possesses high strength, tear resistance, etc. Group 26—11. Reg. No. 5,772.

Pat. 1,951,748. Spool. Patented Mar. 20, 1934. Spool has a hollow perforated core. The diameter of the core is temporarily increased while the twine is being wound on the spool by a pair of rods or pins which extend through the heads of the spool, outside the core. The removal of these rods after the thread has been wound relieves the tension so that when softening liquid is introduced into the core it readily seeps through the loosened turns of thread and permits a certain amount of shrinkage. Group 35—52. Reg. No. 5,773.

Pat. 1,953,868. Treatment of Acid Setting Baths Used in Artificial Silk Manufacture. Patented Apr. 3, 1934. A process for the regeneration of a contaminated acid setting solution used in viscose rayon making. An oxidizing agent such as hydrogen peroxide is heated for an hour at about 90° C., until the colloidal impurities present are coagulated. The coagulated impurities are removed, and excess sodium sulphate, formed by the reaction of sulphuric acid on the viscose, crystallized. To replace acid lost during the reaction, sulphuric acid is added to the treated solution so that the solution is ready for reuse. Group 26—11. Reg. No. 5,774.

Pat. 1,954,226. Pulping of Manila, Sisal, or Like Raw Fibrous Materials. Patented Apr. 10, 1934. Manila and sisal fiber are cooked under pressure in a substantially neutral solution of sodium sulphite of less than 2% strength. The resultant pulp is then recooked under pressure in a 1% caustic soda solution containing more active sodium sulphite than that present in the initial cooking liquor. Papers made from pulp produced by this process are opaque and have the feel associated with fine rag papers. Group 26—11. Reg. No. 5,775.

Pat. 1,955,092. Production of Cellulose for Viscose Making. Patented Apr. 17, 1934. A solution which has become spent is used in the initial step as the medium for converting cellulose fiber into an alkali cellulose and of purifying cellulose fiber and lowering its solution viscosity. The washing operation is omitted in this process so that the solution employed is not diluted. Thus a large amount of solution may be cycled through different batches of fiber before it is discarded or sent to a recovery or purifying system. Group 26—11. Reg. No. 5,776.

Pat. 1,955,567. Manufacture of Interfelted Cellulose Fiber Strands. Patented Apr. 17, 1934. According to this patent the physical characteristics of water-laid, interfelted strands of various origins (wood pulp, etc.) may be improved without the introduction of sizers or binders which detract from their softness, fuzziness, etc. This is especially useful in the manufacture of grocery twine where ability to undergo stretching without breaking is necessary. Mercerizing liquor is sprayed over the inner surface of the strand material while it is being spun in a perforated spnning pot. Water is then sprayed to wash the strand and then the strand is dried. Group 26—11. Reg. No. 5,777.

Pat. 1,955,892. Artificial Leather. Patented Apr. 24, 1934. Uses as a fibrous base a water-laid web composed of a blend of both liberated cellulose fibers and wool fiber or shoddy. The web is impregnated with latex, etc. The artificial leather produced is serviceable as innersole stock for shoes, etc. Groups 22—94; 26—11; 30—52. Reg. No. 5,778.

Pat. 1,956,179. Artificial Leather Manufacture. Patented Apr. 24, 1934. During the drying of latex impregnated web, water has a tendency to diffuse, carrying rubber particles to the surface (where evaporation takes place) so that the interior of the web is poor in rubber. This causes the sheet to separate into plies. To overcome this, wood pulp is treated with an aqueous solution containing a mild coagulant such as magnesium chloride, dried and shredded and the web formed is impregnated with latex in the usual manner. Group 26—11. Reg. No. 5,779.

Pat. 1,962,974. Method of and Apparatus for Unwinding Strand Material From a Spool. Patented June 12, 1934. A method of rewinding very weak yarns from a headed spool onto a cop or cone at high speeds with little danger of breakage. The spool is vertically supported for free rotation in either direction and the yarn drawn upwardly. A guiding surface flaring outwardly and upwardly from the upper head rotates independently in the direction of swing as the strand is pulled upwardly. Group 35—52. Reg. No. 5,780.

Pat. 1,969,095. Pulp Yarn or Twine. Patented Aug. 7, 1934. Yarn having an almost equal wet and dry strength is made of water-laid ribbons of pulp furled from edge to edge to filamentary form and intertwisted. The ribbons are made of equal proportions of wood and manila pulp. Wet strength is of importance when the yarn is woven into coarse fabrics such as gunny sacking or burlap for the storing and shipping of vegetables. Groups 22—97; 26—11. Reg. No. 5,781.

Pat. 1,969,855. Paper Fabric and Other Product. Patented Aug. 14, 1934. A worthwhile increase in the wet strength of kraft paper strips is brought about by the introduction of regenerated cellulose. Twisted strips of kraft paper into which only 1% of the regenerated cellulose has been incorporated persist in their twisted state and are useful when made into burlap bags, the capacity for absorbing water remaining equal to untreated kraft paper. Group 26—11. Reg. No. 5,782.

Pat. 1,971,274. Manufacture of Water-Repellent Papers of High Wet Strength. Patented Aug. 21, 1934. Paper is saturated with regenerated cellulose as well as paraffin wax to render it water repellent. Paper so treated is highly resistant to disintegration in the presence of water since the regenerated cellulose present in the paper base tends to preserve the sheet against rupture by water should the wax coating be imperfect. Group 26—11. Reg. No. 5,783.

Pat. 1,974,755. Conditioning of Viscose Solutions for Impregnation and Other Purposes. Patented Sept. 25, 1934. Viscose solution is conditioned by adding either alum or boric acid or both until the free alkali content has been neutralized and the solution aerated until volatile sulphur compounds formed in the solution by neutralization are removed. The treated viscose solution is especially advantageous for use in the impregnation of waterleaf paper intended for use as towelling, not only to materially increase the dry strength of the towelling, but to greatly increase its wet strength. Group 26—11. Reg. No. 5,784.

Pat. 1,984,285. Ripening of Viscose Sirup. Patented Dec. 11, 1934. A stream of unripened viscose syrup is progressively withdrawn from the bulk supply and quickly heated to a temperature of about 50–90° C. The temperature is maintained for about 1–15 minutes to ripen the syrup short of gelling. Syrup is quickly cooled to about 20–10° C., to check gelling tendencies. Ripened syrup so produced may be kept in an ungelled condition for a considerable length of time. Group 26—11. Reg. No. 5,785.

Pat. 1,986,366. Manufacture of Viscose Products. Patented Jan. 1, 1935. The viscose incorporated in paper or fabrics stored or shipped in closed containers through which air cannot circulate is responsible for the presence of disagreeable odors. These odors, which arise from the sulphite generated as decomposition products of the viscose, may be overcome by initially treating the viscose with ammonium carbonate. The treated viscose may be incorporated into paper at any stage in the manufacture. Group 26—11. Reg. No. 5,786.

Pat. 1,986,367. Manufacture of Artificial Leather. Patented Jan. 1, 1935. Artificial leathers are seriously weakened by exposure to water, particularly when latex is used as the impregnating medium. The leathers also have a tendency to remain extended when stretched (high permanent set) and when lightly or not vulcanized the leather has a tendency to be deformed, especially when used as upper stock for shoes, seat covers, or auto tops. These disadvantages are easily overcome by adding small amounts of viscose which are less than 1%. The leather produced is porous and is possessed of good "breathing" qualities. Group 22—95. Reg. No. 5,787.

Pat. 1,995,900. Production of Bast Fibers for Paper-Making and Other Purposes. Patented Mar. 26, 1935. Ramie stalks are cut into chips ranging from one-half to three inches in length and cooked in a chemical liquor to liberate the fibers. The bast fibers are separated and beaten into a pulp. Papers made from the pulp have great tear resistance, toughness, rattle and other qualities usually associated with rag and linen papers of the best grade. Group 26—11. Reg. No. 5,788.

Pat. 1,996,272. Method of and Apparatus for Manufacturing and Treating Strand Material. Patented Apr. 2, 1935. This patent relates to a system which subjects a large number of spools of thread to a continuous and uniform treatment without loss of time. Generally described, the spools are removed from a spinning machine conveyer and transferred to a treating tank conveyer and the spools immersed by raising a tank containing a treating liquid rather than by lowering the spools. The valves of the fluid supply system to each of the tanks are controlled by raising or lowering the tanks. Fluid is circulated through the tanks when the tanks are in raised position and cut off when the tanks are lowered. During the entire series of baths, a vacuum is maintained on the inside of the spools (the ends of which are sealed at this time) so that the drawing of the successive liquids (bleach, wash, dye, etc.) through the spools is practically continuous. At the end of the cycle of baths, the vacuum is relieved automatically and the spools transferred back to the conveyer to be carried to the drier, etc. Group 35—52. Reg. No. 5,789.

Pat. 2,005,397. Manufacture of Strengthened Absorptive Paper. Patented June 18, 1935. Wet-strengthening and wetting-out agents may be mixed and added directly to the viscose solution which is employed as an impregnant for waterleaf paper towelling. By this method, the wetting-out agent can be made to offset almost completely the otherwise retarded rate at which the wet-strengthened paper absorbs water. Group 26—11. Reg. No. 5,790.

Pat. 2,015,441. Finishing of Artificial Leather. Patented Sept. 24, 1935. Relates to a method of preparing and finishing artificial leather so that the surface will be capable of receiving and maintaining a high polish. The method of coating consists of spraying the base web with coating material consisting of latex, glue, and glycerine, permitting partial drying of one coat before application of another. The thickness of the deposited surface or skin is closely regulated so that in dry condition it weighs from 6–18 grams per sq. ft. of artificial leather surface. The leather is then exposed to a tanning agent and the surface rubbed until it acquires the desired polish. Additional steps are recited in the patent. Group 26—11. Reg. No. 5,791.

Pat. 2,018,875. Manufacture of Sized Papers. Patented Oct. 29, 1935. Sizing is effected in writing and printing paper by the presence of both regenerated cellulose and glue, the glue existing primarily as an exposed film. Paper so treated is receptive to printing and writing ink, being capable of taking sharp imprints without feathering or blurring. Group 26—39. Reg. No. 5,792.

Pat. 2,028,846. Cellulose Pulp for Esterification Purposes and Processing of Same. Patented Jan. 28, 1936. Satisfactory viscose pulp syrups (usually impossible to obtain from hardwood pulps) are realized by suspending preliberated hardwood pulp for two to eight hours or more in a mercerizing liquor containing an oxidant. The mercerized pulp is then washed free of the mercerizing liquor, treated with caustic soda to form soda cellulose (without aging) and then with carbon bisulphide to form viscose. Group 26—11. Reg. No. 5,793.

Pat. 2,029,547. Production of Nitrocellulose. Patented Feb. 4, 1936. Nitrocellulose of low solution viscosity, capable of being dissolved in a suitable solvent to form clear and colorless lacquers, etc., is accomplished in a simple two-step treatment. Sheets of interfelted cellulose fiber are mercerized in a sodium sulphite solution and hydrolyzed in a 1% solution of hydrochloric acid prior to nitration. Group 26—11. Reg. No. 5,794.

Pat. 2,030,469. Manufacture of Parchment Papers. Patented Feb. 11, 1936. A process for producing a parchment paper having a variegated appearance. Talc, powdered asbestos or like alkaline earth metal compounds are distributed locally through the paper base so that on reacting with the parchmentizing sulphuric acid solution an insoluble opaque filler results. Group 26—39. Reg. No. 5,795.

Pat. 2,031,854. Surface-Finished Paper. Patented Feb. 25, 1936. A paper made water-resistant and sized by a film of regenerated cellulose. The paper is receptive to and penetrable by printing and writing inks and is especially adaptable to note, check or currency paper which can be washed or laundered without being affected. Wrapping papers possess good wet strength, do not burst under stress and are especially useful for wet foods (meat or fish). Group 26—39. Reg. No. 5,796.

Pat. 2,033,486. Artificial Leather Manufacture. Patented Mar. 10, 1936. This patent relates to an artificial leather base adapted for use in making upper stock for shoes, etc. Glycerine is used to neutralize the stiffness of a spongy cellulose fiber sheet impregnated with and strengthened by latex. The glycerine does not detract appreciably from the tensile strength of the impregnated sheet and gives the sheet pliancy, stitch holding ability and mellowness. Group 22—95. Reg. No. 5,797.

Pat. 2,041,666. Cyclic Process of Treating Alkaline Pulps. Patented May 19, 1936. Papers having high tear resistance, folding endurance and other high grade paper qualities usually inherent in manila pulps may be obtained from kraft pulps. The unbleached pulp is first partially bleached and then admixed with a caustic soda solution until the consistency of the pulp is about 6% of the dry pulp and its alkalinity reaches 6.5%. The mixture is maintained at boiling point for about an hour and agitated. After separation of the caustic soda the pulp is washed and then fully bleached and washed again. The papers obtained by use of this method may be used in the production of artificial reed fiber and employed in the manufacture of furniture, baby carriages, etc. Group 26—39. Reg. No. 5,798.

Pat. 2,041,958. Refining Cellulose Fiber for Conversion into Cellulose Derivatives. Patented May 26, 1936. To prepare sulphite and other chemical wood pulps for acetylation, the pulp, according to this process, is put through the refining action of at least two different alkaline liquors. The first is a comparatively dilute hot alkaline liquor such as calcium hydroxide which rids the pulp of the more easily removable non-alpha cellulose components. The second refining action employs a strong caustic soda solution as well as a sufficiently elevated temperature of about 50–60° C. which avoids mercerization so that acetylation may be accomplished without difficulty. Group 26—11. Reg. No. 5,799.

Pat. 2,044,095. Evaporating Process and Apparatus Therefor. Patented June 16, 1936. An evaporative treatment of spent kraft liquors which effects the separation of such solids as sodium sulphate and sodium carbonate contained within the liquor to avoid corrosion of the evaporator, or to safeguard the solids from decomposition. The spent liquor is concentrated at an elevated temperature under superatmospheric pressure until the dissolved solids are ready to crystallize out upon evaporation of the water in the liquor. The concentrated liquor is then delivered into a space maintained at subatmospheric pressure under conditions which create a cyclone in the space. Water flashes into vapor and constitutes the center of the cyclone and is removed, the crystallized solids being removed from the outer edge of the cyclone. Group 35—52. Reg. No. 5,800.

Pat. 2,054,300. Preservation of Cellulose Xanthate. Patented Sept. 15, 1936. Undissolved xanthate crumbs or viscose or xanthate solutions may be preserved for weeks or months in an unspoiled condition if kept at a sub-zero (centigrade) temperature. Cellulose xanthate crumbs so preserved may be dissolved without difficulty in a caustic soda solution in the same manner as freshly prepared crumbs, and the frozen viscose solution may be thawed out to a fluent or ungelled state such as is possessed by a freshly prepared solution. Group 26—11. Reg. No. 5,801.

Pat. 2,056,294. MANUFACTURE OF CHEMICALLY MODIFIED PAPERS. Patented Oct. 6, 1936. Regenerated cellulose may be incorporated into a paper sheet which is to undergo parchmentization, vulcanization, mercerization or analogous chemical transformation to increase the wet strength of the paper. This enables the paper to be passed through chemical solutions or washes as a continuous sheet without tearing or the usual difficulties encountered in processing paper. Group 26—11. Reg. No. 5,802.

Pat. 2,060,129. COATING COMPOSITION AND ITS PREPARATION. Patented Nov. 10, 1936. Toluol is added to the rubber latex composition applied as a coating to artificial leather. The toluol has a tendency to dissolve the surface-resistant impurities which would otherwise cause splitting, peeling and thinning out of the latex coatng. Group 22—95. Reg. No. 5,803.

Pat. 2,068,630. MANUFACTURE OF TRANSPARENT FILMS. Patented Jan. 19, 1937. A 2–10% mechanically gelatinized cellulose pulp of the glassine-paper-forming type is distributed through a substantially transparent film of hydroxy cellulose ether to increase the tear resistance of the film. Group 26—11. Reg. No. 5,804.

Pat. 2,083,744. MANUFACTURE OF SHEETED CELLULOSE FIBER ADAPTED FOR CONVERSION INTO CELLULOSE DERIVATIVES. Patented June 15, 1937. Preliberated cellulose fibers of almost unchanged fiber length are wet-felted into sheet form. The sheets are dewatered into dryness, maintaining the fibers in substantially uncemented relationship to produce a sheet having a compactness ranging from 20–50. The sheets are later compacted further. By virtue of their quick and uniform penetrability these sheets may be impregnated with latex compositions, bitumens, resins and many other binders. Group 26—11. Reg. No. 5,805.

Pat. 2,112,116. PRODUCTION OF CELLULOSE FIBER OF LOW SOLUTION VISCOSITY FOR CONVERSION INTO CELLULOSE DERIVATIVES. Patented Mar. 22, 1938. This patent refers to the use of hydrogen peroxide as a means of improving the color and reducing the viscosity of cellulose fiber made of bleached hardwood sulphite pulps ordinarily unacceptable for conversion into high grade nitrocellulose derivatives. Group 26—11. Reg. No. 5,806.

Pat. 2,135,151. METHOD OF MULTIPLE-COATING OR FINISHING. Patented Nov. 1, 1938. A rubber solvent is applied to each successive coating of a rubber latex composition and then exposed to formaldehyde fumes at an elevated temperature. This treatment acts to soften the previously applied coating to insure a fully fused, non-peelable final coating. Group 26—11. Reg. No. 5,807.

Pat. 2,138,014. PREPARATION OF VISCOSE SIRUP. Patented Nov. 29, 1938. This patent relates to a process which utilizes wood pulp heretofore considered unsuited in the manufacture of viscose rayon. The process comprises preparing viscose sirup by xanthating a blend of alkali cellulose prepared from ground sheets of an acid-preliberated-cellulose pulp such as sulphite pulp, and an alkali-preliberated-cellulose pulp such as kraft. Group 26—11. Reg. No. 5,808.

Pat. 2,171,419. FABRIC-REINFORCED ARTIFICIAL LEATHER. Patented Aug. 29, 1939. A web of felted fibers of either dry-laid or wet-laid variety is progressively passed through a bath of rubber latex simultaneously with a sheet of fabric. The fabric is preferably kept from contact with the web until the latter has been thoroughly impregnated and swollen as far as possible by the water content of the latex. The fabric and web are then brought together in superposed relationship at the periphery of the lower roll of a pair of squeeze rolls. The bond between the two layers is so great that separation is not easily accomplished. Group 22—95. Reg. No. 5,809.

Pat. 2,249,175. PREPARATION OF SOLUTIONS OF HEAT-RIPENED CELLULOSE XANTHATE. Patented July 15, 1941. This patent deals with a process by which cellulose xanthate is ripened quickly under heat and then put into the form of a finished cellulose xanthate or viscose having desired characteristics for spinning into rayon filaments, casting into films, etc. Cellulose xanthate or a cellulose content or concentration greater than that of the finished cellulose xanthate or viscose solution to be produced is heated to a much higher degree of ripeness than desired. The heated xanthate is then admixed with refrigerated sodium sulphite, for example, in an amount sufficient to dilute the cellulose content of the xanthate to that of the final solution to be produced. Group 26—11. Reg. No. 5,810.

Pat. 2,338,602. FABRICATION OF WET-STRENGTHENED PAPERS. Patented Jan. 4, 1944. This patent refers to the manufacture of a paper characterized by its high water absorptivity as well as wetting strength. Urea, formaldehyde and glue in aqueous solution are reacted to a stage where the viscosity of the solution has risen sharply, but has not reached the gel stage. At this point, the solution is incorporated with a paper furnish prior to the formation of a web. The furnish is acidified so that paper products such as towelling, handkerchiefs, facial tissues, napkins, toilet paper, diaper linings, dress shields and other products requiring high water absorptivity and wetting strength can be made. Group 26—25. Reg. No 5,811.

Patent Dedicated to the Public

The following patent owned by the Utilities Coordinated Research, Inc., a corporation of New York, with offices at 2 East End Ave., New York 21, N. Y., has been dedicated to the people of the United States of America by instrument recorded in the United States Patent Office April 23, 1947, which reads in part as follows:

"* * * does hereby assign, transfer, and dedicate to the people of the United States of America, the entire right, title, and interest in and to the said invention and Letters Patent for their free use thereof."

Pat. 2,181,274. INDUCTION HEATER CONSTRUCTION. Patented Nov. 28, 1939. This patent teaches the choice of sheath resistance either for maximum electrical efficiency, or for maximum secondary power, or for the best possible combination of efficiency and power factor. The sheath is preferably made of brass and the choice of its resistance may be selected in accordance with various formulae set forth in the patent. The heater is of the type having a magnetic core surrounded by a secondary winding comprising a non-magnetic electrically conductive sheath and a primary winding. Group 36—21.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 17, 1947

[VOL. 599. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

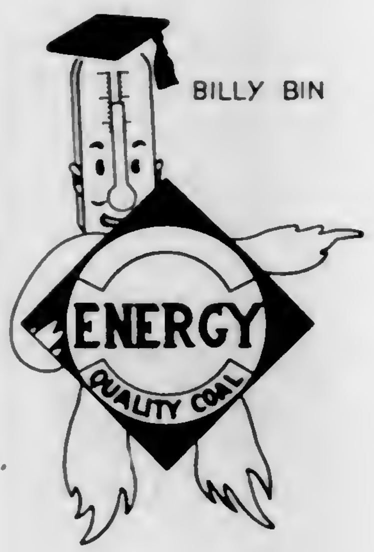
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 473,213. FRANKLIN COUNTY COAL CORPORATION, Chicago, Ill. Filed Aug. 12, 1944.

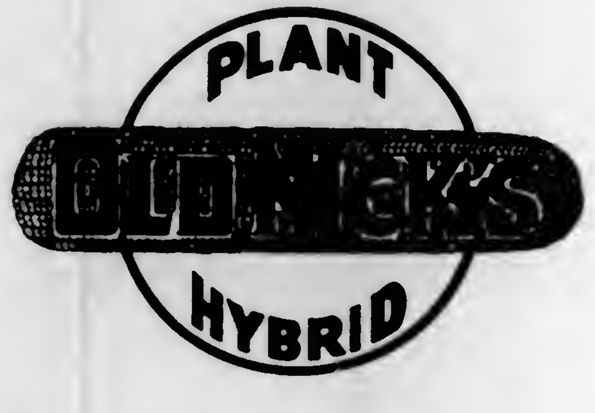


No claim is made to the words "Quality Coal" apart from the mark.

FOR COAL.

Claims use since Mar. 7, 1944.

Ser. No. 497,264. I. J. NICKERSON, doing business as Old Nick's Seed Company, Rock Port, Mo. Filed Feb. 26, 1946.



Applicant is the owner of Reg. No. 405,607. No claim is made to the words "Plant Hybrid" or to the representation of the goods.

FOR VARIOUS TYPES OF HYBRID SEED CORN.

Claims use since Jan. 1, 1946.

Ser. No. 497,876. MEYERHANS & CIE. A.-G. MÜHLE WEINFELDEN, Weinfelden, Switzerland. Filed Mar. 8, 1946.

EMCO-GUM

The word "Gum" is disclaimed apart from the mark.

FOR VEGETABLE PRODUCTS IN THE FORM OF FLAKES, SEMOLINA, FLOUR AND POWDER, PURE OR IN COMBINATION WITH OTHER SUBSTANCES USED AS EMULSIFYING, SWELLING, ADHESIVE AND THICKENING MEDIUM, FOR THE TEXTILE, PAPER AND OTHER INDUSTRIES, FOR COSMETICS AND OTHER TECHNICAL PURPOSES.

Claims use since November 1944.

Ser. No. 500,627. MONARCH LEATHER COMPANY, Chicago, Ill. Filed Apr. 20, 1946.

VARSITY

FOR REAL LEATHER IN THE PIECE.

Claims use since Feb. 2, 1927.

Ser. No. 506,864. THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Aug. 5, 1946.

ASBESTOL

FOR LEATHER ADAPTED BY A SPECIAL PROCESS TO THE MANUFACTURE OF GLOVES, SHOES AND OTHER ARTICLES OF WEARING APPAREL.

Claims use since Oct. 22, 1893.

Ser. No. 507,402. INTERNATIONAL PLASTICS, INC., Boston, Mass. Filed Aug. 14, 1946.

THE SOVEREIGN

FOR PLASTIC COMPOSITIONS IN THE FORM OF SHEETS, STRIPS, BLOCKS, RODS, AND TUBES.

Claims use since Mar. 30, 1946.

Ser. No. 507,844. The Resinous Products & Chemical Company, Philadelphia, Pa. Filed Aug. 22, 1946.

AMBEROL

Applicant is the owner of Reg. No. 225,956.

FOR SYNTHETIC OR CHEMICALLY-MODIFIED RESINOUS MATERIALS IN SOLID FORM FOR USE IN THE PREPARATION OF PRINTING INKS, SURFACE COATINGS, ADHESIVES, AND RUBBER COMPOSITIONS.

Claims use since May 16, 1924.

Ser. No. 507,846. The Resinous Products & Chemical Company, Philadelphia, Pa. Filed Aug. 22, 1946.

ACRYLOID

Applicant is the owner of Reg. No. 325,891.

FOR SYNTHETIC RESINOUS MATERIALS IN THE FORM OF GRANULES, POWDERS, AND SOLUTIONS FOR USE IN PRINTING INKS, COATINGS, FILMS, AND ADHESIVES.

Claims use since Sept. 14, 1934.

CLASS 2

RECEPTACLES

Ser. No. 502,702. Kromex Corporation, Cleveland, Ohio. Filed May 24, 1946.

FRIG-I-TOR

FOR COLD- AND HEAT-INSULATED TUBS FOR CONTAINING COLD OR HOT SUBSTANCES, MADE IN WHOLE OR IN PART OF BASE METAL.

Claims use since Apr. 25, 1946.

Ser. No. 502,957. Fibrcan Corporation, New York, N. Y. Filed May 29, 1946.

HIDY TIDY

No claim is made to the word "Tidy" apart from the mark as shown.

FOR MATERIAL OR WASTE CANS OF PLASTIC, PAPER, OR BASE METAL.

Claims use since Mar. 15, 1946.

Ser. No. 505,555. Celanese Corporation of America, New York, N. Y. Filed July 13, 1946.

CELCON

FOR BOX COVERS, DISPLAY BOXES, CONTAINERS AND FRONTS FOR CONTAINERS, MADE FROM PLASTIC MATERIAL.

Claims use since July 8, 1946.

Ser. No. 507,711. Auto-Wrap Corporation, New York, N. Y. Filed Aug. 21, 1946.

AUTOSEAM

FOR MERCHANDISE ENVELOPES AND PAPER BAGS.

Claims use since July 8, 1946.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 500,984. Gabriel Zahralban, doing business as Kane Novelty Co., Brooklyn, N. Y. Filed Apr. 26, 1946.

KANE

KN

NOVELTY

The words "Kane" and "Novelty" are disclaimed apart from the mark.

FOR LADIES' HAND BAGS.

Claims use since Feb. 15, 1945.

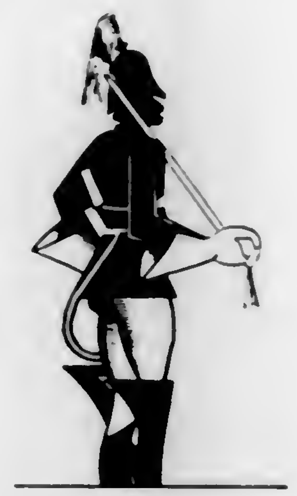
Ser. No. 510,765. Coronet Handbags, Inc., New York, N. Y. Filed Oct. 12, 1946.

Michel

FOR LADIES' HANDBAGS AND POCKET BOOKS.

Claims use since Aug. 15, 1945.

Ser. No. 515,505. Myron W. McIntyre, Ltd., New York, N. Y. Filed Jan. 9, 1947.



The representation of a figure, shown on the drawing, is fanciful.

FOR SUITCASES, PORTFOLIOS, WALLETS, KEY CASES, AND TRAVELING KITS.

Claims use since Dec. 27, 1946.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

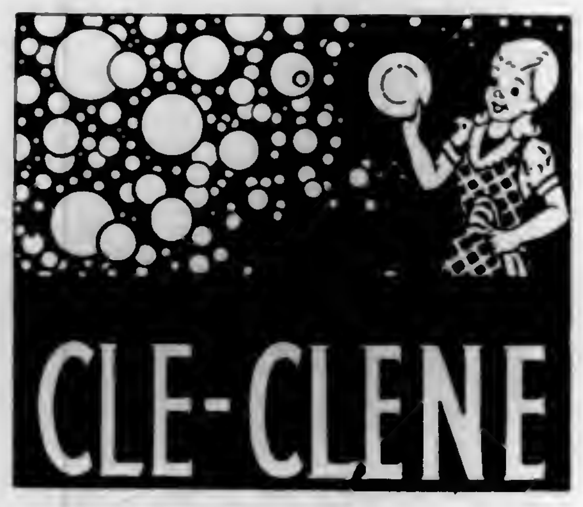
Ser. No. 494,085. Kathleen H. Lee, doing business as H & L Mfg. Co., San Francisco, Calif. Filed Dec. 29, 1945.

"WONDERBRIT"

FOR PREPARATION IN POWDER FORM FOR CLEANING FABRICS, WOODWORK, DISHES, SILVERWARE, WINDOWS AND PAINTS, AND TO EMULSIFY AND SAPONIFY GREASE; AND FOR GENERAL CLEANING PURPOSES.

Claims use since Apr. 2, 1945.

Ser. No. 497,620. Herbert H. McJunkin, doing business as Cle Products Company, Dallas, Tex. Filed Mar. 4, 1946.

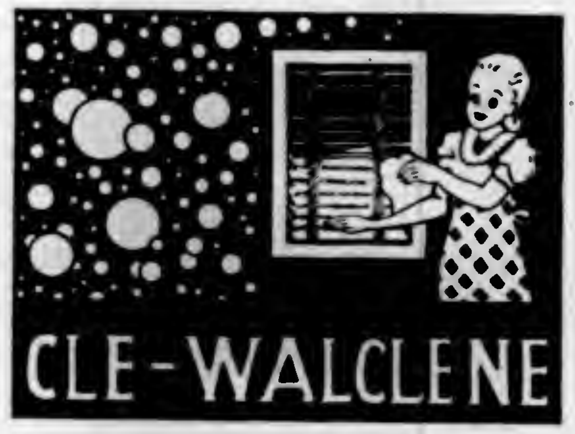


The representation of the young woman shown in the drawing is fanciful. The word "Clene" is disclaimed apart from the mark.

FOR DRY COMPOUND FOR WASHING AND CLEANING WEARING APPAREL, HOUSEHOLD APPLIANCES AND FURNISHINGS, FABRICS, WOOD AND METAL.

Claims use since on or about July 28, 1943.

Ser. No. 497,621. Herbert H. McJunkin, doing business as Cle Products Company, Dallas, Tex. Filed Mar. 4, 1946.



The representation of the young woman shown in the drawing is fanciful. The word "Walclene" is disclaimed apart from the mark as shown.

FOR DRY WALL CLEANING COMPOUND.

Claims use since on or about July 28, 1943.

Ser. No. 498,816. Alice L. Fernandez, doing business as Victory Enterprises, New York, N. Y. Filed Mar. 22, 1946.

DIDY CIDE

The use of the word "Didy" is disclaimed apart from the mark as shown.

FOR CLEANSER FOR DIAPERS AND THE LIKE, HAVING DISINFECTANT AND DEODORANT PROPERTIES.

Claims use since Dec. 24, 1945.

Ser. No. 498,864. Seco Products Company, Toledo, Ohio. Filed Mar. 23, 1946.

SE-GLD

FOR WASHING AND GENERAL CLEANING POWDER.

Claims use since January 1946.

Ser. No. 499,672. Russell F. Tubiolo, doing business as U-Lik-Nu Chemical Co., Rochester, N. Y. Filed Apr. 4, 1946.

U-LIK-NU

TWENTY IN ONE

FOR CLEANING SOLUTION TO BE USED BY RUBBING ON THE ARTICLE TO BE CLEANED.

Claims use since Mar. 13, 1946.

Ser. No. 501,047. CONTINENTAL CHEMICAL COMPANY, Sacramento, Calif. Filed Apr. 27, 1946.

Zippy SUDS

No claim is made to the word "Suds" apart from the mark as shown.
FOR GRANULATED SOAP.
Claims use since Oct. 30, 1945.

Ser. No. 503,214. JOSEPH BLOCH, doing business as Omaha Cosmetics Company, Omaha, Nebr. Filed June 3, 1946.

ShaveRite

The word "Shave" is disclaimed apart from the mark shown in the drawing.
FOR SHAVING CREAM.
Claims use since Oct. 20, 1944.

Ser. No. 503,278. BEHR-MANNING CORPORATION, Troy, N. Y. Filed June 5, 1946.

SPEED-GRITS

No claim is made to the word "Grits" apart from the mark as shown.
FOR COATED ABRASIVES.
Claims use since 1919.

Ser. No. 503,789. AVON PRODUCTS, INC., New York, N. Y. Filed June 13, 1946.

WHITE MOIRÉ

The word "White" is disclaimed apart from the mark.
FOR TOILET SOAPS.
Claims use since Aug. 6, 1945.

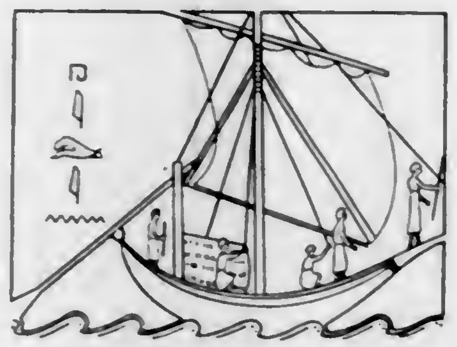
Ser. No. 505,944. ALL METAL POLISH CO., New York, N. Y. Filed July 20, 1946.

FORMULA "303"

The word "Formula" is disclaimed apart from the mark as shown.
FOR METAL POLISH.
Claims use since May 15, 1946.

Ser. No. 507,237. HELEN E. CHISHOLM, doing business as Shore Line Laboratory, Saybrook, Conn. Filed Aug. 12, 1946.

SEEIT



FOR CLEANSING POWDER.
Claims use since May 13, 1946.

Ser. No. 507,667. WESSON HOUSEWARE PRODUCTS CO., Chicago, Ill. Filed Aug. 19, 1946.

RUG-HUG

No claim is made to the word "Rug" apart from the mark shown.
FOR DRY, SLIP-PREVENTING CHEMICALLY INERT POWDER COMPRISING AN EXPLODED SILICATE FOR APPLICATION TO RUGS AND FLOOR COVERINGS.
Claims use since Aug. 3, 1946.

Ser. No. 514,718. FRANK PEREW, JR., doing business as Mom's Cleaner Co., Beverly Hills, Calif. Filed Dec. 23, 1946.

"Used To Clean - Clean To Use"

MOM'S

No claim is made to the words "Used to Clean—Clean to Use" apart from the mark.
FOR CLEANER FOR REMOVING GREASE AND SOIL.
Claims use since June 1945.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 470,937. CARBIDE AND CARBON CHEMICALS CORPORATION, New York, N. Y. Filed June 6, 1944.

UCON

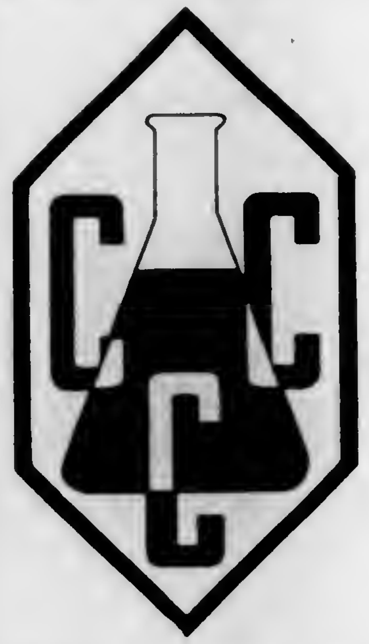
FOR CHEMICAL COMPOUNDS FOR USE IN OR AS HYDRAULIC FLUIDS AND HEAT TRANSFER MEDIA, AS PLASTICIZERS, AND IN LUBRICANTS.
Claims use since about May 13, 1944.

Ser. No. 474,508. JOHN E. RESPONDEK, doing business as Gastona Medicine Co., Detroit, Mich. Filed Sept. 22, 1944.

GASTONA

FOR PREPARATION IN LIQUID FORM FOR USE TO RELIEVE GAS ON THE STOMACH.
Claims use since June 17, 1937.

Ser. No. 474,843. HERBERT W. WILKINSON, JR., Southbridge, Mass. Filed Oct. 2, 1944.



The representation of the beaker and the benzene ring are disclaimed apart from the mark as shown.
FOR ETHYL LACTATE, DIMETHYL PHTHALATE, AQUEOUS SOLUTIONS OF METALLIC SALTS, FATTY ALCOHOLS, FATTY ACID ESTERS, AND SULPHONATED OIL AND HAVING A GENERAL USE IN THE INDUSTRIAL ARTS.
Claims use since Jan. 18, 1944.

Ser. No. 482,102. THE H. AND K. COMPANY, Dayton, Ohio. Filed Apr. 13, 1945.

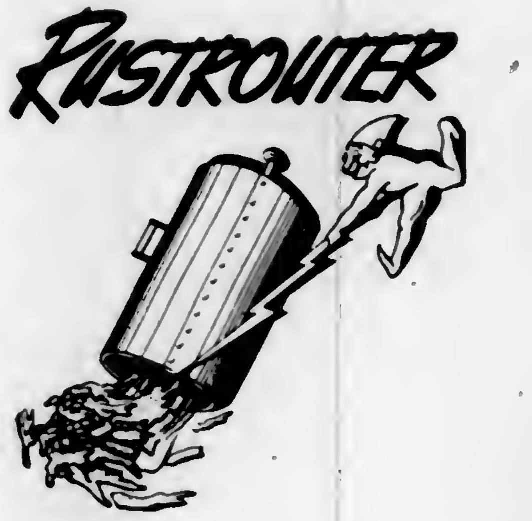
DETERGEX

FOR LIQUID MEDICINAL PREPARATION FOR THE TREATMENT OF SCALPS.
Claims use since Dec. 6, 1944.

Ser. No. 485,952. WALTER B. JACKSON, doing business as Jackson Research Laboratories, Houston, Tex. Filed July 18, 1945.

The drawing is lined to indicate the color red.
FOR LIQUID INSECTICIDES.
Claims use since Sept. 18, 1944.

Ser. No. 487,505. EAGLE CHEMICAL PRODUCTS COMPANY, Philadelphia, Pa. Filed Aug. 24, 1945.



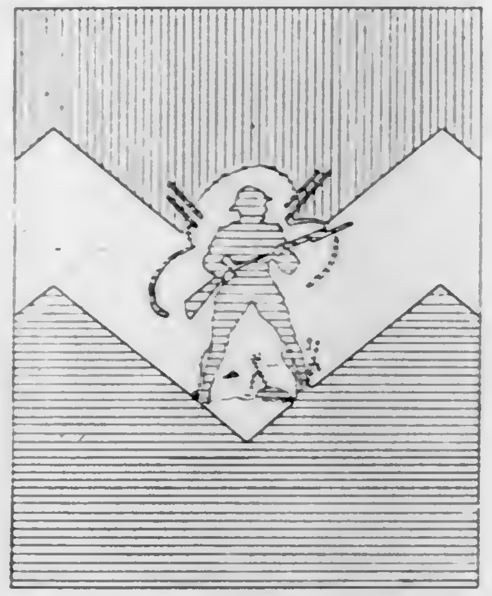
No claim is made to the word "Rust" except in the association shown.
FOR CHEMICAL FOR RUST PROOFING BOILERS, AND PREVENTING RUST OR SCALE FROM FORMING ON BOILERS, TANKS, OR RADIATORS.
Claims use since July 9, 1945.

Ser. No. 490,748. DOUGLAS LABORATORIES, INC., Boston, Mass. Filed Oct. 30, 1945.

PROSTALL

FOR AMINO ACID PREPARATION FOR THE RELIEF OF SYMPTOMS OF PROSTATE HYPERTROPHY.
Claims use since Oct. 17, 1945.

Ser. No. 491,486. DAVID LANDER, Long Beach, Calif. Filed Nov. 13, 1945.

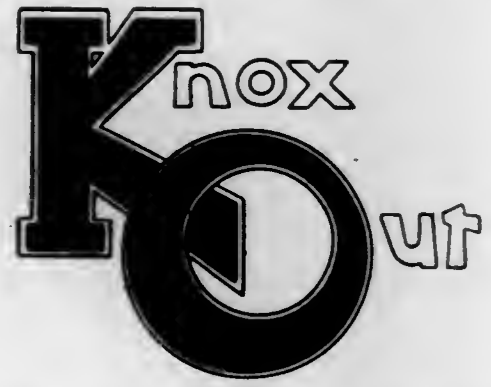


The drawing is lined for the colors blue and red. No claim is made to the representation of the outline of the label.

FOR FOOT POWDER.

Claims use since Apr. 1, 1940.

Ser. No. 492,514. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Dec. 1, 1945.



The syllable "Knox" is disclaimed apart from the association shown.

FOR INSECTICIDES IN BOTH FLUID AND SOLID FORMS.

Claims use since Oct. 5, 1945.

Ser. No. 493,199. LENTHERIC, INCORPORATED, New York, N. Y. Filed Dec. 13, 1945.

BLACK SUNLIGHT

FOR PERFUMES, TOILET WATERS, AND COSMETIC CREAMS.

Claims use since Dec. 4, 1945.

Ser. No. 493,780. ARDEN KING, LTD., New York, N. Y. Filed Dec. 22, 1945.

SUPERNAL

FOR FACE CREAMS, BEAUTIFYING CREAMS, TISSUE CREAMS, CLEANSING CREAMS, COLD CREAMS, MASSAGE CREAMS, AND VANISHING CREAMS.

Claims use since Oct. 20, 1945.

Ser. No. 495,154. R. SCHIFFMANN CO., Los Angeles, Calif. Filed Jan. 21, 1946.

The word "Sun" is disclaimed apart from the mark.

FOR SUNTAN LOTION.

Claims use since Nov. 23, 1945.

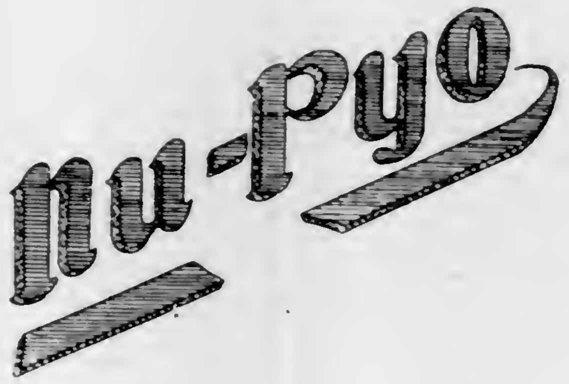
Ser. No. 496,885. COMMANDITAIRE VENNOOTSCHAP CHEMISCHE FABRIEK RIDS, Ijmuiden, The Netherlands. Filed Feb. 19, 1946.

MOTTIP'S

FOR INSECTICIDES.

Claims use since Jan. 28, 1938.

Ser. No. 497,033. JOHN E. MARRIOTT, doing business as Nu Pyro Products Company, Augusta, Ga. Filed Feb. 21, 1946.

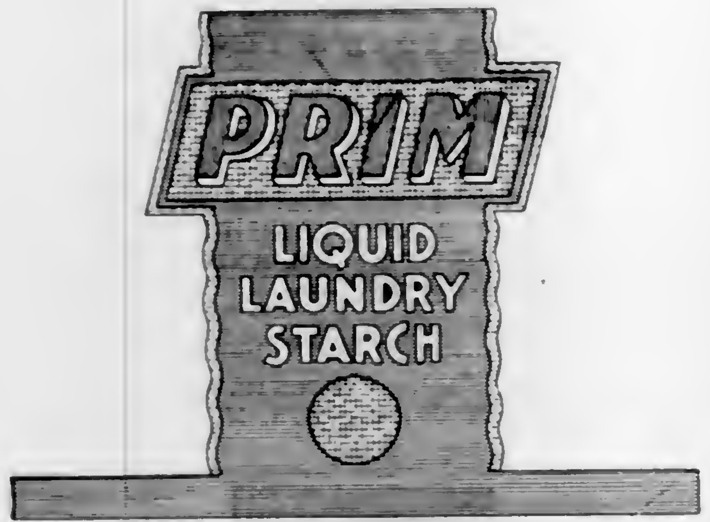


The word "Nu" is disclaimed apart from the mark.

FOR MEDICINES FOR MEDICINAL TREATMENT OF SORE BLEEDING GUMS.

Claims use since Sept. 15, 1921.

Ser. No. 497,180. HYCO PRODUCTS, Cincinnati, Ohio. Filed Feb. 25, 1946.

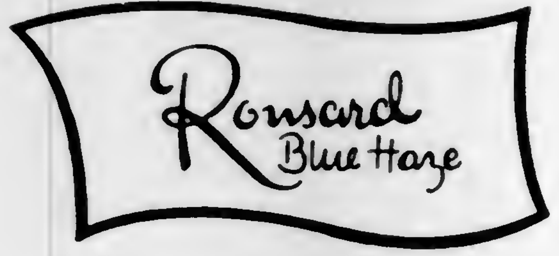


The words "Liquid Laundry Starch" are disclaimed apart from the mark. The drawing is lined for the colors red, yellow, blue, and silver.

FOR LIQUID LAUNDRY STARCH.

Claims use since Oct. 6, 1945.

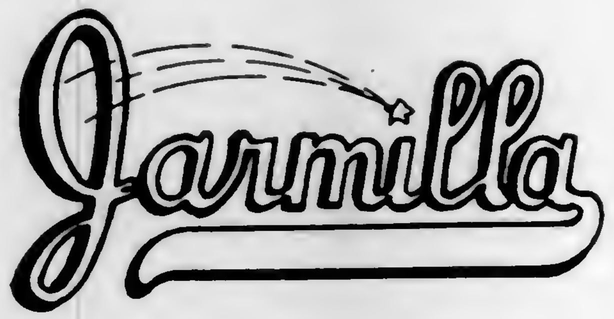
Ser. No. 497,240. JULIUS GUCKENHEIMER, doing business as Ronsard Perfumers, New York, N. Y. Filed Feb. 26, 1946.



FOR PERFUMES AND TOILET WATER.

Claims use since December 1945.

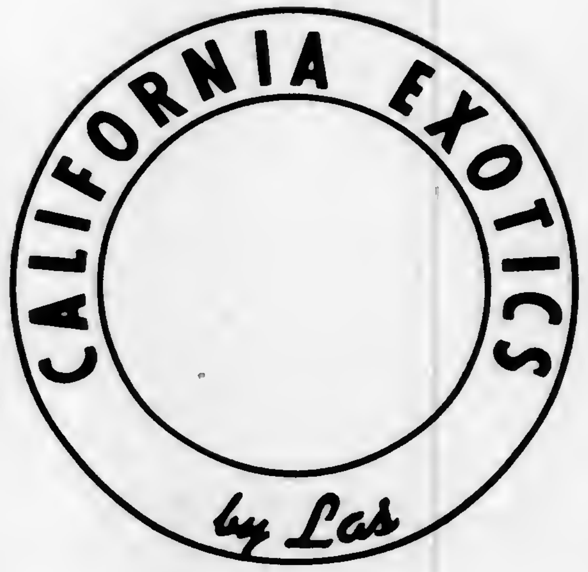
Ser. No. 497,523. MALCOLM C. BAKER, Lake Worth, Fla., assignor to Jarmilla Products, Inc., Lake Worth, Fla. Filed Mar. 2, 1946.



FOR SCALP PREPARATION.

Claims use since Jan. 23, 1946.

Ser. No. 497,682. LOUIS A. STERN, Los Angeles, Calif. Filed Mar. 5, 1946.



No claim is made to the words "California" or "Las" apart from the mark.

FOR COLOGNES.

Claims use since Mar. 15, 1942.

Ser. No. 497,974. HARRY SHAPIRO, doing business as Chemical Specialties Company, New York, N. Y. Filed Mar. 9, 1946.

FOR DOG SHAMPOO.

Claims use since June 1944.

Ser. No. 498,154. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Mar. 13, 1946.

BETACEBRIN

FOR MEDICINAL PREPARATION CONTAINING VITAMINS IN LIQUID FORM USEFUL IN THE TREATMENT OF VITAMIN DEFICIENCIES AND AS A DIETARY SUPPLEMENT FOR INFANTS AND CHILDREN.

Claims use since Feb. 4, 1946.

Ser. No. 498,449. The Perfect Circle Company, Hagerstown, Ind. Filed Mar. 18, 1946.

PERFECT CIRCLE

The word "Perfect" is disclaimed apart from the mark.
FOR ANTI-FREEZE SOLUTION.
Claims use since Feb. 20, 1946.

Ser. No. 499,493. Hardesty Chemical Co., Inc., New York, N. Y. Filed Apr. 2, 1946.

HARFLEX

FOR PLASTICIZERS FOR RESINS, PLASTICS, AND ELASTOMERS.
Claims use since Mar. 23, 1946.

Ser. No. 500,004. Arthur C. Van House, doing business as Magic Mist Co., Evanston, Ill. Filed Apr. 11, 1946.

Magic Mist

FOR HAIR DRESSING.
Claims use since Mar. 4, 1946.

Ser. No. 500,470. Stanley P. Goldrich, doing business as Noble Products, Daytona Beach, Fla. Filed Apr. 18, 1946.

LIQUID
TAR
PAPER

The word "Liquid" is disclaimed apart from the mark.
FOR INSECT AND MOTH REPELLENT IN LIQUID FORM.
Claims use since June 1945.

Ser. No. 500,674. Eli Lilly and Company, Indianapolis, Ind. Filed Apr. 22, 1946.

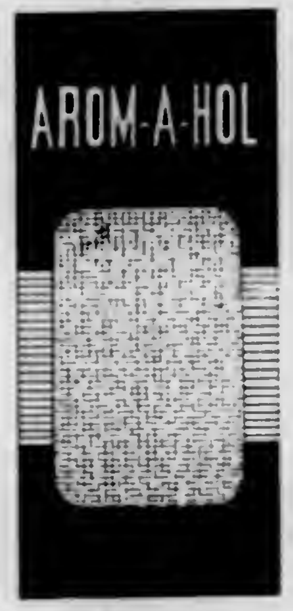
BETALIN COMPLEX

No property right is claimed in the word "Complex" and applicant hereby disclaims any right to said portion of the above trade-mark, apart from the mark as shown.
FOR MEDICINAL PREPARATIONS OF VITAMIN B.
Claims use since Apr. 15, 1940.

Ser. No. 500,798. Simon Drissman, doing business as Lovnail Products, Detroit, Mich. Filed Apr. 24, 1946.

"Nail" is disclaimed apart from the mark as shown.
FOR NAIL POLISH, NAIL POLISH REMOVER, CUTICLE REMOVER, CUTICLE OIL, AND NAIL ENAMEL.
Claims use since Apr. 4, 1946.

Ser. No. 501,452. Morris Herman, doing business as Herman Products Co., Brooklyn, N. Y. Filed May 4, 1946.



No claim is made to the representation of the label illustration shown on the drawing. No claim is made to the term "Arom-A" apart from the mark. The drawing is lined to represent gold color. The horizontal lining is for the purpose of shading only.
FOR LIQUID PREPARATION USED AS SKIN REFRESHENER.
Claims use since December 1944.

Ser. No. 501,608. Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Filed May 7, 1946.

DILVASENE

FOR PHARMACEUTICAL PREPARATION CORRESPONDING CHEMICALLY TO IODOMETHYLATE OF 4-DIMETHYLAMINONE-ETHYL-1.3-DIOXACYCLOPENTANE, FOR USE IN THE TREATMENT OF RAYNAUD'S DISEASE, CHILBLAINS AND GANGRENE.
Claims use since May 8, 1945.

Ser. No. 501,772. Parfumerie Fragonard G. Fuchs & Cie, Paris, France. Filed May 9, 1946.

LANCRY

FOR PERFUMES.
Claims use since 1942.

Ser. No. 503,365. Haas-Miller Corporation, Philadelphia, Pa. Filed June 6, 1946.

IMMUNOL

FOR CHEMICAL COMPOUNDS FOR WET GRINDING OF METAL.
Claims use since Apr. 10, 1946.

Ser. No. 503,855. Jacques Wolf & Co., Clifton, N. J. Filed June 13, 1946.

VISCO GUM

The word "Gum" is disclaimed apart from the mark.
FOR PRODUCT FOR WAVE SET LOTIONS WITH A VEGETABLE GUM BASE.
Claims use since October 1933.

Ser. No. 504,165. Erl Sales, Dist., Los Angeles, Calif. Filed June 19, 1946.

Atom-O-dent

No claim is made to the word "Dent" apart from the mark.
FOR TOOTH POWDER.
Claims use since Feb. 10, 1946.

Ser. No. 504,688. Parfumerie Fragonard G. Fuchs & Cie, Paris, France. Filed June 27, 1946.

BELLE DE NUIT

FOR PERFUMES.
Claims use since 1933.

Ser. No. 505,687. Plank Dealy, Los Angeles, Calif. Filed July 16, 1946.

Py-yA

FOR ALL PURPOSE COSMETIC PREPARATION, HAVING GENERAL USE AS A CLEANSING, PROTECTING, AND FOUNDATION LOTION.
Claims use since Feb. 1, 1940.

Ser. No. 506,076. White Laboratories, Inc., Newark, N. J. Filed July 22, 1946.

AD-C-CAL

The exclusive use of the letters "AD-C" is disclaimed.
FOR VITAMIN-MINERAL PREPARATION IN TABLET, CAPSULE, AND LIQUID FORM.
Claims use since July 9, 1946.

Ser. No. 506,077. White Laboratories, Inc., Newark, N. J. Filed July 22, 1946.

CLO-CALCIUM-C

The exclusive use of "Calcium-C" is disclaimed apart from the mark.
FOR VITAMIN-MINERAL PREPARATION IN TABLET, CAPSULE, AND LIQUID FORM.
Claims use since July 9, 1946.

Ser. No. 506,078. White Laboratories, Inc., Newark, N. J. Filed July 22, 1946.

CLO-C-CAL

The exclusive use of the letter "C" is disclaimed.
FOR VITAMIN-MINERAL PREPARATION IN TABLET, CAPSULE, AND LIQUID FORM.
Claims use since July 9, 1946.

Ser. No. 506,308. Gloria Vanderbilt Corp., New York, N. Y. Filed July 26, 1946.

INDIAN
ORCHID

The word "Orchid" is disclaimed apart from the mark as shown.
FOR PERFUMES AND TOILET WATER.
Claims use since July 23, 1946.

Ser. No. 506,387. Nepera Chemical Company, Inc., Nepera Park, N. Y. Filed July 27, 1946.

HETRAMINE

FOR CHEMICAL COMPOUNDS ADAPTED FOR THE TREATMENT OF ALLERGIC DISORDERS.
Claims use since July 16, 1946.

Ser. No. 506,471. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 29, 1946.

ORABISMOL

FOR PREPARATION TO BE USED AS AN ANTI-LUETIC.
Claims use since July 3, 1946.

Ser. No. 506,495. ASSOCIATED PRODUCTS, INC., Chicago, Ill. Filed July 30, 1946.

PALM FROND

FOR FACE LOTIONS, SKIN BLEACHES, VANISHING, CLEANSING AND COLD CREAMS, PADS CHEMICALLY IMPREGNATED WITH A CREAM OR LOTION FOR USE IN CLEANSING THE FACE, FACE POWDER, FACE MAKE-UP IN LIQUID FORM, CAKE MAKE-UP, LIPSTICKS, CAKE, LIQUID AND CREAM ROUGES, TALCUM POWDER, NAIL POLISH REMOVER, PADS IMPREGNATED WITH NAIL POLISH REMOVER, CUTICLE SOFTENER, CUTICLE REMOVER, HAND LOTIONS, NAIL POLISHES, HAND CREAMS, HAIR WAX, PADS IMPREGNATED WITH LACQUER FOR USE IN DRESSING THE HAIR, HAIR TONICS, HAIR OIL, BRILLIANTINE (SOLID AND LIQUID), SHAMPOOS, HAIR WAVE LOTIONS, HAIR BLEACHES, POMADES (IN POTS, STICKS AND CAKES), EYEBROW PENCIL, MASCARA, EYE SHADOW, TOILET WATER, PERFUME, CREAM COLOGNE, EAU DE COLOGNE, BATH SALTS, SMELLING SALTS, SACHET POWDERS, DUSTING POWDER, DEODORANTS (LIQUID AND CREAM FORM), PADS IMPREGNATED WITH LIQUID AND CREAM DEODORANTS AND DEPILATORIES IN SOLID, CAKE AND LIQUID FORM.
Claims use since June 28, 1946.

Ser. No. 506,503. BOTANY WORSTED MILLS, Passaic, N. J. Filed July 30, 1946.

Prize Rose

The word "Rose" is disclaimed apart from the mark.
FOR POWDER FOR THE TOILETTE.
Claims use since June 21, 1946.

Ser. No. 506,631. DUCHESS D'ANDRE, Chicago, Ill. Filed Aug. 1, 1946.

Sherol
"THE HEART OF LANOLIN"

No claim is made to the words "The Heart of Lanolin" apart from the mark.
FOR CREME HAIR SHAMPOO.
Claims use since Mar. 15, 1946.

Ser. No. 506,728. E. D. W. BEARY & CO., INC., New Orleans, La. Filed Aug. 2, 1946.

Double
Bug
Trouble

No claim is made to the words "Bug Trouble" apart from the mark as shown.
FOR INSECTICIDE.
Claims use since Apr. 7, 1945.

Ser. No. 506,978. ASSOCIATED PRODUCTS, INC., Chicago, Ill. Filed Aug. 7, 1946.

PLUSH RED

Applicant disclaims the word "Red" apart from the mark as shown.
FOR FACE LOTIONS, SKIN BLEACHES, VANISHING, CLEANSING AND COLD CREAMS, PADS CHEMICALLY IMPREGNATED WITH A CREAM OR LOTION FOR USE IN CLEANSING THE FACE, FACE POWDER, FACE MAKE-UP IN LIQUID FORM, CAKE MAKE-UP, LIPSTICKS, CAKE, LIQUID AND CREAM ROUGES, TALCUM POWDER, NAIL POLISH REMOVER, PADS IMPREGNATED WITH NAIL POLISH REMOVER, CUTICLE SOFTENER, LIQUID CUTICLE REMOVER, HAND LOTIONS, NAIL POLISHES, HAND CREAMS, HAIR WAX, HAIR LACQUER PADS, HAIR TONICS, HAIR OIL, BRILLIANTINE (SOLID AND LIQUID), SHAMPOOS, HAIR WAVE LOTIONS, HAIR BLEACHES, POMADES (IN POTS, STICKS AND CAKES), EYEBROW PENCIL, MASCARA, EYE SHADOW, TOILET WATER, PERFUME, CREAM COLOGNE, EAU DE COLOGNE, BATH SALTS, SMELLING SALTS, SACHET POWDERS, DUSTING POWDER, DEODORANTS (LIQUID AND CREAM FORM), PADS IMPREGNATED WITH LIQUID, AND CREAM DEODORANTS AND DEPILATORIES IN SOLID, CAKE AND LIQUID FORM.
Claims use since June 29, 1946.

Ser. No. 507,229. AMERICAN FOODS, INC., Buffalo, N. Y. Filed Aug. 12, 1946.

YAMINO

FOR HYDROLYZED PROTEIN PREPARATIONS.
Claims use since July 24, 1946.

Ser. No. 507,313. SALVATORE GRASSO, Syracuse, N. Y. Filed Aug. 13, 1946.

SAL-GRA

No claim is made to the word "Sal" apart from the mark as shown.
FOR LINIMENT FOR USE IN RELIEF OF DISCOMFORTS ASSOCIATED WITH RHEUMATISM, NEURALGIA, NEURITIS AND LUMBAGO.
Claims use since 1943.

Ser. No. 507,583. HEYDEN CHEMICAL CORPORATION, New York, N. Y. Filed Aug. 17, 1946.

M. D. A.

FOR TECHNICAL 4,4'-DIHYDROXYDIPHENYLMETHANE-3,3'-DICARBOXYLIC ACID (ALSO KNOWN AS 5,5'-METHYLENE DISALICYLIC ACID).
Claims use since about Jan. 19, 1945.

Ser. No. 507,616. BIOCHEMICAL PRODUCTS CORPORATION, New York, N. Y. Filed Aug. 19, 1946.

RECTOBIS

FOR BISMUTH COMPOUND TO BE USED AS A SUPPOSITORY IN THE TREATMENT OF THROAT AFFECTIONS.
Claims use since Aug. 2, 1946.

Ser. No. 507,684. MIFFLIN CHEMICAL COMPANY, Philadelphia, Pa. Filed Aug. 20, 1946.

DERMIUM

FOR RUBBING ALCOHOL.
Claims use since on or about Aug. 2, 1946.

Ser. No. 507,696. SARESA COMPANY, Port Chester, N. Y. Filed Aug. 20, 1946.

SARESA

FOR OINTMENT FOR BURNS, SUNBURN, BRUISES, CHAPPING, AND IRRITATIONS.
Claims use since May 16, 1946.

Ser. No. 507,816. PAUL JOHN GUNDLACH, doing business as Fremont Products Company, Cleveland, Ohio. Filed Aug. 22, 1946.

DET'RON

FOR VITAMIN PREPARATION.
Claims use since September 1942.

Ser. No. 508,265. BOYLE AND COMPANY, Los Angeles, Calif. Filed Aug. 30, 1946.

BIO-TRON

FOR PREPARATION CONSISTING OF LIVER, IRON AND VITAMIN B COMPLEX, IN CAPSULE FORM, USED IN THE TREATMENT OF HYPOCHROMIC ANEMIA.
Claims use since Aug. 3, 1940.

Ser. No. 511,780. ABBOTT LABORATORIES, North Chicago, Ill. Filed Oct. 31, 1946.

SYRACEE

FOR VITAMIN PREPARATION CONTAINING VITAMIN C.
Claims use since Oct. 19, 1946.

CLASS 7

CORDAGE

Ser. No. 513,918. THE VITRON CORPORATION, Wilmington, Del. Filed Dec. 7, 1946.

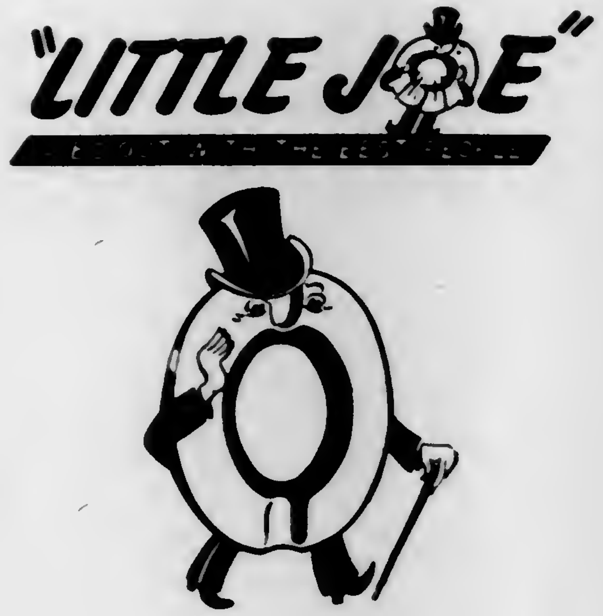
Vitron

FOR CORDAGE MADE OF GLASS FIBER MATERIALS.
Claims use since Oct. 30, 1946.

CLASS 8

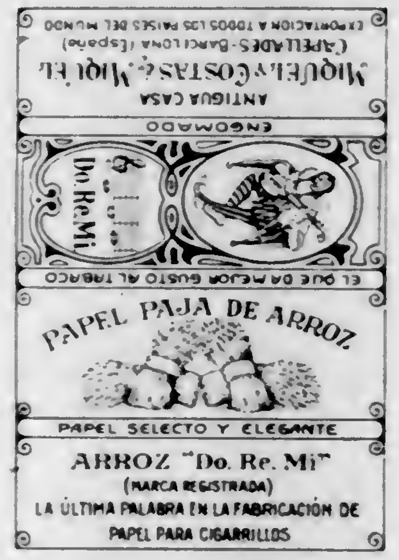
SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 501,089. **Saul Roth**, doing business as Argus Equipment Company, New York, N. Y. Filed Apr. 27, 1946.



Applicant disclaims the representation of the goods shown in the drawing, apart from the mark.
FOR ASH TRAYS.
Claims use since Mar. 28, 1946.

Ser. No. 505,440. **Miquel y Costas & Miquel, S. A.**, Barcelona, Spain. Filed July 11, 1946.



No claim is made to the wording shown except the expression "Do. Re. Mi." nor is any claim made to the representation of a label per se.
FOR CIGARETTE PAPER CUT TO SIZE.
Claims use since June 1929.

CLASS 10

FERTILIZERS

Ser. No. 507,505. **Atlas Fertilizer & Grinding Co.**, Colma, Calif. Filed Aug. 16, 1946.

WHITE LINE

FOR FERTILIZERS.
Claims use since June 12, 1946.

CLASS 13

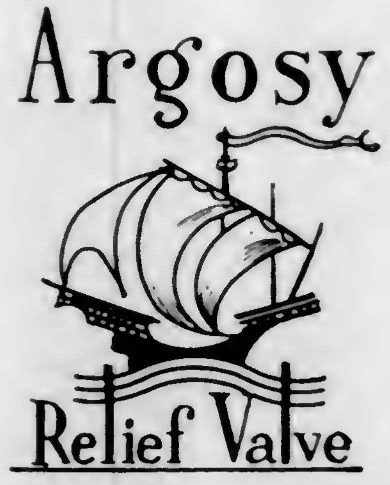
HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 497,582. **United Aircraft Products, Inc.**, Dayton, Ohio. Filed Mar. 2, 1946.

UNITED AIRCRAFT PRODUCTS, INC. — DAYTON, OHIO —
UAP

The words "United Aircraft Products, Inc.—Dayton, Ohio" are disclaimed apart from the mark.
FOR METAL BAKING PANS.
Claims use since Oct. 31, 1945, for the mark shown; and since 1932 for the letters UAP within a circle.

Ser. No. 503,472. **Samuel Skner**, New York, N. Y. Filed June 7, 1946.



The words "Relief Valve" are disclaimed apart from the mark as shown.
FOR RELIEF VALVES FOR RELIEVING BOILERS, TANKS, PUMPS, AND OTHER WATER CONTAINING VESSELS OF EXCESS PRESSURE.
Claims use since May 18, 1946.

Ser. No. 506,134. **The Standard Products Company**, Detroit, Mich. Filed July 23, 1946.

ICE TREAT

No claim is made to the word "Ice" apart from the mark.
FOR MOLDS FOR THE PRODUCTION OF FROZEN CONFECTIONERY AND SIMILAR MOLDED FOOD PRODUCTS.
Claims use since June 28, 1946.

Ser. No. 506,709. **The Union Metal Manufacturing Company**, Canton, Ohio. Filed Aug. 1, 1946.

UNIONMETAL

The word "Metal" is disclaimed apart from the mark as shown.
FOR ROLLED OR PRESSED, STRAIGHT OR CYLINDRICAL OR TAPERED, PLAIN OR FLUTED, METAL PIPES, TUBES, AND POLES NOT INCLUDING ELECTRICAL EQUIPMENT, FOR METAL SIGN STANDARDS AND METAL PARKING METER STANDARDS; AND FOR REDRAWN METAL TUBES.
Claims use since 1926 on pipes, tubes and poles; since 1928 on metal sign standards; since 1937 on metal parking meter standards; and since 1935 on redrawn tubes.

Ser. No. 508,768. **Western Home Products Co.**, San Francisco, Calif. Filed Sept. 9, 1946.

Naturain

FOR LAWN SPRINKLERS.
Claims use since May 1, 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 492,563. **Kloster Steel Corporation**, Chicago, Ill. Filed Dec. 3, 1945.

"HI-RUN"

No claim is made to the word "Hi" apart from the mark.
FOR DIE AND TOOL STEEL.
Claims use since February 1938.

Ser. No. 498,067. **The W. O. Larson Foundry Company**, Grafton, Ohio. Filed Mar. 12, 1946.

C-IRON

No claim is made to the word "Iron" apart from the mark shown.
FOR IRON CASTINGS AND FERROUS METAL CASTINGS.
Claims use since Jan. 1, 1935.

CLASS 15

OILS AND GREASES

Ser. No. 487,159. **Allied Petroleum Corp.**, Chicago, Ill. Filed Aug. 17, 1945.

Roadway

FOR MOTOR LUBRICATING OIL.
Claims use since Aug. 1, 1937.

Ser. No. 488,111. **Malco Refineries, Incorporated**, Artesia, N. Mex. Filed Sept. 7, 1945.

MALCO

FOR GASOLINE, KEROSENE, DISTILLATE, GAS FUEL, BURNER FUEL, AND TRACTOR FUEL.
Claims use since Apr. 30, 1931.

Ser. No. 488,594. **G. Clark La Porte**, doing business as La Porte Industries, Baltimore, Md. Filed Sept. 17, 1945.

Octex

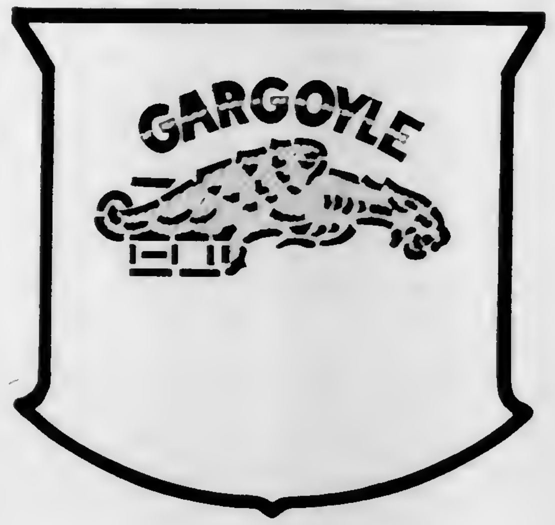
FOR TOP CYLINDER LUBRICATING OIL.
Claims use since May 11, 1945.

Ser. No. 497,210. SUN OIL COMPANY, Philadelphia, Pa. Filed Feb. 25, 1946.

NUSCO

FOR LUBRICATING GREASE COMPOUND MARKETED IN DRUMS FOR USE IN PACKING BEARINGS SUCH AS JOURNAL BOXES.
Claims use since Jan. 15, 1919.

Ser. No. 504,400. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed June 21, 1946.



The drawing is lined for shading purposes only.
FOR PETROLEUM AND PRODUCTS OF PETROLEUM WITH OR WITHOUT ADMIXTURES OF OTHER MATERIALS FOR ILLUMINATING, HEATING, POWER, BURNING, LUBRICATING, CUTTING, GREASING, TEMPERING, QUENCHING, SLUSHING, AND FLUSHING; MINERAL WAX, CANDLES, AND PENETRATING OILS.
Claims use since Aug. 5, 1946.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 508,349. WORTH LACQUER AND CHEMICAL COMPANY, New York, N. Y., assignor to Worth Lacquer and Chemical Company, Inc., New York, N. Y. Filed Aug. 30, 1946.

FLASHO
QUICK AS A FLASH

No claim is made to the expression "Quick as a Flash" apart from the mark.
FOR ENAMEL LIQUID LACQUER.
Claims use since Oct. 20, 1944.

CLASS 19

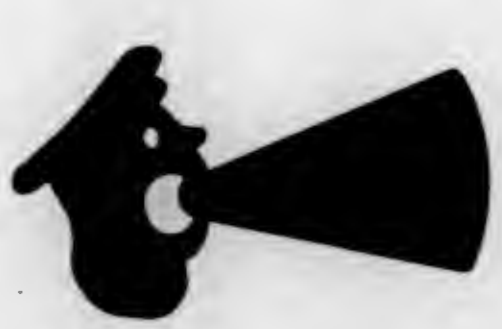
VEHICLES

Ser. No. 498,366. THE ACME AWNING COMPANY, Cleveland, Ohio. Filed Mar. 18, 1946.

SPRINGBANK SEAT

No claim is made to the word "Seat" apart from the mark.
FOR CUSHIONS AND SEATS FOR TRACTOR, AUTOMOBILES AND OTHER AUTOMOTIVE VEHICLES AND TEXTILE REMOVABLE COVERINGS FOR SUCH SEATS.
Claims use since Mar. 5, 1946.

Ser. No. 509,315. DONALD B. ABBOTT, Mamaroneck, N. Y. Filed Sept. 19, 1946.

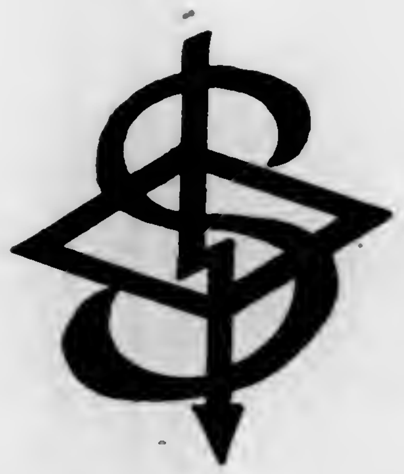


FOR SAIL BOATS, WITH OR WITHOUT AUXILIARY POWER AND SAILS THEREFOR.
Claims use since June 17, 1946.

CLASS 21

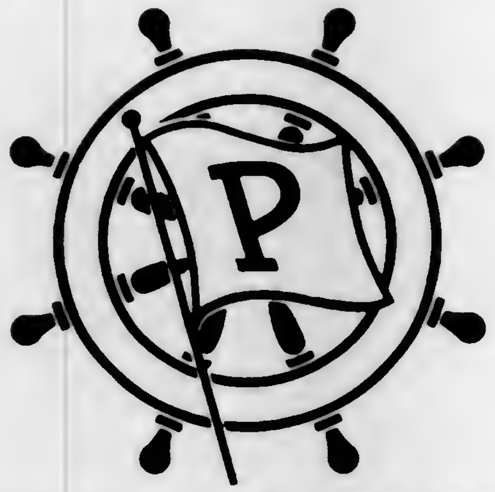
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 486,071. SAFCO-TREVOUX, Paris, France. Filed July 20, 1945.



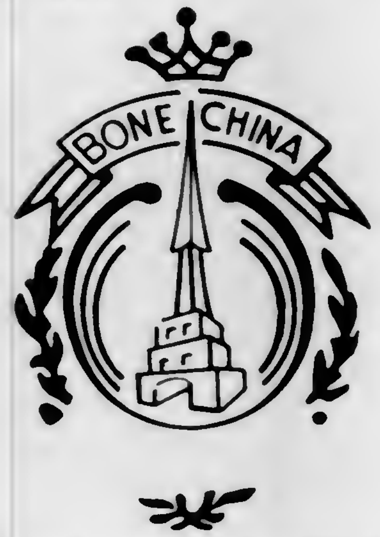
FOR ELECTRICAL CONDENSERS.
Claims use since July 2, 1942.

Ser. No. 488,415. PILOT MARINE CORPORATION, New York, N. Y. Filed Sept. 13, 1945.



FOR ELECTRICAL SOUND REPRODUCING AND AMPLIFYING EQUIPMENT, FREQUENTLY REFERRED TO AS PUBLIC ADDRESS SYSTEMS, AND ELECTRICAL SIGNALING SYSTEMS FOR COMMUNICATING ORDERS AND ACKNOWLEDGEMENTS OF ORDERS BETWEEN THE BRIDGE AND ENGINE ROOM OF A SHIP, FREQUENTLY REFERRED TO AS ENGINE ORDER TELEGRAPHS.
Claims use since Jan. 25, 1945.

Ser. No. 490,820. ERIC H. GORT, INC., Metuchen, N. J. Filed Oct. 31, 1945.



The words "Bone China" are disclaimed except as a part of the mark.
FOR CERAMIC BASES FOR ELECTRIC LAMPS.
Claims use since Feb. 10, 1945.

Ser. No. 491,417. THE LIQUILITE COMPANY, Dallas, Tex. Filed Nov. 10, 1945.

Liquilite

FOR ELECTRICALLY ILLUMINATED DRINKING GLASS COASTERS, ELECTRICALLY ILLUMINATED CHRISTMAS TREES AND ILLUMINATED CENTERPIECES.
Claims use since Feb. 15 1945.

Ser. No. 493,451. OAKES & COMPANY, Chicago, Ill., assignor to Oakes & Company, Chicago, Ill., a corporation of Illinois. Filed Dec. 17, 1945.

TONE-TEST

No claim is made to the word "Test" apart from the mark.
FOR FUSE PLUGS, LIGHT SOCKETS, LIGHTING FIXTURES, FLOOR AND TABLE LAMPS, INCANDESCENT LAMPS, ELECTRIC LIGHTING PLANTS, ELECTRIC MOTORS, BATTERY CHARGERS; AUTOMOBILE AND TRACTOR PARTS—NAMELY, IGNITION COILS, DISTRIBUTORS, SPARK PLUGS, STARTERS, IGNITION WIRE AND CABLE, GENERATORS AND PARTS THEREOF, ELECTRIC HORNS, HEAD AND TAIL LIGHTS, FOG LIGHTS, LIGHT BULBS, FUSES, STARTER SWITCHES, ELECTRIC WINDSHIELD WIPERS; ELECTRIC APPLIANCES—NAMELY, FOOD MIXERS AND JUICERS, ROASTERS, WAFFLE IRONS, PERCOLATORS, IRONS, VACUUM CLEANERS, CIRCULATING HEATERS, STOVES, AND HOT PLATES.
Claims use since Oct. 1, 1945.

Ser. No. 498,922. OAKES & COMPANY, Chicago, Ill., assignor to Oakes & Company, Chicago, Ill., a corporation of Illinois. Filed Mar. 25, 1946.

Style Craft

No claim is made to the word "Style" apart from the mark.
FOR ELECTRIC FLOOR, BRIDGE, TABLE AND BED LAMPS; ELECTRIC VACUUM CLEANERS AND ELECTRIC KITCHEN STOVES.
Claims use since Feb. 1, 1946.

Ser. No. 499,203. CINEFLEX CORPORATION, Rutland, Vt. Filed Mar. 29, 1946.

GAIETY

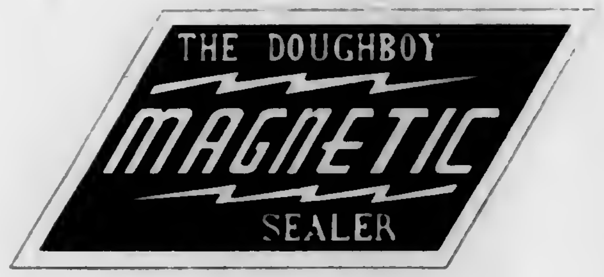
FOR ELECTRIC PHONOGRAPHS.
Claims use since Mar. 5, 1946.

Ser. No. 501,509. ILLINOIS WATCH CASE CO., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Filed May 6, 1946. Under section 5b of the act of 1905 as amended in 1920.

Elgin American

FOR RADIO RECEIVING SETS.
Claims use since Apr. 6, 1946.

Ser. No. 504,479. DOUGHBOY INDUSTRIES, INC., New Richmond, Wis. Filed June 24, 1946.



No claim is made to the words "Magnetic" and "Sealer" apart from the mark as shown.

FOR ELECTRICALLY HEATED AND OPERATED BAR TYPE MACHINE FOR APPLYING HEAT AND PRESSURE TO THERMOPLASTIC SHEETS FOR UNITING THE SAME.

Claims use since Mar. 27, 1946.

Ser. No. 505,330. ALLIED ELECTRONICS COMPANY, New York, N. Y. Filed July 10, 1946.

Ultravox

FOR MACHINES FOR ELECTRICALLY RECORDING SOUNDS ON RECORDS AND MACHINES FOR ELECTRICALLY REPRODUCING SOUNDS FROM RECORDS.

Claims use since Oct. 26, 1945.

Ser. No. 508,962. TAYLOR BARNES, doing business as Shreveport Engineering Company, Shreveport, La. Filed Sept. 13, 1946.

BREEZEBUILDER

No claim is made to the word "Breeze" apart from the mark.

FOR ELECTRICAL VENTILATING FANS.

Claims use since Aug. 12, 1946.

Ser. No. 509,288. JORDAN ELECTRICAL MANUFACTURING COMPANY, Minneapolis, Minn. Filed Sept. 18, 1946.

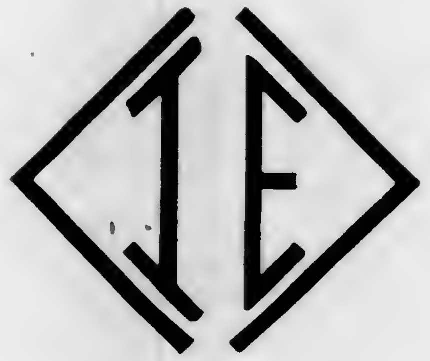
PERMA-CHARGER

No claim is made to the exclusive use of the word "Charger" apart from the mark as shown.

FOR APPARATUS FOR CHARGING STORAGE BATTERIES AND PARTS THEREOF.

Claims use since Jan. 11, 1946.

Ser. No. 509,632. JAMES A. BURCKHALTER, doing business as Integral Electrics, Barnwell, S. C. Filed Sept. 24, 1946.



FOR DISTRIBUTOR CAPS AND CABLES FOR INTERNAL COMBUSTION ENGINES.

Claims use since July 17, 1946.

Ser. No. 510,228. AUTOMATIC HOUSEHOLD AIDS, INC., New York, N. Y. Filed Oct. 4, 1946.

GUEST

FOR RADIO RECEIVING SETS.

Claims use since May 1946.

Ser. No. 510,364. SPIRLING PRODUCTS CO., INC., New York, N. Y. Filed Oct. 5, 1946.

PERMA-TENSION

For purposes of registration, the word "Tension" is disclaimed apart from the mark.

FOR AUTOMOBILE RADIO ANTENNAE.

Claims use since Jan. 1, 1946.

Ser. No. 510,954. JOHN G. HOLLIN, doing business as International Export Company, San Francisco, Calif. Filed Oct. 16, 1946.

FOR RADIO RECEIVING SETS.

Claims use since Aug. 5, 1946.

Ser. No. 511,019. VICTOR C. HUFF, doing business as Victor C. Huff Company, Newark, N. J. Filed Oct. 17, 1946.

JIFFY SEALER

No claim is made to the word "Sealer" apart from the mark.

FOR ELECTRICAL SEALING TONGS FOR HEAT SEALING TRANSPARENT CELLULOSE SHEETS OR FILMS.

Claims use since July 6, 1946.

Ser. No. 512,090. REGENCY ELECTRIC MANUFACTURING CORP., New York, N. Y. Filed Nov. 5, 1946.

Regent

FOR ELECTRIC STOVES, ELECTRIC TOASTERS, ELECTRIC SANDWICH GRILLS, AND ELECTRIC APPLIANCE AND EXTENSION CORDS.

Claims use since May 1, 1945.

Ser. No. 512,918. FRED A. METLEN, Seattle, Wash. Filed Nov. 20, 1946.

FRED LITE

No claim is made to the word "Lite" apart from the mark.

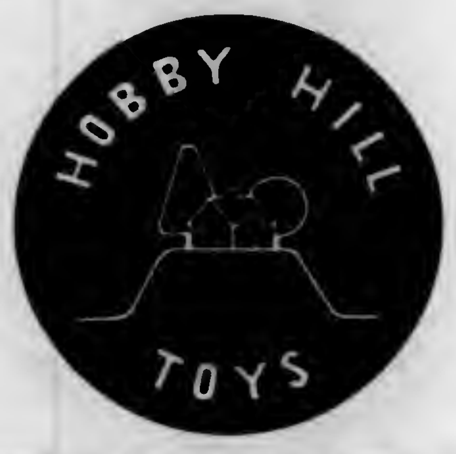
FOR REFLECTORS FOR ELECTRIC LIGHTS.

Claims use since June 15, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 484,020. HOBBY HILL, Chicago, Ill. Filed May 31, 1945.



FOR WHEELED PULL TOYS HAVING CHARACTERS SUCH AS BOATS OR THE LIKE MOUNTED ON WHEEL-SUPPORTED PLATFORMS; TOYS IN THE FORM OF ANIMALS HAVING JACK-IN-THE-BOX FEATURES IN THE BODIES THEREOF; EDUCATIONAL TOYS HAVING ROTATABLE DISCS REMOVABLY SUPPORTING PEGS OF DIFFERENT COLORS.

Claims use since June 1, 1944.

Ser. No. 484,026. HOBBY HILL, Chicago, Ill. Filed May 31, 1945.

"MERRY-PEG"

Applicant disclaims the term "Peg" apart from the mark as shown.

FOR EDUCATIONAL TOYS HAVING ROTATABLE DISCS REMOVABLY SUPPORTING PEGS OF DIFFERENT COLORS.

Claims use since Aug. 1, 1944.

Ser. No. 488,550. JOHN W. STEVENS, Sparkill, N. Y. Filed Sept. 15, 1945.

ATHLASTIC

FOR ELASTIC COTTON OR OTHER FABRIC BANDAGES FOR ALL SPORTS USE, INCLUDING GOLF, BASEBALL, TENNIS, ETC.

Claims use since Aug. 29, 1945.

Ser. No. 489,891. WYNNE PRECISION COMPANY, Griffin, Ga. Filed Oct. 12, 1945.

Ol' Fisherman

No claim is made to the word "Fisherman" apart from the mark as shown.

FOR FISHING TACKLE—NAMELY, FISHING FLY BOOKS, REELS, RODS, HOOKS, LINES, LEADERS, SPINNERS, FISH LURES, ARTIFICIAL FISH BAITS, CREELS, NETS, STRINGERS, SINKERS, FLOATS, CHAMOIS WIGGLERS, AND VICES.

Claims use since Sept. 27, 1945.

Ser. No. 490,074. NANCY ANN DRESSED DOLLS, San Francisco, Calif., assignor to Nancy Ann Storybook Dolls, Inc., San Francisco, Calif., a corporation of California. Filed Oct. 17, 1945.

LITTLE
BETTY
BLUE

The term "Little Betty Blue" is derived from the old English nursery rhyme

"Little Betty Blue, lost her holiday shoe,
What can little Betty do?
Give her another, to match the other,
And then she may walk in two."

and has no reference to any living character.

FOR DRESSED DOLLS.

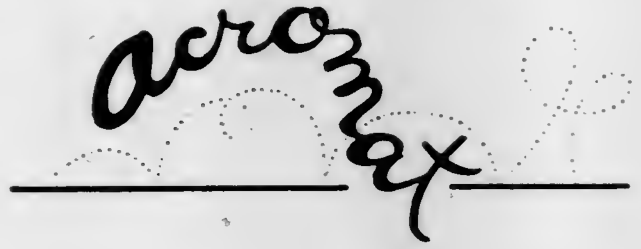
Claims use since Jan. 1, 1941.

Ser. No. 500,085. Clyde E. Kolb, doing business as Tourn-A-Grip Company, Birmingham, Mich. Filed Apr. 12, 1946.

TOURN A GRIP

The word "Grip" is disclaimed apart from the mark shown.
FOR FISHING RODS.
Claims use since Oct. 17, 1945.

Ser. No. 500,890. Fred Medart Manufacturing Company, St. Louis, Mo. Filed Apr. 25, 1946.



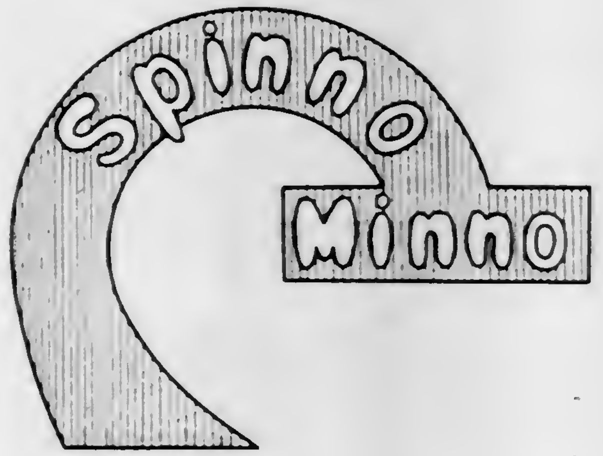
FOR TRAMPOLINES.
Claims use since Apr. 9, 1946.

Ser. No. 501,116. Stephen G. Cartledge, doing business as Avalon Novelty Co., Chicago, Ill. Filed Apr. 29, 1946.

POUCHY
AND HER
POOCHIES

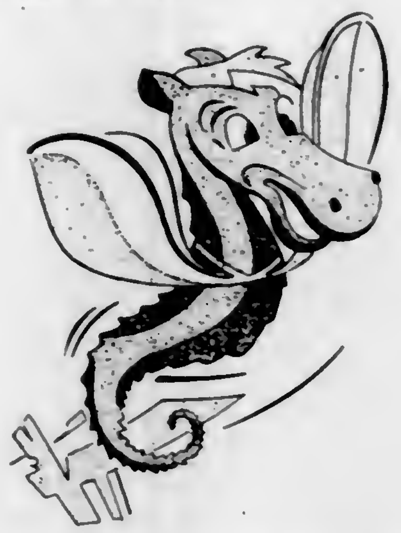
FOR TOY KANGAROOS.
Claims use since Mar. 15, 1946.

Ser. No. 501,293. Uniline Manufacturing Corporation, Dallas, Tex. Filed May 1, 1946.



The vertical parallel lining within the border of the figure indicates a red color. No claim is made to the word "Minno" separate and apart from the mark as shown.
FOR FISH LURES.
Claims use since May 1944.

Ser. No. 501,896. Ayvad Water-Wings, Inc., Union City, N. J. Filed May 14, 1946.



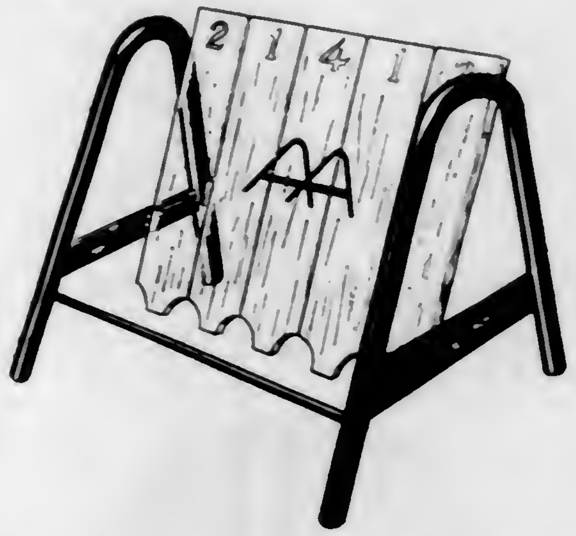
Applicant disclaims the representation of the inflated swim support on the sea-horse.
FOR INFLATABLE SWIM SUPPORTS.
Claims use since Feb. 15, 1946.

Ser. No. 502,014. Shakespeare Company, Kalamazoo, Mich. Filed May 13, 1946.

WONDER-FULL

The word "Full" is disclaimed apart from the mark shown.
FOR FISHING REELS.
Claims use since about Sept. 1, 1941.

Ser. No. 502,551. David S. Alves, Richmond, Calif. Filed May 22, 1946.



Applicant disclaims the use of the representation of the game as shown.
FOR BOWLING GAME.
Claims use since May 3, 1946.

Ser. No. 502,798. Butler Brothers, Chicago, Ill. Filed May 27, 1946.

King Caster

The word "Caster" is disclaimed apart from the mark as shown.
FOR FISHING RODS.
Claims use since Apr. 5, 1946.

Ser. No. 503,034. Aluminum & Steel Fabricating Company, Chicago, Ill. Filed May 31, 1946.

TUFFY CLIPPER

Applicant disclaims the exclusive use of the word "Clipper" apart from the mark as shown.
FOR TOY LAWN MOWERS.
Claims use since Apr. 1, 1946.

Ser. No. 503,104. Lansing Company, Inc., doing business as Lansing Button Co., Lansing, Iowa. Filed May 31, 1946.

SLIK-TOY

Applicant disclaims the word "Toy" apart from the mark shown.
FOR TOY AUTOMOBILES.
Claims use since Dec. 29, 1945.

Ser. No. 503,636. Arthur N. Corner, New York, N. Y. Filed June 11, 1946.

ALPHA-
BILDERS

The word "Bilders" is disclaimed apart from the mark as shown.
FOR TOY BUILDING BLOCKS.
Claims use since June 1, 1946.

Ser. No. 509,509. General Machine Company, Milwaukee, Wis. Filed Sept. 21, 1946.

RITE-ARC
DROP-IN

No claim is made for the term "Rite-Arc" apart from the mark as shown.
FOR GOLF CLUBS OF THE CHARACTER KNOWN AS "PUTTERS."
Claims use since Aug. 28, 1946.

Ser. No. 509,512. General Machine Company, Milwaukee, Wis. Filed Sept. 21, 1946.

RITE-ARC
FALL-IN

No claim is made for the term "Rite-Arc" apart from the mark as shown.
FOR GOLF CLUBS OF THE CHARACTER KNOWN AS "PUTTERS."
Claims use since Aug. 28, 1946.

Ser. No. 515,421. Grossman Music Co., Cleveland, Ohio. Filed Jan. 8, 1947.

SAX O FUN

The word "Sax" is disclaimed apart from the mark.
FOR TOY MUSICAL HUMMING INSTRUMENTS.
Claims use since Oct. 1, 1946.

Ser. No. 518,513. Bayshore Industries, Inc., Elkton, Md. Filed Mar. 5, 1947.

Steri-Clean

Applicant disclaims the right to the exclusive use of the word "Clean" apart from the other features of the mark.
FOR TOY BALLOONS.
Claims use since Feb. 18, 1947.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 472,097. The Cleveland Formgrader Company, Cleveland, Ohio. Filed July 11, 1944.

SPEED-HEAVER

The word "Speed" is disclaimed apart from the mark.
FOR PORTABLE MOTOR-DRIVEN BELT CONVEYOR, FOR COAL AND OTHER LOOSE MATERIALS, ADAPTED TO BE CARRIED ON A TRUCK AND INCLUDING SUPPORTING MECHANISM FOR CONNECTING THE CONVEYOR TO THE TRUCK BODY OR CHASSIS.
Claims use since June 28, 1944.

Ser. No. 473,801. Bucyrus-Erie Company, South Milwaukee, Wis. Filed Sept. 1, 1944. Under 10-year proviso.

BUCYRUS
ERIE

FOR POWER SHOVELS; RAILWAY-TYPE POWER SHOVELS; REVOLVING POWER SHOVELS; EXCAVATING MACHINERY AND EXCAVATORS—NAMELY, GRAB-BUCKET EXCAVATORS, CLAMSHELL EXCAVATORS, ORANGE PEEL EXCAVATORS, DRAGLINE EXCAVATORS, TRENCH EXCAVATORS, TOWER EXCAVATORS, COAL LOADERS, AND COAL-LOADING MACHINERY; DREDGES AND DREDGING MACHINERY—NAMELY, DIPPER DREDGES, ELEVATOR DREDGES, ALLUVIAL MINING DREDGES, CLAM-

SHELL DREDGES, AND HYDRAULIC OR SUCTION DREDGES; UNLOADING PLOWS; SPREADER PLOWS; UNLOADING MACHINES; CRANES—NAMELY, TRAVELING CRANES, CRAWLER-MOUNTED CRANES, TRUCK-MOUNTED CRANES, RAILWAY WRECKING CRANES, AND RAILWAY BREAKDOWN CRANES; PILE DRIVERS—NAMELY, RAILWAY LOCOMOTIVE PILE DRIVERS, RAILWAY PILE DRIVING MACHINES, CRAWLER-MOUNTED PILE DRIVERS, AND FLOATING PILE DRIVERS; PUMPS—NAMELY, PUMPS FOR EXCAVATING PURPOSES, LIQUID PUMPS, AND AIR PUMPS; HOISTS—NAMELY, POWER-OPERATED HOISTS, MANUALLY-OPERATED HOISTS, AND POWER BOOM HOISTS; DERRICKS—NAMELY, POWER-OPERATED DERRICKS, MANUALLY-OPERATED DERRICKS, FLOATING DERRICKS, AND MOBILE DERRICKS; WINCHES; AIR COMPRESSORS; NON-ELECTRIC POWER OPERATED FANS FOR INDUSTRIAL USES; COOLING FANS FOR POWER PLANTS; STEAM ENGINES; CREEPING TRACTION MECHANISM; REVETMENT PLANTS; FORCE-FEED LUBRICATORS; ROLLERS FOR USE WITH MACHINES MOUNTED ON SKIDS; HYDRAULIC JACKS; RATCHET JACKS; INJECTORS; DIPPER TRIPS; FUEL HOISTS; LIFTING BEAMS; DREDGE BUCKETS; GRAB BUCKETS; CLAMSHELL BUCKETS; ORANGE-PEEL BUCKETS; DRAG BUCKETS; EXCAVATING DIPPERS; WALKING EXCAVATORS—NAMELY, WALKING POWER SHOVELS AND WALKING DRAGLINES; WALKING MECHANISMS FOR EXCAVATORS; CAR-TRANSPORTERS; TRACTOR EQUIPMENT—NAMELY, BULLDOZERS, BOTH FIXED AND ANGLING, OPERATED HYDRAULICALLY AND/OR BY CABLE, CARRYING SCRAPERS, OPERATED HYDRAULICALLY AND/OR BY CABLE, TRACTOR-SHOVELS, TRACTOR-DRAWN RIPPERS, TAMPING ROLLERS, TRACTOR-PROPELLED GRUBBERS, PUSHER PLATES FOR TRACTORS, CABS FOR TRACTORS, HYDRAULIC POWER ACTUATED CONTROL UNITS, AND TRACTOR WINCHES; SNOWPLOWS; DRILLS, BOTH CHURN-TYPE AND CABLE-TOOL, AND BOTH WHEEL-MOUNTED, CRAWLER-MOUNTED, TRUCK-MOUNTED, AND SKID-MOUNTED; BIT-DRESSERS FOR SHAPING DRILL BITS; BIT CRANES; DRILL EQUIPMENT—NAMELY, BITS, DRILL STEMS, SINKER BARS, STUBS, SUBS, JARS, JAR BUMPERS, TOOL WRENCHES, SPUDS, LATCH JACKS, ROPE SPEARS, HORN SOCKETS, FRICTION SOCKETS, ROUND REAMERS, WIRE LINE SAVERS, VALVES FOR BAILERS, CHANGE LINKS, DRIVE CLAMPS, ANVIL BLOCKS, CASING RINGS, AND SLIPS FOR CASING RINGS; ROPE SOCKETS; DIPPER TEETH AND LIPS; BUCKET TEETH AND LIPS; AND REPAIR, SPARE AND REPLACEMENT PARTS AND UNITS FOR THE SPECIFIED GOODS; SUCH OF THE FOREGOING AS ARE POWER-OPERATED BEING OPERATED BY STEAM POWER, ELECTRICALLY OPERATED, GASOLINE-ENGINE POWER, DIESEL-ENGINE POWER, SEMI-DIESEL-ENGINE POWER, OR OTHER POWER.

Claims use since 1888 as to "Bucyrus"; since 1922 as to "Erie"; and since January 1928 as to the mark as shown.

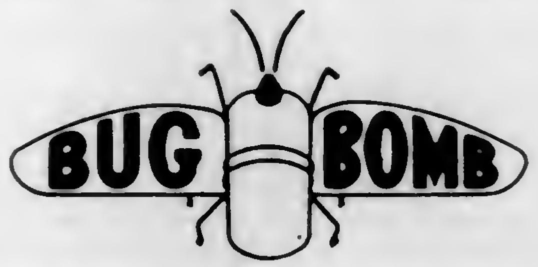
Ser. No. 477,945. The New Home Sewing Machine Company, Rockford, Ill. Filed Dec. 26, 1944.

The word "Light-Running" is disclaimed apart from the mark as a whole.

FOR SEWING MACHINES AND ATTACHMENTS.

Claims use since Dec. 19, 1944.

Ser. No. 481,506. Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., now by change of name Westinghouse Electric Corporation, a corporation of Pennsylvania. Filed Mar. 29, 1945.



No claim is made for the word "Bug" apart from the mark as shown.

FOR MANUALLY CONTROLLED AUTOMATIC SPRAYERS FOR PRODUCING INSECTICIDE AEROSOL.

Claims use since on or about Apr. 15, 1944.

Ser. No. 487,002. Gustaf Ruben Nordfelt, Stockholm, Sweden. Filed Aug. 10, 1945.

LEED

FOR RAZOR BLADES, RAZORS, AND SAFETY RAZORS.

Claims use since June 26, 1945.

Ser. No. 487,433. William Osiecky, doing business as Norwalk Razor & Blade Co., Newark, N. J. Filed Aug. 22, 1945.

LUCKY BOY

FOR RAZOR BLADES.

Claims use since Aug. 15, 1935.

Ser. No. 489,736. Harvey Manufacturing Company, Racine, Wis. Filed Oct. 10, 1945. Under 10-year proviso.

Harvey

FOR HAMMER MILLS, FOR THE CRUSHING OF CORN AND OTHER GRAINS; AND CORN SHELLERS, FOR REMOVING KERNELS FROM THE EARS.

Claims use since 1890.

Ser. No. 494,187. Clarence McFaull, doing business as Mammoth Tree Shears Company, San Antonio, Tex. Filed Jan. 2, 1946.

MAMMOTH

FOR TREE SHEARS.

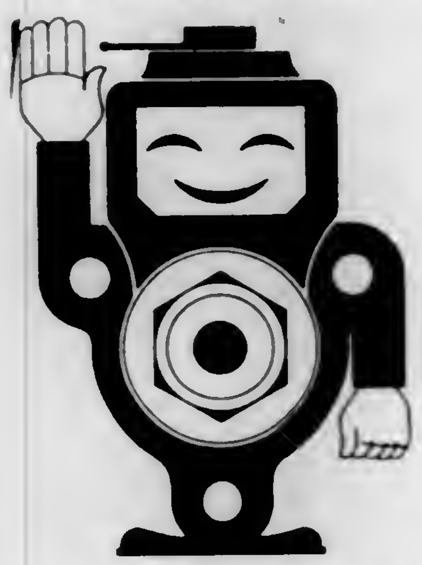
Claims use since Dec. 10, 1945.

Ser. No. 494,494. A. Finkl & Sons Company, Chicago, Ill. Filed Jan. 9, 1946.

FOR PISTON RODS, CRANKSHAFTS, RAMS AND FORGED PARTS FOR DROP HAMMERS AND OTHER FORGING MACHINES.

Claims use since Jan. 1, 1937.

Ser. No. 495,554. The New York Air Brake Company, Watertown, N. Y. Filed Jan. 28, 1946.



FOR MASTER CYLINDERS FOR HYDRAULIC BRAKES AND PARTS THEREOF.

Claims use since Oct. 26, 1945.

Ser. No. 496,105. Peter Schlumbohm, New York, N. Y. Filed Feb. 6, 1946.

Minnehaha

FOR DRINK MIXER.

Claims use since Jan. 15, 1946.

Ser. No. 500,518. Bob Burns Machinery Co., Fort Worth, Tex. Filed Apr. 19, 1946.

HYDRA-PAK

The word "Pak" is disclaimed apart from the mark as shown.

FOR HYDRAULICALLY AND MECHANICALLY OPERATED CONCRETE TILE MACHINES, CONCRETE AND CEMENT MIXERS AND ACCESSORIES FOR SAID MACHINES—NAMELY, TILE PALLETS.

Claims use since Mar. 1, 1946.

Ser. No. 503,752. Pitney-Bowes, Inc., Stamford, Conn. Filed June 12, 1946.

FOR POSTAGE PRINTING MACHINES, POSTAGE ISSUING MACHINES, POSTAGE REGISTERING MACHINES, POSTAGE DISPENSING MACHINES, POSTMARKING AND STAMPING MACHINES, METERED MAIL MACHINES, AND MAIL TREATING MACHINES.

Claims use since June 4, 1946.

Ser. No. 505,495. Heckethorn Mfg. & Supply Co., Littleton, Colo. Filed July 12, 1946.

HECO

FOR BELT PULLEYS AND SHEAVES.

Claims use since Jan. 29, 1946.

Ser. No. 505,511. The National Acme Company, Cleveland, Ohio. Filed July 12, 1946.

CHUCK-MATIC

The term "Chuck" in the mark is disclaimed.

FOR CHUCKING MACHINES SUCH AS SINGLE SPINDLE CHUCKING MACHINES.

Claims use since Apr. 1, 1946.

Ser. No. 508,469. Robert E. Duffy, Buffalo, N. Y. Filed Sept. 4, 1946.

EGG MASTER

No claim is made for registration of the term "Egg" separate from "Master."

FOR COMBINATION EGG SHELL CUTTING AND EGG LADLING KITCHEN UTENSIL.

Claims use since July 1, 1946.

Ser. No. 510,500. **Frederick Iron & Steel, Inc.**, Frederick, Md. Filed Oct. 9, 1946.

FRECUT

FOR METAL SHEARING MACHINES.
Claims use since July 1, 1946.

Ser. No. 511,136. **The Campbell-Hausfeld Co.**, Harrison, Ohio. Filed Oct. 19, 1946.

PRESSURE QUEEN

Applicant disclaims the word "Pressure" except as shown.
FOR AIR COMPRESSORS AND PARTS THEREOF.
Claims use since Sept. 30, 1946.

Ser. No. 511,417. **James A. Poirier**, Detroit, Mich. Filed Oct. 24, 1946.

MOP-PAL

Applicant disclaims the exclusive right to the use of the word "Mop" apart from the mark.
FOR HAND OPERATED MOP WRINGERS AND PARTS THEREOF.
Claims use since Dec. 1, 1945.

Ser. No. 513,791. **Associated Producers, Inc.**, Detroit, Mich. Filed Oct. 4, 1946.

Beadmaster

FOR GARAGE MECHANIC'S EQUIPMENT—NAMELY, A MANUALLY OPERATED MACHINE FOR BREAKING A TIRE BEAD FROM A RIM.
Claims use since Nov. 1, 1945.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 510,969. **Moore and Monroe, Inc.**, Boston, Mass. Filed Oct. 16, 1946.

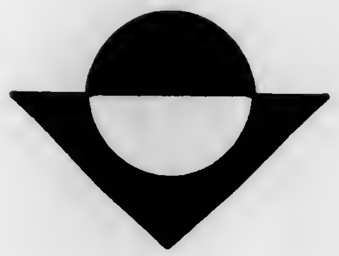
TWO 2·A WAY

The words "Two Way" appearing on the mark are disclaimed apart from the mark.
FOR CLOTHESPINS.
Claims use since June 25, 1946.

CLASS 25

LOCKS AND SAFES

Ser. No. 504,873. **Arthur R. Adams**, Glendale, Calif., assignor to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California. Filed July 1, 1946.

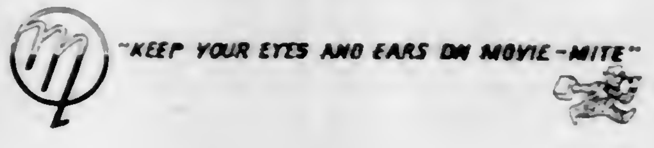


FOR DOOR BOLTS, LOCKS, DOOR FASTENERS AND CATCHES.
Claims use since Mar. 21, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 505,361. **Movie-Mite Corporation**, Kansas City, Mo. Filed July 10, 1946.


"KEEP YOUR EYES AND EARS ON MOVIE-MITE"

No claim is made to the word "Movie" apart from the mark.
FOR MOTION PICTURE PROJECTORS.
Claims use since May 18, 1946.

Ser. No. 507,230. **Bell & Howell Company**, Chicago, Ill. Filed Aug. 12, 1946.

Tru-Pan

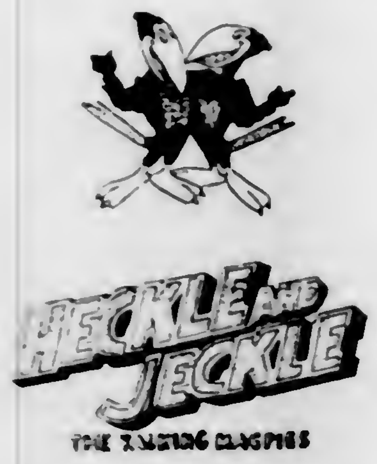
The syllable "Tru" is disclaimed apart from the mark.
FOR TRIPODS FOR PHOTOGRAPHIC CAMERAS.
Claims use since July 7, 1939.

Ser. No. 507,880. **Bell Aircraft Corporation**, Wheatfield, N. Y. Filed Aug. 23, 1946.

CHANGE KING

Applicant disclaims the word "Change" except as used.
FOR COIN CHANGING APPARATUS.
Claims use since July 1, 1946.

Ser. No. 509,889. **Terrytoons, Inc.**, New Rochelle, N. Y. Filed Sept. 27, 1946.



No claim is made to the word "Talking" apart from the mark shown in the drawing.
FOR MOTION PICTURE FILMS.
Claims use since July 22, 1946.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 498,570. **Metropolitan Watch Material Importing Company**, New York, N. Y. Filed Mar. 19, 1946.

Metropolitan

FOR WATCHES AND PARTS THEREOF.
Claims use since Aug. 7, 1945.

Ser. No. 505,159. **The Lux Clock Manufacturing Company, Inc.**, Waterbury, Conn., and elsewhere. Filed July 6, 1946.

OVEN MINDER

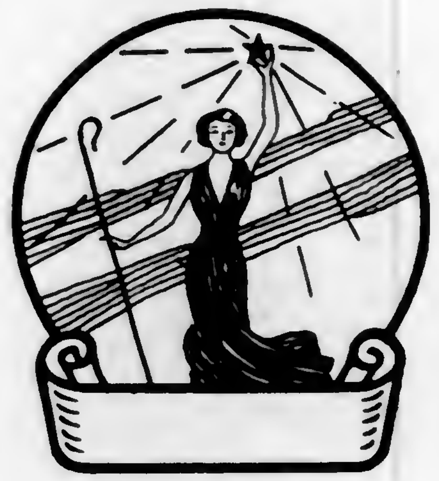
The word "Oven" is disclaimed apart from the mark.
FOR COMBINATION CLOCKS AND RANGE TIMERS.
Claims use since May 3, 1946.

Ser. No. 507,065. **Lorceviez Ditisheim Brands, Inc.**, New York, N. Y. Filed Aug. 8, 1946.

LORCEVIEZ DITISHEIM

No claim is made to "Ditisheim" apart from the mark.
FOR WATCHES, WATCH MOVEMENTS AND PARTS THEREOF.
Claims use since June 1945.

Ser. No. 511,292. **A. G. Schwab & Sons, Inc.**, Cincinnati, Ohio. Filed Oct. 22, 1946.



The outline of the label shown is disclaimed apart from the mark.
FOR WATCHES.
Claims use since Jan. 10, 1937.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 495,491. **Gelly G. Miller**, Oakland, Calif. Filed Jan. 26, 1946.

Sun-brite

The word "Brite" is disclaimed apart from the mark.
FOR JEWELRY FOR PERSONAL WEAR (NOT INCLUDING WATCHES).
Claims use since June 15, 1945.

Ser. No. 505,317. **Isidore Schoenberg**, doing business as Collar-Bobs Co., San Antonio, Tex. Filed July 9, 1946.

COLLAR-BOBS

No claim is made to the word "Collar" apart from the mark.
FOR ORNAMENTAL COLLAR POINT PINS.
Claims use since May 16, 1943.

Ser. No. 508,497. **Speidel Corporation**, Providence, R. I. Filed Sept. 4, 1946.

Golden Knight

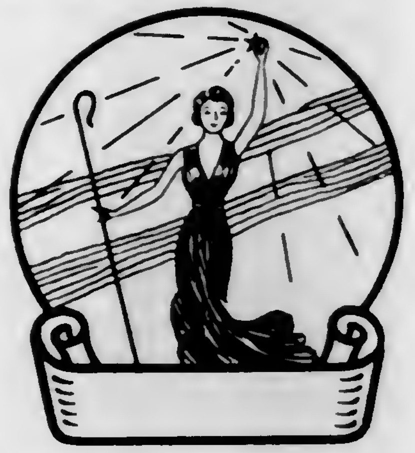
No claim is made to the word "Golden" apart from the mark.
FOR BRACELETS (NOT INCLUDING WATCHES).
Claims use since Aug. 1, 1946.

Ser. No. 509,313. Union Relojera Suiza, S. A., Lima, Peru. Filed Sept. 18, 1946.

URSA

FOR GOLD, SILVER, GOLD PLATED, AND SILVER PLATED FLATWARE AND HOLLOW-WARE FOR THE TABLE; FLOWER VASES AND ASH TRAYS OF GOLD, SILVER OR BASE METAL COATED WITH GOLD AND/OR SILVER.
Claims use since Apr. 16, 1946.

Ser. No. 511,293. A. G. Schwab & Sons, Inc., Cincinnati, Ohio. Filed Oct. 22, 1946.



Applicant disclaims the representation of the outline of the label apart from the mark.
FOR DIAMONDS AND JEWELRY FOR PERSONAL WEAR (NOT INCLUDING WATCHES).
Claims use since Jan. 10, 1937.

Ser. No. 511,437. Alpha-Craft, Inc., New York, N. Y. Filed Oct. 25, 1946.

MAD MONEY

No claim is made to the word "Money" apart from the mark as shown.
FOR COSTUME JEWELRY.
Claims use since Oct. 21, 1946.

Ser. No. 511,645. The Robbins Company, Attleboro, Mass. Filed Oct. 28, 1946.

TY-KING

No claim is made to the word "Ty" apart from the mark as shown.
FOR TIE-HOLDERS, MADE IN WHOLE OR IN PART OF PRECIOUS METAL OR PLATED WITH THE SAME.
Claims use since July 19, 1946.

Ser. No. 511,885. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed Nov. 1, 1946.

Marchioness

FOR NECKLACES, BRACELETS, FINGER RINGS, JEWELRY CLIPS, BROOCHES, AND EARRINGS.
Claims use since 1938.

Ser. No. 511,888. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed Nov. 1, 1946.

Virgo

FOR NECKLACES, BRACELETS, FINGER RINGS, JEWELRY CLIPS, BROOCHES, AND EARRINGS.
Claims use since 1938.

Ser. No. 511,889. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed Nov. 1, 1946.

Phoenix

FOR NECKLACES, BRACELETS, FINGER RINGS, JEWELRY CLIPS, BROOCHES, AND EARRINGS.
Claims use since 1938.

Ser. No. 511,890. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed Nov. 1, 1946.

Norma

FOR NECKLACES, BRACELETS, FINGER RINGS, JEWELRY CLIPS, BROOCHES, AND EARRINGS.
Claims use since 1938.

Ser. No. 511,891. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed Nov. 1, 1946.

Flora

FOR NECKLACES, BRACELETS, FINGER RINGS, JEWELRY CLIPS, BROOCHES, AND EARRINGS.
Claims use since 1938.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 505,357. S. H. Kress and Company, New York, N. Y. Filed July 10, 1946.

Noble Lady

FOR POWDER PUFFS, NAIL BRUSHES, BATH BRUSHES, AND EYEBROW BRUSHES.
Claims use since Aug. 1, 1945.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 493,908. Bell & Gossett Company, Morton Grove, Ill. Filed Dec. 27, 1945.

B & G

FOR REFRIGERATING APPARATUS—NAMELY, CONDENSERS, EVAPORATORS OR CHILLERS, COMPRESSORS AND CONTROLS.
Claims use since May 1, 1943.

CLASS 32

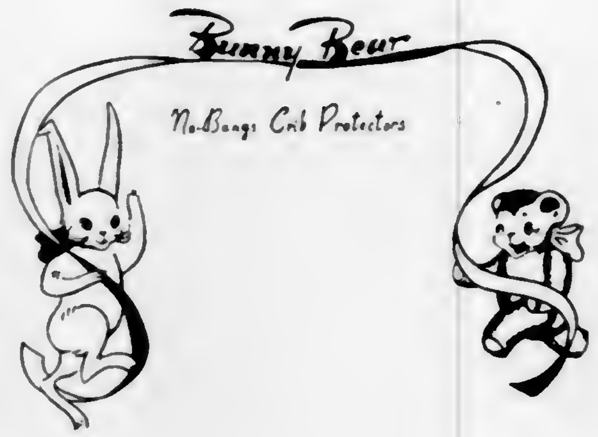
FURNITURE AND UPHOLSTERY

Ser. No. 469,280. Sachs Quality Furniture Inc., New York, N. Y. Filed Apr. 12, 1944.

A Quality Hall Masterpiece

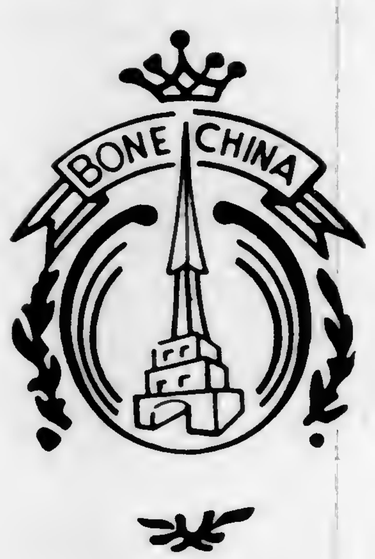
Applicant is the owner of Reg. 284,338, registered June 23, 1931. The word "Masterpiece" is disclaimed apart from the mark.
FOR LIVING-ROOM FURNITURE—NAMELY, LIVING-ROOM SUITES, CHESTS, LIVING-ROOM CHAIRS, LIVING-ROOM TABLES, MAGAZINE RACKS, BENCHES; DINING-ROOM FURNITURE—NAMELY, TABLES, CHAIRS, CHINA CLOSETS, SERVERS, SIDEBOARDS, BUFFETS; BATHROOM FURNITURE—NAMELY, CABINETS, STOOLS, BENCHES; AND KITCHEN FURNITURE—NAMELY, TABLES, CHAIRS, AND CABINETS; BOOKCASES, BREAKFAST FURNITURE SETS, CABINETS FOR RADIO RECEIVING SETS AND PHONOGRAPH APPARATUS SOLD IN TRADE EMPTY OR WITHOUT THE RADIO AND PHONOGRAPH APPARATUS; OFFICE FURNITURE—NAMELY, DESKS, FILING CABINETS, BOOKCASES, TABLES, CHAIRS, PICTURE FRAMES, AND MIRRORS.
Claims use since Sept. 15, 1941.

Ser. No. 476,193. Boston Leather Specialties Co., Everett, Mass., assignor to Bunny Bear, Inc., Everett, Mass., a corporation of Massachusetts. Filed Nov. 7, 1944.



The words "Crib Protectors" are disclaimed apart from the mark.
FOR CRIB CUSHIONS.
Claims use since Jan. 15, 1943.

Ser. No. 490,821. Eric H. Gort, Inc., Metuchen, N. J. Filed Oct. 31, 1945.



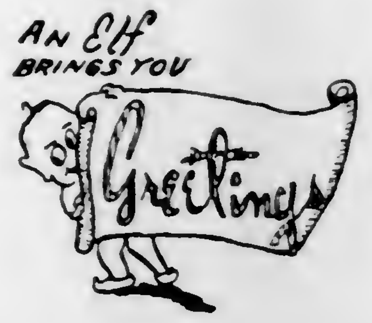
The words "Bone China" are disclaimed separate and apart from the mark.
FOR BOOK ENDS.
Claims use since Feb. 10, 1945.

Ser. No. 492,176. Brammer Manufacturing Co., Davenport, Iowa, assignor to Brammer Manufacturing Co., Davenport, Iowa, a corporation of Iowa. Filed Nov. 26, 1945.

BR Kitchen Unit

Applicant disclaims the words "Kitchen Unit" apart from the mark.
FOR KITCHEN CUPBOARDS AND KITCHEN CABINETS.
Claims use since Nov. 13, 1945.

Ser. No. 492,818. EUGENE E. BRAULT, doing business as Elf Way Mfg. Company, Jefferson, S. Dak. Filed Dec. 7, 1945.



The drawing is lined for the color red.
FOR HOUSEHOLD KITCHEN CABINETS, WARDROBES, WRITING DESKS, CHAIRS FOR DOMESTIC USE, END TABLES, SERVING TABLES, DINING ROOM TABLES, BREAKFAST TABLES, CHESTS OF DRAWERS, AND CEDAR CHESTS.
Claims use since May 1, 1945.

Ser. No. 495,922. THE VINCENT-MCCALL COMPANY, Kenosha, Wis. Filed Feb. 2, 1946.

a Homeworthy Product

No claim is made to the article "A" or the word "Product" apart from the mark shown.
FOR MATTRESSES, BED SPRINGS AND GARDEN CHAIRS.
Claims use since Nov. 1, 1945.

Ser. No. 506,242. KEYSTONE WINDOW SHADE COMPANY, INC., Pittsburgh, Pa. Filed July 25, 1946.

Magic-Slat

The word "Slat" is disclaimed apart from the mark shown.
FOR VENETIAN WINDOW BLINDS AND FOR SLATS FOR VENETIAN WINDOW BLINDS.
Claims use since Mar. 1, 1935.

Ser. No. 507,235. CAVALIER CORPORATION, Chattanooga, Tenn. Filed Aug. 12, 1946.

FOR COMBINATION DESK AND CHEST.
Claims use since July 25, 1946.

Ser. No. 508,638. AMERICAN SEATING COMPANY, Grand Rapids, Mich. Filed Sept. 7, 1946.

Envoy

FOR CLASSROOM CHAIRS.
Claims use since June 19, 1940.

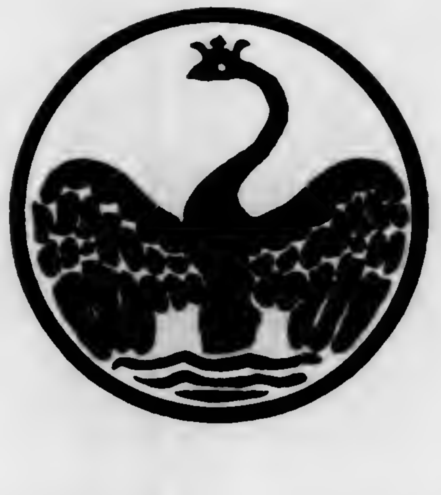
Ser. No. 509,960. SEALY, INCORPORATED, Chicago, Ill. Filed Sept. 28, 1946. Under the act of February 20, 1905, as amended June 10, 1938.

LITTLE DARLING

The word "Little" is disclaimed apart from the mark.
FOR MATTRESSES AND BOX SPRINGS.
Claims use since Feb. 1, 1927.

CLASS 33
GLASSWARE

Ser. No. 505,829. AKTS. HOLMEGAARDS GLASVAERK, Copenhagen, Denmark. Filed July 18, 1946.



The mark shown is the representation of a swan with outstretched wings.
FOR GLASSWARE—NAMELY, TUMBLERS, WINE GLASSES, WATER GLASSES, GLASS BOWLS, GLASS DISHES, GLASS VASES, GLASS TRAYS, DECANTERS AND BOTTLES.
Claims use since 1930.

CLASS 34
HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 493,507. THE PRESTO WATER HEATER MANUFACTURING COMPANY, Hartford, Conn. Filed Dec. 18, 1945.

Prest-O-Heet

The drawing is lined for the color red. The right to register the word "Heet" apart from the mark is disclaimed.
FOR WATER HEATERS AND COOKING STOVES UTILIZING OIL FUEL.
Claims use since Oct. 8, 1945.

Ser. No. 514,692. CONTROLS, INC., Detroit, Mich. Filed Dec. 23, 1946.

FireCrest

No claim is made to the word "Fire" apart from the mark.
FOR GAS CONVERSION BURNERS.
Claims use since Nov. 23, 1946.

CLASS 35
BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 489,843. WESTERN STATES MFG. CO., Sioux City, Iowa. Filed Oct. 11, 1945.

FLASH
WELD

The word "Weld" is disclaimed apart from the mark. The drawing is lined for the color red.
FOR INNER TUBE REPAIR KITS.
Claims use since Mar. 1, 1928.

CLASS 36
MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 507,191. KOHLER & CAMPBELL, INC., New York, N. Y. Filed Aug. 10, 1946. Under 10-year proviso.

Mc Phail

FOR PIANOS.
Claims use since Jan. 1, 1837.

Ser. No. 507,192. KOHLER & CAMPBELL, INC., New York, N. Y. Filed Aug. 10, 1946. Under 10-year proviso.

KROEGER

FOR PIANOS.
Claims use since Jan. 1, 1853.

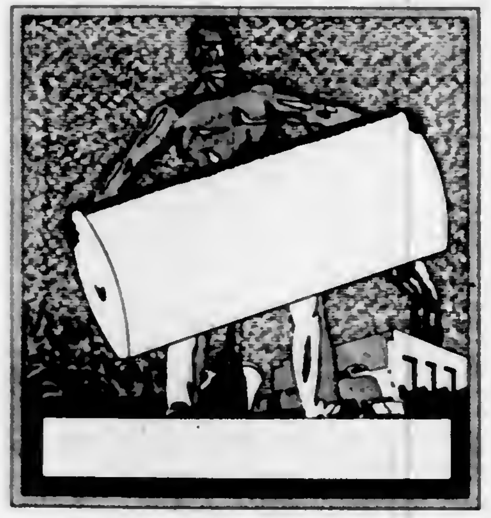
CLASS 37
PAPER AND STATIONERY

Ser. No. 500,616. INTERNATIONAL CELLUCOTTON PRODUCTS COMPANY, Chicago, Ill. Filed Apr. 20, 1946.

VELDOWN

Applicant is the owner of Reg. Nos. 254,162, 294,337, and 360,998.
FOR CLEANSING TISSUE, TOILET TISSUE, AND PAPER TOWELS.
Claims use since Apr. 8, 1946.

Ser. No. 502,715. RHINELANDER PAPER COMPANY, INC., Rhinelander, Wis. Filed May 24, 1946.



The drawing is lined for the colors yellow, red, and green. The representation of the goods and the label are disclaimed apart from the mark.
FOR WRAPPING PAPER.
Claims use since Mar. 20, 1946.

Ser. No. 504,303. STATLER TISSUE COMPANY, Somerville, Mass. Filed June 20, 1946.

JUMBO-NAKS

No claim is made to the word "Jumbo" apart from the mark.
FOR PAPER NAPKINS.
Claims use since June 1945.

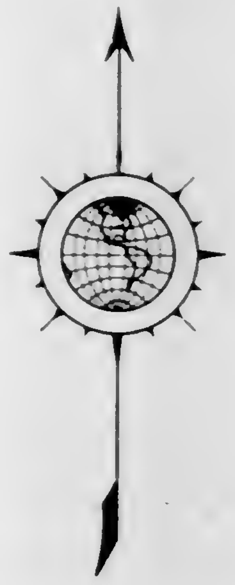
Ser. No. 506,950. LEWIS-HUBBARD CORPORATION, Charleston, W. Va. Filed Aug. 6, 1946.

Conquest

FOR TOILET TISSUE.
Claims use since 1937.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 484,553. AMERICAN MAP COMPANY, INC., New York, N. Y. Filed June 15, 1945.



The arrow per se appearing as part of the mark is disclaimed apart from the mark.
FOR MAPS AND ATLASES.
Claims use since April 1934.

Ser. No. 492,163. TAN TOWN STORIES CO., New York, N. Y. Filed Nov. 24, 1945.

TAN TOWN STORIES

The word "Stories" is disclaimed apart from the mark.
FOR PUBLICATION ISSUED FROM TIME TO TIME BY COLORED WRITERS FEATURING STORIES OF LIFE, LOVE AND LAUGHTER OF COLORED PEOPLE.
Claims use since October 1945.

Ser. No. 493,666. KEN CROSSEN, doing business as Spark Publications, New York, N. Y. Filed Dec. 21, 1945.

ATOMAN

FOR PERIODICALS.
Claims use since Dec. 5, 1945.

Ser. No. 498,025. THE PARENTS' INSTITUTE, INC., New York, N. Y. Filed Mar. 11, 1946.

MUST READING

FOR REPRINT MAGAZINE ON GENERAL SUBJECTS PUBLISHED QUARTERLY.
Claims use since Feb. 27, 1946.

Ser. No. 503,449. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg. Filed June 7, 1946.

Iron Man

FOR HOUSE ORGAN.
Claims use since July 1, 1942.

Ser. No. 504,398. SELECT PUBLICATIONS, INC., New York, N. Y. Filed June 21, 1946.

nellie
the NURSE
COMICS

Applicant disclaims the descriptive word "Comics" separately from the mark.
FOR MAGAZINE OR PUBLICATION PUBLISHED PERIODICALLY.
Claims use since June 1945.

Ser. No. 505,779. TAFFY PUBLICATIONS, INC., New York, N. Y. Filed July 17, 1946.

TAFFY

FOR CARTOON PERIODICAL.
Claims use since Aug. 1, 1945.

Ser. No. 506,574. BARBARA BELLE, New York, N. Y. Filed July 31, 1946.

BAND-O-DISC

No registration rights are claimed for the word "Disc" apart from the mark as a whole.
FOR INFORMATION CHART.
Claims use since June 15, 1946.

Ser. No. 506,721. ARCHIE COMIC PUBLICATIONS, INC., New York, N. Y., and St. Louis, Mo. Filed Aug. 2, 1946.

AN
Archie
MAGAZINE

The words "An" and "Magazine" are disclaimed apart from the mark.
FOR MAGAZINES ISSUED PERIODICALLY.
Claims use since Feb. 1, 1946.

Ser. No. 506,778. SENECA PRINTING COMPANY, Chicago, Ill. Filed Aug. 2, 1946.

WEEKLY
TURF
OBSERVER

The words "Weekly Turf" are disclaimed apart from the mark.
FOR WEEKLY PUBLICATION.
Claims use since June 22, 1946.

Ser. No. 506,952. EMILE EARL MARTIN, New Orleans, La. Filed Aug. 6, 1946.

MARTIN-LITE

Applicant disclaims the exclusive use of the word "Martin" apart from the mark as shown.
FOR GREETING CARDS.
Claims use since July 19, 1946.

Ser. No. 507,795. MERCER BEASLEY, New York, N. Y. Filed Aug. 22, 1946.

Between Sets

FOR COLUMN IN A PERIODICAL.
Claims use since July 15, 1946.

Ser. No. 508,172. JOSEPH LUCHS, doing business as Joseph Luchs & Staff, Philadelphia, Pa. Filed Aug. 28, 1946.

YOUR Selling TOOL

Applicant disclaims the word "Selling" standing alone and apart from the mark.
FOR EDUCATIONAL LITERATURE IN THE FORM OF PRINTED SHEETS, CARDS, POSTERS AND PAMPHLETS SOLD IN THE TRADE AS SUCH AND PUBLISHED PERIODICALLY.
Claims use since October 1930.

Ser. No. 508,348. W H B BROADCASTING COMPANY, Kansas City, Mo. Filed Aug. 30, 1946.

Swing

FOR MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Jan. 1, 1945.

Ser. No. 508,378. HALL BROTHERS, INCORPORATED, Kansas City, Mo. Filed Aug. 31, 1946.

AFTERGLOW

FOR GREETING CARDS.
Claims use since Aug. 20, 1946.

Ser. No. 508,718. Comedy Publications, Inc., New York, N. Y. Filed Sept. 9, 1946.

Gayety

FOR MAGAZINE OR PUBLICATION PUBLISHED PERIODICALLY.
Claims use since September 1941.

CLASS 39

CLOTHING

Ser. No. 471,259. Grunwald-Marx, Los Angeles, Calif. Filed June 15, 1944.

Spire

FOR MEN'S DRESS AND WORK SHIRTS.
Claims use since Aug. 12, 1939.

Ser. No. 475,004. The Frank H. Lee Company, Danbury, Conn. Filed Oct. 6, 1944.

The Pincers

FOR MEN'S AND BOYS' FUR FELT HATS.
Claims use since Oct. 2, 1944.

Ser. No. 487,495. Archer Hosiery Mills, Columbus, Ga. Filed Aug. 24, 1945.

ARCHER

FOR GIRDLES.
Claims use since June 29, 1945.

Ser. No. 488,108. J. B. Lewis & Sons Limited, Nottingham, England. Filed Sept. 7, 1945.

MERIDIAN

FOR MEN'S, WOMEN'S, CHILDREN'S, AND INFANTS' WEARING APPAREL—NAMELY, HOSIERY; UNDERWEAR CONSISTING OF SHIRTS, SHORTS, DRAWERS AND UNION SUITS; PANTIES; KNICKERS; TRUNKS; PETTICOATS; BODICES; CORSETS; BRASSIERES; PAJAMAS; NIGHT-DRESSES; SLEEPING SUITS; DRESSING GOWNS AND JACKETS; BED JACKETS; HOUSE COATS; COATS; SUITS; WAISTCOATS; TROUSERS; SLACKS; OUTER SHORTS; OUTER SKIRTS; FROCKS; SPENCERS; MANTLES; SHAWLS; SWEATERS; ROMPERS; SPORT SHIRTS AND BLOUSES; FOOTBALL JERSEYS, GYM SHIRTS; BATHING SUITS AND TRUNKS; GLOVES AND MITTENS OF LEATHER AND FABRIC; BELTS; SCARVES; SLEEPING BAGS; LUMBER COATS; BOYS' JERSEYS; JERSEY SUITS; INFANTS' PRAM SUITS; MATINEE COATS; PLAY SUITS; MEN'S PANTS; BOOTS, SHOES, AND SLIPPERS MADE OF FABRIC; LEGGINGS AND GAITERS.
Claims use since Sept. 17, 1911.

Ser. No. 491,682. Stelrose Fashions, New York, N. Y. Filed Nov. 15, 1945.

Stelrose

FOR BLOUSES, DRESSES, JUMPERS, OUTER SKIRTS, JACKETS, AND COATEES.
Claims use since June 20, 1945.

Ser. No. 501,905. Garay & Co. Inc., New York, N. Y. Filed May 11, 1946.

Golden Aura

The word "Golden" is disclaimed apart from the mark.
FOR DECORATIVE AND GARMENT SUPPORTING BELTS.
Claims use since Mar. 1, 1946.

Ser. No. 502,252. M. Aron Corporation, New York, N. Y. Filed May 17, 1946.

ARCODOR

FOR NECKTIES.
Claims use since May 3, 1946.

Ser. No. 502,935. Associated Knitted Outerwear Mills, Inc., New York, N. Y. Filed May 29, 1946.

AKOM WINTERMATE

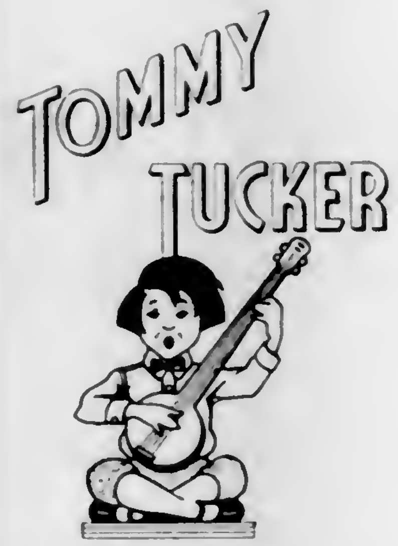
FOR MEN'S, BOYS', AND CHILDREN'S UNDERWEAR; AND KNITTED OUTERWEAR—NAMELY, SWEATERS, INCLUDING PULLOVERS AND BUTTONED SWEATERS; JACKETS AND SPORT COATS.
Claims use since Apr. 26, 1946.

Ser. No. 506,803. Cosgrove Brothers, Inc., Quincy, Mass. Filed Aug. 3, 1946.

Lady Sheryl

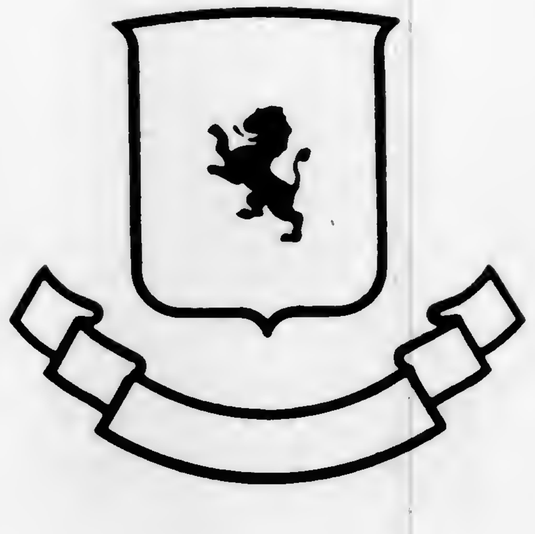
The word "Lady" is disclaimed apart from the mark.
FOR UNDERWEAR AND LINGERIE—NAMELY, SLIPS, PETTICOATS, NIGHTGOWNS, PAJAMAS, BED JACKETS, PANTIES, CAMISOLES, DANCE SETS, STEP-INS, COMBINATIONS, CHEMISES, BLOOMERS, VESTS, AND DRAWERS FOR WOMEN, MISSES, AND GIRLS.
Claims use since July 19, 1946.

Ser. No. 508,011. Shrage & Pines, New York, N. Y. Filed Aug. 24, 1946.



The name "Tommy Tucker" is the name of a well-known character in the "Mother Goose" Nursery Rhymes. The picture of the boy shown on the drawing represents a fanciful person.
FOR SPORTSWEAR—NAMELY, POLO SHIRTS; BOYS' SHIRTS AND BLOUSES.
Claims use since Feb. 10, 1920.

Ser. No. 508,630. Vassar Company, Chicago, Ill. Filed Sept. 6, 1946.



FOR MEN'S AND WOMEN'S KNITTED AND WOVEN UNION SUITS, VESTS, DRAWERS, SWIMMING TRUNKS, AND HOSIERY.
Claims use since on or about Apr. 1, 1900.

Ser. No. 509,060. A. Weiss Hosiery Co., Chicago, Ill. Filed Sept. 13, 1946.

TINKLE BELL

FOR INFANTS' AND CHILDREN'S HOSIERY.
Claims use since July 25, 1946.

Ser. No. 509,356. Jack Miller, Long Beach, N. Y. Filed Sept. 19, 1946.

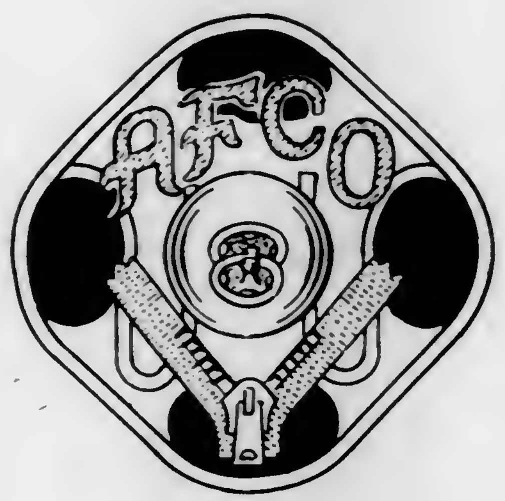
MON AMIE

FOR LADIES' SLIPS.
Claims use since Aug. 22, 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 479,020. THE AMERICAN FASTENER COMPANY, Waterbury, Conn., and elsewhere. Filed Jan. 26, 1945.



The representation of the goods is disclaimed apart from the mark.

FOR SNAP FASTENERS, GARTER GRIPS, GARTER CLASPS, GARTER SLIDES, BUTTONS, HOOKS AND EYES, GARMENT CLASPS, AND GARMENT BUCKLES.

Claims use since 1935.

Ser. No. 513,929. DORÉST, Washington, D. C. Filed Dec. 9, 1946.

DECOR

Lasso

No claim is made to the word "Decor" apart from the mark as shown.

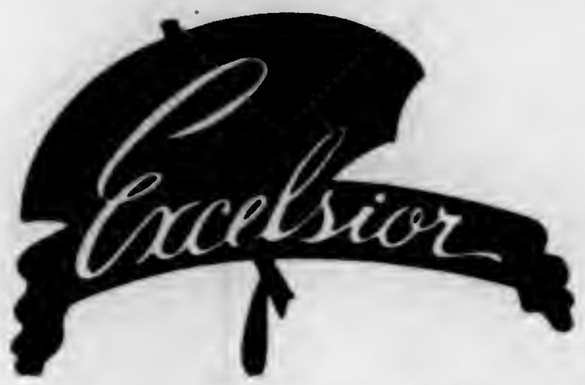
FOR NECK BASE FOR ORNAMENTATION.

Claims use since Oct. 17, 1946.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 492,446. LYNN UMBRELLA MFG. CO., Boston, Mass. Filed Nov. 30, 1945.



The representation of the umbrella is disclaimed apart from the mark as shown.

FOR UMBRELLAS.

Claims use since Sept. 15, 1945.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 479,208. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., now by change of name to Dan River Mills, Incorporated. Filed Jan. 30, 1945.

Security

FOR SHEETS AND PILLOW CASES MADE OF COTTON.

Claims use since Jan. 9, 1945.

Ser. No. 495,705. ALBERT H. VANDAM CO., INC., New York, N. Y., assignor to D. B. Fuller & Co. Inc., New York, N. Y., a corporation of New York. Filed Jan. 30, 1946.

PLAYLAND

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES AND MIXTURES THEREOF.

Claims use since Jan. 10, 1945.

Ser. No. 504,094. CREST FABRICS CORP., New York, N. Y. Filed June 18, 1946.

TAMBOURINE

FOR VINYL TYPE PLASTIC SHEETING FOR USE IN THE MANUFACTURE OF SHOWER CURTAINS, BATHROOM CURTAINS, RAINWEAR, APRONS, CRIB SHEETS, BED SHEETING, TABLE COVERS, BABY BIBS, KITCHEN SHELVING, PILLOW CASES, AND GARMENT BAGS.

Claims use since Jan. 3, 1945.

Ser. No. 504,512. SENECA COMPANY, INC., New York, N. Y. Filed June 24, 1946.

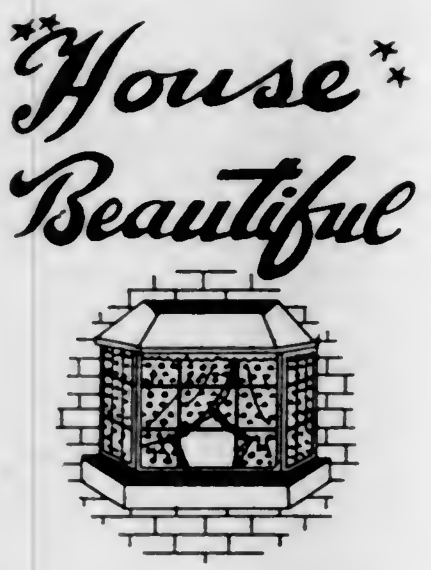
CERTI-FAST

No claim is made to the exclusive use of the word "Fast" except in the setting and relation in which it appears in the drawing.

FOR RAYON AND COTTON FABRICS IN THE PIECE.

Claims use since Jan. 1, 1946.

Ser. No. 504,765. HOUSE BEAUTIFUL CURTAINS INC., New York, N. Y. Filed June 28, 1946.



Applicant disclaims the picture beneath the words "House Beautiful," together with the word "Beautiful."

FOR WINDOW CURTAINS, DRAPERIES, BEDSPREADS, TABLE CLOTHS AND TEXTILE FABRICS IN THE PIECE FOR SAID GOODS MADE OF COTTON, RAYON, SILK, WOOL, AND MIXTURES THEREOF.

Claims use since Feb. 1, 1946.

Ser. No. 505,820. GRANVILLE FABRICS CO., New York, N. Y. Filed July 18, 1946.

EYEFUL

FOR RAYON FABRICS IN THE PIECE.

Claims use since July 2, 1946.

Ser. No. 506,091. CARNAC, INC., New York, N. Y. Filed July 23, 1946.

VOX POPLIN

Applicant disclaims the word "Poplin" apart from the mark.

FOR COTTON PIECE GOODS.

Claims use since June 25, 1946.

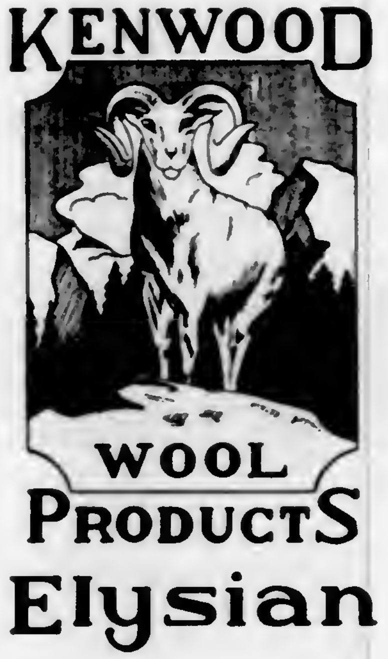
Ser. No. 506,203. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., now by change of name to Dan River Mills, Incorporated. Filed July 24, 1946.

GRACIOUS

FOR SHEETS AND PILLOWCASES.

Claims use since June 24, 1946.

Ser. No. 506,754. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Aug. 2, 1946. Under 10-year proviso as to "Kenwood."



The word "Kenwood" has been used as a trade-mark by the applicant for ten years next preceding Feb. 20, 1905. Applicant owns Reg. No. 92,428, renewed. No claim is made to the words "Wool Products" separate and apart from the mark.

FOR ALL WOOL BED BLANKETS.

Claims use since June 6, 1946.

Ser. No. 507,172. JULIUS N. WERK FABRICS, INC., New York, N. Y. Filed Aug. 9, 1946.

FRISQUETTE

FOR RAYON TEXTILE FABRICS, SOLD BY THE PIECE, YARD, AND BOLT.

Claims use since March 1937.

Ser. No. 508,269. COHN-HALL-MARX CO., New York, N. Y. Filed Aug. 30, 1946.

Cohama
Featherfit Fabric

Applicant disclaims the exclusive right to the use of the word "Fabric," except when used with the other features of the mark.

FOR PIECE GOODS OF COTTON, RAYON, AND/OR SILK, OR COMBINATIONS THEREOF.

Claims use since Sept. 15, 1945.

Ser. No. 509,502. Dan River Mills, Incorporated, Danville, Va. Filed Sept. 21, 1946.

DANCALE

FOR SHEETS, SHEETING, AND PILLOWCASES.
Claims use since Aug. 29, 1946.

Ser. No. 509,757. Crest Fabrics Corp., New York, N. Y. Filed Sept. 26, 1946.

OVATION

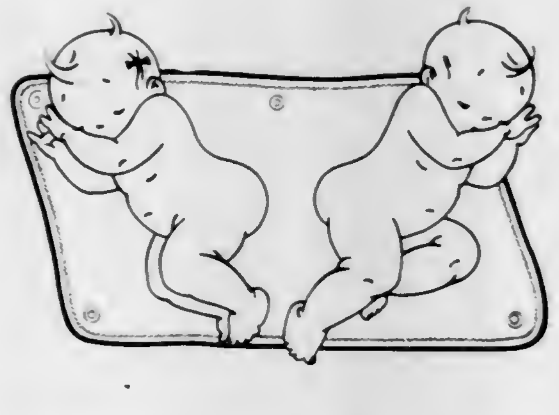
FOR VINYL TYPE PLASTIC SHEETING FOR USE IN THE MANUFACTURE OF SHOWER CURTAINS, BATHROOM CURTAINS, RAINWEAR, APRONS, CRIB SHEETS, BED SHEETING, TABLE COVERS, SANITARY COVERS, BABY BIBS, KITCHEN SHELVING, PILLOW CASES, AND GARMENT BAGS.
Claims use since Apr. 1, 1946.

Ser. No. 511,473. Herbert J. Heribert, New York, N. Y. Filed Oct. 25, 1946.

HERIBEX

FOR WIDE BELTING, STRIPPING, WEBBING FOR FURNITURE AND UPHOLSTERY.
Claims use since Apr. 22, 1946.

Ser. No. 516,696. International Latex Corporation, Dover, Del. Filed Jan. 31, 1947.



The representation of a crib sheet is disclaimed apart from the mark.
FOR CRIB SHEETS MADE OF WATERPROOF PLASTIC FILM.
Claims use since on or about Dec. 2, 1946.

CLASS 43

THREAD AND YARN

Ser. No. 504,089. The British Approved Yarn Association, Manchester, England. Filed June 18, 1946. Under the act of February 20, 1905, as amended June 10, 1938.

BRITAYA
QUALITY
Certified by
THE BRITISH APPROVED
YARN ASSOCIATION
Manchester. England.

The exclusive use of the word "Quality" and the phrase "Certified by The British Approved Yarn Association Manchester, England," is disclaimed apart from the mark shown in the drawing.
FOR YARNS WHOLLY OF COTTON.
Claims use since Apr. 30, 1946.

Ser. No. 506,523. The Hartford Rayon Corporation, Rocky Hill, Conn. Filed July 30, 1946.

Glo-flex

The portion of the mark designated "Glo" is disclaimed apart from the mark as used.
FOR VISCOSE RAYON YARN.
Claims use since Apr. 29, 1946.

Ser. No. 515,286. Wool Trading Co. Inc., New York, N. Y. Filed Jan. 4, 1947.

Kings Ransom

FOR YARNS MADE OF 100% PURE VIRGIN WOOL.
Claims use since Jan. 4, 1945.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 497,500. H. Wright Seiger, doing business as Medar Co., Santa Monica, Calif. Filed Mar. 1, 1946.

BABY NURSING
MEDAR CO
NURSE-MASTER
SANTA MONICA
CALIF.
BOTTLE HOLDER

The words "Nurse," "Baby Nursing Bottle Holder," "Santa Monica Calif." and "Co." are disclaimed apart from the mark as shown.
FOR BABY NURSING BOTTLE HOLDERS.
Claims use since Feb. 16, 1946.

Ser. No. 499,854. The Ohio Chemical & Mfg. Co., Cleveland, Ohio. Filed Apr. 8, 1946.

SIMPLEX

FOR MACHINES FOR ADMINISTERING ANESTHESIA AND ANALGESIA.
Claims use since June 6, 1939.

Ser. No. 500,161. Joseph B. Biederman, doing business under the name of Allergy and Medical Products Company, Cincinnati, Ohio. Filed Apr. 13, 1946.

Controlex

FOR NASAL INHALERS.
Claims use since Nov. 1, 1943.

Ser. No. 501,540. Lu Meda Scovell, doing business under the name Slendo-Motion Co., Los Angeles, Calif. Filed May 6, 1946.

Slendo-Motion

The word "Motion" is disclaimed apart from the mark.
FOR BODY MASSAGING APPARATUS.
Claims use since Jan. 28, 1946.

Ser. No. 514,981. The Motloid Company, Inc., Chicago, Ill. Filed Dec. 28, 1946.

GOTHICULATOR

Applicant makes no claim to the term "The Modern Articulator" apart from the mark.
FOR DENTAL ARTICULATORS.
Claims use since Sept. 7, 1946.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 467,520. Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Filed Feb. 18, 1944.

Fisher's
BIS-KIT MIX

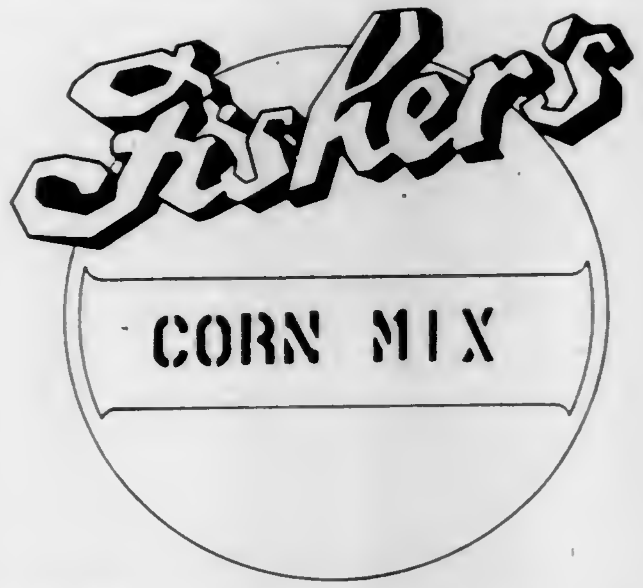
No claim is made to the exclusive use of the term "Bis-Kit Mix" apart from the mark.
FOR PREPARED BISCUIT FLOUR.
Claims use since Nov. 18, 1932.

Ser. No. 480,801. Southern Dairies, Inc., Washington, D. C. Filed Mar. 10, 1945.

SOUTHERN DAIRIES

Applicant disclaims exclusive right to the use of the word "Dairies" apart from the mark.
FOR MILK, CREAM, BUTTERMILK, SKIM MILK, LACTIC MILK, CHOCOLATE MILK, AND BOTTLED ORANGE JUICE WITH SUGAR AND FRUIT ACID ADDED, FOR FOOD PURPOSES.
Claims use since 1928.

Ser. No. 481,404. Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Filed Mar. 28, 1945.

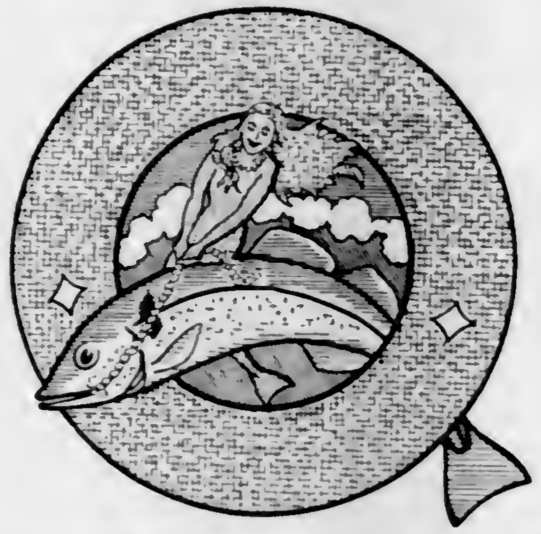


No claim is made to the words "Corn Mix" except in the relation and association shown.

FOR PREPARED CORNMEAL FOR USE IN PREPARATION OF MUFFINS, CORNBREAD, PANCAKES, AND THE LIKE.

Claims use since June 7, 1944.

Ser. No. 490,334. A. M. Smith & Company Limited, Halifax, Nova Scotia, Canada. Filed Oct. 22, 1945.



The drawing is lined to indicate the colors, blue, green, red, and yellow, respectively. The representation of the fish included as a part of the applicant's mark is disclaimed apart from the mark as shown.

FOR FISH PRODUCTS—NAMELY, CANNED MACKEREL, CANNED FLAKED FISH, CANNED CHICKEN HADDIES, CANNED HERRING, CANNED SARDINES, SMOKED KIPPERED HERRING, SMOKED COD FILLETS, SMOKED FINNAN HADDIE, SALTED BONELESS COD, SALTED SHREDDED COD, PICKLED HERRING, PICKLED COD, PICKLED MACKEREL, AND VINEGAR CURED HERRING.

Claims use since August 1941.

Ser. No. 501,749. Loyal Canning Company, Loyal, Wis. Filed May 9, 1946.

KITCHEN GRAND

The word "Grand" is disclaimed apart from the mark.

FOR CANNED VEGETABLES.

Claims use since 1927.

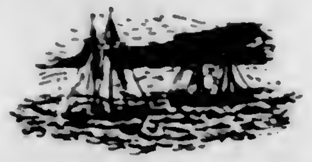
Ser. No. 506,110. Lehman Bros., Cleveland, Ohio. Filed July 23, 1946.

"Tee-Zee"

FOR CANDY FOR DOGS.

Claims use since July 12, 1946.

Ser. No. 506,993. Economy Fillet Co., Inc., New Bedford, Mass. Filed Aug. 7, 1946.



"20 League Brand"

No claim is made to the word "Brand" apart from the mark as shown.

FOR FRESH AND FROZEN FISH FILLETS.

Claims use since May 1, 1946.

Ser. No. 507,885. Central Mills, Inc., Dunbridge, Ohio. Filed Aug. 23, 1946.

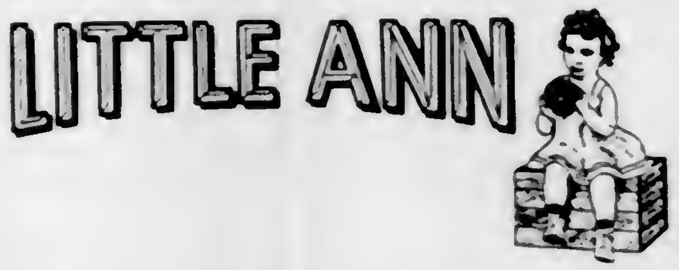
CENT-O-GREEN

No claim is made to the word "Green" apart from the mark.

FOR LIVESTOCK FEEDS—NAMELY, ALFALFA MEAL MADE FROM DEHYDRATED ALFALFA.

Claims use since Feb. 14, 1939.

Ser. No. 508,093. D. B. Bruno, Incorporated, Jacksonville, Tex. Filed Aug. 27, 1946.



The portrait forming a part of the mark is that of Ann Bruno, and consent to the use and registration of the portrait is on file. No claim is made to the representation of a tomato apart from the mark.

FOR FRESH VEGETABLES—NAMELY, TOMATOES.

Claims use since June 1945, as to the words "Little Ann"; and since July 1945, as to the mark as a whole.

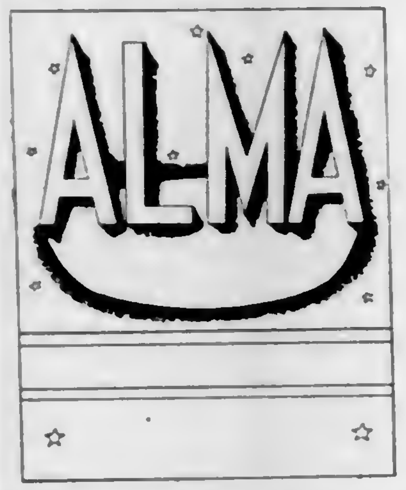
Ser. No. 508,182. Arthur A. Omanoff, doing business as Omanoff Caviar Company, New York, N. Y. Filed Aug. 28, 1946.

BALALAIKA

FOR CANNED CAVIAR.

Claims use since Aug. 15, 1946.

Ser. No. 509,094. Wilma Massera, doing business as Al Massera, Watsonville, Calif. Filed Sept. 14, 1946.



The representation of a label is disclaimed apart from the mark as shown.

FOR FRESH VEGETABLES.

Claims use since Oct. 1, 1942.

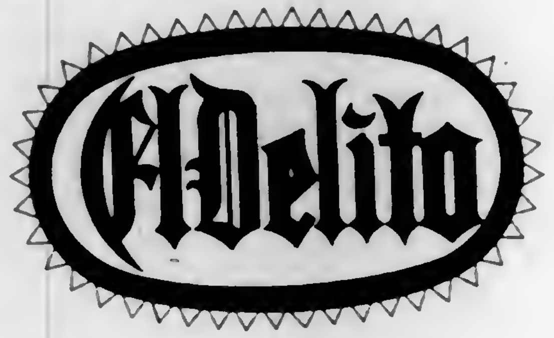
Ser. No. 510,378. Costa Distributing Co. of El Centro, El Centro, Calif. Filed Oct. 7, 1946.

DESERTAIRE

FOR FRESH VEGETABLES—NAMELY, LETTUCE AND MELONS.

Claims use since Sept. 5, 1946, on lettuce, and since Sept. 27, 1946, on melons.

Ser. No. 510,679. Gulf City Coffee Company, Inc., Pensacola, Fla. Filed Oct. 11, 1946.



FOR TEA.

Claims use since Oct. 1, 1905.

Ser. No. 510,797. Peanut Specialty Co., Chicago, Ill. Filed Oct. 12, 1946.

HOOKEY

FOR PEANUT CANDY BARS.

Claims use since Jan. 6, 1926.

Ser. No. 512,477. American Food Laboratories, Inc., Brooklyn, N. Y. Filed Nov. 13, 1946.

Café Olay!

Applicant disclaims the word "Café" apart from the mark "Cafe Olay."

FOR COFFEE CONCENTRATE SOLD IN BULK TO DAIRIES FOR USE IN THE MAKING OF MILK BEVERAGES.

Claims use since June 1, 1945.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 503,204. Hilltop Farm Feed Co., Minneapolis, Minn. Filed June 3, 1946.

HILLTOP

FOR POULTRY FEEDERS, PORTABLE FOUNTS FOR STOCK AND POULTRY, PORTABLE TANKS FOR WATERING STOCK, HOG AND STOCK FEEDERS, AND BROODERS.

Claims use since May 1, 1938, on hog and stock feeders; and since Apr. 1, 1944, on the remaining goods.

Ser. No. 506,685. Panef Manufacturing Co., Milwaukee, Wis. Filed Aug. 1, 1946.

BOTTLE BELL

The word "Bottle" is disclaimed apart from the mark.

FOR RESEALING CAP FOR BEVERAGE BOTTLES.

Claims use since May 9, 1946.

Ser. No. 507,035. Dabney Ashenfelter, doing business as Bil-Jax Manufacturing Co., Swanton, Ohio. Filed Aug. 8, 1946.

BIL - JAX

No claim is made for the term "Jax" apart from the mark.

FOR SCAFFOLD HORSES.

Claims use since June 27, 1946.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF FEBRUARY 20, 1905

JUNE 17, 1947

430,552. SHOES MADE OF LEATHER, FABRIC OR RUBBER, OR COMBINATIONS THEREOF. The Schiff Company, Columbus, Ohio.
Filed July 2, 1940. Serial No. 433,630. PUBLISHED DECEMBER 9, 1941. Class 39.

430,553. DRESS PATTERNS. Renée H. Silverman, New York, N. Y.
Filed August 19, 1943. Serial No. 462,858. PUBLISHED MARCH 25, 1947. Class 26.

430,554. ELECTRICAL CONTROL INSTRUMENTS FOR CONTROL OF OPERATION, FLIGHT AND MOVEMENT OF AIRCRAFT, WATERCRAFT, LAND VEHICLES, AND AVIATION GROUND EQUIPMENT—NAMELY, RADIO AND SIGNALING INSTRUMENTS. Airdar Corporation, Wilmington, Del.
Filed November 10, 1943. Serial No. 464,865. PUBLISHED MARCH 7, 1944. Class 21.

430,555. MOUTH ORGANS, HARMONICAS, MUSIC BOXES, MUSICAL NOVELTY CIGAR AND CIGARETTE BOXES, PHONOGRAPH NEEDLES, PHONOGRAPH RECORDS, AND ALBUMS FOR PHONOGRAPH RECORDS. Rexon Inc., New York, N. Y.
Filed May 25, 1944. Serial No. 470,636. PUBLISHED AUGUST 7, 1945. Class 36.

430,556. MOUTH ORGANS, HARMONICAS, MUSIC BOXES, MUSICAL NOVELTY CIGAR AND CIGARETTE BOXES, PHONOGRAPH NEEDLES, PHONOGRAPH RECORDS, AND ALBUMS FOR PHONOGRAPH RECORDS. Rexon Inc., New York, N. Y.
Filed May 25, 1944. Serial No. 470,640. PUBLISHED AUGUST 7, 1945. Class 36.

430,557. OPTICAL FRAMES. Vogue Optical Mfg. Company, New York, N. Y.
Filed October 7, 1944. Serial No. 475,088. PUBLISHED FEBRUARY 27, 1945. Class 26.

430,558. OPTICAL FRAMES. Vogue Optical Mfg. Company, New York, N. Y.
Filed October 7, 1944. Serial No. 475,090. PUBLISHED FEBRUARY 27, 1945. Class 26.

430,559. ANIMAL TRAP. Joshua Patrick, doing business under the name of Patrick Industries, Detroit, Mich.
Filed January 22, 1945. Serial No. 478,896. PUBLISHED FEBRUARY 25, 1947. Class 50.

430,560. MEN'S PAJAMAS AND SPORT SHIRTS. Crown Manufacturing Company, Inc., San Francisco, Calif.
Filed January 25, 1945. Serial No. 478,989. PUBLISHED APRIL 1, 1947. Class 89.

430,561. LUBRICANT CONCENTRATE WHICH IS ADDED TO MINERAL OILS TO IMPART EXTREME PRESSURE FILM STRENGTH THERETO, ETC. The Elco Lubricant Corporation, Cleveland, Ohio.
Filed March 2, 1945. Serial No. 480,409. PUBLISHED MARCH 11, 1947. Class 15.

430,562. LUBRICANT CONCENTRATE WHICH IS ADDED TO MINERAL OILS TO IMPART EXTREME PRESSURE FILM STRENGTH THERETO, ETC. The Elco Lubricant Corporation, Cleveland, Ohio.
Filed April 13, 1945. Serial No. 482,096. PUBLISHED MARCH 11, 1947. Class 15.

430,563. LUBRICANT CONCENTRATE WHICH IS ADDED TO MINERAL OILS TO IMPART EXTREME PRESSURE FILM STRENGTH THERETO, ETC. The Elco Lubricant Corporation, Cleveland, Ohio.
Filed April 13, 1945. Serial No. 482,097. PUBLISHED MARCH 11, 1947. Class 15.

430,564. LADIES' HANDKERCHIEFS, SCARVES, AND FASCINATORS. Brian Fabrics Corp., New York, N. Y.
Filed April 18, 1945. Serial No. 482,271. PUBLISHED MARCH 18, 1947. Class 39.

430,565. MEN'S, BOYS', AND WOMEN'S OUTER SHIRTS. Parker Shirt Company, New Britain, Conn.
Filed May 14, 1945. Serial No. 483,334. PUBLISHED NOVEMBER 13, 1945. Class 39.

430,566. DRAWING INSTRUMENTS AND SUPPLIES FOR THE PRODUCTION AND REPRODUCTION OF PRINTS, DRAWINGS AND THE LIKE—NAMELY—LIGHT SENSITIVE SHEETS ADAPTED FOR MAKING PRINTS, DRAWING INSTRUMENTS INCLUDING RULING PENS, COMPASSES, DIVIDERS, PROTRACTORS, BOW INSTRUMENTS, PARALLEL RULERS, BEAM COMPASSES, DRAFTING INSTRUMENTS IN CASED SETS, ETC. Eugene Dietzgen Co., Chicago, Ill.
Filed May 26, 1945. Serial No. 483,812. PUBLISHED APRIL 1, 1947. Class 26.

430,567. PRISMATIC GLASS, SHEET GLASS, ROLLED GLASS, PLATE-GLASS, CATHEDRAL-GLASS, AND ORNAMENTAL GLASS WHICH CONTAINS NO PRECIOUS METALS. Pilkington Brothers Limited, Liverpool, England.
Filed July 19, 1945. Serial No. 486,001. PUBLISHED FEBRUARY 18, 1947. Class 33.

430,568. SHAPED PADDING FOR CAPS, HATS AND HELMETS COMPRISING SPONGE RUBBER AND RUBBER SUBSTITUTES. The Firestone Tire & Rubber Company, Akron, Ohio.
Filed July 23, 1945. Serial No. 486,144. PUBLISHED FEBRUARY 5, 1946. Class 39.

430,569. TURKEYS LIVE AND DRESSED, TURKEY POULTS AND FRESH AND HATCHING EGGS. Dixie-Del Farms, Lewes, Del.
Filed July 30, 1945. Serial No. 486,479. PUBLISHED APRIL 1, 1947. Class 46.

430,570. BAKERY PRODUCTS—NAMELY, BREAD. The E. H. Koester Bakery Company, Baltimore, Md.
Filed August 30, 1945. Serial No. 487,783. PUBLISHED MARCH 25, 1947. Class 46.

430,571. RECEPTACLES FOR HOUSEHOLD USE—NAMELY, BOWLS, DISHES, AND TRAYS OF GLASS FOR CARRYING FOODS, DISHES, AND KITCHEN APPLIANCES. Chicago Flexible Shaft Company, Chicago, Ill., now by change of name to Sunbeam Corporation.
Filed September 10, 1945. Serial No. 488,190. PUBLISHED MARCH 11, 1947. Class 33.

430,572. PEPPERMINT CANDIES, PEPPERMINT LOZENGES, NATURAL MINT FLAVORED LOZENGES AND CANDIES. Foscherio Hnos. S. R. Ltda., Buenos Aires, Argentina.
Filed September 17, 1945. Serial No. 488,580. PUBLISHED MARCH 11, 1947. Class 46.

430,573. SENSITIZED PHOTOGRAPHING PAPER, SPECIFICALLY DIRECT POSITIVE ORTHOCHROMATIC PHOTOGRAPHIC PAPER. Grant Photo Products, Inc., New York, N. Y.
Filed September 20, 1945. Serial No. 488,753. PUBLISHED MARCH 25, 1947. Class 26.

430,574. FRESH CITRUS FRUITS. Placentia Orange Growers Association, Fullerton, Calif.
Filed October 8, 1945. Serial No. 489,607. PUBLISHED APRIL 1, 1947. Class 46.

430,575. RAINCOATS, JACKETS, SPORT JACKETS, AND BATHING SUITS. Duchess Royal, New York, N. Y.
Filed October 20, 1945. Serial No. 490,238. PUBLISHED APRIL 1, 1947. Class 39.

430,576. RAINCOATS, JACKETS, SPORT JACKETS, AND BATHING SUITS. Duchess Royal, New York, N. Y.
Filed October 20, 1945. Serial No. 490,239. PUBLISHED APRIL 1, 1947. Class 39.

430,577. RUG PADS OF FOAMED LATEX RUBBER. Dunlop Tire and Rubber Corporation, Buffalo, N. Y.
Filed October 23, 1945. Serial No. 490,367. PUBLISHED APRIL 1, 1947. Class 50.

430,578. OPHTHALMIC MOUNTINGS AND PARTS THEREOF. Willson Products, Inc., Reading, Pa.
Filed October 24, 1945. Serial No. 400,471. PUBLISHED APRIL 1, 1947. Class 26.

430,579. PHONOGRAPH RECORDING BLANKS FOR THE COMMERCIAL MANUFACTURE OF PHONOGRAPH RECORDS. Julius Blumenthal, doing business as Aqualon Studios, New York, N. Y.
Filed November 3, 1945. Serial No. 490,995. PUBLISHED MARCH 18, 1947. Class 36.

430,580. TENTS, TARPAULINS, AND NON-TAILORED WATERPROOF FABRIC COVERS USED FOR PROTECTING MACHINERY AND VARIOUS ARTICLES. Bemis Bro. Bag Company, St. Louis, Mo.
Filed November 5, 1945. Serial No. 491,053. PUBLISHED FEBRUARY 18, 1947. Class 50.

430,581. CUTTING LUBRICANTS FOR METAL MACHINING OPERATIONS—NAMELY, EMULSIFIABLE CUTTING OILS, BROACHING OILS, TAPPING AND THREADING OILS. Bee Chemical Company, Chicago, Ill.
Filed November 10, 1945. Serial No. 491,384. PUBLISHED MARCH 18, 1947. Class 15.

430,582. MATERNITY DRESSES. Smilin' Thru Maternities, Inc., New York, N. Y.
Filed December 11, 1945. Serial No. 493,078. PUBLISHED MARCH 11, 1947. Class 39.

430,583. PHONOGRAPH NEEDLES INCLUDING TRANSCRIPTION NEEDLES, AND BLANKS FOR THE COMMERCIAL MANUFACTURE OF PHONOGRAPH RECORDS. Duotone Company, New York, N. Y.
Filed December 15, 1945. Serial No. 493,333. PUBLISHED FEBRUARY 18, 1947. Class 36.

430,584. UNSUPPORTED FILM IN SHEET FORM MADE OF A THERMOPLASTIC RESIN SUITABLE FOR USE AS A LEATHER SUBSTITUTE. The B. F. Goodrich Company, doing business as Hood Rubber Company, New York, N. Y., and Watertown, Mass.
Filed December 15, 1945. Serial No. 493,349. PUBLISHED APRIL 1, 1947. Class 50.

430,585. MUSICAL CIGARETTE, JEWELRY, AND POWDER BOXES MADE FROM WOOD AND PLASTICS. Noah R. Steury, Decatur, Ind.
Filed December 27, 1945. Serial No. 493,933. PUBLISHED APRIL 1, 1947. Class 36.

430,586. ART POTTERY, STATUES, AND STATUETTES. Furane Plastics and Chemicals Company, Los Angeles, Calif.
Filed January 28, 1946. Serial No. 495,543. PUBLISHED MARCH 18, 1947. Class 50.

430,587. LEATHER AND FABRIC GLOVES. Wimelbacher & Rice, Inc., New York, N. Y.
Filed February 26, 1946. Serial No. 497,287. PUBLISHED APRIL 1, 1947. Class 39.

430,588. THERMOMETER. Gotham Instrument Company, New York, N. Y.
Filed February 27, 1946. Serial No. 497,307. PUBLISHED MARCH 18, 1947. Class 26.

430,589. SHOES MADE OF LEATHER, FABRIC OR RUBBER, OR COMBINATIONS OF SAID MATERIALS FOR MEN, WOMEN, AND CHILDREN. Penobscot Shoe Company, Old Town, Maine.
Filed February 28, 1946. Serial No. 497,408. PUBLISHED APRIL 1, 1947. Class 39.

430,590. PERSIAN, CASABA, AND HONEYDEW FRESH MELONS. Half Moon Fruit & Produce Co., San Francisco, Calif.
Filed March 18, 1946. Serial No. 498,418. PUBLISHED DECEMBER 10, 1946. Class 46.

430,591. LADIES' SHOES MADE OF LEATHER, RUBBER, FABRICS, PLASTIC, AND COMBINATIONS THEREOF. Edison Brothers Stores, Inc., St. Louis, Mo.
Filed March 19, 1946. Serial No. 498,510. PUBLISHED MARCH 18, 1947. Class 39.

430,592. PHOTOGRAPHIC LENSES. Taylor, Taylor & Hobson Limited, Leicester, England.
Filed March 21, 1946. Serial No. 498,735. PUBLISHED MARCH 25, 1947. Class 26.

430,593. CINEMATOGRAPH PROJECTION LENSES. Taylor, Taylor & Hobson Limited, Leicester, England.
Filed March 21, 1946. Serial No. 498,736. PUBLISHED MARCH 25, 1947. Class 26.

430,594. TAGS, LABELS, OR MARKERS, MADE IN PART OF PLASTIC AND USED FOR IDENTIFICATION PURPOSES. Herbert Smith, Miami, Fla.
Filed March 27, 1946. Serial No. 499,081. PUBLISHED FEBRUARY 25, 1947. Class 50.

430,595. PATENT BARLEY, PEARL BARLEY, PATENT GROATS, OATMEAL, ROLLED OATS, RICE, MIXED SPICE, GINGER, CINNAMON, ARROWROOT, MUSTARD IN POWDERED OR LIQUID FORM. Keen, Robinson & Company Limited, Norwich and London, England.
Filed March 29, 1946. Serial No. 499,238. PUBLISHED FEBRUARY 25, 1947. Class 46.

430,596. WOMEN'S AND CHILDREN'S COATS, SUITS, SKIRTS, BLOUSES, DRESSES, FROCKS, JUMPERS, VESTS, KNICKERS, CHEMISES, PANTIES, SLIPS, CAMISOLES, CAMIKNICKERS, BRASSIÈRES, BUST BODICES, NIGHTDRESSES AND PAJAMAS. Brook Manufacturing Company (Northampton) Limited, Northampton, England.
Filed April 1, 1946. Serial No. 499,378. PUBLISHED APRIL 1, 1947. Class 39.

430,597. WOMEN'S AND CHILDREN'S COATS, SUITS, SKIRTS, BLOUSES, DRESSES, FROCKS, JUMPERS, VESTS, KNICKERS, CHEMISES, PANTIES, SLIPS, CAMISOLES, CAMIKNICKERS, BRASSIÈRES, BUST BODICES, NIGHTDRESSES, AND PAJAMAS. Brown & Wilkinson Limited, London, England.
Filed April 1, 1946. Serial No. 499,379. PUBLISHED APRIL 1, 1947. Class 39.

430,598. PHOTOGRAPHIC LENSES. Taylor, Taylor & Hobson Limited, Leicester, England.
Filed April 5, 1046. Serial No. 499,738. PUBLISHED APRIL 1, 1947. Class 26.

430,599. PHOTOGRAPHIC LENSES. Taylor, Taylor & Hobson Limited, Leicester, England.

Filed April 5, 1946. Serial No. 499,739. PUBLISHED MARCH 25, 1947. Class 26.

430,600. ENGINEERS' MEASURING INSTRUMENTS—NAMELY, LINEAR COMPARATORS. Taylor, Taylor & Hobson Limited, Leicester, England.

Filed April 5, 1946. Serial No. 499,741. PUBLISHED MARCH 25, 1947. Class 26.

430,601. SURFACE ROUGHNESS MEASURING INSTRUMENTS. Taylor, Taylor & Hobson Limited, Leicester, England.

Filed April 5, 1946. Serial No. 499,742. PUBLISHED MARCH 25, 1947. Class 26.

430,602. MEN'S, BOYS', JUNIORS', WOMEN'S, AND GIRLS' SPORT JACKETS. Winer Manufacturing Company, Hammond, Ind., assignor to Winer Manufacturing Co., Inc., Hammond, Ind., a corporation of Indiana.

Filed April 10, 1946. Serial No. 499,979. PUBLISHED OCTOBER 8, 1946. Class 39.

430,603. GEOMETRIC INSTRUMENT — NAMELY, A COMBINATION OF A PROTRACTOR AND STRAIGHT EDGE FOR USE IN MEASURING AND AS A GUIDE FOR DRAWING LINES. L. and L. Company, Minneapolis, Minn.

Filed April 11, 1946. Serial No. 500,012. PUBLISHED MARCH 18, 1947. Class 26.

430,604. COMPRESSED (WET) YEAST; DRY YEAST; YEAST FOOD; BAKING POWDER; MALT SYRUP FOR USE IN FOOD PRODUCTS, ETC. Red Star Yeast and Products Company, Milwaukee, Wisc.

Filed April 19, 1946. Serial No. 500,573. PUBLISHED MARCH 11, 1947. Class 46.

430,605. FLOAT CONTROLLED LIQUID LEVEL GAGING APPARATUS AND PARTS THEREOF. Telematic Corporation, Chicago, Ill.

Filed April 22, 1946. Serial No. 500,713. PUBLISHED APRIL 1, 1947. Class 26.

430,606. MISSES' AND JUNIOR MISSES' HATS. The Richbar Hats, Inc., New York, N. Y.

Filed May 7, 1946. Serial No. 501,599. PUBLISHED MARCH 18, 1947. Class 39.

430,607. PHONOGRAPH NEEDLES. International Merit Products Corporation, New York, N. Y.

Filed May 8, 1946. Serial No. 501,667. PUBLISHED MARCH 11, 1947. Class 36.

430,608. LADIES' AND MISSES' DRESSES. Dumari Textile Co., Inc., New York, N. Y.

Filed May 9, 1946. Serial No. 501,724. PUBLISHED APRIL 1, 1947. Class 39.

430,609. WOMEN'S HATS. Raphael Weill & Company, also doing business as The White House, San Francisco, Calif.

Filed May 9, 1946. Serial No. 501,796. PUBLISHED MARCH 25, 1947. Class 39.

430,610. GROOVED PHONOGRAPH RECORDS. Howard L. Brown, doing business as "Religious Productions," Hollywood, Calif.

Filed May 10, 1946. Serial No. 501,818. PUBLISHED MARCH 18, 1947. Class 36.

430,611. CLOSURE CAPS. Anchor Hocking Glass Corporation, Lancaster, Ohio.

Filed May 15, 1946. Serial No. 502,093. PUBLISHED MARCH 25, 1947. Class 50.

430,612. ARTIFICIAL LEATHER. Stedfast Rubber Co., Inc., Mattapan, Mass.

Filed May 15, 1946. Serial No. 502,163. PUBLISHED MARCH 18, 1947. Class 50.

430,613. DESK SETS CONSISTING OF A CASE WITH SHEARS AND LETTER OPENER. The Flexible File Company, Fremont, Ohio.

Filed May 17, 1946. Serial No. 502,281. PUBLISHED MARCH 25, 1947. Class 50.

430,614. SHOES, MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS OF THESE MATERIALS. The Gilbert Shoe Co., Thiensville, Wis.

Filed May 17, 1946. Serial No. 502,285. PUBLISHED MARCH 11, 1947. Class 39.

430,615. MEN'S SUITS, TOPCOATS, AND ENSEMBLES—NAMELY, COATS, VESTS, TROUSERS, AND CONTRASTING SLACKS. The H. A. Seinsheimer Company, Cincinnati, Ohio.

Filed May 17, 1946. Serial No. 502,338. PUBLISHED MARCH 18, 1947. Class 39.

430,616. RESILIENT, REMOVABLE INSOLES FOR MEN'S, WOMEN'S, AND CHILDREN'S SHOES. Daviot Company, Los Angeles, Calif.

Filed May 18, 1946. Serial No. 502,367. PUBLISHED MARCH 25, 1947. Class 39.

430,617. MEN'S HATS. Jack Dempsey, New York, N. Y., assignor to Adam Hat Stores Inc., New York, N. Y., a corporation of New York.

Filed May 21, 1946. Serial No. 502,502. PUBLISHED MARCH 18, 1947. Class 39.

430,618. HANDKERCHIEFS. Loomerica, Incorporated, New York, N. Y.

Filed May 22, 1946. Serial No. 502,586. PUBLISHED MARCH 18, 1947. Class 39.

430,619. LIGHT SENSITIVE PAPER, CAMERAS, AND CAMERA EQUIPMENT—NAMELY, COPY-STANDS. The Haloid Company, Rochester, N. Y.

Filed May 23, 1946. Serial No. 502,637. PUBLISHED MARCH 18, 1947. Class 26.

430,620. WOMEN'S, MISSES', AND CHILDREN'S SHOES, SLIPPERS, MULES, AND PUMPS OF LEATHER, FABRIC, RUBBER, AND CLOTH AND COMBINATIONS THEREOF, GAITERS, OVERSHOES, WOODEN SHOWER CLOGS; AND HOSIERY. General Shoe Corporation, Nashville, Tenn.

Filed May 28, 1946. Serial No. 502,890. PUBLISHED MARCH 25, 1947. Class 39.

430,621. PORTABLE MATERIAL HANDLING PLATFORMS USEFUL IN LIFT TRUCK OPERATIONS. Norman L. Cahners, doing business as Materials Handling Laboratories, Boston, Mass.

Filed June 1, 1946. Serial No. 503,157. PUBLISHED MARCH 11, 1947. Class 50.

430,622. HUMIDITY INDICATORS OPERATING ON THE PRINCIPAL OF THE WET BULB THERMOMETER. Osborn Fort Hevener, Irvington, N. J.

Filed June 1, 1946. Serial No. 503,168. PUBLISHED MARCH 25, 1947. Class 26.

430,623. HOSIERY. No Mend Hosiery, Inc., Philadelphia, Pa.

Filed June 3, 1946. Serial No. 503,212. PUBLISHED MARCH 11, 1947. Class 39.

430,624. KNITTED WEAR—NAMELY, MEN'S, BOYS', LADIES', CHILDREN'S, AND INFANTS' SWEATERS, GLOVES, MITTENS, HEADWEAR, SPORT SHIRTS, SCARVES, HOSIERY, AND UNDERWEAR; LADIES', CHILDREN'S, AND INFANTS' DRESSES AND BLOUSES. Royal Knitting Mills, Inc., Chicago, Ill.

Filed June 6, 1946. Serial No. 503,391. PUBLISHED MARCH 25, 1947. Class 39.

430,625. COLORED POTTERY DINNERWARE. Laurel Potteries, Stockton, Calif.

Filed June 10, 1946. Serial No. 503,580. PUBLISHED MARCH 11, 1947. Class 30.

430,626. INSTRUMENTS FOR QUANTITATIVELY DETERMINING THE SENSITIVITY OF ANY PORTION OF THE HUMAN BODY TO THE EFFECT OF AN APPLIED VIBRATION. William O. Frohring, doing business as Bio-Medical Instrument Co., Chagrin Falls, Ohio.

Filed June 14, 1946. Serial No. 503,893. PUBLISHED MARCH 18, 1947. Class 26.

430,627. SHOES MADE OF LEATHER, RUBBER, FABRIC, PLASTIC, AND/OR COMBINATIONS THEREOF. Bates Shoe Company, Webster, Mass.

Filed June 19, 1946. Serial No. 504,148. PUBLISHED MARCH 18, 1947. Class 39.

430,628. ALBUMS OF GROOVED PHONOGRAPH RECORDS. Gotham Record Corp., New York, N. Y.

Filed June 19, 1946. Serial No. 504,174. PUBLISHED APRIL 1, 1947. Class 36.

430,629. RAINCOATS. Marathon Raincoat Mfg. Co., New York, N. Y.

Filed June 19, 1946. Serial No. 504,193. PUBLISHED MARCH 18, 1947. Class 39.

430,630. GLOVES OF LEATHER AND/OR FABRIC. Pioneer Suspender Company, Philadelphia, Pa.

Filed June 19, 1946. Serial No. 504,208. PUBLISHED MARCH 11, 1947. Class 39.

430,631. PIANOS AND ORGANS. Plymouth Wholesale Dry Goods Corporation, New York, N. Y.

Filed June 27, 1946. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 504,697. PUBLISHED APRIL 1, 1947. Class 36.

430,632. PHOTOGRAPHIC SUPPLIES — NAMELY, NEGATIVE PRESERVERS, LANTERN SLIDE VISE, LANTERN SLIDE MATS, FILM CLIPS, PHOTO CHANGING BAGS, FOCUSING CLOTH, PRINT TONGS, NEGATIVE DRYING RACK, SUNSHADES, PHOTO TIMER, AND DEVELOPING TANKS. Burke & James, Inc., Chicago, Ill.

Filed June 28, 1946. Serial No. 504,739. PUBLISHED MARCH 18, 1947. Class 26.

430,633. SHOE SOLES OF RUBBER OR RUBBER-LIKE COMPOSITION. Panther-Panco Rubber Co., Inc., Chelsea, Mass.

Filed July 1, 1946. Serial No. 504,926. PUBLISHED APRIL 1, 1947. Class 39.

430,634. WOOL, LEATHER, COTTON, AND RAYON JACKETS, SUITS, PANTS, AND SWIM SUITS FOR USE BY MEN, WOMEN, BOYS, AND GIRLS. David J. Stolman, Gloversville, N. Y.

Filed July 8, 1946. Serial No. 505,265. PUBLISHED APRIL 1, 1947. Class 39.

430,635. PHOTOGRAPHIC APPLIANCES—NAMELY, VIEWERS, CAMERAS, SENSITIZED DEVELOPING PAPER, PHOTOGRAPHIC PLATES AND PAPER, PROJECTORS, DEVELOPING TANKS, DRYERS, PHOTOGRAPHIC PRINTERS, AND COLOR FILTERS. Scientific Development Corp., New York, N. Y.

Filed July 9, 1946. Serial No. 505,318. PUBLISHED MARCH 18, 1947. Class 26.

430,636. MEN'S AND LADIES' SHOES MADE OF LEATHER, CANVAS, FABRIC, OR COMPOSITIONS AND COMBINATIONS THEREOF. Christy Reggie, doing business as Southern Beauties, Waynesville, N. C.

Filed July 11, 1946. Serial No. 505,446. PUBLISHED APRIL 1, 1947. Class 39.

430,637. CHILDREN'S, GIRLS', AND MISSES' DRESSES, SLACKS, OUTER SHORTS, OVERALLS, PINAFORES, APRONS, BLOUSES, JACKETS, AND SKIRTS. Fashion Children Dress Co., New York, N. Y.

Filed July 16, 1946. Serial No. 505,690. PUBLISHED MARCH 11, 1947. Class 39.

430,638. OSCILLOSCOPES. Waterman Products Company, Incorporated, Philadelphia, Pa.

Filed July 19, 1946. Serial No. 505,934. PUBLISHED APRIL 1, 1947. Class 26.

430,639. INFANTS' BIBS AND PANTIES; AND LADIES' APRONS AND RAINHOODS AND RAIN KERCHIEFS. Century Textile Products, New York, N. Y.

Filed July 20, 1946. Serial No. 505,950. PUBLISHED MARCH 11, 1947. Class 39.

430,640. STRAPLESS BRASSIÈRES AND BANDEAUX. G. M. Poix, Inc., New York, N. Y.

Filed July 20, 1946. Serial No. 505,983. PUBLISHED MARCH 18, 1947. Class 39.

430,641. SERIES OF MOTION PICTURE FILM PRODUCTIONS. Carl Dudley, doing business as Carl Dudley Productions, Beverly Hills, Calif.

Filed July 23, 1946. Serial No. 506,101. PUBLISHED APRIL 1, 1947. Class 26.

430,642. MEN'S SUITS, SPORT COATS, SLACKS, TOPCOATS, OVERCOATS, AND LEISURE JACKETS. Wm. P. Goldman & Bros. Inc., New York, N. Y.

Filed July 26, 1946. Serial No. 506,357. PUBLISHED MARCH 4, 1947. Class 39.

430,643. BRICK LAYERS' LEVELS. William T. H. Ayers, doing business as Ayers Manufacturing Co., Indianapolis, Ind.

Filed July 27, 1946. Serial No. 506,364. PUBLISHED APRIL 1, 1947. Class 26.

430,644. CHILDREN'S COATS AND LEGGING SETS. Louis Gastwirth & Co., New York, N. Y.

Filed July 30, 1946. Serial No. 506,519. PUBLISHED APRIL 1, 1947. Class 39.

430,645. HOSIERY. Chester H. Roth Co., Inc., New York, N. Y.

Filed July 30, 1946. Serial No. 506,551. PUBLISHED MARCH 18, 1947. Class 39.

430,646. WOMEN'S AND MISSES' SLIPS AND NIGHTGOWNS, DRESSES, BLOUSES, PAJAMAS, AND BATH ROBES. Tailored Silk Undergarment Co. Inc., New York, N. Y.

Filed August 6, 1946. Serial No. 506,971. PUBLISHED MARCH 4, 1947. Class 39.

430,647. LADIES' AND GIRLS' SPORTSWEAR—NAMELY, SUITS, COATS, AND SLACK SUITS. Carr Manufacturing Company, San Antonio, Tex.

Filed August 9, 1946. Serial No. 507,106. PUBLISHED MARCH 4, 1947. Class 39.

430,648. WOMEN'S PAJAMAS. Munsingwear, Inc., Minneapolis, Minn.

Filed August 10, 1946. Serial No. 507,209. PUBLISHED APRIL 1, 1947. Class 39.

430,649. LADIES', MISSES', AND GIRLS' DRESSES, BLOUSES, PLAYSUITS, JUMPERS, SKIRTS, NEGLIGEES, AND MEN'S AND BOYS' SPORT SHIRTS, NECKTIES, AND SCARFS. Folker Fabrics Corp., New York, N. Y.

Filed August 12, 1946. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 507,249. PUBLISHED MARCH 4, 1947. Class 39.

430,650. WOMEN'S AND MISSES' DRESSES. Cohen Bros. Dress Corp., New York, N. Y.

Filed August 13, 1946. Serial No. 507,298. PUBLISHED MARCH 4, 1947. Class 39.

430,651. WOMEN'S, MISSES', AND JUNIOR SKIRTS, SHIRTS, SHORTS, SLACKS, SUITS, JACKETS, VESTS, AND JERKINS. Century Sportswear Co., Inc., Boston, Mass.

Filed August 14, 1946. Serial No. 507,371. PUBLISHED MARCH 4, 1947. Class 39.

430,652. LEATHER BOOTS AND SHOES. Chippewa Shoe Co., Chippewa Falls, Wis.

Filed August 14, 1946. Serial No. 507,374. PUBLISHED APRIL 1, 1947. Class 39.

430,653. RAINCOATS FOR MEN, WOMEN, BOYS, AND GIRLS. Van Baalen Heilbrun & Co., New York, N. Y.

Filed August 15, 1946. Serial No. 507,471. PUBLISHED APRIL 1, 1947. Class 39.

430,654. OPTICAL INSTRUMENTS, I. E., THICKNESS CALCULATORS. Premier Optical Products, Inc., New York, N. Y.

Filed August 15, 1946. Serial No. 507,489. PUBLISHED APRIL 1, 1947. Class 26.

430,655. LEATHER CUFF AND COLLAR SETS FOR DRESSES AND CLOTHING. The Whiting Company, New York, N. Y.
Filed August 17, 1946. Serial No. 507,608. PUBLISHED MARCH 18, 1947. Class 39.

430,656. MEN'S OUTER SHIRTS, UNDERSHIRTS, UNDERWEAR, PAJAMAS, AND ROBES. Excelsior Varsity Underwear Corporation, New York, N. Y.
Filed August 21, 1946. Serial No. 507,721. PUBLISHED MARCH 11, 1947. Class 39.

430,657. EAR MUFFS. Plymhurst Manufacturing Company, Boston, Mass.
Filed August 21, 1946. Serial No. 507,752. PUBLISHED MARCH 11, 1947. Class 39.

430,658. POTATOES. Michael Swanson Brady Produce Co., Kansas City, Mo.
Filed August 2, 1946. Serial No. 507,771. PUBLISHED MARCH 11, 1947. Class 46.

430,659. LADIES', MISSES', AND CHILDREN'S PAJAMAS, SLIPS, AND NIGHTGOWNS. Abraham Cohen, doing business as Craftex Underwear Co., New York, N. Y.
Filed August 22, 1946. Serial No. 507,803. PUBLISHED MARCH 18, 1947. Class 39.

430,660. MEN'S SHIRTS. Simtex Mills, Division of Simmons Company, New York, N. Y.
Filed August 22, 1946. Serial No. 507,856. PUBLISHED MARCH 18, 1947. Class 39.

430,661. MEN'S SHIRTS. Simtex Mills, Division of Simmons Company, New York, N. Y.
Filed August 22, 1946. Serial No. 507,857. PUBLISHED MARCH 18, 1947. Class 39.

430,662. MEN'S, WOMEN'S, AND CHILDREN'S RAINCOATS, RAIN CAPES, AND HOODS. Harry W. Dean, New York, N. Y.
Filed August 27, 1946. Serial No. 508,105. PUBLISHED MARCH 18, 1947. Class 39.

430,663. BLOUSES. American Blouse Co. Inc., New York, N. Y.
Filed September 6, 1946. Serial No. 508,568. PUBLISHED MARCH 18, 1947. Class 39.

430,664. UNDERWEAR FOR WOMEN—NAMELY, SLIPS AND PANTIES, PAJAMAS, GOWNS, BLOOMERS, BANDEAUX, BRASSIÈRES, STEP-INS, AND NIGHTGOWNS. Snowdon, Inc., Osceola, Iowa.
Filed September 9, 1946. Serial No. 508,750. PUBLISHED MARCH 18, 1947. Class 39.

430,665. BOYS' AND MEN'S WOOLEN, COTTON, AND LEATHER COATS. Cape Ann Manufacturing Co., Gloucester, Mass.
Filed September 12, 1946. Serial No. 508,887. PUBLISHED MARCH 18, 1947. Class 39.

ACT OF MARCH 19, 1920, SEC. 1 (b)

These registrations are not subject to opposition

430,666. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) American Liquid Gas Corporation, Los Angeles, Calif. Filed Aug. 7, 1944. Serial No. 473,008.

ALCASAIR

FOR GAS MAKING EQUIPMENT AND COMPLETE GAS PLANT MIXERS AND VAPORIZERS, COMPRISING APPARATUS FOR MIXING AND VAPORIZING LIQUEFIED PETROLEUM GAS TO BE USED FOR HEATING OR LIGHTING PURPOSES.
Claims use since Dec. 15, 1943.

430,667. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Tru Test Laboratories, Inc., Philadelphia, Pa. Filed Sept. 15, 1944. Serial No. 474,251.

FOR INSTRUMENTS AND APPARATUS FOR MAKING ANALYTICAL TESTS AND DETERMINATIONS OF BOILER FEED WATER, SEWAGE, SOIL, COAL AND OTHER SUBSTANCES AND INCLUDING BURETTES, PIPETTES, BOTTLES, BOTTLE HOLDERS, SLIDES, CLIPS, CLAMPS, BRACES, BOXES, RODS, BULBS, TUBES, DISPENSERS, GRADUATES, DROPPERS, CHARTS, LIGHTS, HOOKS, COLORIMETRIC OBSERVERS, SLIDES, FLASKS, SPECIAL SCIENTIFIC GLASSWARE AND CONTAINERS AND CABINETS THEREFOR.
Claims use since May 3, 1944.

430,668. (CLASS 38. PRINTS AND PUBLICATIONS.) Foley & Company, Chicago, Ill. Filed June 27, 1945. Serial No. 485,079.

Better Health

FOR PUBLICATION ON HEALTH, PUBLISHED FROM TIME TO TIME.
Claims use since Dec. 1, 1943.

430,669. (CLASS 38. PRINTS AND PUBLICATIONS.) Don F. Copell, Newark, N. J. Filed July 21, 1945. Serial No. 486,086.

MODERN
MANAGEMENT

FOR MAGAZINES FOR ADVANCING KNOWLEDGE OF MANAGEMENT METHODS.
Claims use since May 14, 1945.

430,670. (CLASS 38. PRINTS AND PUBLICATIONS.) Song Lyrics, Inc., New York, N. Y. Filed Oct. 29, 1945. Serial No. 490,711.

FOR PERIODICAL PUBLICATIONS OF CHILDREN'S ILLUSTRATED STORIES.
Claims use since Sept. 20, 1945.

430,671. (CLASS 38. PRINTS AND PUBLICATIONS.) Song Lyrics, Inc., New York, N. Y. Filed Oct. 29, 1945. Serial No. 490,712.

FOR PERIODICAL PUBLICATIONS OF CHILDREN'S ILLUSTRATED STORIES.
Claims use since Sept. 20, 1945.

430,672. (CLASS 38. PRINTS AND PUBLICATIONS.) Song Lyrics, Inc., New York, N. Y. Filed Oct. 29, 1945. Serial No. 490,713.

FOR PERIODICAL PUBLICATIONS OF CHILDREN'S ILLUSTRATED STORIES.
Claims use since Sept. 20, 1945.

430,673. (CLASS 38. PRINTS AND PUBLICATIONS.) Cambridge Associates, Inc., Boston, Mass. Filed Nov. 5, 1945. Serial No. 491,061.

Executives' Digest

FOR MONTHLY PUBLICATION OF TIMELY ARTICLES OF SPECIAL INTEREST TO BUSINESSMEN.
Claims use since May 1944.

430,674. (CLASS 37. PAPER AND STATIONERY.) Harold H. Gartner, doing business as Gartner Printing and Lithographing Company, Los Angeles, Calif. Filed Nov. 13, 1945. Serial No. 491,472.

Your Own
BIRTHSTONE
STATIONERY

FOR WRITING PAPER AND ENVELOPES.
Claims use since Oct. 15, 1945.

430,675. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) Crest Fabrics Corp., New York, N. Y. Filed Dec. 21, 1945. Serial No. 493,665.

MAGNIFICO

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.
Claims use since Jan. 3, 1945.

430,676. (CLASS 38. PRINTS AND PUBLICATIONS.) NEA Service, Inc., Cleveland, Ohio. Filed Jan. 29, 1946. Serial No. 495,617.

Vic
FLINT

FOR COMIC DRAWINGS, PUBLISHED IN DAILY AND SUNDAY NEWSPAPERS.
Claims use since Jan. 6, 1946.

430,677. (CLASS 38. PRINTS AND PUBLICATIONS.) HUGO GERNSBACK, New York, N. Y. Filed Feb. 19, 1946. Serial No. 496,902.

POPULAR ATOMICS

FOR MONTHLY PUBLICATION.
Claims use since Feb. 11, 1946.

430,678. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) MODERN HYGIENE, INC., Boston, Mass., assignor to Modern Hygiene Corporation, Boston, Mass., a corporation of Massachusetts. Filed Feb. 20, 1946. Serial No. 496,976.

Modern Hygiene

FOR ELECTRIC VACUUM CLEANERS.
Claims use since April 1939.

430,679. (CLASS 38. PRINTS AND PUBLICATIONS.) DONALD F. BUCKINGHAM, Chicago, Ill. Filed Feb. 28, 1946. Serial No. 497,366.

FOTOTYPE
CHICAGO

FOR UNITS OF BLOCKS OF SYMBOLS INCLUDING LETTERS, NUMBERS, PUNCTUATION MARKS, DOLLARS AND CENTS SIGNS AND THE LIKE PRINTED ON BOTH SIDES OF RELATIVELY THICK PAPER AND BLANKS, SAID SYMBOLS AND BLANKS REMOVABLE FROM SAID BLOCKS AND ADAPTED TO BE GROUPED TO FORM DESIRED WORDS OR DESIGNATIONS WHICH MAY BE ATTACHED TOGETHER BY ADHESIVE STRIPS, AND TURNED OVER PRESENTING THE SAME WORDS OR DESIGNATIONS FOR BEING PHOTOGRAPHED OR FOR IDENTIFICATION OR ALBUM USE.
Claims use since November 1935.

430,680. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SERVICE STATION EQUIPMENT COMPANY, Philadelphia, Pa., and Muskegon Heights, Mich. Filed Mar. 2, 1946. Serial No. 497,571.

Bennett

FOR SELF-MEASURING GASOLINE DISPENSING PUMPS, POWER OPERATED.
Claims use since Apr. 1, 1929.

430,681. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED STATES NEWS PUBLISHING CORPORATION, Washington, D. C. Filed Mar. 11, 1946. Serial No. 498,044.

World Transport

FOR SECTION OF PERIODICAL PUBLICATIONS.
Claims use since Mar. 4, 1946.

430,682. (CLASS 38. PRINTS AND PUBLICATIONS.) GILLETTE PUBLISHING COMPANY, Chicago, Ill. Filed Mar. 14, 1946. Serial No. 498,223.

WATER & SEWAGE WORKS

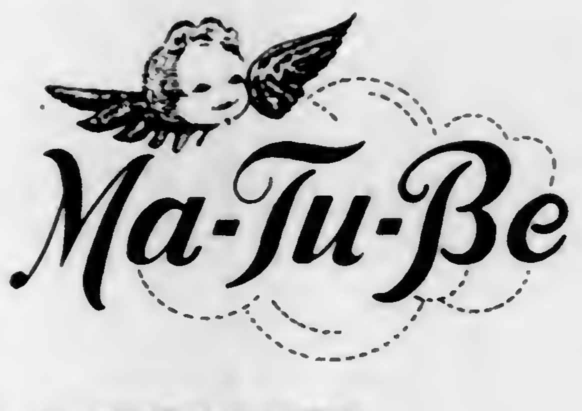
FOR MAGAZINE RELATING TO WATER WORKS AND SEWAGE.
Claims use since Feb. 16, 1946.

430,683. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHARLES H. LEHMAN, New York, N. Y. Filed Mar. 14, 1946. Serial No. 498,233.

MULTITONE

FOR HEARING AIDS.
Claims use since Oct. 1, 1938.

430,684. (CLASS 39. CLOTHING.) MARVELO DRESS CO., INC., Philadelphia, Pa. Filed Mar. 15, 1946. Serial No. 498,294.



FOR MATERNITY DRESSES.
Claims use since Mar. 1, 1946.

430,685. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) E. S. LOWE COMPANY, INC., New York, N. Y. Filed Mar. 22, 1946. Serial No. 498,785.

Rajah

FOR GAME COMPRISING GAME BOARD, MOVABLE PIECES AND DICE.
Claims use since Mar. 1, 1946.

430,686. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) RVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., now by change of name to Dan River Mills, Incorporated. Filed Apr. 30, 1946. Serial No. 501,207.

DREXEL

FOR SHEETS, SHEETING AND PILLOWCASES.
Claims use since Mar. 28, 1946.

430,687. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) R. J. PAGLIUSO, doing business as Pagliuso Engineering Co., Glendale, Calif. Filed May 6, 1946. Serial No. 501,527.

HOLLYWOOD

FOR PHOTOGRAPHIC EQUIPMENT—NAMELY TRIPODS.
Claims use since Feb. 1, 1946.

430,688. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) BENJAMIN LEE COHEN, doing business as Aid Laboratories, Camden, N. J. Filed May 9, 1946. Serial No. 501,715.

AID'S-BRUSHLESS

FOR SHAVING CREAM.
Claims use since June 10, 1934.

430,689. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) M. & W. THOMAS CO., New York, N. Y. Filed May 21, 1946. Serial No. 502,543.

SAHARA

FOR SILK AND RAYON PIECE GOODS USED FOR THE MANUFACTURE OF NECKTIES.
Claims use since May 1944.

430,690. (CLASS 39. CLOTHING.) MAISON FRANCE, New York, N. Y. Filed June 4, 1946. Serial No. 503,257.

Blouse Brief

FOR DICKEYS.
Claims use since Apr. 4, 1946.

430,691. (CLASS 8. SMOKERS' ARTICLES NOT INCLUDING TOBACCO PRODUCTS.) CUSTOM-BILT PIPES, INC., Indianapolis, Ind. Filed June 7, 1946. Serial No. 503,430.

Custombilt

AS INDIVIDUAL AS A THUMBPRINT

Applicant is the owner of Reg. No. 393,342.
FOR SMOKING PIPES.
Claims use since January 1935 as to the word "Custombilt," and since Apr. 10, 1946 on the mark shown.

430,692. (CLASS 17. TOBACCO PRODUCTS.) CUSTOM-BILT PIPES, INC., Indianapolis, Ind. Filed June 7, 1946. Serial No. 503,431.

CUSTOM-MIX

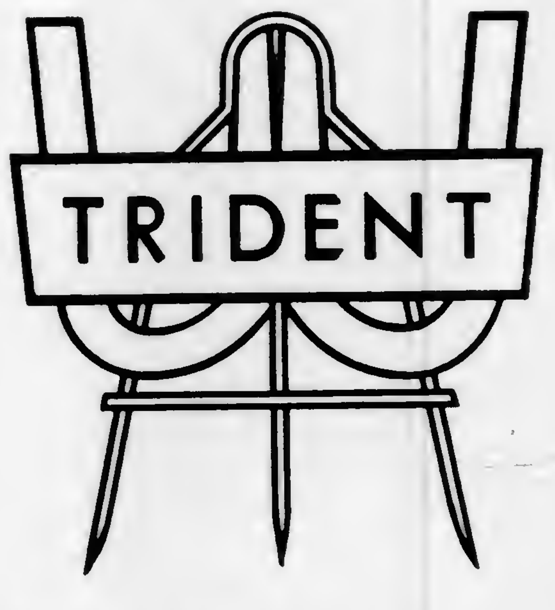
FOR SMOKING TOBACCO.
Claims use since Apr. 9, 1946.

430,693. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BMC MANUFACTURING CORPORATION, Binghamton, N. Y. Filed June 13, 1946. Serial No. 503,790.

Ready Ray

FOR ELECTRICAL AUTOMOBILE TROUBLE LAMPS AND PARTS THEREOF.
Claims use since May 1, 1946.

430,694. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) J. S. WEATHERS, doing business as Weathers Poke Company, Windsor, Mo. Filed June 21, 1946. Serial No. 504,410.



FOR ANIMAL POKES.
Claims use since Apr. 4, 1946 to the mark as shown and since Aug. 26, 1916 as to "Trident."

430,695. (CLASS 17. TOBACCO PRODUCTS.) GOODMAN CIGAR CO. INC., Westfield, Mass. Filed July 16, 1946. Serial No. 505,698.

SOUTH WINDSOR

FOR CIGARS.
Claims use since Apr. 1, 1946.

430,696. (CLASS 38. PRINTS AND PUBLICATIONS.) BARNES & WILLIAMS CO., Philadelphia, Pa. Filed July 19, 1946. Serial No. 505,887.

The Pennsylvania Banker

FOR PERIODIC PUBLICATIONS.
Claims use since Mar. 29, 1946.

430,697. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) LAWRENCE PRODUCTS CO., Attalla, Ala. Filed July 20, 1946. Serial No. 505,964.

Floridian

FOR COTTON RUGS.
Claims use since Apr. 14, 1946.

430,698. (CLASS 33. GLASSWARE.) FULTON WATCH CRYSTAL CORP., New York, N. Y. Filed July 31, 1946. Serial No. 506,593.

FIT-TITE

FOR WATCH CRYSTALS.
Claims use since Nov. 15, 1939.

430,699. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) THE PHONOLITE CORPORATION, St. Louis, Mo. Filed Aug. 20, 1946. Serial No. 507,690.

The Phon-◎-Lite

FOR ELECTRIC LAMP ESPECIALLY ADAPTED FOR ATTACHMENT TO A TELEPHONE.
Claims use since Feb. 1, 1946.

430,700. (CLASS 39. CLOTHING.) TOMMY TAYLOR TOGS, New York, N. Y. Filed Aug. 24, 1946. Serial No. 508,013.

TOMMY TAYLOR

FOR BOYS' TWO-PART SUITS AND BLOUSES FOR BOYS.
Claims use since April 1937.

430,701. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) BARCLAY HOME PRODUCTS, INC., Cohoes, N. Y. Filed Apr. 11, 1946. Serial No. 499,986.

BARCLAY

FOR COMFORTERS, PATCHWORK QUILTS, BEDSPREADS, AND ENSEMBLES CONSISTING OF A BEDSPREAD, DRAPERIES AND A VANITY SKIRT TO ENCIRCLE A VANITY TABLE SOLD AS A UNIT.
Claims use since Jan. 18, 1946.

430,702. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BERNARD STEMBER, Summit, N. J. Filed Apr. 11, 1946. Serial No. 500,021.

DEVON

FOR BILL FOLDS, BRIEF CASES, VALISES, POCKET BOOKS, PORTFOLIOS, PURSES AND WALLETS.
Claims use since July 1940.

430,703. (CLASS 38. PRINTS AND PUBLICATIONS.) FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed Apr. 23, 1946. Serial No. 500,747.

HOLLYWOOD

FOR MONTHLY PUBLICATION.
Claims use since June 5, 1925.

430,704. (CLASS 31. FILTERS AND REFRIGERATORS.) LOUIS H. BEHRENS, doing business as Behrens' Fixture Company, Denver, Colo. Filed Apr. 27, 1946. Serial No. 501,040.

OPEN-FREEZE

FOR REFRIGERATORS AND REFRIGERATING EQUIPMENT—NAMELY, WALK-IN REFRIGERATING UNITS AND QUICK-FREEZE STORAGE CABINETS.
Claims use since Feb. 1, 1946.

430,705. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., now by change of name to Dan River Mills, Incorporated. Filed Apr. 30, 1946. Serial No. 501,203.

AMHERST

FOR SHEETS, SHEETING AND PILLOWCASES.
Claims use since Apr. 2, 1946.

TRADE-MARK REGISTRATIONS RENEWED

29,299. **REPRESENTATION OF A TRICOLORED STAR.** TOY TORPEDOES AND TOY PAPER CAPS. Registered Dec. 15, 1896. M. BACKES SONS. Re-renewed Dec. 15, 1946, to M. Backes' Sons, Inc., Wallingford, Conn., a corporation of Connecticut. Class 9.

56,538. **VIMEDIA.** CAPSULES FOR UTERINE DISEASES, A CERATE FOR EXTERNAL APPLICATION, A SUPPOSITORY FOR RECTAL DISEASES, A PENCIL FOR URETHRAL DISEASES, A LIQUID FOR CATARRHAL DISEASES, A TABLET FOR DIGESTIVE DISEASES, AND A PELLET FOR CONSTIPATION. Registered Oct. 2, 1906. JAMES COOK FULLER, assignor to Vimedia Company. Re-renewed Oct. 2, 1946, to The Vimedia Company, Kansas City, Mo., a corporation of Missouri. Class 6.

56,818. **PRIMROSE.** BUTTER. Registered Oct. 23, 1906. THE CONTINENTAL CREAMERY COMPANY, Denver, Colo., and Topeka, Kans. Re-renewed Oct. 23, 1946, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. Class 46.

56,820. **MEADOW-GOLD.** BUTTER. Registered Oct. 23, 1906. THE CONTINENTAL CREAMERY COMPANY, Denver, Colo. Re-renewed Oct. 23, 1946, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. Class 46.

56,846. **UNIVERSAL BREAD MAKER.** BREAD-MAKING MACHINES, CAKE-MAKING MACHINES, AND EGG-BEATING MACHINES. Registered Oct. 23, 1906. LANDERS, FRARY & CLARK, New Britain, Conn., a corporation of Connecticut. Re-renewed Oct. 23, 1946. Class 23.

56,847. **UNIVERSAL COFFEE MILL.** COFFEE AND SPICE MILLS OF VARIOUS STYLES FOR FAMILY AND STORE USE. Registered Oct. 23, 1906. LANDERS, FRARY & CLARK, New Britain, Conn., a corporation of Connecticut. Re-renewed Oct. 23, 1946. Class 23.

56,930. **UNIVERSAL FOOD CHOPPERS.** ROTARY MEAT AND VEGETABLE CHOPPERS. Registered Oct. 23, 1906. LANDERS, FRARY & CLARK, New Britain, Conn., a corporation of Connecticut. Re-renewed Oct. 23, 1946. Class 23.

56,988. **"ARENA" AND ILLUSTRATION.** CANNED FISH. Registered Oct. 30, 1906. THE KELLEY-CLARKE CO. Re-renewed Oct. 30, 1946, to Kelley-Clarke Company, Seattle, Wash., a partnership. Class 46.

57,099. **"CELEBRATED HOLLAND CREAMERY BUTTER" ETC. AND DRAWING.** BUTTER. Registered Nov. 6, 1906. GEO. W. LINN & SON. Re-renewed Nov. 6, 1946, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. Class 46.

57,106. **REPRESENTATION OF A FOX SEATED UNDER AN UMBRELLA ETC.** UMBRELLAS. Registered Nov. 6, 1906. SAMUEL FOX & CO. LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 6, 1946. Class 41.

57,118. **HARDNOX.** HOSIERY. Registered Nov. 6, 1906. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed Nov. 6, 1946. Class 39.

57,379. **"£ S D" AND DIAMOND SHAPED DESIGN.** STEEL, UNWROUGHT AND PARTLY WROUGHT. Registered Nov. 13, 1906. EDGAR ALLEN & CO. LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,380. **REPRESENTATION OF A STAG.** STEEL, UNWROUGHT AND PARTLY WROUGHT. Registered Nov. 13, 1906. EDGAR ALLEN & CO. LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,391. **VELOS.** STEEL IN BAR, ROD, RAIL, SHEET, HOOP, AND OTHER UNWROUGHT AND PARTLY-WROUGHT FORMS. Registered Nov. 13, 1906. WALTER SPENCER & CO., LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,450. **"IMPERIAL" AND DIAMOND SHAPED DESIGN.** UNWROUGHT AND PARTLY-WROUGHT STEEL, EXCEPT SHEET-STEEL. Registered Nov. 13, 1906. EDGAR ALLEN & CO. LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,460. **"I C" AND REPRESENTATION OF A PAIR OF SPECTACLES.** STEEL, UNWROUGHT AND PARTLY WROUGHT. Registered Nov. 13, 1906. JONAS & COLVER, LIMITED. Re-renewed Nov. 13, 1946, to Jonas & Colver (Novo) Limited, Sheffield, England, a United Kingdom corporation. Class 14.

57,461. **"N V" AND REPRESENTATION OF A PAIR OF SPECTACLES.** STEEL, UNWROUGHT AND PARTLY WROUGHT. Registered Nov. 13, 1906. JONAS & COLVER, LIMITED. Re-renewed Nov. 13, 1946, to Jonas & Colver (Novo) Limited, Sheffield, England, a United Kingdom corporation. Class 14.

57,475. **SABEN.** STEEL AND STEEL BARS, RODS AND SHEETS AND OTHER UNWROUGHT AND PARTLY-WROUGHT FORMS. Registered Nov. 13, 1906. SANDERSON BROTHERS & NEWBOULD, LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,485. **REPRESENTATION OF AN EAGLE WITH OUTSTRETCHED WINGS WITH THUNDERBOLTS IN ITS CLAWS.** STEEL, UNWROUGHT AND PARTLY WROUGHT. Registered Nov. 13, 1906. W. K. & C. PEACE LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,486. **"Z" AND DIAMOND-SHAPED FIGURE AND ARCUATE LINE.** STEEL IN BAR, ROD, RAIL, SHEET, HOOP, WIRE, AND OTHER UNWROUGHT AND PARTLY-WROUGHT FORMS. Registered Nov. 13, 1906. WALTER SPENCER & CO., LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,506. **"FEARLESS" AND REPRESENTATION OF TWO BOXERS.** STEEL IN BARS, PLATES, RODS, AND WIRE. Registered Nov. 13, 1906. HOBSON, HOUGHTON & CO. LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,617. **REPRESENTATION OF THREE CRESCENTS.** STEEL AND IRON IN BAR, ROD, RAIL, SHEET WIRE, PIGS, PLATES, AND HOOPS. Registered Nov. 13, 1906. WALTER SPENCER & CO., LIMITED, Sheffield, England, a United Kingdom corporation. Re-renewed Nov. 13, 1946. Class 14.

57,911. **WHITE MOUNTAIN.** REFRIGERATORS. Registered Dec. 4, 1906. MAINE MANUFACTURING CO. Re-renewed Dec. 4, 1946, to The Maine Manufacturing Company, Nashua, N. H., a corporation of New Hampshire. Class 31.

58,634. **"W. BUTCHER" ETC. AND DESIGNS OF CIRCLE, ARROW AND CROSS.** FILES, GOUGES, CHISELS, PLANE-IRONS, AND ADZES. Registered Dec. 18, 1906. CHARLES FOSBERY BUTCHER, Sheffield, England. Re-renewed Dec. 18, 1946, to Durham-Enders Razor Corporation, Mystic, Conn., a corporation of New York. Class 23.

59,016. **"THE 'JOSEPH JEFFERSON' TARRED TARPON & TUNA LINES" ETC. PORTRAIT AND CIRCULAR DESIGN.** FISH-LINES. Registered Jan. 1, 1907. Ashaway Line & Twine Manufacturing Company, Ashaway, R. I., a corporation of Rhode Island. Re-renewed Jan. 1, 1947. Class 22.

59,199. **"ALWAYS FRESH AND SWEET" AND DRAWING.** BUTTER. Registered Jan. 1, 1907. Geo. W. Linn & Son. Re-renewed Jan. 1, 1947, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. Class 46.

59,815. **ARKACO.** PAINT AND VARNISH BRUSHES. Registered Jan. 15, 1907. Rennous Kleinle & Co. of Baltimore City, Baltimore, Md. Re-renewed Jan. 15, 1947, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Class 29.

59,834. **"PURIFOLD" AND RECTANGULAR AND CIRCULAR FIGURES.** PAPER DRINKING-CUPS. Registered Jan. 22, 1907. The Aseptic Drinking Cup Co., Cambridge, Mass. Re-renewed Jan. 22, 1947, to Burnitol Manufacturing Co., Boston, Mass., a corporation of Maine. Class 2.

60,251. **EAGLE.** CHEESE. Registered Feb. 5, 1907. F. X. Baumert & Company. Re-renewed Feb. 5, 1947, to The Borden Company, New York, N. Y., a corporation of New Jersey. Class 46.

60,289. **REPRESENTATION OF AN EAGLE ETC.** CHEESE. Registered Feb. 5, 1907. F. X. Baumert & Company. Re-renewed Feb. 5, 1947, to The Borden Company, New York, N. Y., a corporation of New Jersey. Class 46.

60,486. **"MILKMAID BRAND" AND REPRESENTATION OF MILKMAID.** CONDENSED MILK, BUTTER, AND CHEESE. Registered Feb. 12, 1907. Nestle & Anglo-Swiss Condensed Milk Co., Cham, Switzerland. Re-renewed Feb. 12, 1947, to Nestlé's Milk Products, Inc., New York, N. Y., a corporation of New York. Class 46.

60,842. **RIDER & DRIVER.** HOSIERY. Registered Feb. 19, 1907. Paramount Knitting Company. Re-renewed Feb. 19, 1947. Bear Brand Hosiery Co., Chicago, Ill., a corporation of Illinois. Class 39.

60,843. **ENGINEER AND FIREMAN.** HOSIERY. Registered Feb. 19, 1907. Paramount Knitting Company. Re-renewed Feb. 19, 1947, to Bear Brand Hosiery Co., Chicago, Ill., a corporation of Illinois. Class 39.

60,844. **POSTMAN AND POLICEMAN.** HOSIERY. Registered Feb. 19, 1907. Paramount Knitting Company. Re-renewed Feb. 19, 1947, to Bear Brand Hosiery Co., Chicago, Ill., a corporation of Illinois. Class 39.

60,845. **SOLDIERS AND SAILORS.** HOSIERY. Registered Feb. 19, 1907. Paramount Knitting Company. Re-renewed Feb. 19, 1947, to Bear Brand Hosiery Co., Chicago, Ill., a corporation of Illinois. Class 39.

60,933. **MILLER.** OIL LAMPS AND PARTS THEREOF. Registered Feb. 26, 1907. Edward Miller & Co. Re-renewed Feb. 26, 1947, to The Miller Company, Meriden, Conn., a corporation of Connecticut. Class 34.

61,237. **COLUMBIA.** TALKING MACHINE RECORDS, TALKING MACHINES, AND SUPPLIES THEREFOR. Registered Mar. 12, 1907. Columbia Phonograph Company, New York, N. Y. Re-renewed Mar. 12, 1947, to Columbia Recording Corporation, Bridgeport, Conn., a corporation of Delaware. Class 36.

61,328. **CRYSTAL BLUE.** WASHING BLUE. Registered Mar. 12, 1907. The Sawyer Crystal Blue Company. Re-renewed Mar. 12, 1947, to Sawyer Crystal Blue Company, Boston, Mass., a corporation of Massachusetts. Class 6.

61,432. **FLYER.** SLEDS. Registered Mar. 19, 1907. S. L. Allen & Co. Re-renewed Mar. 19, 1947, to S. L. Allen & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Class 19.

61,433. **FLEXIBLE.** SLEDS. Registered Mar. 19, 1907. S. L. Allen & Co. Re-renewed Mar. 19, 1947, to S. L. Allen & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Class 19.

61,669. **LEADITE.** CEMENT COMPOUNDS FOR MAKING PIPE-JOINTS. Registered Apr. 2, 1907. The Leadite Company of America. Re-renewed Apr. 2, 1947, to The Leadite Company, Philadelphia, Pa., a corporation of Delaware. Class 12.

61,678. **PEBECO.** TOOTH-PASTE AND TOOTH POWDER. Registered Apr. 2, 1907. P. Beiersdorf & Co., Hamburg, Germany. Re-renewed Apr. 2, 1947, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Class 6.

61,686. **"DR. W. B. CALDWELL" AND PORTRAIT.** A REMEDY FOR DISEASES OF THE STOMACH AND BOWELS. Registered Apr. 2, 1907. Pepsin Syrup Co., Monticello, Ill. Re-renewed Apr. 2, 1947, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware. Class 6.

61,721. **"EDGE'S SHADING BLUE" ETC. AND DRAWING.** TINTING-COLOR FOR BLEACHERS' USE. Registered Apr. 2, 1907. William Edge & Sons Limited, Bolton, England, a limited liability company organized under the laws of Great Britain. Re-renewed Apr. 2, 1947. Class 6.

61,806. **HAVOLINE.** OILS AND GREASES FOR GAS-ENGINES AND AUTOMOBILES. Registered Apr. 9, 1907. Havemeyer Oil Company. Re-renewed Apr. 9, 1947, to The Texas Company, New York, N. Y., a corporation of Delaware. Class 15.

61,829. **CASHMERE BOUQUET.** SOAP. Registered Apr. 9, 1907. Colgate & Co., New York, N. Y. Re-renewed Apr. 9, 1947, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

61,863. **PETER PAN.** LEATHER BOOTS AND SHOES. Registered Apr. 9, 1907. A. W. Tedcastle & Co. Re-renewed Apr. 9, 1947, to Kreider-Creveling Shoe Company, Boston, Mass., a corporation of Massachusetts. Class 39.

61,880. **"THERMIT" AND DRAWING.** METAL COMPOUNDS FOR USE IN THE PROCESS OF WELDING METALS. Registered Apr. 9, 1907. Goldschmidt Thermit Co. Re-renewed Apr. 9, 1947, to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey. Class 14.

62,019. **REPRESENTATION OF A BOW.** RAZORS. Registered Apr. 16, 1907. Charles Fosbery Butcher, Sheffield, England. Re-renewed Apr. 16, 1947, to Durham-Enders Razor Corporation, Mystic, Conn., a corporation of New York. Class 23.

62,050. **CASHMERE BOUQUET.** PERFUMERY, TALC-POWDER, AND TOILET WATER. Registered Apr. 16, 1907. Colgate & Co., New York, N. Y. Re-renewed Apr. 16, 1947, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 6.

62,065. **PEPTOGENIC.** A PREPARATION FOR THE MODIFICATION OF COW'S MILK. Registered Apr. 16, 1907. Fairchild Bros. & Foster, New York, N. Y. Re-renewed Apr. 16, 1947, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware. Class 6.

62,179. **TOOTSIES.** PULLING-CANDIES. Registered Apr. 23, 1907. The Stern & Saalberg Company, New York, N. Y. Re-renewed Apr. 23, 1947, to The Sweets Company of America, Incorporated, Hoboken, N. J., a corporation of Virginia. Class 46.

62,187. **TWILIGHT.** CANDY AND CHEWING-GUM. Registered Apr. 23, 1907. Manufacturing Co. of America. Re-renewed Apr. 23, 1947, to Thos. D. Richardson Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 46.

219,363. **"LOUD SPEAKER" AND REPRESENTATION OF LOUD SPEAKER.** WHEAT FLOUR. Registered Oct. 19, 1926. Noblesville Milling Co., Noblesville, Ind. Renewed Oct. 19, 1946, to Noblesbille Milling Company, Indianapolis, Ind., a corporation of Indiana. Class 46.

219,445. **HEARST'S INTERNATIONAL COMBINED WITH COSMOPOLITAN.** MONTHLY MAGAZINE. Registered Oct. 19, 1926. International Magazine Company, Inc. Renewed Oct. 19, 1946, to Hearst Magazines Inc., New York, N. Y., a corporation of Delaware. Class 38.

219,452. **NEW YORK AMERICAN.** DAILY NEWSPAPER. Registered Oct. 19, 1926. New York American, Inc. Renewed Oct. 19, 1946, to Hearst Consolidated Publications, Inc., New York, N. Y., a corporation of Delaware. Class 38.

219,622. **LOXOL.** HAIR OIL. Registered Oct. 19, 1926. Inecto Inc. Renewed Oct. 19, 1946, to Sales Affiliates, Inc., New York, N. Y., a corporation of New York. Class 6.

219,627. **BREVITÉ.** LADIES', MISSES', AND JUNIORS' COATS, WRAPS, SUITS, AND DRESSES. Registered Oct. 19, 1926. Samuel N. Brimberg. Renewed Oct. 19, 1946, to Brevity Coats, New York, N. Y., a copartnership. Class 39.

219,638. **DYSOLVOL.** HAIR-DYE WASH. Registered Oct. 19, 1926. Inecto Inc. Renewed Oct. 19, 1946, to Sales Affiliates, Inc., New York, N. Y., a corporation of New York. Class 6.

219,747. **HŌVIS.** WHEAT FLOUR. Registered Oct. 26, 1926. Hovis Limited, London, England, a limited liability company of Great Britain. Renewed Oct. 26, 1946. Class 46.

220,322. **PARACALCIN.** MEDICINAL COMPOUND FOR USE IN THE TREATMENT OF HYPOPARATHYROIDISM WITH LIME STARVATION. Registered Nov. 9, 1926. The Harrower Laboratory, Inc., Wilmington, Del., and Glendale, Calif. Renewed Nov. 9, 1946, to The Harrower Laboratory, Inc., Glendale, Calif., a corporation of Delaware. Class 6.

220,661. **HORROCKSES.** COTTON PIECE GOODS. Registered Nov. 16, 1926. Horrockses, Crewdson & Co., Limited, Preston and Manchester, England, a corporation organized and existing under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Nov. 16, 1946. Class 42.

221,146. **DALCROSE.** PERFUMED SOAP, TOILET SOAP, SHAVING CREAM USED FOR THE ACTUAL PROCESS OF SHAVING, AND SHAVING MILK—NAMELY, A LIQUID SHAVING SOAP. Registered Nov. 23, 1926. The Dubarry Perfumery Company Limited, Hove, England, a corporation organized and existing under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Nov. 23, 1946. Class 4.

221,176. **CORN BELT.** DRESSED POULTRY. Registered Nov. 23, 1926. Pioneer Creamery Co., Galesburg, Ill. Renewed Nov. 23, 1946, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. Class 46.

221,178. **"OX-O-GLOSS" ETC.** DRY, READY-MIXED AND PASTE PAINTS, PAINT ENAMELS, VARNISHES, PREPARED SHELLACS, AND WATERPROOFING PAINTS. Registered Nov. 23, 1926. Lehman Bros., Inc. Renewed Nov. 23, 1946, to Lehman Bros. Corp., Jersey City, N. J., a corporation of New Jersey. Class 16.

221,179. **"OX-O-NAMEL" ETC.** DRY, READY-MIXED, AND PASTE PAINTS, PAINT ENAMELS, VARNISHES, PREPARED SHELLACS, AND WATERPROOFING PAINTS. Registered Nov. 23, 1926. Lehman Bros., Inc. Renewed Nov. 23, 1946, to Lehman Bros. Corp., Jersey City, N. J., a corporation of New Jersey. Class 16.

221,253. **"OX-O-COTE" ETC.** INTERIOR AND EXTERIOR GLOSS PAINT, IN PASTE FORM OR READY MIXED. Registered Nov. 23, 1926. Lehman Bros., Inc. Renewed Nov. 23, 1946, to Lehman Bros. Corp., Jersey City, N. J., a corporation of New Jersey. Class 16.

221,529. **LUG-A-LONG.** RECEPTACLES MADE OF PAPER ADAPTED TO BE USED EITHER AS SHIPPING RECEPTACLES OR HAND BASKETS. Registered Dec. 7, 1926. American Box Board Company, Grand Rapids, Mich., a corporation of Michigan. Renewed Dec. 7, 1946. Class 2.

221,838. **"SONGBIRD" AND ILLUSTRATION.** BATTERIES. Registered Dec. 14, 1926. W. T. Grant Company, Lynn, Mass., and New York, N. Y. Renewed Dec. 14, 1946, to W. T. Grant Company, New York, N. Y., a corporation of Delaware. Class 21.

222,402. **"THREE STAR BRAND" ETC. AND DESIGN.** ASSORTED INCENSE. Registered Jan. 4, 1927. Bell David Brilles, doing business as Manhattan Incense Works, New York, N. Y. Renewed Jan. 4, 1947. Class 6.

222,405. **"POWDER PUFF LINGERIE" ETC. AND REPRESENTATION OF POWDER PUFFS WITHIN RECTANGULAR OUTLINE.** COTTON PIECE GOODS. Registered Jan. 4, 1927. Dumari Textile Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 4, 1947. Class 42.

222,963. **HER MAJESTY.** WOMEN'S KNITTED, WOVEN, AND TEXTILE UNDERWEAR OF ALL KINDS AND BLOOMERS, BRASSIÈRES, NIGHTGOWNS, AND PYJAMAS. Registered Jan. 11, 1927. Samuel N. Magill Inc., Philadelphia, Pa. Renewed Jan. 11, 1947, to Her Majesty Underwear Company, Leola, Pa., a corporation of Pennsylvania. Class 39.

223,033. **BUTTERFLY.** CANE AND MAPLE SIRUP, HONEY. Registered Jan. 11, 1927. California Syrup & Extract Company, Inc., Oakland, Calif., a corporation of California. Renewed Jan. 11, 1947. Class 46.

223,165. **SERVEL.** ICE TONGS AND ICE PICKS. Registered Jan. 18, 1927. Servel Corporation, Evansville, Ind. Renewed Jan. 18, 1947, to Servel, Inc., New York, N. Y., a corporation of Delaware. Class 23.

223,166. **SERVEL.** KITCHEN FURNITURE—NAMELY, CHAIRS, TABLES, CABINETS. Registered Jan. 18, 1927. Servel Corporation, Evansville, Ind. Renewed Jan. 18, 1947, to Servel, Inc., New York, N. Y., a corporation of Delaware. Class 32.

223,772. **"EVERY DAY IS A GOOD DAY."** AIR CONDITIONING, DRYING, AND VENTILATING EQUIPMENT, COMPRISING HUMIDIFIERS, DEHUMIDIFIERS, DRIERS, AND DUCTS, CONTROL BOARDS AND DOORS FOR THE SAME. Registered Feb. 8, 1927. Carrier Engineering Corporation, Newark, N. J. Renewed Feb. 8, 1947, to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware. Class 34.

223,852. **SETAGÈNE.** PREPARATIONS IN LIQUID OR SOLID FORM TO BE USED IN THE PERMANENT WAVING OF HAIR. Registered Feb. 15, 1927. Eugene Ltd., New York, N. Y. Renewed Feb. 15, 1947, to Eugene Ltd., Brooklyn, N. Y., a corporation of New York. Class 6.

223,871. **"ALLPREST" AND DIAMOND SHAPED DESIGN.** PRESSING MACHINES. Registered Feb. 15, 1927. The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York. Renewed Feb. 15, 1947. Class 24.

224,093. **REPRESENTATION OF A FOLDING RULE ETC.** FOLDING RULES. Registered Feb. 15, 1927. Lufkin Rule Co., Saginaw, Mich., a corporation of Michigan. Renewed Feb. 15, 1947. Class 26.

224,099. **WARDROLETTE.** WARDROBE TRUNKS AND CASES. Registered Feb. 15, 1927. Wheary Trunk Company. Renewed Feb. 15, 1947, to Wheary Incorporated, Racine, Wis., a corporation of Wisconsin. Class 3.

224,438. **M AND SONS.** MEDICINE FOR EXTERNAL USE FOR HEADACHE, TOOTHACHE, NEURALGIA, ACHING JOINTS, SPRAINS, BRUISES, AND RHEUMATISM. Registered Mar. 1, 1927. D. M. Malloy & Sons, Cleveland, Ohio. Renewed Mar. 1, 1947, to Joshua Malloy, doing business as D. M. Malloy & Sons, Chagrin Falls, Ohio. Class 6.

224,533. **"HENRI SELMER" AND FLORAL DESIGN.** WOOD-WIND MUSICAL INSTRUMENTS AND ACCESSORIES THEREFOR—NAMELY, MOUTHPIECES, LIGATURES, REEDS, AND REED CASES. Registered Mar. 1, 1927. Henri Selmer, Paris, France. Renewed Mar. 1, 1947, to H. & A. Selmer, Inc., Elkhart, Ind., a corporation of Indiana. Class 36.

224,554. **"COCKTAIL SPECIAL" AND REPRESENTATION OF ROOSTER WITHIN DIAMOND SHAPED OUTLINE,** NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. Registered Mar. 1, 1927. Mark C. Bulluck, doing business as Bulluck Bottling Works, Elm City, N. C. Renewed Mar. 1, 1947, to Mark C. Bulluck, doing business as Bulluck Bottling Works, Rocky Mount, N. C. Class 45.

224,595. **DIAMOND "F".** FRESH FRUIT—NAMELY, APPLES, PEARS, PEACHES, AND PLUMS. Registered Mar. 1, 1927. Fennville Fruit Exchange, Inc., Fennville, Mich., incorporated in Michigan as a cooperative. Renewed Mar. 1, 1947. Class 46.

224,645. **MYSTICLOTH.** INKED RIBBONS, SHEETS, AND STRIPS FOR DUPLICATION AND TRANSFER OF IMPRESSIONS. Registered Mar. 1, 1927. The Columbia Carbon Company, Dayton, Ohio, a corporation of Ohio. Renewed Mar. 1, 1947. Class 11.

224,653. **MOROTOCK.** SHEETING, SHEETS, AND PILLOWCASES, AND COLORED COTTON PIECE GOODS—NAMELY, YARN PLAIDS AND CHAMBRAYS. Registered Mar. 1, 1927. Riverside & Dan River Cotton Mills, Inc., Schoolfield and Danville, Va. Renewed Mar. 1, 1947, to Dan River Mills, Incorporated, Danville, Va., a corporation of Virginia. Class 42.

224,703. **"PALMOLIVE" ETC. AND RECTANGULAR DESIGN HAVING VARIOUS COLORED AREAS.** TOILET AND SHAVING SOAPS (IN SOLID, POWDERED, AND LIQUID FORM). Registered Mar. 1, 1927. The Palmolive Company, Chicago, Ill. Renewed Mar. 1, 1947, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

224,795. **DISNEY'S A.** TOILET PREPARATIONS—NAMELY, FACIAL CREAMS AND POWDERS. Registered Mar. 8, 1927. Milton M. Munter, doing business as Disney Ltd., Brooklyn, N. Y. Renewed Mar. 8, 1947, to Pond's Extract Company, New York, N. Y., a corporation of Delaware. Class 6.

224,890. **TOP-NOTCH.** CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. Registered Mar. 8, 1927. Emil Mascolo, doing business as C. Mascolo Beverage Company, Waterbury, Conn. Renewed Mar. 8, 1947. Class 45.

224,994. **"H P" AND TWO SHORT HEAVY UNDERLINES.** POWER-TRANSMISSION GEAR—NAMELY, IRON PULLEYS, SHAFT HANGERS, AND PILLOW BLOCKS. Registered Mar. 8, 1927. Hardware Products Company, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 8, 1947. Class 23.

225,022. **SPRAYOL.** OILS OR THE LIKE FOR TREATING COTTON OR OTHER TEXTILE FIBERS. Registered Mar. 8, 1927. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 8, 1947. Class 6.

225,135. **OPHIR.** LUBRICATING OIL. Registered Mar. 15, 1927. The Texas Company, Houston, Tex., and New York, N. Y. Renewed Mar. 15, 1947, to The Texas Company, New York, N. Y., a corporation of Delaware. Class 15.

225,227. **"NO-OXID-IZED WRAPPER" AND DIAMOND SHAPED DESIGN.** CLOTH WRAPPER IMPREGNATED WITH CHEMICALLY-COMPOUNDED RUST INHIBITORS FOR WRAPPING AND INCLOSING METAL PIPES AND METAL PRODUCTS IN GENERAL TO PROTECT AGAINST RUST. Registered Mar. 15, 1927. Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois. Renewed Mar. 15, 1947. Class 6.

225,299. **"AID".** OILS FOR TREATING TEXTILE FIBERS. Registered Mar. 15, 1927. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 15, 1947. Class 6.

225,523. **"M" AND CIRCLE DESIGN.** GLASS BOTTLES. Registered Mar. 22, 1927. Maryland Glass Corporation, Baltimore, Md., a corporation of New York. Renewed Mar. 22, 1947. Class 33.

225,700. **ANGELICA.** MEN'S AND WOMEN'S WASHABLE OR CLEANABLE APPAREL AND UNIFORMS—NAMELY, COATS, JACKETS, PANTS, DRESSES, SHIRTS, BLOUSES, WAISTS, AND APRONS, ETC. Registered Mar. 22, 1927. Angelica Jacket Company, St. Louis, Mo., a corporation of Missouri. Renewed Mar. 22, 1947. Class 39.

225,782. **MARICOPA.** BUTTER. Registered Mar. 22, 1927. The Maricopa Creamery Co., Phoenix, Ariz. Renewed Mar. 22, 1947, to The Borden Company, New York, N. Y., a corporation of New Jersey. Class 46.

226,199. **"KATINKA" AND REPRESENTATION OF A BOY AND GIRL.** KNITTED SUITS FOR WOMEN AND CHILDREN; MORNING, AFTERNOON, AND EVENING DRESSES; JERSEY SPORT DRESSES; SWEATERS AND SWEATER SUITS FOR WOMEN AND CHILDREN, AND OTHER SUCH CLOTHING. Registered Apr. 5, 1927. Katinka, Inc., New Haven, Conn., a corporation of Connecticut. Renewed Apr. 5, 1947. Class 39.

226.208. **£.** METAL PRODUCTS—NAMELY, CASTINGS AND FORGINGS. Registered Apr. 5, 1927. George H. Smith Steel Casting Company. Renewed Apr. 5, 1947, to Grede Foundries, Inc., Milwaukee, Wis., a corporation of Wisconsin. Class 14.

226,263. **"EZE" ETC.** POWDERED PREPARATION FOR GENERAL HOUSEHOLD CLEANING PURPOSES. Registered Apr. 5, 1927. Standard Products Incorporation, Newark, N. J. Renewed Apr. 5, 1947, to F. P. Stewart, Miami Beach, Fla. Class 4.

226,342. **LONE TREE.** CANNED SALMON. Registered Apr. 5, 1927. Gus Strand, doing business as Strand Fisheries and as Strand-Pioneer Fisheries, Aberdeen, Wash. Renewed Apr. 5, 1947. Class 46.

226,349. **"ABBEYLEIX" AND CIRCLE DESIGN.** DOGS AND HORSES. Registered Apr. 5, 1927. A. L. Fitz Patrick, Philadelphia, Pa. Renewed Apr. 5, 1947. Class 1.

226,374. **CHATEAU.** CHEESE. Registered Apr. 5, 1927. Chateau Cheese Company Limited, Ottawa, Ontario, Canada. Renewed Apr. 5, 1947, to The Borden Company, New York, N. Y., a corporation of New Jersey. Class 46.

226,378. **RUBBERITE.** SPAR VARNISH USED SOLELY AS AN ARCHITECTURAL VARNISH FOR OUTSIDE OR INSIDE WOODWORK. Registered Apr. 5, 1927. Atlantic Drier & Varnish Company. Renewed Apr. 5, 1947, to Monad Paint & Varnish Co., Philadelphia, Pa., a corporation of Pennsylvania. Class 16.

226,470. **"BEAR" AND REPRESENTATION OF POLAR BEAR ON ICE ETC.** GINGER ALE. Registered Apr. 12, 1927. Great Bear Spring Company, New York, N. Y., a corporation of New Jersey. Renewed Apr. 12, 1947. Class 45.

226,530. **"LYSOL" ETC. AND DRAWING.** ANTISEPTIC AND DISINFECTANTS. Registered Apr. 12, 1927. Lysol, Incorporated. Renewed Apr. 12, 1947, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Class 6.

226,606. **CHEMIC-ENAMEL.** READY-MIXED PAINTS AND ENAMEL IN THE NATURE OF PAINT. Registered Apr. 12, 1927. United States Gutta Percha Paint Company, Providence, R. I., a corporation of Rhode Island. Renewed Apr. 12, 1947. Class 16.

226,624. **"AIRFLEX" ETC. AND DESIGN.** MATTRESSES, BED SPRINGS, PILLOWS, AND COUCHES. Registered Apr. 12, 1927. Edward McRoskey Mattress Co. Renewed Apr. 12, 1947, to McRoskey Airflex Mattress Co., San Francisco, Calif., a corporation of California. Class 32.

226,667. **"OLD McBRAYER" AND HEAVY SHORT LINES.** WHISKY. Registered Apr. 19, 1927. Rosenfield Bros., Chicago, Ill. Renewed Apr. 19, 1947, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Class 49.

226,668. **CAMP FIRE BRAND.** FRESH CITROUS FRUITS—NAMELY, ORANGES, GRAPE FRUIT, TANGERINES. Registered Apr. 19, 1927. Ojai Orange Association, Ojai, Calif., a corporation of California. Renewed Apr. 19, 1947. Class 46.

226,718. **"RITZ CARLTON R. C." AND DRAWING.** PERFUMES, TOILET WATERS, HAIR TONIC, FACE LOTIONS, FACE POWDERS, AND SUCH OTHER GOODS. Registered Apr. 19, 1927. Hyman Huebschman, Brooklyn, N. Y. Renewed Apr. 19, 1947, to Charles of the Ritz, Inc., New York, N. Y., a corporation of Delaware. Class 6.

226,737. **SAL de UVAS.** PREPARATION FOR THE TREATMENT OF INDIGESTION, URIC ACID CONDITIONS, CONSTIPATION, HEADACHES DUE TO LIVER DISORDERS, EXCESSIVE USE OF ALCOHOLIC BEVERAGES, LAXATIVE PREPARATIONS, DIURETIC PREPARATIONS, AND ELIMINANT PREPARATIONS. Registered Apr. 19, 1927. Manuel S. Valldejuli, doing business as The Picot Company, Buffalo, N. Y. Renewed Apr. 19, 1947, to Picot Laboratories, Inc., Mount Vernon, N. Y., a corporation of Delaware. Class 6.

226,760. **FIRST NATIONAL PRIZE.** BREAD, CAKE, CRACKERS, BISCUITS, COOKIES, PIES, DOUGHNUTS. Registered Apr. 19, 1927. First National Stores, Inc., Boston, Mass. Renewed Apr. 19, 1947, to First National Stores, Inc., Somerville, Mass., a corporation of Massachusetts. Class 46.

226,787. **RAINBOW.** COFFEE. Registered Apr. 19, 1927. L. H. Parke Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Apr. 19, 1947. Class 46.

226,791. **"CHELTENHAM" AND DRAWING.** MEN'S, OVERCOATS AND SACK COATS. Registered Apr. 19, 1927. The Stein-Bloch Co. Renewed Apr. 19, 1947, to Fashion Park, Inc., Rochester, N. Y., a corporation of New York. Class 39.

226,798. **REDYREF RACK.** BOOKRACKS. Registered Apr. 19, 1927. Pressed & Welded Steel Products Co. Inc., Long Island City, N. Y., a corporation of New York. Renewed Apr. 19, 1947. Class 32.

226,818. **"BELINDA HABANA" AND REPRESENTATION OF FEMALE HEAD, COINS, FLOWERS, ETC.** CIGARS. Registered Apr. 19, 1927. Fernandez, Palicio y Compania, S. en C., Habana, Cuba, a partnership of Cuba. Renewed Apr. 19, 1947. Class 17.

226,823. **GREEN CORE.** CRAFT PAPER, BOND PAPER, MANILA PAPER, AND TRANSVERSELY-PERFORATED PAPER, BOTH GUMMED AND UNGUMMED, SOLD IN ROLLS. Registered Apr. 19, 1927. Mid-States Gummed Paper Company. Renewed Apr. 19, 1947, to Mid-States Gummed Paper Co., Chicago, Ill., a corporation of Delaware. Class 37.

226,826. **RIALTO.** INNER TUBES OF RUBBER COMPOUND. Registered Apr. 19, 1927. Public Service Tire & Rubber Co., Inc., Brooklyn, N. Y., a corporation of New York. Renewed Apr. 19, 1947. Class 35.

226,844. **FOTOFAX.** LOOSE-LEAF BOOKS. Registered Apr. 19, 1927. McMillan Book Company, Syracuse, N. Y., a corporation of New York. Renewed Apr. 19, 1947. Class 37.

REISSUES

JUNE 17, 1947

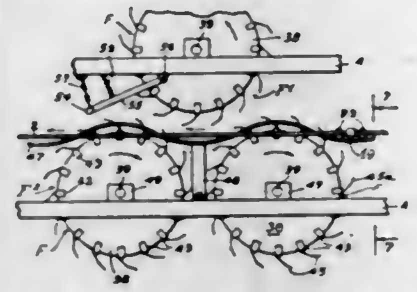
22,889

STATIONARY TYPE HOP PICKING MACHINE

Florian F. Dauenhauer, Santa Rosa, Calif.

Original No. 2,391,138, dated December 18, 1945, Serial No. 422,049, December 8, 1941. Application for reissue December 14, 1946, Serial No. 716,216

13 Claims. (Cl. 130—30)



1. In a hop-picking machine, a plurality of picking drums arranged in two substantially parallel rows, the drums having hop-picking means thereon describing circumferential paths when the drums are rotated, the drums in one row being staggered with respect to those in the other row and the vertical distance between the plane of the axes of the drums in one row and the plane of the axes of the drums of the other row being less than the diameters of said circumferential paths so that an undulating path of substantial equal depth throughout is formed therebetween, and means for moving vines between the two rows of picking drums, the drums causing the vines to follow the undulating path, the hop-picking means on the drums removing hops from the vines as they pass between the two rows of drums, the staggering of the drums causing the hop picking means to remove hops continuously from the vines at the top and bottom of the path throughout the entire length of the path.

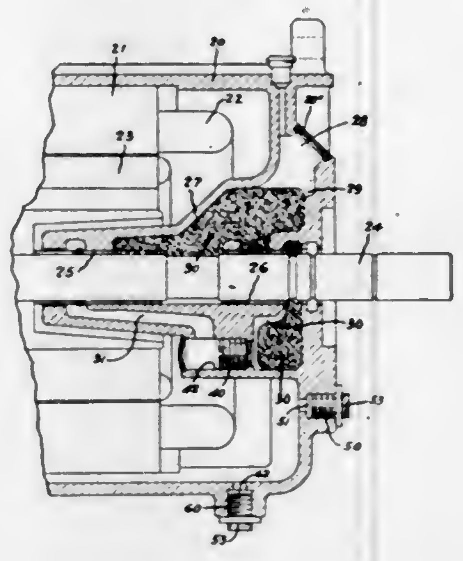
22,890

BREATHER PLUG FOR ELECTRIC MOTORS

David H. Manney, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original No. 2,323,146, dated June 29, 1943, Serial No. 420,215, November 24, 1941. Application for reissue May 1, 1945, Serial No. 591,241

6 Claims. (Cl. 172—36)



1. In combination with an electric machine having a sealed casing, of a breather plug in said casing adapted to prevent the propagation of flame caused by the explosion of gas vapors ignited by sparking in the interior of the casing, said breather plug comprising a body consisting of sintered, non-compacted metal powder.

PLANT PATENTS

GRANTED JUNE 17, 1947

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

739

ROSE PLANT

Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application April 24, 1946, Serial No. 664,525

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the Floribunda class, characterized as to novelty by its habit of prolific flowering on a low, upright, compact growth; by the coloring of its flowers both at opening and finish stages of development together with the white color of the base of the inside petals, giving the effect of an eye; by its habit of continuously blooming throughout the summer season without show of burning effect of the sun; and by the brown coloring of young foliage as constant contrasting background and for the deep color of blooms during flowering season, substantially as shown and described.

PATENTS

GRANTED JUNE 17, 1947

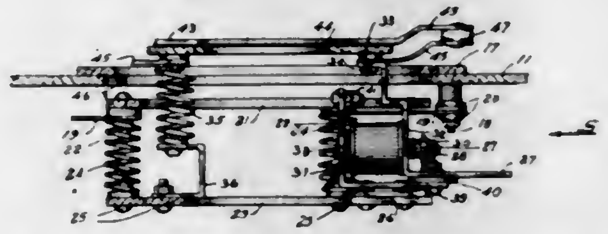
2,422,174

PHOTOGRAPHIC RETOUCHING DEVICE

Harry Le Roy Adams, Denver, Colo., assignor to Adams Retouching Machine Company, a corporation of Colorado

Application March 25, 1946, Serial No. 656,938

8 Claims. (Cl. 95—103)



1. A photographic negative retouching device comprising: a face plate; an annular plate resiliently supported from the rear of said face plate; a back plate resiliently supported from the rear of said annular plate; a negative plate resiliently supported from said back plate and positioned forwardly of said face plate; and electro-magnetic means for vibrating said negative plate.

2,422,175

VARNISH AND METHOD OF MAKING THE SAME

Laszlo Auer, South Orange, N. J., assignor to Ridbo Laboratories, Inc., Paterson, N. J., a corporation of New Jersey

No Drawing. Application April 3, 1944, Serial No. 529,407

17 Claims. (Cl. 106—218)

1. As a varnish base, the product resulting from cooking, at varnish-cooking temperatures at and above 240° C., (1) a varnish base mixture comprising a varnish resin and a varnish oil selected from the class which consists of China-wood oil, oiticica oil, dehydrated castor oil and esters of the formula "*ab*" in which "*a*" represents a long chain unsaturated fatty acid having multiple double bonds and "*b*" represents the radical of an alcohol having at least four OH groups, and (2) a mixture of rosin and rosin:hydrocarbons constituting from 5% to 20% of the amount of varnish oil present.

2,422,176

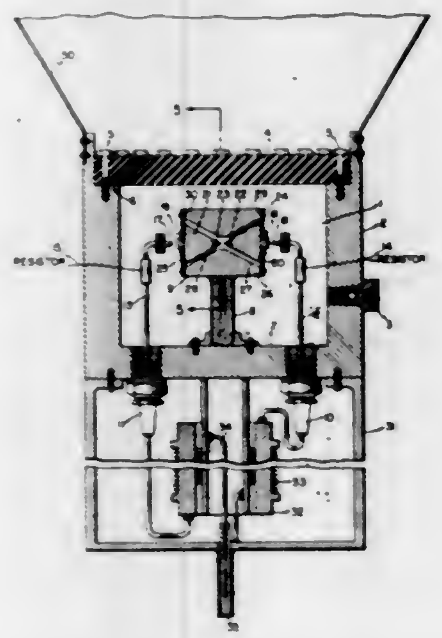
SPARK GAP OSCILLATION GENERATOR WITH RADIATOR

Hugo Benioff, Pasadena, Calif., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass., a corporation of Delaware

Original application April 30, 1941, Serial No. 391,153. Divided and this application December 26, 1942, Serial No. 470,299

4 Claims. (Cl. 250—17)

1. A spark transmitting system for ultra-high radio frequency comprising, in combination, a metallic casing having one side transparent to electromagnetic waves, an ultra high frequency radiation and tank circuit coupled together and positioned within said casing comprising two opposed conducting conical members with apices aligned along a common central axis of revolution of the cones providing the sparking points, means providing a continuous conductive surface closely spaced to the surfaces of said conical members but further apart therefrom than the sparking points, insulating means supporting and positioning said conical members with respect to the means providing said continuous conductive surface, and means mounted on a side of said metallic casing supporting said means providing a continuous conductive surface.



2,422,177

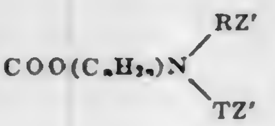
PROCESS FOR BREAKING PETROLEUM EMULSIONS

Charles M. Blair, Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application December 10, 1943, Serial No. 513,784

10 Claims. (Cl. 252—341)

1. A process for resolving petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsions to action of a demulsifying agent comprising a sub-resinous esterified adduct, being a member of the class consisting of complete esters, acid esters and ester salts; said adduct being an acyclic alpha-beta unsaturated acid having not over 10 carbon atoms combined at an intermediate point in the carbon atoms chain of a non-conjugated, unsaturated, non-hydroxylated, fatty acid acyl radical having at least 8 and not over 32 carbon atoms; said esterified adduct containing at least one occurrence of the radical



$$-COO(C_nH_{2n})N\begin{cases}RZ' \\ TZ'\end{cases}$$

in which *n* represents the numeral 2 to 20, R and T are selected from the class consisting of alkyl, alicyclic, alkanol and arylalkyl radicals, and Z' is a member of the class consisting of hydrogen atoms and acyl radicals having not over 8 carbon atoms.

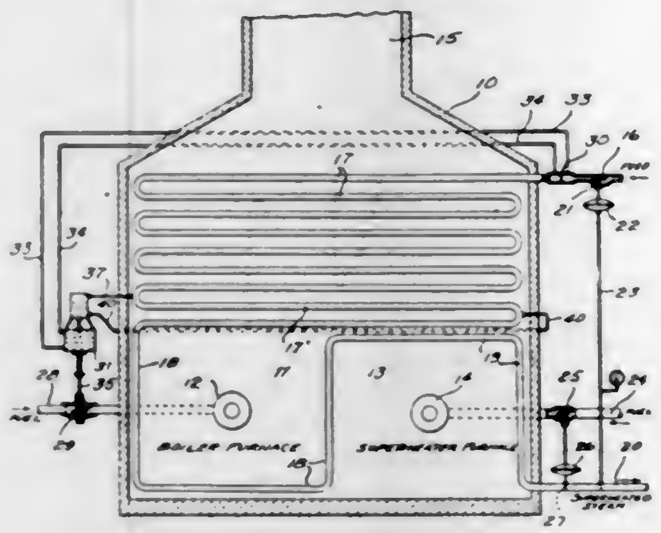
2,422,178

VAPOR GENERATOR

John Blizard, Garden City, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application March 19, 1942, Serial No. 435,258

14 Claims. (Cl. 122—448)



1. A vapor generator comprising a vapor generating section, a superheating section, separate furnaces for said sections, means for independently firing each furnace, means responsive to a condition of the superheated vapor for controlling the means for firing the furnace for the superheating section, and means responsive to the differential pressure across spaced flow resistances in the path of fluid which flows through the vapor generating section for controlling the means for firing the furnace for the vapor generating section.

2,422,179

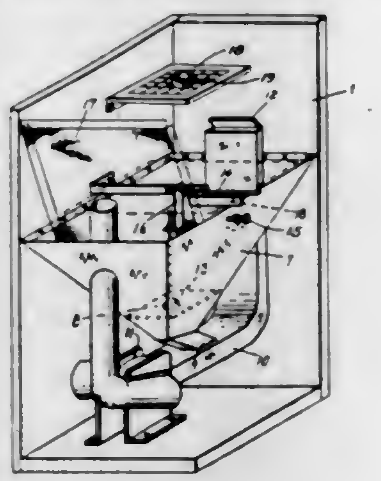
DUST STORM RESISTANCE TESTING CHAMBER

Leslie A. Brewster, Dayton, Ohio, assignor to the Government of the United States of America, as represented by the Secretary of War

Application November 27, 1944, Serial No. 565,386

6 Claims. (Cl. 35—13)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination in a dust storm resistance testing apparatus, a chamber, a hopper therein extending completely across the interior of said chamber and dividing it into upper and lower parts, a conduit below said hopper communicating therewith and delivering thereabove, a blower delivering to said conduit, an air supply delivering to said blower from above said hopper and means controlling communication between said conduit and said hopper.

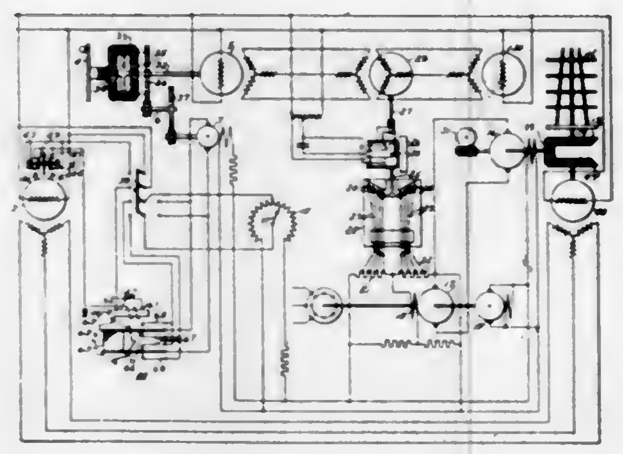
2,422,180

ANTENNA POSITIONING CONTROL

John H. Broadbent, Longmeadow, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 8, 1943, Serial No. 490,045

21 Claims. (Cl. 172—239)



1. In a drive for a directional antenna, a rotatable support for the antenna, drive means for said support, control means for said drive means including a remotely positioned control member and a follow-up system for effecting rotation of said support in accordance with movement of said control member, a reversible drive for said control member, and means responsive to the position of said support for reversing said control member drive as the support moves to either end of a given arc to thereby continuously move said support back and forth through said arc.

2,422,181

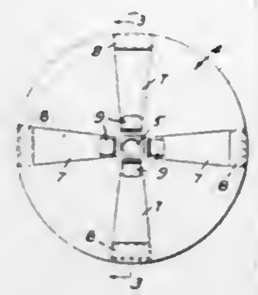
PERISCOPIC BORE SIGHT

Leo H. Brown, Glenville, Conn.

Application December 15, 1943, Serial No. 514,356

13 Claims. (Cl. 88—74)

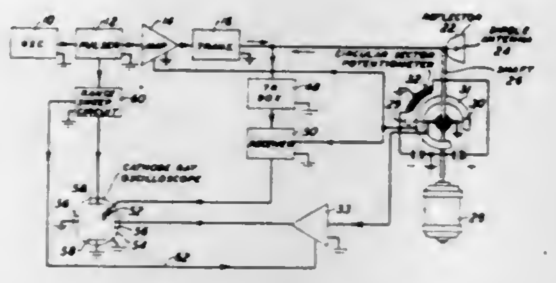
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination with a gun barrel, a frame mounted at the breech end of said barrel and having a sighting aperture centered on the axis of the bore of said barrel, a plurality of first reflecting means carried by said frame and positioned to reflect respective images of circumferentially spaced portions of the muzzle end of said bore and respective images of a distant object, and second reflecting means disposed radially inwardly of said first reflecting means and positioned to reflect said images rearwardly adjacent and along said axis to an observation point on said axis at the breech end of said bore whereby the images of a distant object may be observed in relation to the images of said portions, simultaneously with direct observation of said object through said aperture.

2,422,182
OBJECT LOCATING SYSTEM

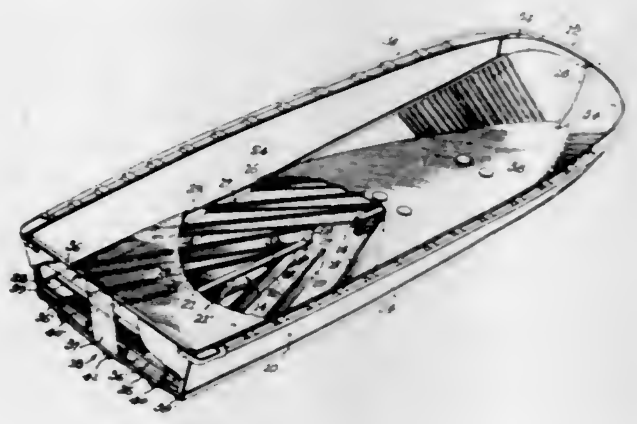
Newton W. Bryant, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 17, 1944, Serial No. 535,938
3 Claims. (Cl. 250—1.62)



1. In a radar system of the type which sweeps an area in azimuth by a highly directive energy beam and simultaneously determines the range of reflecting objects by timing reflections therefrom of the directive beam, an indicator in which a movable indicating means is swept along one dimension to provide a positional representation of azimuth angle and simultaneously along a second orthogonally related dimension to provide a positional representation of range, means for controlling the azimuth sweep of the indicating means during each range sweep to represent precisely half the azimuth sweep of the exploratory beam, and means for advancing the azimuth sweep of the indicating means at the end of each range sweep thereof to represent the azimuth position of the exploratory beam at the start of the next range sweep of said indicating means.

2,422,183
BOAT CONSTRUCTION

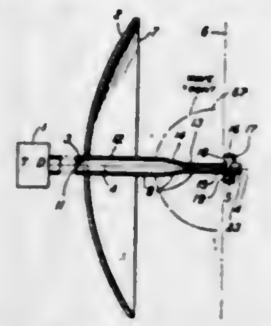
Carl H. Clement, Jr., United States Army, Fort Belvoir, Va.
Application August 8, 1945, Serial No. 609,688
6 Claims. (Cl. 9—6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A hull comprising a central keel member connected to an upwardly curved stem, floor beams having straight lined lower edges connected at one end to said keel and extending outwardly and rearwardly therefrom, side panels extending outwardly and rearwardly from the stem and connected to the outer ends of said floor beams, an inner floor and a bottom connected respectively to the upper and lower edges of said floor beams and to said side panels and keel.

2,422,184
DIRECTIONAL MICROWAVE ANTENNA

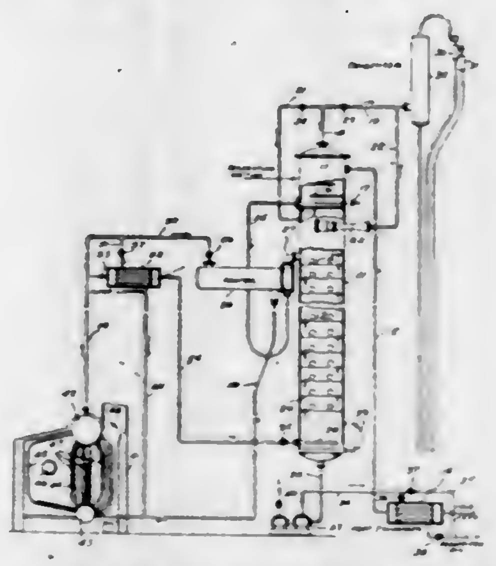
Cassius C. Cutler, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 15, 1944, Serial No. 518,377
20 Claims. (Cl. 250—11)



1. In a directive radio system, means for transmitting or receiving a wave having in a given plane a circular wave front substantially, said means comprising a dielectric chamber having a flat wall containing a pair of apertures spaced in said plane a half wavelength apart and a dielectric guide comprising a metallic tube for supplying to, or receiving from, said apertures isophased wave components, said guide extending in said plane perpendicular to the plane of said apertures and connected to said wall at a point midway between said apertures.

2,422,185
APPARATUS FOR DEODORIZATION OF ANIMAL OILS AND VEGETABLE OILS

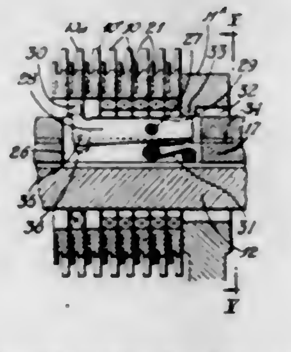
Dion K. Dean, Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application August 20, 1942, Serial No. 455,413
7 Claims. (Cl. 23—262)



1. Apparatus for the continuous deodorization of animal or vegetable oils comprising a column, partition means for dividing the column intermediate its ends, a deaerating section above said partition means, a deodorizing section below said partition means, means for continuously introducing oil into the upper part of the deaerating section, means for introducing steam into the lower part of the deaerating section for countercurrent contact with the oil introduced therein, means for maintaining a vacuum in the deaerating section to cause air to be removed from the oil flowing through said section and to be removed from said section, a heater, a conduit connected with the lower part of the deaerating section and with the heater through which oil is continuously withdrawn from the deaerating section and is conducted to the heater, another conduit connecting the heater and the upper part of the deodorizing section through which heated oil is delivered to the deodorizing section, means for introducing steam into the lower part of the deodorizing section for counter-current contact with the heated oil introduced therein, means for maintaining a vacuum in the deodorizing section, and means for continuously withdrawing deodorized oil from the deodorizing section.

2,422,186
REGISTER SELECTING MECHANISM

Marcel Demeulenaere, Brussels, Belgium; vested in the Attorney General of the United States
Application July 31, 1939, Serial No. 287,630
In Belgium August 10, 1938
24 Claims. (Cl. 235—6)

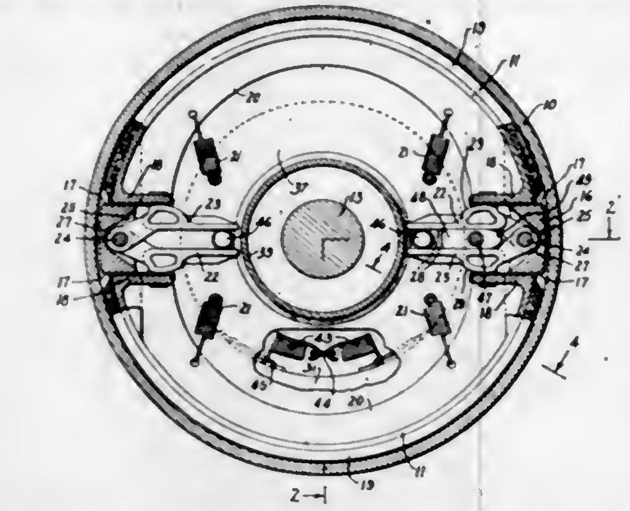


2. In a computing mechanism, the combination of a totaliser comprising a plurality of annular discs arranged side by side, an annular selector arranged adjacent said totaliser, a rotatable and axially shiftable operating member extending through all said discs and through said selector, certain of said discs having teeth on their inner peripheries, one of said toothed discs having teeth longer than those of the other discs, a lever pivotally mounted in a recess in said operating member, said lever having a projection at one end, a spring to rock said lever to withdraw said projection into said recess, said selector effective upon rotation of the operating member to rock the opposite end of said lever against the action of said spring to protrude said projection from the recess, said projection of such length as to cooperate, when in withdrawn position, with said longer teeth only, and when protruded, to cooperate with the shorter teeth of the other toothed discs singly in succession during axial shifting of said operating member.

2,422,187
BRAKE MECHANISM

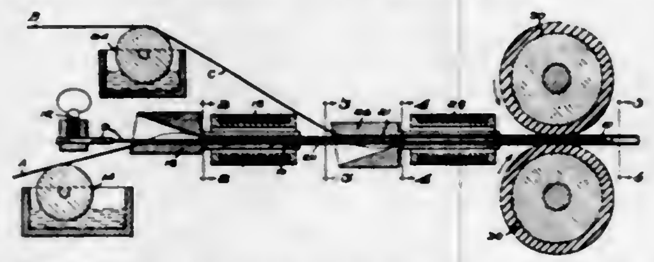
Victor R. Edgar, Rockton, Ill., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill., a corporation of Illinois
Application August 6, 1945, Serial No. 609,293
5 Claims. (Cl. 188—106)

1. A friction brake mechanism having, in combination, an annular friction element having spaced ends circumferentially separable to expand said element, a nonrotatable member including an anchor disposed between said ends for abutting engagement with the latter, two cranks pivoted on said anchor and projecting inwardly toward the axis of said element and each swingable about an axis parallel to said axis, an operator for expanding said element including a member disposed between the inner ends of said cranks and movable about said element axis in either direction away from a normal brake-released position, a rockshaft journaled in said anchor member to turn about an axis extending parallel to said first mentioned axis between said cranks and spaced between said actuating member and said pivotal axis, and a cam fast on said rockshaft between said cranks and adapted when turned to spread the cranks apart and thereby expand said element.



2,422,188
METHOD OF AND APPARATUS FOR MAKING TUBES OF PAPER AND THE LIKE

Harry T. Epstein, Brookline, Mass.
Application July 26, 1945, Serial No. 607,199
6 Claims. (Cl. 93—82)



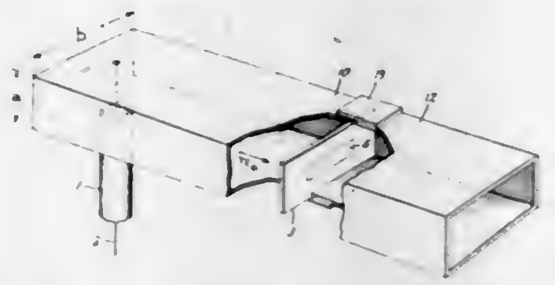
1. A method for making a tube having a plural-layered wall of flat strips of paper or like material curled transversely with straight longitudinal seams, characterized in that it includes the steps of moistening to limpness a first strip whose width equals the circumference of the inmost layer of the tube wall that is to be made, and, while that strip is limp, curling it to tubular form with its edges mutually overlapping; drying it so; then expanding that form until the edges abut each other; then curling a second strip around the first and applying it thereto with an adhesive substance intervening, this second strip covering the abutting edges of the first strip.

3. Apparatus for making a tube having a plural-layered wall of flat strips of paper or like material curled transversely with straight longitudinal seams, comprising in combination a mandrel having a region with cross section equalling that which the interior surface of the finished tube is to have, and have a stem region of less diameter; means for drawing the finished tube and its component materials along the mandrel from the region of less diameter during the making of the tube; means adjacent to the stem region for moistening to limpness a flat strip of stock having width equalling the circumference of the inmost layer of the tube which is to be made and finished; means, in the said region of less diameter, for curling that strip to more than 360° while it is limp, and for drying this strip thus curled; the mandrel's region of finish diameter being subsequent in the direction of draft, with adjacent means for curling and applying an adhesive second strip of stock with its edges mutually abutting at a peripheral distance from the edges of the first strip.

2,422,189

DIELECTRIC WAVE GUIDE SYSTEM

Milan D. Fiske, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 22, 1944, Serial No. 519,267
5 Claims. (Cl. 178—44)

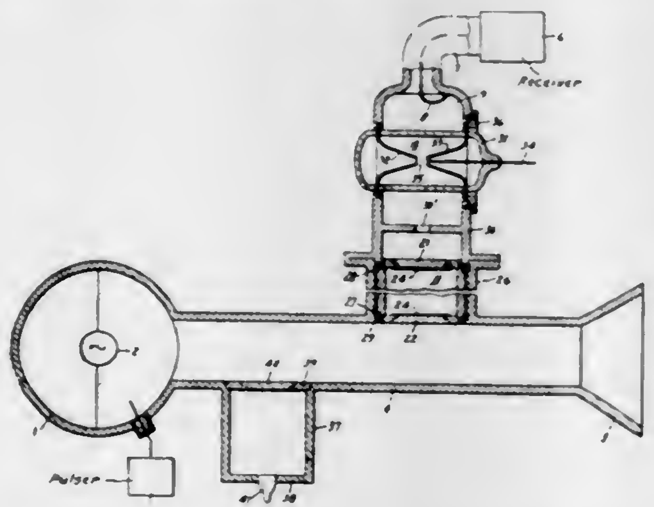


1. A combination, a dielectric wave guide of the hollow-pipe type and comprising a pair of adjacent sections having differential pressures therein, exciting means for establishing electromagnetic waves within said guide, and means for transmitting said waves between said sections substantially without reflection, said means comprising a metallic wall associated with said guide and lying between said sections within a plane substantially transverse to the direction of wave propagation through said guide, said wall being provided with an aperture having an appreciable dimension perpendicular to the electric component of field incident to the propagation of waves through said guide, and vitreous means sealed across said aperture and substantially coplanar with said wall, said aperture and said vitreous means being tuned to the frequency of said exciting means and having substantially zero phase extension along said guide.

2,422,190

ULTRA HIGH FREQUENCY COUPLING DEVICE AND SYSTEM

Milan D. Fiske, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 30, 1945, Serial No. 602,471
7 Claims. (Cl. 250—13)

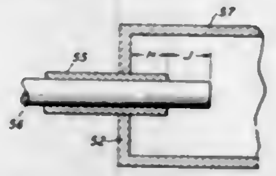


1. In combination, a metallic wave guide of the hollow pipe type for transmitting an ultra high frequency wave therethrough, a transmission cell disposed within said wave guide comprising a pair of transverse metallic walls, said walls being provided with apertures having an appreciable dimension perpendicular to the electric component of the field incident to the propagation of waves to said guide, and vitreous means sealed across said apertures and substantially coplanar with said walls, said apertures and said vitreous means being tuned to the frequency of said wave and having substantially zero phase extension along said guide.

2,422,191

IMPEDANCE TRANSFORMER FOR WAVE GUIDES

Arthur Gardner Fox, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application July 30, 1942, Serial No. 452,851. Divided and this application August 25, 1945, Serial No. 612,681
13 Claims. (Cl. 178—44)



1. In combination, a wave guide comprising an air-filled sheath, a second wave guide of different characteristic impedance comprising a second sheath and a solid dielectric core, an end plate having an aperture electrically connecting said sheaths, an end portion of said core extending through said aperture into said air-filled sheath, and a metallic annulus connected to the junction between said end plate and said second sheath, the length of said end portion of core and a dimension of said annulus being chosen to provide an impedance match at the junction of said guides.

2,422,192

SELENIUM RECTIFIER DISC

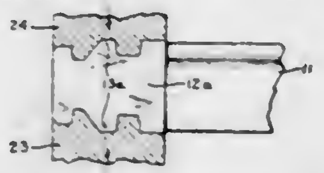
Stanley S. Fry, North Chicago, Ill., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York
No Drawing. Application November 11, 1944, Serial No. 563,102
10 Claims. (Cl. 175—366)

1. The method of producing blocking layer devices which comprises providing a supporting electrode with a layer of gray, crystalline selenium, subjecting the surface of the selenium layer to the action of vapors formed by heating potassium thiocyanate in the presence of air to its decomposition temperature and applying a counter-electrode over the treated selenium surface.

2,422,193

METHOD OF MAKING CAST TURBINE BLADING

Floyd T. Hague, Drexel Hill, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 12, 1944, Serial No. 539,866
2 Claims. (Cl. 29—156.8)

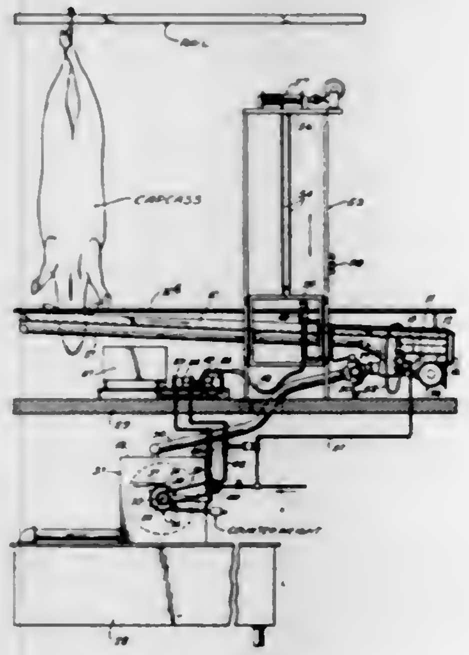


1. In the process of manufacturing blades for turbines, compressors and the like, from a high-temperature-resisting alloy which is non-forgeable but susceptible of a slight amount of plastic deformation and which process comprises forming each blade from such alloy with a root portion, which is slightly oversize and has its blade-groove-wall-engaging surfaces conforming approximately to those of its blade groove walls, by casting in a mold provided with a cavity having at least the blade portion boundary surface thereof unitary, smooth and uninterrupted by joint lines so that the cast blade portion surfaces are finished, smooth and suitable for defining fluid flow passages, heating the oversize root portion to a temperature suitable for slight plastic deformation, and plastically deforming the cast root portion to finished size and shape by application, to the blade-groove-wall-engaging surfaces thereof, of forming dies, having forming surfaces conforming to the blade-groove-wall surfaces and which differ from the cast blade-groove-wall engaging surfaces only within the narrow tolerance limits for plastic deformation of the alloy, to effect the slight amount of deformation thereof required for the cast surfaces to conform to the die surfaces to produce a root portion to suit the width of the blade groove and fit the side walls of the latter.

2,422,194

METHOD AND APPARATUS FOR COLLECTION AND TREATMENT OF BLOOD

Bertie S. Harrington, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application January 20, 1943, Serial No. 473,024
31 Claims. (Cl. 99—21)



1. An apparatus for the collection and treatment of blood, which comprises in combination, a downwardly inclined trough for continuously capturing freshly drained blood from slaughtered animals traveling along said trough, and means, including a mixing chamber, cooperatively associated with one end of said trough whereby said blood is collected and intimately mixed with an anti-coagulant preparatory to further treatment thereof, said trough being supported by a standard and means to cause the same to be raised and lowered to accommodate animals of varying sizes to maintain the point of drainage closely adjacent said trough to minimize splashing, foaming and loss of blood.

17. A method of collecting and treating blood, which comprises in combination, continuously collecting blood from slaughtered animals, intimately mixing said blood with an anti-coagulant, and re-routing a portion of said mixed blood to an initial point of collection and intermingling the same with freshly collected blood.

2,422,195

SYNTHESIS OF VITAMIN B_6

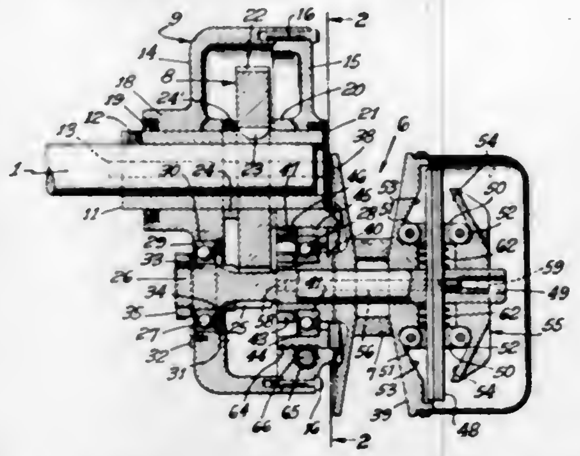
Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Original application September 1, 1939, Serial No. 293,131. Divided and this application January 24, 1942, Serial No. 428,080
8 Claims. (Cl. 260—297.5)

1. A substance selected from the class consisting of 2-methyl-3-hydroxy-4:5-epoxydimethylpyridine and hydrohalide salts thereof.

2,422,196

UNITARY VARIABLE RATIO MECHANISM

Don Heyer, Los Angeles, Calif.
Application September 29, 1943, Serial No. 504,277
16 Claims. (Cl. 74—230.17)

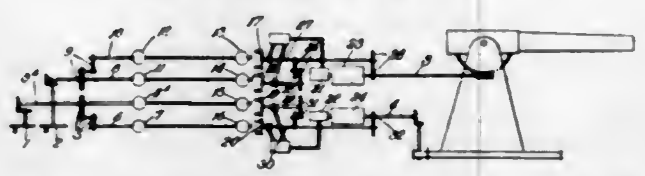


1. In a variable ratio transmission having a driving pulley and a load driving pulley with a variable center distance and operatively connected by a belt, one of said pulleys having a pair of relatively axially movable pulley sections with opposed oppositely inclined belt engaging faces forming by relative axial adjustment variable effective pulley diameters, and wherein the adjusted effective pulley diameter is a function of the center distance, means adapted to connect one of said pulleys in driving relation with a shaft, said connecting means including means responsive to variation in the torque exerted by one of said pulleys for causing adjustment of said movable pulley sections.

2,422,197

FIRE CONTROL OR LIKE APPARATUS FOR SIMILAR PURPOSES

Maurice Kerr Ingoldby, deceased, late of Tynemouth, England, by Thomas Frederick Clarke, Swanley, England, and Percy William Cole, Purley, England, executors, and Johann Hermann Abbink-Spaink, Jesmond, Newcastle-on-Tyne 2, England, assignors to Vickers-Armstrongs Limited, London, England, a British company
Application March 19, 1942, Serial No. 435,355
In Great Britain April 21, 1938
8 Claims. (Cl. 60—53)

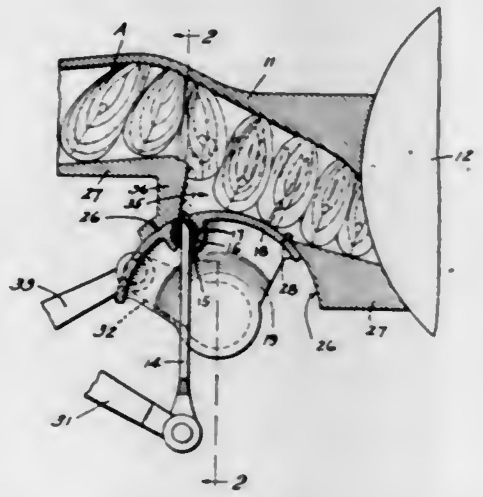


1. In gun-fire control or like apparatus for the transmisison and powêr amplification of measured displacements from a director to an object being controlled thereby, electrical remote control means responsive to movements of said

director including transmitting means operable by the director, receiving means electrically coupled to and movable in synchronism with said transmitting means, photo-electric means associated with said receiving means comprising photo-electric elements, shielding means common to said elements operable to expose one of said photo-electric elements to exciting radiation when moved in one direction and to expose another of said photo-electric elements when moved in the other direction, an electric follow-up motor associated with said photo-electric means and rotated in one direction or the other depending upon whether the one or the other of the photo-electric elements is energized, a connection between said photo-electric means and said follow-up motor to move the photo-electric means to shielded relationship, and a hydraulic pump and motor unit driven from said follow-up motor and drivably connected to the object being controlled.

2,422,198
CONVEYER FOR FISH CANNING MACHINES

John P. Jakob, Roselle, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 11, 1945, Serial No. 604,434
5 Claims. (Cl. 198—221)

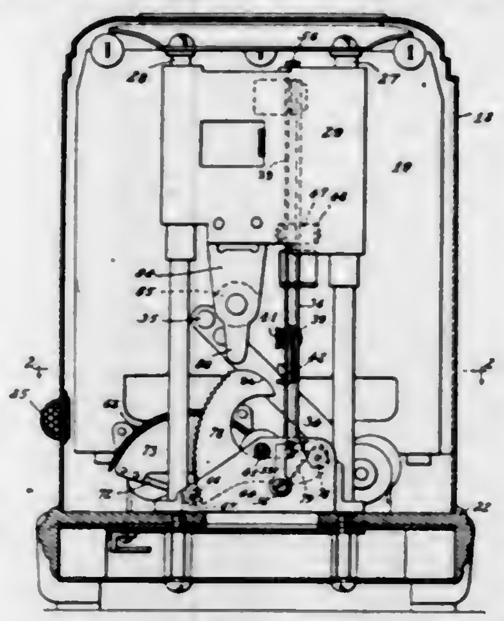


1. In a fish canning machine, the combination of a supply tunnel for fish storage, said tunnel having a recess defined at one end by an offset fish confining wall section of the tunnel to provide a clearance space adjacent the fish in the tunnel, and a paddle insertable through said recess in slidable engagement with said offset tunnel wall section into said tunnel for engaging behind individual pieces of fish therein to advance them through the tunnel.

2,422,199
TEMPERATURE RESPONSIVE CONTROL MECHANISM

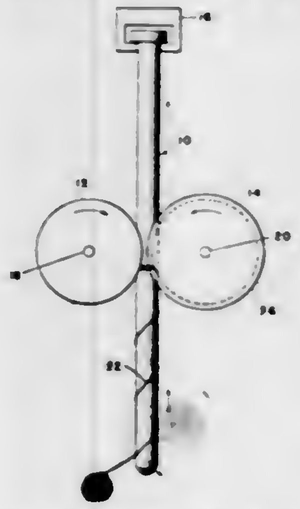
Ludvik J. Koci, Chicago, Ill., assignor to Sunbeam Corporation, a corporation of Illinois
Application June 12, 1941, Serial No. 397,772
36 Claims. (Cl. 161—1)

1. The combination in a temperature responsive control mechanism of a heating element, a temperature responsive element, means for moving one of said elements bodily between a position in which the temperature responsive element is heated by said heating element and a remote cooling position, means for releasing said bodily movable element from said positions at predetermined temperatures in response to heating and cooling of the temperature responsive element, controlled means adapted to be moved for control purposes, and means responsive to bodily movement of said element for moving said controlled means.



2,422,200
MACHINE FOR MAKING GROMMETS

William M. Lee, Kaneohe, Territory of Hawaii
Application May 22, 1945, Serial No. 595,215
4 Claims. (Cl. 57—21)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



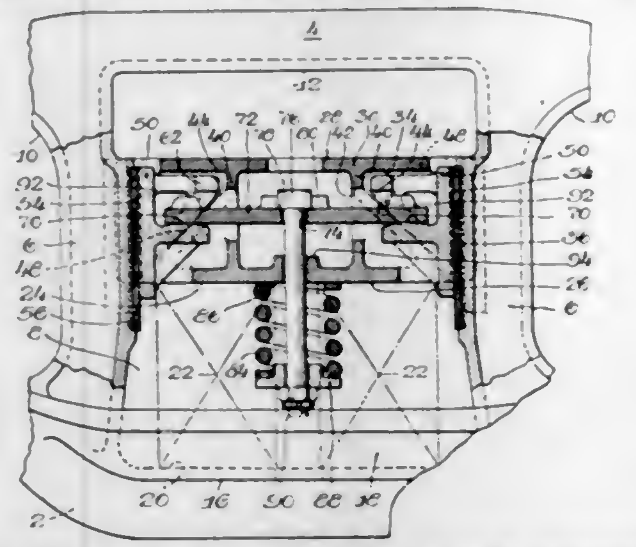
1. A grommet making machine comprising a mandrel adapted to support a length of fibrous material in an open spiral, rolls disposed adjacent the mandrel on opposite sides thereof, means for moving the mandrel longitudinally progressively to feed the spiral of fibrous material toward and between the rolls and mandrel, means for rotating the rolls in directions to cause a grommet to be rolled from said fibrous material between the surfaces of the rolls and the mandrel, and a cutting member mounted on said machine and disposed adjacent to one of said rolls, said cutting member being so mounted on said machine as to cut the fibrous material on the grommet forming stroke of the mandrel, thereby severing the completed grommet from the remaining fibrous material.

2,422,201
TRUCK

Leo A. Lehrman, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 13, 1943, Serial No. 514,033
28 Claims. (Cl. 105—197)

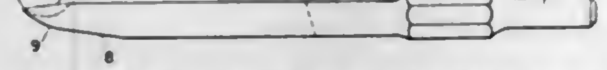
17. In a railway car truck, a side frame member, a bolster member spring-supported therefrom, a

portion of one of said members extending between spaced friction surfaces of the other member, friction shoes engaging wedge means on said portion and frictionally engaging respective surfaces, actuating means for said shoes comprising a member housed within said portion and engaged with said shoes, and resilient means carried by said portion for urging said last-mentioned member into engagement with said shoes.



2,422,202
CHISEL

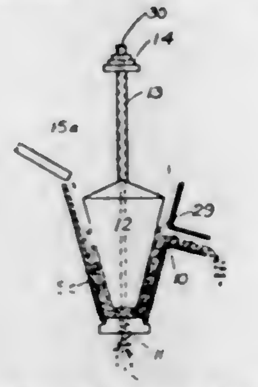
Robert W. McClure, San Diego, Calif.
Application September 4, 1945, Serial No. 614,334
4 Claims. (Cl. 30—168)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A chisel including, an elongated body having less width than thickness, a shank formed on one end of the body for mounting the same in a pneumatic hammer, and a tapered cutting tip formed on the other end of said body by curving the lower surface of the end portion upwardly, the tip having a centrally disposed groove extending longitudinally of its lower surface, the body having an elongated slot extending longitudinally thereof, the slot being of such length as to have its inner end terminate at the intermediate portion of said body and its outer end merging with the groove of said tip, the end walls of said slot being curved transversely and being upwardly and inwardly inclined.

2,422,203
SPECIFIC GRAVITY SEPARATION OF SOLIDS IN LIQUID SUSPENSION

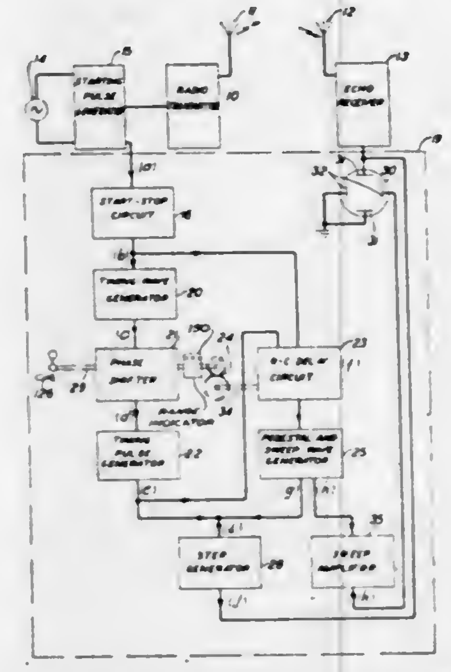
Harry L. McNeill, Denver, Colo.
Application October 12, 1942, Serial No. 461,648
26 Claims. (Cl. 241—20)



1. In the ore dressing art, in which ore is ground in closed circuit with classification, the improvement which comprises subjecting the discharge of the grinding stage to a succession of centrifugal sink and float separations at the classification stage to maintain the finished product at or near the surface, discharging finished material floated in such succession of stages directly out of the closed circuit, removing a coarse concentrate from the closed circuit as the non-floated product of one of said sink and float separations, and removing a coarse tailing from the closed circuit as the non-floated product of another of said sink and float separations.

2,422,204
RANGE INDICATOR

Larned A. Meacham, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 22, 1943, Serial No. 491,791
7 Claims. (Cl. 250—1.66)



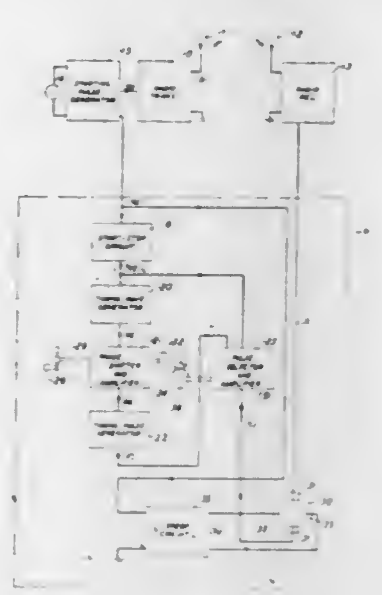
2. In an apparatus for measuring the distance to an object from a radiant energy transmitting and receiving apparatus which transmits radiant energy impulses to an object under control of recurring starting impulses and which receives echoes of the radiated impulses from the object, means for producing under control of each of said starting impulses a series of alternate positive and negative timing impulses, successive similar timing impulses being separated by a predetermined interval corresponding to the time required for a radiated impulse to be propagated to an object at a certain distance and for its echo to return, means under control of one of said timing impulses of each series for causing a succeeding timing impulse of each series of impulses to be selected, means for bringing each selected timing impulse into synchronism with the corresponding echo impulse, and means for indicating the distance to the object when said selected impulses and said received impulses are in synchronism.

2,422,205
RANGE INDICATOR

Larned A. Meacham, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 5, 1943, Serial No. 505,024
8 Claims. (Cl. 250—1.66)

1. In combination, a source of recurring pulses, an electronic device having an anode, a cathode

and a control electrode, a circuit connecting said control electrode and said cathode, means having a fixed time constant for producing and impressing upon said control electrode with respect to a point of reference potential in said circuit, an exponentially rising potential, means for applying a potential to said cathode with respect to said reference potential, means for superposing said pulses upon one of said potentials, and means for varying said cathode potential to cause a desired one of said pulses to be repeated or selected.



2,422,206

METHOD OF PREPARING COMPOSITION OF MATTER SUITABLE FOR USE AS A LUBRICANT AND AS AN ADDITION AGENT TO LUBRICANTS

John M. Musselman, South Euclid, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application July 25, 1944, Serial No. 546,566

12 Claims. (Cl. 252—46.4)

1. In a process of forming a composition of matter suitable for use as a lubricant and as an additive for mineral oils to improve their lubricating properties, in which process a phosphorus sulfide is reacted at a temperature of at least about 270° F. with an ester type wax, and in which process the amount of the phosphorus sulfide is at least about the amount required to complete the reaction that occurs at said temperature, the improvement which comprises carrying out said reaction while the reacting ingredients are diluted with at least about 10% of a mineral oil to improve the yield of the reaction product and minimize the formation of a phosphorus and oxygen-containing by-product.

2,422,207

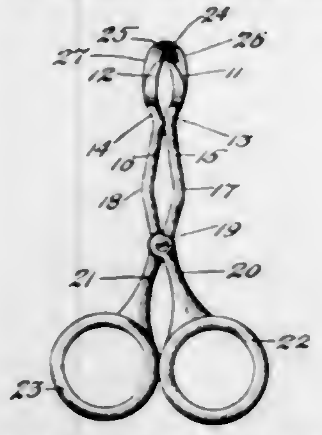
MANICURING IMPLEMENT

Rebecca Nalpantian, San Francisco, Calif.

Application May 31, 1945, Serial No. 596,893

2 Claims. (Cl. 132—75.5)

1. In a manicure instrument a pair of scissor action levers, a finger receiving ring at one end of each lever, a cuticle pushing jaw on each of the opposite ends of the levers, said jaws lying in opposed relation and being movable toward or away from one another in the same plane, a curved outer edge on each jaw to engage and push back the cuticle on the finger of the user, each jaw being relieved along its inner edge and cutting edges at the extreme outer ends of the jaws forming nippers for clipping loosened cuticle.



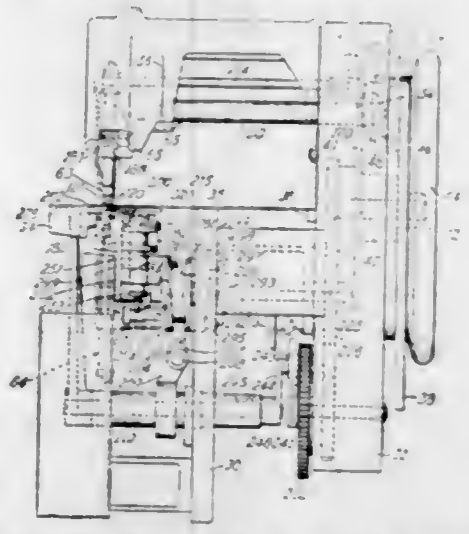
2,422,208

SEWING MECHANISM

Mathias Pedersen, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey

Application May 21, 1943, Serial No. 487,850

9 Claims. (Cl. 112—171)



1. In a sewing machine of the type having opposed needle bars constructed and arranged to project a double pointed needle and a thread back and forth through material to be sewed, and a thread trap; a thread guiding and tensioning device adapted to move thread out of the path of said needle, and a stationary thread guide, means mounting said guide proximate the path of said needle and between said device and said trap, said guide being constructed and arranged to coact with said device for supporting a portion of said thread clear of the needle.

2,422,209

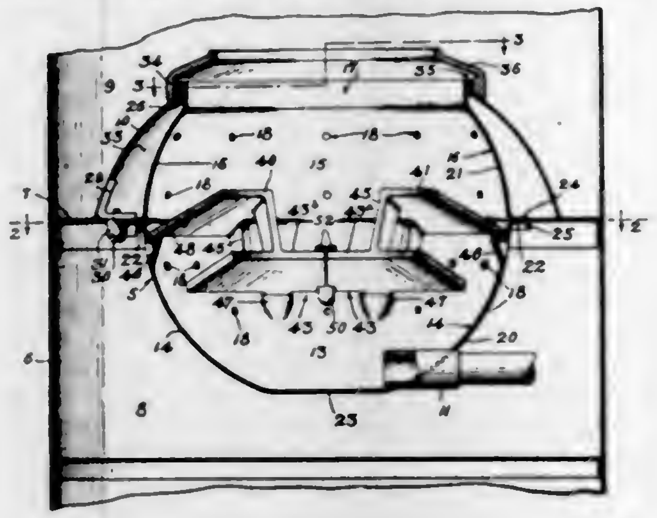
OIL BURNER

Herbert M. Reeves and Leslie F. Vixler, Kankakee, Ill., assignors to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts

Application December 6, 1943, Serial No. 513,016

10 Claims. (Cl. 158—91)

1. In a liquid fuel burner, in combination, a fuel receptacle of generally spherical contour having a central opening at the top and a plurality of air inlet ports disposed both above and below the median plane of the receptacle, means for supplying liquid fuel to said receptacle, the portion of said receptacle below said plane forming a chamber with radially diverging side walls adapted to confine the liquid fuel to a relatively small area while permitting rapid initial expansion of the same when vaporized, and a plurality of arcuate baffle plates arranged around the side walls of the receptacle, said baffle plates being inclined upwardly toward the center of the receptacle for cooperation with the walls of the receptacle in the mixing of the vaporized fuel and air.



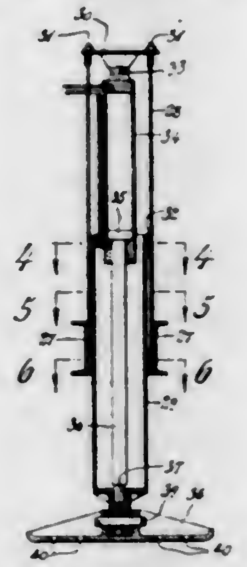
2,422,210

LEVELING DEVICE FOR CABLE-TOOL DRILLS

Karl E. Reischl, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application January 1, 1945, Serial No. 570,976

4 Claims. (Cl. 254—93)



1. In an outer casing of a telescoping strut, which strut comprises an outer casing, and an inner casing slidable within said outer casing, and means to force the two casings apart to increase the effective length of the strut, the combination of: a hollow body of polygonal cross-section; and at least one hollow cylindrical ring within the body, with its axis lengthwise of the body; the body having, in the center of at least one side, a hole registering with the ring; the ring being welded to the body through said hole.

2,422,211

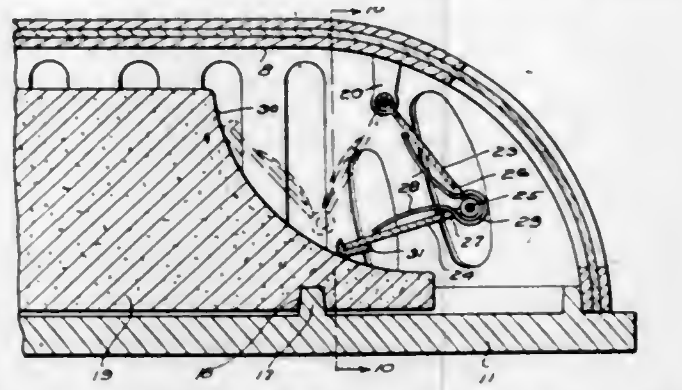
HOTBOX SIGNAL

John P. Reynolds, Albuquerque, N. M.

Application June 15, 1944, Serial No. 540,497

6 Claims. (Cl. 246—169)

4. In a signal arrangement for indicating the overheating of journal boxes of railroad cars, a flare signal producing device comprising a perforated casing arranged near the journal box, a block of inflammable material for producing the flare signal enclosed within said casing, a spring pressed mechanism and a fusible member for locking said mechanism under tension in a cocked position, said rigid member being made of a material losing cohesion and releasing the spring pressed mechanism at a predetermined temperature, an igniter carried by said spring pressed mechanism, said mechanism comprising members for rapidly moving the igniter along the block of inflammable material and in frictional contact with the same when released and moving under spring pressure, said igniter being adapted to kindle the said inflammable block when so moved to produce the flame of the flare signal passing through the outside through the perforations of the casing.



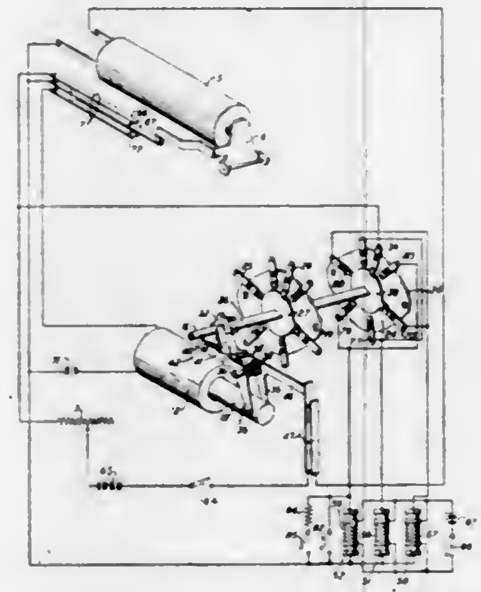
2,422,212

ADJUSTABLE STEP-BY-STEP MOTOR

Oscar A. Shann, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 2, 1943, Serial No. 504,687

7 Claims. (Cl. 172—240)



1. The combination of a step-by-step mechanism with elements having a negative temperature coefficient of resistance to current therethrough, a source of current therefor and means for stepping said mechanism at intervals under control of current from said source when increased through said elements as effected by said resistance characteristics.

2,422,213

COMBUSTION CHAMBER

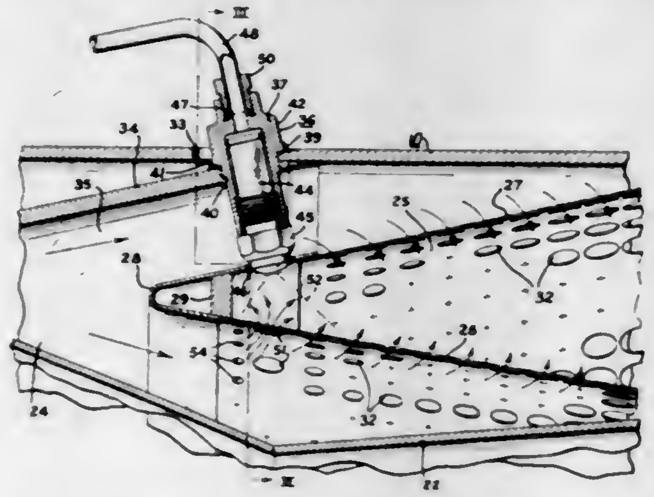
Keith V. Smith, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 9, 1944, Serial No. 539,498

3 Claims. (Cl. 263—19)

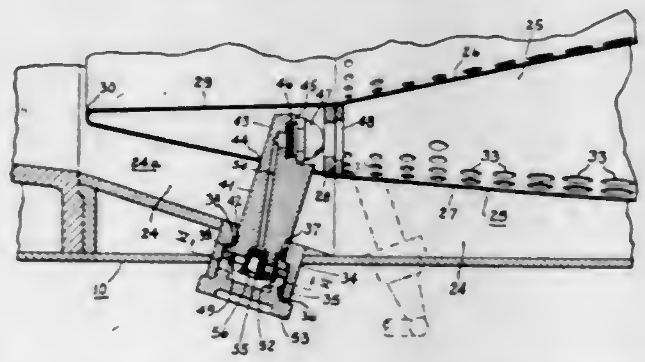
1. In a gas turbine power plant wherein an outer casing supports an inner casing and has

secured thereto and inwardly thereof an intermediate conical casing, said inner casing having a portion coaxial with the conical casing and which is oppositely coned with respect to the latter and cooperates therewith to provide a diffuser for air received at high velocity; means including oppositely-coned inner and outer foraminous wall elements connected by an apical junction portion extending reentrantly into the diffuser and defining a combustion chamber which is coaxial with the diffuser and which diverges away from the latter; means for supplying atomized fuel to the apical portion of the combustion chamber including a plurality of atomizers each of which extends through aligned openings formed in the outer casing, the intermediate conical casing, and the outer conical wall element so as to be accessible externally of the outer casing and to discharge atomized fuel into the combustion chamber; and means for detachably connecting and disconnecting each atomizer to the intermediate conical casing; the outer casing openings for the atomizers being larger than the latter to provide for connection and disconnection thereof by effort applied externally of the outer casing.



2,422,214
FUEL INJECTOR MOUNTING FOR COMBUSTION CHAMBERS

Charles A. Meyer, Drexel Hill, and Arnold H. Redding, Swarthmore, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1944, Serial No. 549,934
3 Claims. (Cl. 60—44)



1. In a gas turbine power plant comprising an outer casing, an inner casing cooperating with the outer casing to provide an annular flow passage, a structure including perforated wall elements defining a divergent combustion chamber of annular section within said flow passage and with the apical portion of said chamber extending upstream of the passage, said outer casing and said structure each having one or more openings therein and the opening or openings of said structure being at the apical portion of the combustion chamber, each opening of the outer casing and a corresponding opening of said structure constituting a pair of openings centered in a common axial plane of the outer casing, a fuel nozzle for each pair of openings and having an atomizing portion at one end, said nozzle being constructed and arranged to move relatively to the opening of said structure and through the opening of said outer casing incident to removal thereof and attachment thereof to the outer casing, and means for detachably connecting the outer casing structure and each fuel nozzle so that the latter may extend through the outer casing opening for discharge of an atomized spray of fuel through the opening of said structure into the apical portion of the combustion chamber, the axis of each outer casing opening extending inwardly toward the associated opening of the structure with a component of direction which is axial and downstream with respect to the plant.

2,422,215
METHOD OF VITREOUS COATING REFRACTORY MATERIAL

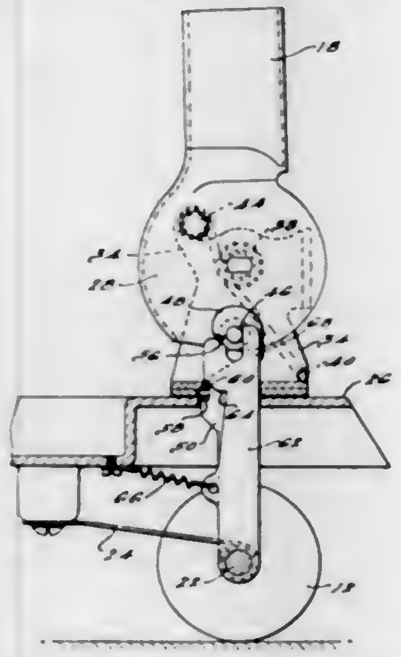
Charles R. Amberg, Alfred, N. Y., and Harold C. Harrison, Portland, Oreg., assignors to The Exolon Company, Blasdell, N. Y., a corporation of Massachusetts
No Drawing. Application May 12, 1942, Serial No. 442,599½
9 Claims. (Cl. 117—54)

1. The method of producing a ceramic coating on a difficultly wettable refractory material of the group consisting of graphite, silicon carbide, fused alumina and mixtures thereof, which comprises fusing on the surfaces of grains of said difficultly wettable material, a silicate melt capable of forming a ceramic coating on said grains, and said silicate melt having dissolved therein during said fusion a small proportion of a wetting agent to reduce the surface tension of said melt with respect to said grains of difficultly wettable material, said wetting agent being a member of the group consisting of molybdenum, tungsten, uranium and vanadium and their compounds.

2,422,216
HANDLE LOCK FOR SUCTION CLEANERS

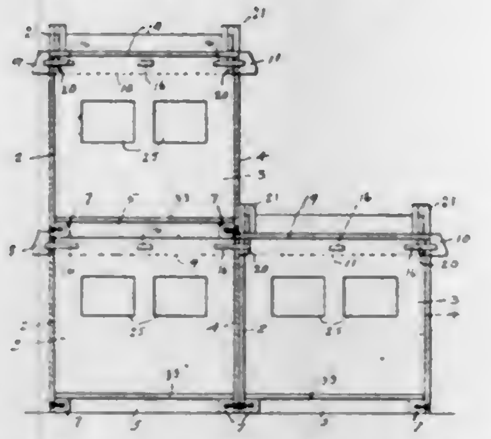
Edwin J. Balluff, Detroit, Mich., assignor to Eureka Williams Corporation, a corporation of Michigan
Application September 25, 1944, Serial No. 555,606
11 Claims. (Cl. 306—13)

1. In a suction cleaner, a body having a bracket, a handle pivoted on said bracket, a wheel, means including a spring forming a movable mounting for said wheel on said body which provides for relative movement between said wheel and body and which is arranged to bias said body to the limit of its movement away from said wheel when the cleaner is supported on the floor by said wheel, a locking element on said handle, a locking member connected with said mounting so as to be movable therewith relative to said body, said locking member being engageable with said handle locking element for locking said handle against pivoting movement on said bracket, said body having a stop with which said locking member is engageable to limit movement of said body toward said wheel, a second locking member connected with said mounting and movable therewith relative to said body, said second locking member being engageable with a part on said body for locking said body against movement away from said mounting when said stop is engaged with said first-mentioned locking member, said second locking member being arranged relative to said first-mentioned locking member so as to be disengaged from said part when said first-mentioned locking member is engaged with said handle locking element.



2,422,217
KNOCKDOWN TOY HOUSE

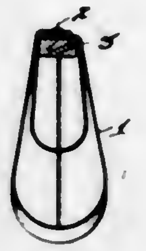
Mary F. Barnes, Honolulu, Territory of Hawaii
Application December 24, 1942, Serial No. 469,993
8 Claims. (Cl. 46—19)



1. A knockdown toy building comprising a pair of rectangular room units each comprising four, vertical lateral walls of sheet material; said pair of units being in side by side relation with one of the walls of each unit being in substantially opposed engaging relation; a centrally open frame having elongated side members extending in external wall engaging relation around both of said units along the upper edges of the walls thereof other than the said pair of opposed walls thereby securing said units together, said frame comprising a plurality of elongated frame members each secured to the wall adjacent thereto, means at the adjacent ends of each adjacent pair of said members for detachably securing them together; and a frame within the area enclosed by the four walls of each unit adjacent the lower ends of such walls securing the said lower ends of each unit in assembled relation; said last mentioned frame comprising an elongated strip extending horizontally along the lower end of the wall of each unit and carried by each of such walls; and means at the adjacent ends of the adjacent pairs of the said strips in each unit for detachably securing the said adjacent pairs together.

2,422,218
GOLF CLUB BAG

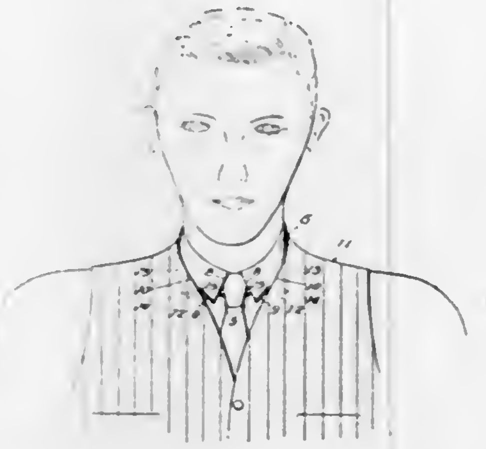
Irwin O. Bauer, Cincinnati, Ohio
Application November 1, 1944, Serial No. 561,377
1 Claim. (Cl. 150—1.5)



A golf club carrying bag, comprising: a ply material and a stay bar of bag length, the ply material being coiled longitudinally in double loop fold, one fold within the other, the outer fold forming the body of the bag and the inner fold being to compartment the interior of the bag body, the longitudinal ends of the folds being lapped over the stay bar and attached thereto to seam the fold ends together and to stabilize the bag body, the layers formed by the outer fold of the material at one end of the bag body being seamed together for the bottom closure of the bag and a strap looped to provide for either manual hand or shoulder carriage of the bag and fixed to the stay bar exterior of the bag.

2,422,219
SHIRT COLLAR

George H. Boyd, Sr., Washington, D. C.
Application May 15, 1945, Serial No. 593,809
1 Claim. (Cl. 2—131)

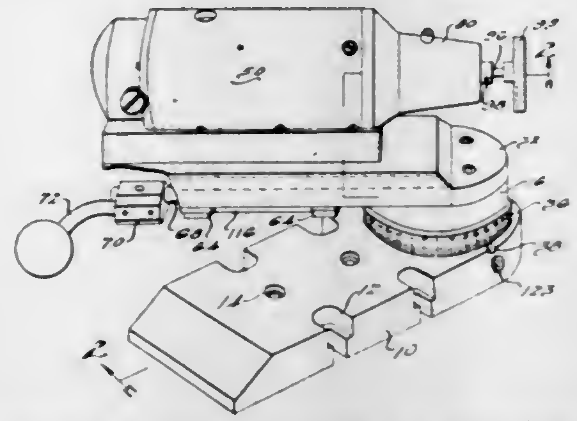


A shirt collar comprising an inner fold constituting a neckband, and an outer fold turned downwardly from said inner fold, said outer fold having front edges to occupy positions adjacent the wearer's necktie knot, said front edges being disposed upright in downwardly diverging relation when the collar is in use, lower edges extending rearwardly and upwardly from the lower ends of said front edges and of a length to extend substantially to the inner edges of the wearer's vest or coat, whereby an acute angled wing is formed between said front and lower edges, additional front edges extending laterally and downwardly from the outer ends of said lower edges and of a length to extend under said inner edges of the vest or coat, and a major lower edge extending from the lower end of one of said additional front edges to the lower end of the other of said additional front edges.

2,422,220

DIAMOND WHEEL DRESSER

Emil Brocker, Van Dyke, Mich., assignor to Super Tool Company, Warren Township, Macomb County, Mich., a partnership
Application February 3, 1944, Serial No. 520,914
1 Claim. (Cl. 51—34)

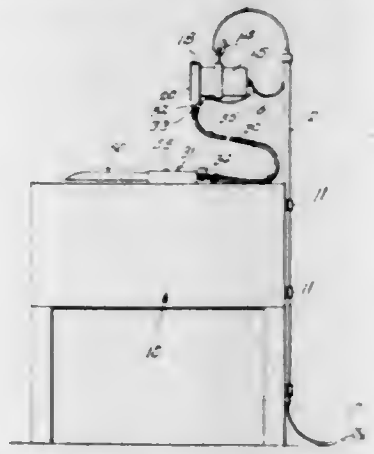


A dressing device including, in combination, a motor, a support for said motor, a platform on the top of which said support is movable, means on the underside of said platform for moving said support, a spring for returning said platform to its initial position, a base, a pivot joining said base and platform forwardly of said motor, a shaft mounted forwardly of said motor and supported thereby, and a universal connector joining said shaft to said motor.

2,422,221

POWER-DRIVEN RECIPROCATING CUTTER

Authnal L. Candland, Vista, Calif.
Application May 8, 1945, Serial No. 592,633
6 Claims. (Cl. 30—272)



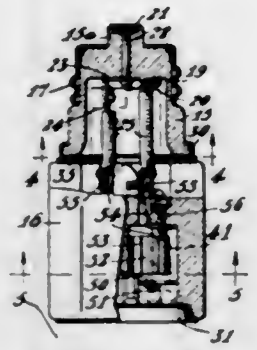
1. A power driven cutting tool including a hollow handle of square cross section, upper and lower guide channels in said handle disposed to one side of the vertical, longtudinal median plane of said handle, a block slidably supported in said guide channels, a cutting blade, means detachably securing said blade to one side of said block, said handle having a slot at one end thereof, said blade being reciprocable through said slot, a flexible reciprocable cable extending into the other end of said handle and pivotal means connecting said cable to said block.

2,422,222

ELECTRIC BIPOST LAMP ADAPTOR

Thomas E. Carroll, New York, N. Y.
Application June 14, 1944, Serial No. 540,359
3 Claims. (Cl. 173—344)

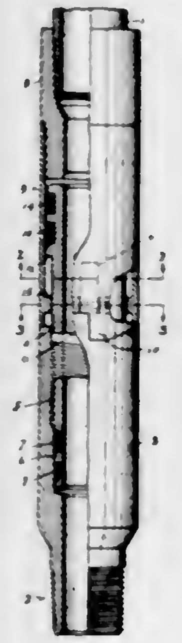
2. An adaptor unit for connecting a bi-post lamp to a screw shell receptacle, comprising an insulating body piece having metallic screw plug connecting structure thereon adapted to be screwed into said receptacle, another insulating body piece having a bayonet type socket structure embodied therein for receiving the bi-post lamp, said socket structure having clamping contact clips for engagement with the sides of the contact posts of said lamp when inserted therein and bayonet type slotted members for receiving and engaging said posts and locking the lamp in the adaptor when it is inserted therein and turned to cause engagement of the lamp posts in said slotted spring members, means comprising metal rings respectively engaging said body pieces for clamping the pieces together to form a unitary structure, and conductors passing through said body pieces for connecting said screw plug structure with said contact springs.



2,422,223

SAFETY JOINT

Walter L. Church, Houston, Tex.
Application March 9, 1944, Serial No. 525,731
1 Claim. (Cl. 285—146)

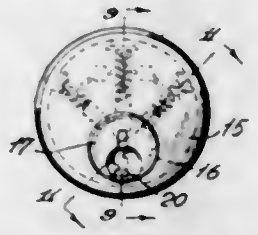


A safety joint comprising two coupling members screwed together, a tubular connecting connecting member adapted to be connected to an operating string and having an inside, annular, rib provided with a vertical keyway, a longitudinal key on one of the coupling members slidable in the keyway, a clutch between the connecting member and the other coupling member arranged to be engaged and disengaged by movements of the connecting member and a frangible pin through said coupling member and key, accessible for installation externally of the safety joint and normally holding said clutch engaged.

2,422,224

LOCK LUBRICATOR

John A. Connell, Carlsbad, N. Mex.
Original application July 29, 1944, Serial No. 547,180. Divided and this application July 13, 1945, Serial No. 604,833
5 Claims. (Cl. 70—464)

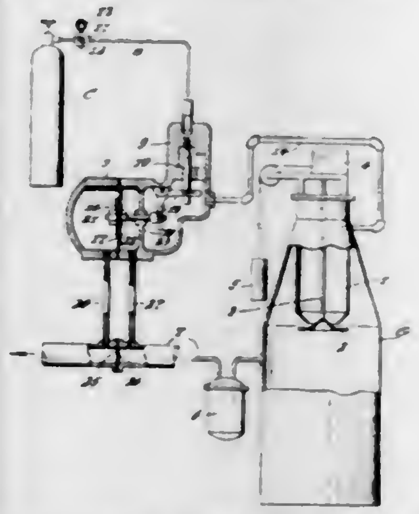


1. In a pin tumbler lock of the type having a stationary case provided with at least one series of holes containing reciprocating drivers, and a rotatable core having a set of reciprocating pins adapted to register with said series of holes, the improvement comprising a lubricant chamber positioned in the case, communicating with said holes and containing a solid lubricating powder whereby reciprocation of the drivers will cause movement of the lubricant from the chamber to said holes.

2,422,225

APPARATUS FOR RAISING THE DISASSOCIATION PRESSURE OF ACETYLENE IN GENERATORS

John J. Crowe, Westfield, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application January 1, 1945, Serial No. 571,000
8 Claims. (Cl. 48—38)



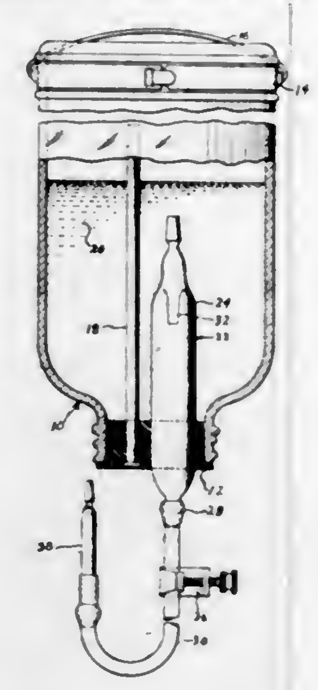
2. The combination with an acetylene generator and the means by which acetylene is generated therein, of a source of gas capable when mixed with the acetylene in the generator of reducing the explosion hazard as by raising the disassociation pressure of the acetylene, and means in addition to the means for generating acetylene in said generator for automatically admitting gas from said source to the generator during periods which coincide approximately with the periods when there is an acetylene demand on the generator.

2,422,226

DISPENSING APPARATUS

Joseph De Luca, Brooklyn, N. Y., assignor, by mesne assignments, to William R. Warner & Co., Inc., New York, N. Y., a corporation of Delaware
Application April 21, 1944, Serial No. 532,086
4 Claims. (Cl. 128—272)

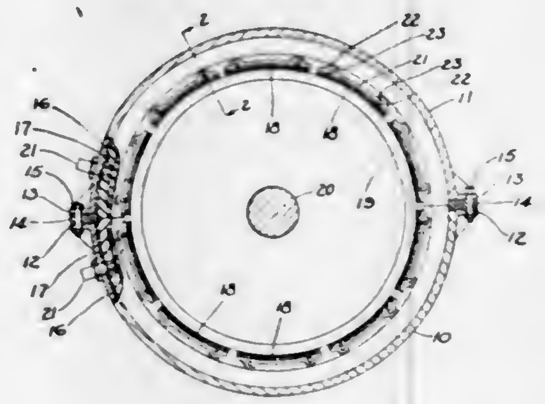
3. A portable dispensing device for administering liquid to a patient in controlled amounts comprising a transparent receptacle for the liquid to be dispensed, a transparent hollow member disposed within the receptacle and forming a chamber, a nozzle projecting into the hollow member and communicating exteriorly of the hollow member with the said liquid, a closure for the receptacle, and an air vent tube carried by the closure and extending above the liquid in the receptacle.



2,422,227

ASSEMBLY FOR BRAKES AND CLUTCHES

Thomas L. Fawick, Akron, Ohio
Application October 12, 1944, Serial No. 558,377
6 Claims. (Cl. 188—152)



1. An assembly for use as a brake or the like, said assembly comprising inner and outer relatively rotary structures, the outer structure comprising a plurality of arcuate housing sections, means for securing them together in radially spaced relation to the inner structure, a plurality of arcuate, inwardly-distending fluid-distensible members in the space between the two structures, means for holding said members against rotation in relation to the housing sections, and means for conducting pressure fluid into said members for effecting frictional engagement of the two said structures.

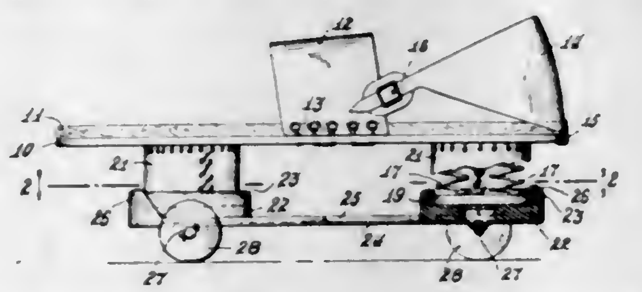
2,422,228

COMBINED SKATE AND SANDAL

Bernard Ferrar, Los Angeles, Calif.
Application December 27, 1943, Serial No. 515,682
4 Claims. (Cl. 280—11.19)

1. A foot appliance comprising a foot rest; two spaced flexible elements depending from said

rest and each comprising four spaced compression springs and a flexible tie member positioned



centrally between them limiting the expansion of said springs.

2,422,229
MANUFACTURE OF CHLORINATED QUINONES

Harry H. Fletcher, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 13, 1944, Serial No. 544,822
5 Claims. (Cl. 260—396)

1. A method of preparing chlorinated quinones from phenolic derivatives of benzene and alpha-hydroxynaphthalene compounds which comprises chlorinating the said aromatic compound by passing a gas consisting of elemental chlorine gas into an aqueous acid solution containing said compound, the acid component of said solution consisting of a mix of sulfuric acid with a saturated fatty acid containing from one to four carbon atoms.

2,422,230
PRODUCTION OF STREPTOTHRICIN

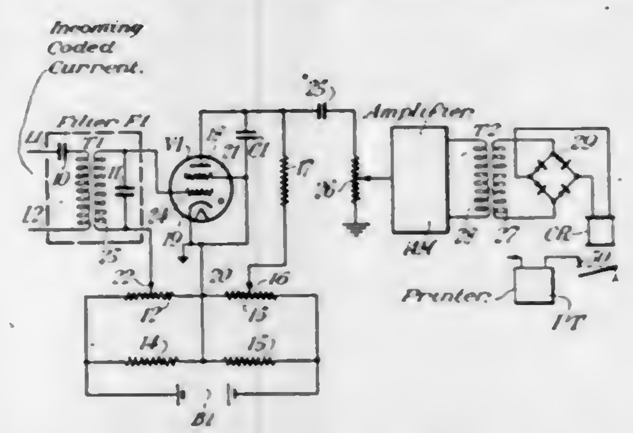
Jackson W. Foster, Rahway, and Harold Boyd Woodruff, Princeton, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application September 11, 1943, Serial No. 502,026
13 Claims. (Cl. 195—96)

1. The process for preparing streptothricin that comprises cultivating the micro-organism *Actinomyces lavendulae* under aerobic submerged conditions in an aqueous medium containing an assimilable source of carbon and energy and a complex organic mixture containing nitrogenous substances.

2,422,231
PULSE GENERATING RECEIVER FOR CODED CARRIER SIGNALS

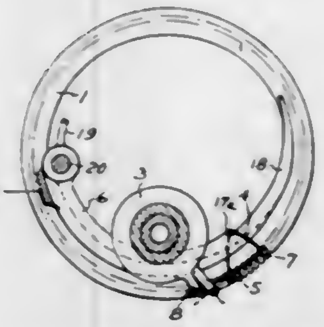
Joseph M. Francis and Allan B. Armistead, Roanoke, Va., assignors to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 6, 1944, Serial No. 566,820
8 Claims. (Cl. 178—88)

1. In combination, means to receive a coded carrier signaling current, an electron tube of the controlled ionization type, a non-inductive anode circuit including a current source and a resistor connected across an anode and cathode of said tube but normally ineffective to fire the tube, said receiving means connected to a control electrode of the tube to fire the tube in response to each positive half cycle of said carrier current, a capacitor connected across said anode and cathode to cooperate with said non-inductive anode circuit to extinguish the tube whereby oscillations coded according to the code of the carrier current are created in said anode circuit, and decoding means coupled to said anode circuit excited by said oscillations to interpret the code thus formed by the oscillations.



2,422,232
WRAPPING MECHANISM

Oscar Fregeolle, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application July 27, 1945, Serial No. 607,300
2 Claims. (Cl. 66—135)

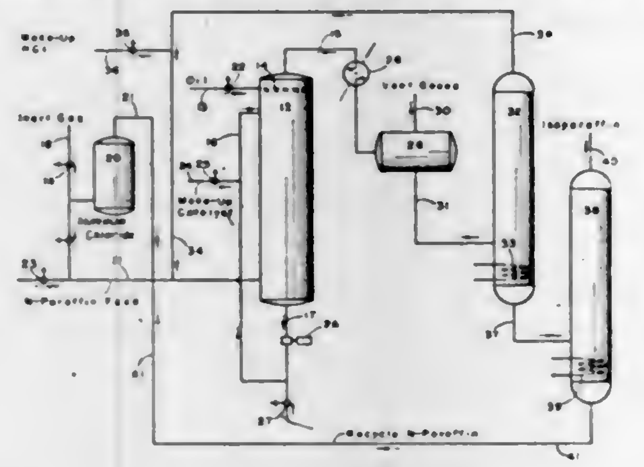


1. For a knitting machine having co-axial superposed cylinders and needles adapted to knit in either cylinder, a rigid wrap horn, adapted to be substantially horizontally positioned within the cylinders, the inner edge of which is of unbroken curvature in the direction of its tip to a point at which a needle or the leading needle of a group of needles in the lower cylinder which have been selected for wrapping are about to enter the upper cylinder, said curvature being abruptly stepped inwardly at this point and then continuing unbroken to the tip so that the strain imposed by the wrap yarn upon the leading needle selected for wrapping will be relieved when said needle is about to enter the upper cylinder.

2,422,233
ISOMERIZATION PROCESS

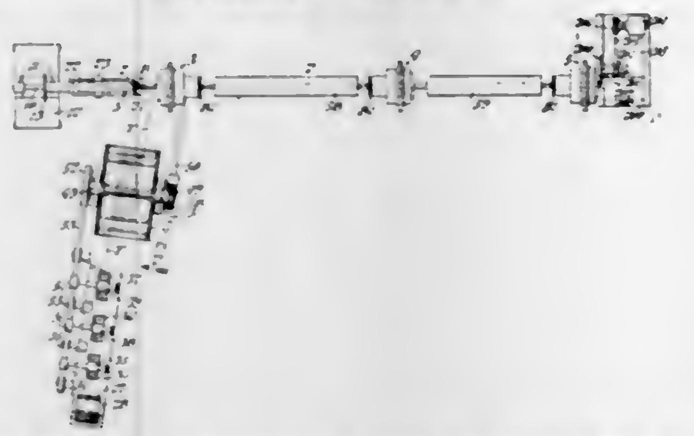
Otto Gerbes, Goose Creek, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 12, 1945, Serial No. 572,493
3 Claims. (Cl. 260—683.5)

1. A process including the steps of introducing into a reaction vessel having exposed metal surfaces a mineral oil and causing said mineral oil to form a film on metal surfaces therein, maintaining the film at a temperature within the range of 150° F. to 300° F., introducing a vaporized aluminum halide into the vessel in an excess amount over that required to react with said oil, maintaining the aluminum halide vapors in contact with said oil film until a tenacious coating of carbonaceous material is deposited on surfaces within the vessel, subsequently introducing a hydrocarbon feed stock within the reaction vessel and reacting it therein with said excess aluminum halide.



2,422,234
METHOD AND APPARATUS FOR PRODUCING TUBULAR FABRIC

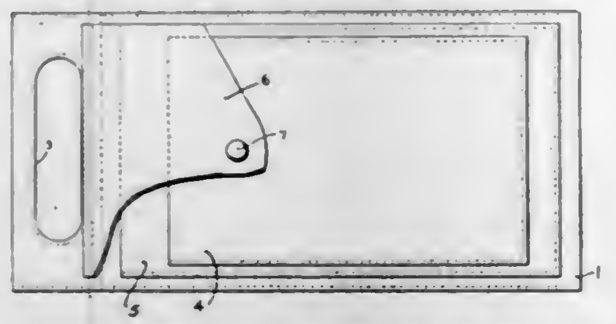
Maurice A. Goldman, New Brunswick, N. J., assignor to Fibre Products Laboratories, Inc., New Brunswick, N. J., a corporation of New Jersey
Application October 14, 1943, Serial No. 506,235
23 Claims. (Cl. 154—1)



6. In an apparatus of the type indicated, a cylindrical mandrel held against axial displacement, means for feeding textile material along the mandrel surrounding its periphery in contact therewith and extending longitudinally thereof in spaced-apart relationship, means for winding a strip of textile material around the material surrounding the mandrel with the helical coils spaced at a distance apart, and means for applying an adhesive to the strip to bond it to the textile material around which it is wound.

2,422,235
BOOK COVER AND CASE

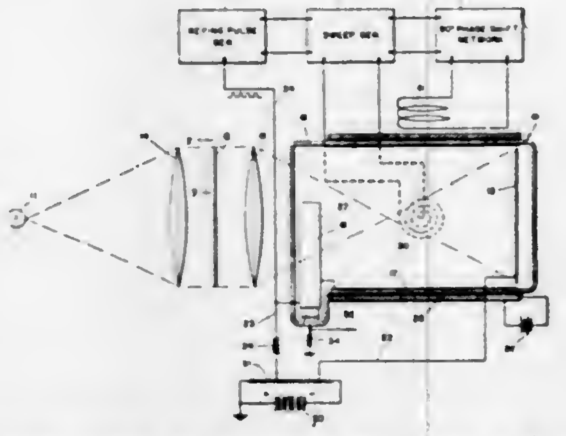
Arch C. Greene, Carrollton, Ga.
Application May 1, 1945, Serial No. 591,364
1 Claim. (Cl. 224—47)



A portfolio for an insurance collection book comprising a strip of flexible material folded to form an elongated U-shaped body, said strip comprising flap portions folded inwardly against the inner surfaces of the sides of said body and stitched along their side edges and transversely at their top portions to said sides to form receiving pockets for the covers of said collection book, said sides being provided with aligned openings adjacent their top ends to form carrying handles for the portfolio, a plurality of sections of material being secured to the external surfaces of the sides by stitching, said stitching extending along the side edges of the sections and transversely of the sections at their lower portions to form pockets, and closure flaps secured at their top edges to the external surfaces of the respective sides and overlying the open ends of the external pockets on said sides and each terminating in downwardly converging bottom edges adapted for insertion in the openings to gain access to the external pockets.

2,422,236
TELEVISION SYNCHRONIZING SIGNAL GENERATOR

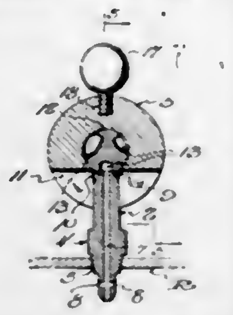
Clyde E. Hallmark, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application April 16, 1945, Serial No. 588,608
14 Claims. (Cl. 178—69.5)



1. A generator for developing cyclically recurring groups of pulses of different duration and frequency comprising a photosensitive member, means for impressing a stationary pattern representative of one cycle of said groups of pulses to be generated on said photosensitive member to develop an electric image corresponding to said pattern, and means for cyclically scanning said electric image to develop an output signal representative of said pattern.

2,422,237
PRESSURE CONTROL VALVE

Harold Hansen and Lawrence Seefeldt, Manitowoc, Wis., assignors to Aluminum Goods Manufacturing Company, Manitowoc, Wis.
Application April 21, 1945, Serial No. 589,678
6 Claims. (Cl. 137—53)

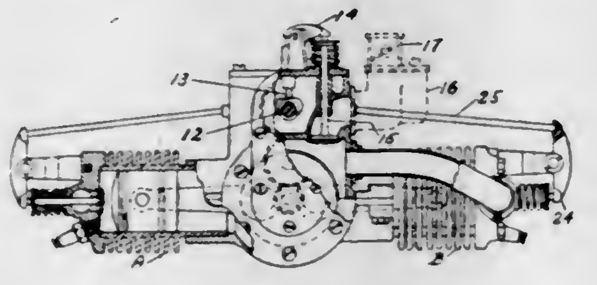


1. A pressure control valve comprising a valve stem having a vent passage extending there-

through, a valve body having a recess adapted to fit the valve stem, and a movable plug carried in the valve body, said plug being provided with surfaces of different effective areas and being movable to present said different surfaces in the base of said recess, said surfaces being formed to engage the valve stem and make a seal therewith, said valve body being movable upon the valve stem under excess pressure to release said seal at pressures proportional to said areas.

2,422,238
INTERNAL-COMBUSTION ENGINE

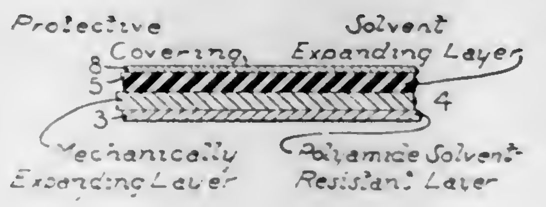
Herbert H. Harmon, Rochester, N. Y.
Application November 10, 1945, Serial No. 627,923
12 Claims. (Cl. 123—56)



3. In an internal combustion engine of the four-cycle type, two cylinders oppositely disposed on the opposite sides of an inclosed crank case compartment, a crank shaft extending through said crank case compartment having cranks oppositely disposed and connected respectively to pistons within said cylinders, intake and exhaust valves associated with each of said cylinders and operated by said crank shaft in accordance with the four-stroke principle to provide a power stroke for each revolution of said crank shaft, said cylinders being provided with suitable ignition means, an intake valve for said crank case compartment connected to a conventional carburator, and manifold ducts leading from said crank to the intake valves of said cylinders, whereby a gas mixture charge is taken in by said crank gas compartment during that portion of each revolution of said crank shaft that said pistons move outwardly, and transferred to that cylinder during the remainder of the revolution of the crank shaft while the pistons move inwardly which is then performing its intake function, whereby said cylinders are alternately supercharged with a gas mixture above atmospheric pressure.

2,422,239
FUEL CONTAINER

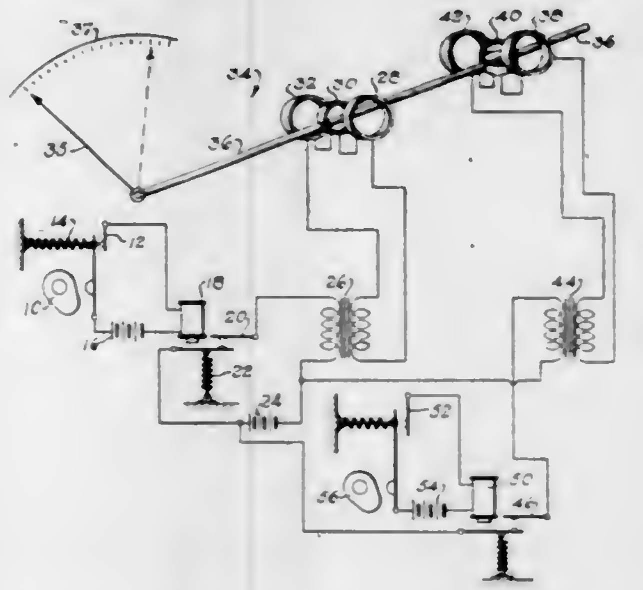
Harold S. Holt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 22, 1942, Serial No. 427,837
1 Claim. (Cl. 154—43.5)


Protective Covering
Solvent Expanding Layer
8
5
4
3
Mechanically Expanding Layer
Polyamide Solvent-Resistant Layer

A self-sealing container which comprises a plurality of adherent laminae, said laminae comprising a layer which forms the inner walls of said container and which comprises a high molecular weight rubbery polyester-amide, a layer comprising vulcanized rubber capable of swelling under the action of hydrocarbon solvent, and a layer of expansible material comprising plasticized neoprene which is positioned intermediate said first two mentioned layers and which is adapted to close perforations formed through said layer of expansible material, said polyester-amide being the high molecular weight tough and rubber-like reaction product of an hexamethylene diisocyanate with the lower molecular weight polyester-amide comprising the reaction product of adipic acid, ethylene glycol, and hexamethylene diammonium adipate.

2,422,240
ELECTRICAL RATIO INDICATING INSTRUMENT

Herman D. Jackes, Bloomfield, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application June 23, 1943, Serial No. 492,192
5 Claims. (Cl. 171—95)

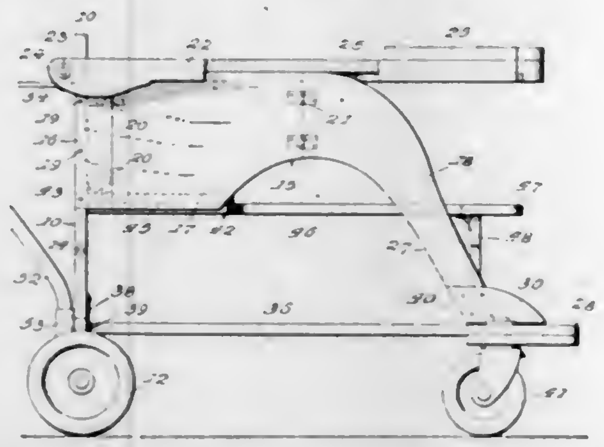


1. An indicating system comprising an armature shaft, a pair of coils rotatable with said shaft, a common source of electric energy for said coils, means operable to supply electric current to one of said coils in a series of current impulses, means operable to vary the frequency of said current impulses in response to changes in a condition, means operable to supply electric current to the other of said coils in a series of current impulses, means operable to vary the frequency of the current impulses to said other coil in response to changes in a second condition, means cooperating with each coil to subject said coils to opposed shaft-rotating torques in response to the current flow through the coils, and means operable to vary the magnitude of the current impulses to one of said coils in response to changes in a third condition.

2,422,241
FOLDABLE BABY CAR

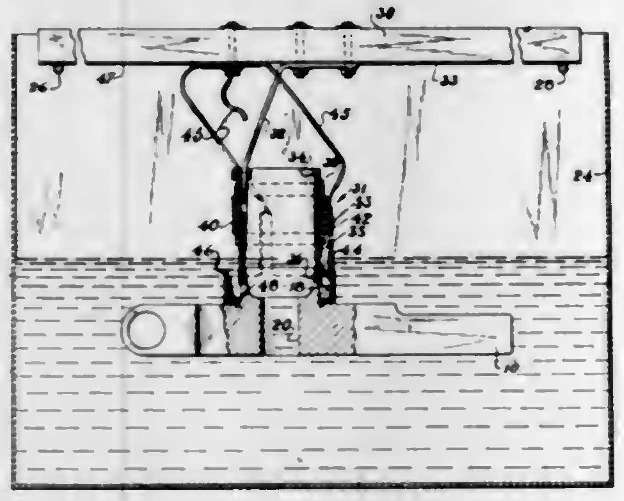
Clarence V. Johnson, Yates Center, Kans.
Application March 5, 1946, Serial No. 652,010
11 Claims. (Cl. 155—22)

1. In a foldable baby car, a back, two foldable sides extending forwardly from said back and hinged thereto on vertical axes to fold in front of said back, a foldably mounted seat between said sides, and two tray-carrying arms pivoted to said back, the lower edges of said arms having means removably engaging the upper edges of said sides to prevent accidental folding thereof.



2,422,242
ELECTROPLATING FIXTURE

Morton Kaufman, Brooklyn, N. Y., assignor to Wright Aeronautical Corporation, a corporation of New York
Application July 16, 1943, Serial No. 495,004
8 Claims. (Cl. 204—286)

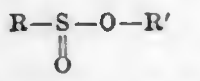


1. An electroplating fixture for plating a circumscribing band-like area on the surface of an object disposed in a suitable electrolyte, said fixture comprising tubular shield means adapted to embrace said object adjacent to one edge of said band-like area, a tubular anode member supported from said shield means and arranged to be disposed in said electrolyte so as to surround said band-like area in spaced relation thereto, shield means embracing the surface of said anode member remote from said band-like area, said shield means having a portion extending inwardly from one edge of said anode member and terminating adjacent to the other edge of said band-like area.

2,422,243
LUBRICATING COMPOSITION

Amos T. Knutson and Eldon F. Graves, Midland, Mich., assignors to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application January 27, 1944, Serial No. 519,912
4 Claims. (Cl. 252—48.2)

2. A lubricating composition comprising a major proportion of mineral lubricating oil and an amount sufficient to impart extreme pressure properties of a compound represented by the formula:

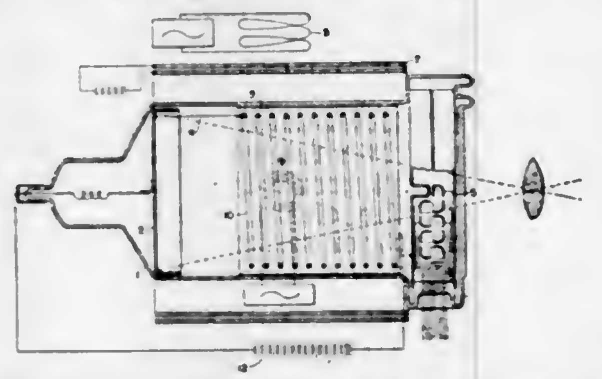


$$R-\underset{\underset{O}{\|}}{S}-O-R'$$

where R is an aliphatic substituted aromatic radicle, and R′ is selected from the class consisting of hydrogen, organic radicles, and basic radicles.

2,422,244
DISSECTOR TUBE

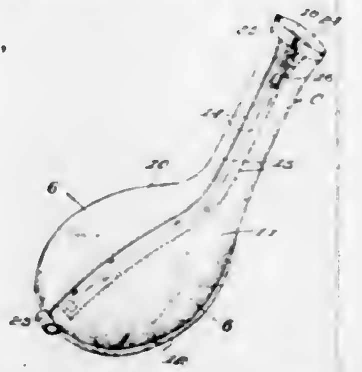
Chris C. Larson, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application September 19, 1942, Serial No. 458,929
3 Claims. (Cl. 250—165)



1. An image tube comprising an envelope having at one end thereof a photoelectric cathode adapted to receive an optical image and at the other end thereof electron collecting means for receiving electrons from said cathode, an accelerating electrode surrounding the electron discharge path between said cathode and said electron collecting system, and an openwork ion collecting electrode substantially co-extensive and coaxial with and adjacent said accelerating electrode and connected to said cathode for collecting ions present in said discharge space.

2,422,245
GOLF CLUB COVER

Goldie Frances Lauretti, Carlisle, Pa.
Application May 24, 1945, Serial No. 595,570
2 Claims. (Cl. 150—52)



1. A cover for golf clubs comprising a relatively large body portion and a restricted substantially tubular neck portion extending therefrom and in obtuse angular relation thereto, the cover comprising opposed faces respectively formed from a single blank of material and a pair of blanks of material, the blanks all being stitched together at the juncture of the opposed faces, the pair of blanks having spaced opposed edges providing an opening extending from the free end of the neck portion to a point adjacent the free end of the body portion, fastener tapes secured to said opposed edges and having cooperating fasteners for releasably closing the opening and said opposed edges of the pair of blanks being formed with

opposed reentrant angles, which angles, when the opening is closed by the cooperating fasteners, provide the angular relationship between the neck and body portions of the cover.

2,422,246
CARBOXYLIC ACIDS VICINALLY SUBSTITUTED WITH TWO MERCAPTO GROUPS

Wilbur Arthur Lazier, Wilmington, Albert A. Pavlic, Claymont, and William Jennings Peppel, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 16, 1944, Serial No. 522,620
3 Claims. (Cl. 260—526)

1. An aliphatic monocarboxylic acid of the formula

$$(HS)_2RCO_2H$$

wherein R is a trivalent, saturated, straight chain, aliphatic hydrocarbon radical of 2 to 10 carbon atoms, the carboxyl group is attached to a terminal carbon of the chain, one —SH group is attached to the other terminal carbon of the chain and the second —SH group is attached to the carbon contiguous to the terminal carbon bearing the SH group.

2,422,247
LUBRICANTS, ETC., CONTAINING WAXY HYDROCARBONS AND A KETONE-AROMATIC CONDENSATION PRODUCT AS WAX MODIFIER

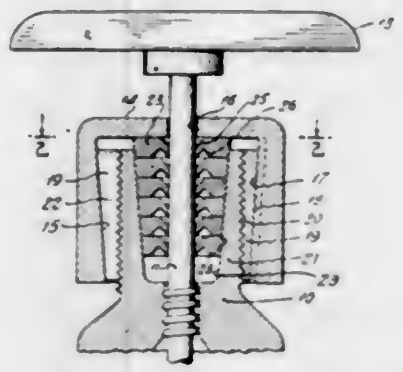
Eugene Lieber, Staten Island, N. Y., and Aloysius F. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 27, 1940, Serial No. 371,996
6 Claims. (Cl. 252—52)

2. An oil composition comprising a hydrocarbon oil base and a small proportion of a wax modifier consisting essentially of a Friedel-Crafts condensation product of an aliphatic ketone having less than 10 carbon atoms with a low molecular weight aromatic compound having the general formula ArR_n, where Ar represents an aromatic nucleus, at least one R is replaceable hydrogen and the other R's are selected from the group consisting of hydrogen, halogen, alkyl, aryl, aralkyl, alkoxy and hydroxy radicals, n representing the number of R radicals, said condensation product being substantially non-volatile under fire and steam distillation conditions at temperatures up to 600° F.

2,422,248
SEALING DEVICE

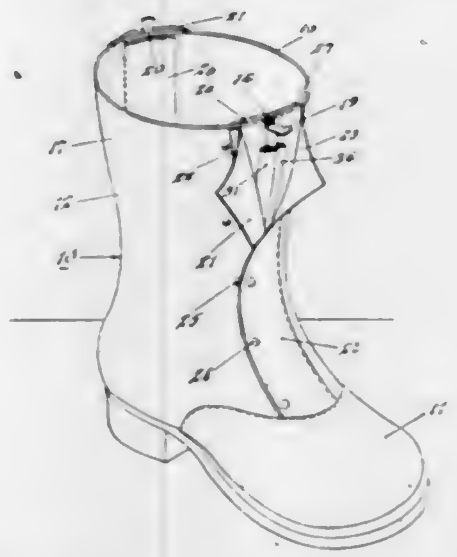
Francis Le Barron Lord, Bloomfield, N. J., assignor to Titelox Manufacturing Company, Montclair, N. J., a corporation of New Jersey
Application October 28, 1944, Serial No. 560,856
2 Claims. (Cl. 286—37)

1. A sealing device for a member in which a rod is positioned, comprising a cap member positioned over the first named member, said cap member being provided with tapered inner walls and with an aperture for reception of said rod, and with a key projecting beyond the plane of said inner walls, and an inner member adapted to be positioned in said cap member, said inner member being externally tapered to conform to the tapered walls of the cap member and having a keyway to receive said key, and being further provided with a vertical slit and being internally threaded for threadedly engaging the first named member, the first named member being provided with an internally recessed portion, and a disc member adapted to be positioned in said last named portion, said disc member being provided with an aperture for reception of said rod.



2,422,249
FOOTWEAR WITH WATER-RESISTANT SLIDE-FASTENER CLOSURE

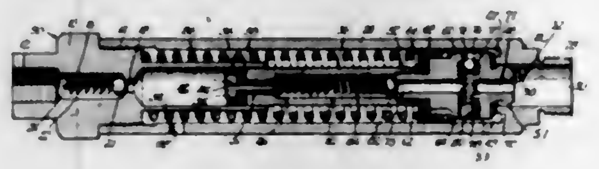
Assad M. Malluk, New York, N. Y.
Application January 6, 1943, Serial No. 471,420
1 Claim. (Cl. 36—50)



In an article of footwear having a lower portion to cover the foot and an upper portion to cover the leg of the wearer, a longitudinal separation in said upper leg portion separating said portion into two sections from the top edge thereof to the lower part of the foot portion, slide fastener closure means for said separation, a U-shaped member made of waterproof material secured on a section along one side of the separation and extending exteriorly of the slide fastener means, a second U-shaped member made of waterproof material secured along the other side of the separation and also extending exteriorly of the slide fastener closure means and adapted to have one edge thereof enter said first mentioned U-shaped member when said slide fastener means is closed so that said edge will form a substantially water resistant seal with said first mentioned U-shaped member, a flap made of waterproof material secured along one section adjacent to the separation and extending over said members when they are positioned in engaging relation with each other, and a second flap made of water resisting material secured along the opposite section adjacent to the separation and adapted to extend over said first mentioned flap and be releasably secured to the section on the other side of the separation.

2,422,250
PRESSURE BOOSTER FOR LUBRICATING SYSTEMS

Normand W. Morse, Chicago, Ill.
Application September 16, 1944, Serial No. 554,361
13 Claims. (Cl. 103—5)



1. A pressure booster comprising a casing, a piston reciprocable in said casing, an inlet in the casing against which the piston may seat, said inlet having a smaller cross sectional area than the piston, means within the casing for urging the piston against the inlet, an outlet in the casing, means responsive to movement of the piston away from the inlet to deliver a quantity of lubricant at increased pressure through the outlet, and means for releasing any trapped lubricant between the piston and the casing wall around the inlet so that the urging means may seat the piston tightly against the inlet and hold it there until pressure against the restricted area of the piston opening to the inlet is sufficiently great to overcome the urging means.

2,422,251
STORAGE OF ACETYLENE

Maurice O'Brian, St. Louis, Mo., and Edward R. Biggins, Indianapolis, Ind., assignors, by mesne assignments, to The Linde Air Products Company, a corporation of Ohio
No Drawing. Application September 13, 1941, Serial No. 410,792
9 Claims. (Cl. 206—0.7)

2. A filler mass in a container in which compressed gases are adapted to be stored, comprising a porous monolithic mass of a calcium silicate in which the ratio of calcium oxide and silica is as substantially 53.3 parts by weight of silica to 36.7 parts by weight of calcium oxide, and said mass including up to 10 parts by weight of asbestos fiber based on the combined weight of the calcium, silica, and asbestor fiber, the amounts of calcium oxide and silica each varying not more than plus or minus 2%, said mass having a crushing strength over 900 pounds per square inch, a porosity in excess of 80%, and uniformly distributed pores invisible under a magnification of 960 diameters.

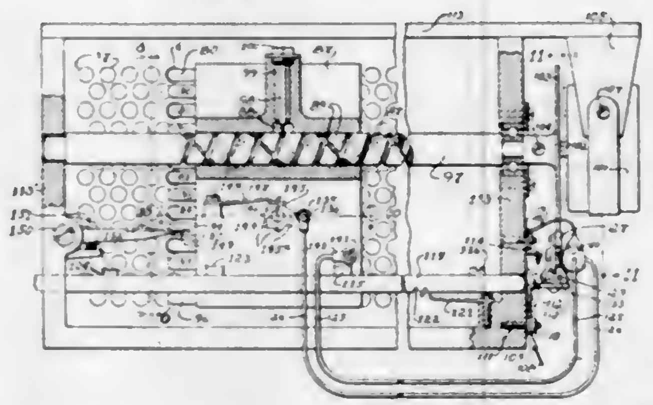
2,422,252
TRANSPOSITION OF DICHLOROBUTENES

Julian A. Otto, Long Island City, N. Y., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application September 15, 1944, Serial No. 554,333
8 Claims. (Cl. 260—654)

1. The process for converting one of the dichlorobutenes 1,2-dichlorobutene-3 and 1,4-dichlorobutene-2 to the other isomer, which consists in heating said dichlorobutene at a temperature of at least 120° C. until the boiling point of the mixture has been substantially changed and separating the resulting mixture of dichlorobutenes.

2,422,253
AUTOMATIC RADIO PROGRAM SELECTOR

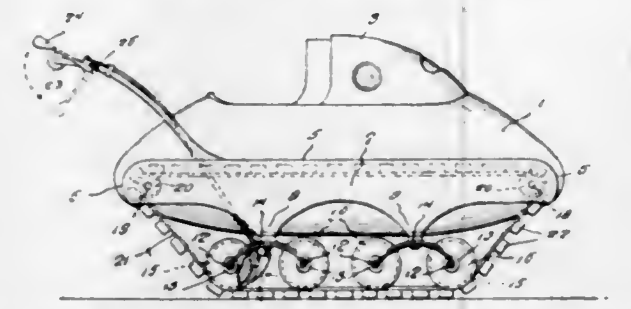
Gordon R. Pennington, Bloomfield Hills, Mich.
Application May 25, 1942, Serial No. 444,331
17 Claims. (Cl. 200—37)



1. In an automatic radio program selector, the combination of: a panel pierced by seven groups of holes and consisting of a plurality of metallic elements, each presenting a contact surface within each of said holes, sandwiched between layers of electrically non-conducting material; markings relating each of said holes to a particular broadcasting period of the day and each of said groups of holes to a particular day of the week; plugs operable in said holes to make electrical contact with any one of said elements; a contact carrier provided with contacts adapted to make electrical connections with said plugs; electric clock driven means adapted to move said contact carrier across said panel to make the said connections during the periods of each day corresponding to said markings; switching means, correlated to said electric clock driven means, adapted to complete circuits, on each day of the week, through, and only through, such of said plugs as are in the group of holes corresponding to that day of the week; and switching means adapted to break said circuits during that portion of the day not covered by said markings.

2,422,254
BABY CARRIAGE

Anthony Peronti, Chicago, Ill.
Application November 27, 1945, Serial No. 631,109
1 Claim. (Cl. 280—29)



An endless tread vehicle comprising a self-reinforced body, a fender attached to either side of said body and extending longitudinally therewith, a pair of longitudinally spaced downwardly extending portions on each of said fenders, a bracket attached to said body at a point in transverse alignment with each of said downwardly extending portions, a spring attached to each of said brackets and a similar spring attached to each of said downwardly extending portions, each of said second mentioned springs forming a pair with the spring on its aligned bracket, an endless belt tread mechanism, and rollers mounted for rotation between each of said pairs of springs and arranged to carry the endless belt.

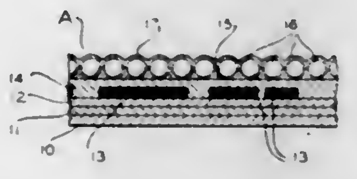
2,422,255
RINSE COMPOSITIONS

Franklin T. Peters, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 14, 1944, Serial No. 531,121
1 Claim. (Cl. 167—33)

An aqueous germicidal rinse composition comprising, approximately, one part of 1,3-dichloro-5,5-dimethylhydantoin, one part of 5,5-dimethylhydantoin, two parts of sodium dodecyl sulfate and ten parts of sodium dihydrogen phosphate.

2,422,256
FLEXIBLE REFLEX REFLECTING FILM

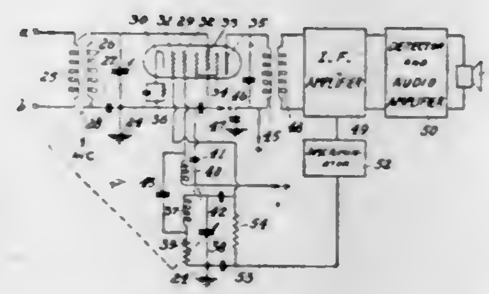
Matthew H. Phillippi, St. Paul, Minn., assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Original application February 13, 1940, Serial No. 318,701. Divided and this application August 12, 1944, Serial No. 549,217
3 Claims. (Cl. 40—135)



1. In combination with a base having a reflective surface, an overlying preformed flexible transparent lenticular optical sheet of the character described, having a multiplicity of small transparent contiguous glass beads partially embedded in a transparent bonding medium to form a uniform surface layer thereof, said optical sheet causing "reflexive" reflection of incident light.

2,422,257
ELECTRONIC REACTANCE CIRCUITS

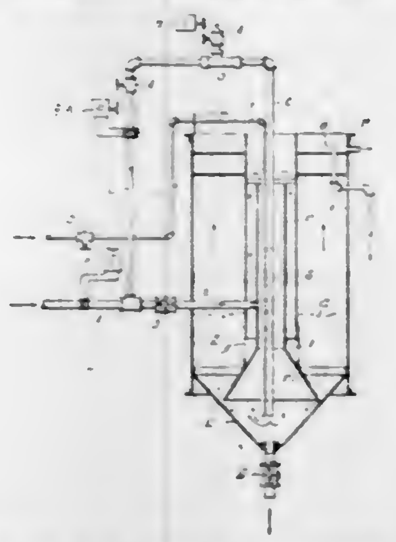
Jozef Plebanski, Warsaw, Poland, assignor to Radio Patents Corporation, a corporation of New York
Application June 20, 1940, Serial No. 341,487
In Poland April 26, 1935
9 Claims. (Cl. 250—40)



1. An electronic reactance circuit comprising an electron discharge tube having a cathode, an anode and at least one control electrode, a tuned circuit carrying high frequency current coupled to said cathode and control electrode, a non-reactive impedance serially inserted in said tuned circuit, an output circuit connected to said anode, and a feedback circuit path between said anode and cathode including said non-reactive impedance, and means for controlling the degree of amplification of said tube.

2,422,258
LIQUID TREATMENT WITH AUXILIARY FLOW OF LIQUID TO SUSPEND AND PRESERVE A SLUDGE BLANKET

Frank D. Prager, Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc., a corporation of Delaware
Application June 9, 1944, Serial No. 539,525
8 Claims. (Cl. 210—16)



1. Apparatus for liquid treatment with separation of solids, comprising a tank; two inlet ducts for untreated liquid, communicating with central parts of said tank; an additional inlet duct for treatment reagents communicating with central parts of said tank; two outlet ducts for treated liquid, communicating with upper parts of said tank, remote from said central parts; said central and remote upper parts of said tank communicating with one another; a valve in one of said inlet ducts; a pressure regulator in the other inlet duct; an air injector interposed on the other inlet duct, between said pressure regulator and said tank and adapted to draw air into the untreated liquid flowing through said other inlet duct, for release in said tank; and an outlet duct for separated solids, communicating with a lower part of said tank.

2,422,259
DRYING OIL-POLYVINYL ACETAL COMPOSITIONS

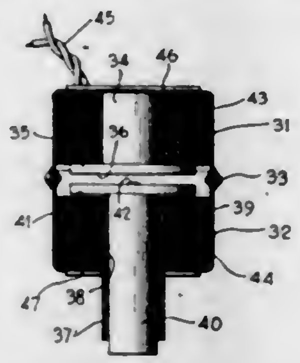
Burt Carlton Pratt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 15, 1943, Serial No. 506,427
1 Claim. (Cl. 260—23)

A process which comprises heating at 275° to 280° C. a mixture consisting of alkali refined linseed oil and low-viscosity, low-hydroxyl polyvinyl butyral in amount of from 25% to 75% of said mixture, and continuing the heating until the mixture is compatible at ordinary temperature, said polyvinyl butyral having a hydroxyl content of from 10% to 13% calculated as polyvinyl alcohol.

2,422,260
ELECTROMAGNETIC OPERATOR

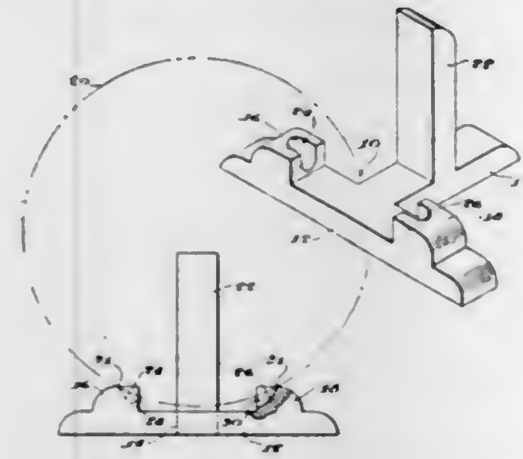
William A. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation
Original application November 23, 1942, Serial No. 466,636. Divided and this application July 21, 1945, Serial No. 606,345
4 Claims. (Cl. 175—336)

1. In an electromagnetic operator of the single working-gap type: a core member having a hollow outer portion and an inner portion extending from the outer portion to define therewith a space for an energizing coil winding; said inner core portion being relatively small in cross-section and having at its free end a disk-like head providing a substantially plane pole face the area of which is at least several times greater than the cross-sectional area of the small part of the inner core portion; a plunger-like armature substantially coaxial with said inner core portion and extending through an opening in a wall of said outer core portion, said armature having at its inner end a disk-like head providing a surface substantially coextensive with that of said pole face and defining therewith a working-gap; said outer core portion providing at said opening an inward extension surrounding the plunger portion of the armature and in good flux-transfer relation thereto; a coil winding surrounding said small part of the inner core portion; and an additional coil winding surrounding said inward extension of the outer core portion.



2,422,261
PLATE HOLDER

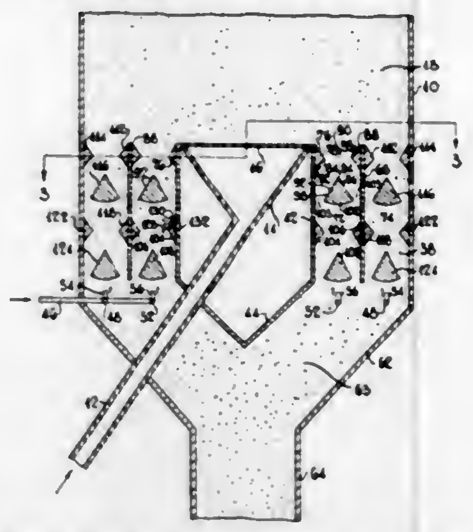
Charles Richards, Quincy, Mass.
Application November 22, 1944, Serial No. 564,662
2 Claims. (Cl. 248—33)



1. A plate holder for supporting a plate for display purposes comprising a T-shaped base structure having a transversely extended forward member and a longitudinal member extended rearwardly therefrom, said transverse member having two spaced-apart rim-engaging members and an intermediate portion disposed a substantial distance below said rim-engaging portions, said transverse member extending substantially beyond each rim-engaging member to impart stability to the base, said rim-engaging members being provided with grooves extending from their inner and adjacent faces to the upper surfaces thereof, each groove having sidewalls and an outer end wall and being opened at its inner face, said walls being adapted to cooperate with the rim portion of a plate supported in the grooves and upon the base member, to prevent forward, rearward and lateral displacement of the plate from the grooves, said longitudinal member having an upright supporting member adapted to engage and support the back of the plate.

2,422,262
APPARATUS FOR CONTACTING SOLID PARTICLES WITH GASEOUS FLUIDS

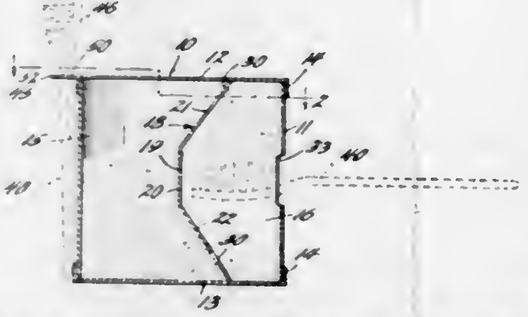
Barrett B. Russell, 3d, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 2, 1944, Serial No. 547,665
8 Claims. (Cl. 23—288)



1. An apparatus of the character described including a cylindrical vessel, a centrally arranged circular distribution perforated plate in the lower portion of said vessel, means for introducing gaseous fluid into said vessel for passage upwardly through said plate, a skirt depending from the perimeter of said plate and concentric with said plate and said vessel, a cylindrical baffle concentric with the wall of said vessel and with said skirt whereby a plurality of annular concentric zones are formed, means for introducing a gaseous fluid into said annular zones, said vessel being adapted to contain a dense dry fluidized liquid-simulating mixture of contact particles and gaseous fluid which mixture passes down through said annular zones wherein the contact particles are mixed with the gaseous fluid introduced into said annular zones.

2,422,263
TILTABLE TRAP CHAMBER POWDER DISPENSING DEVICE

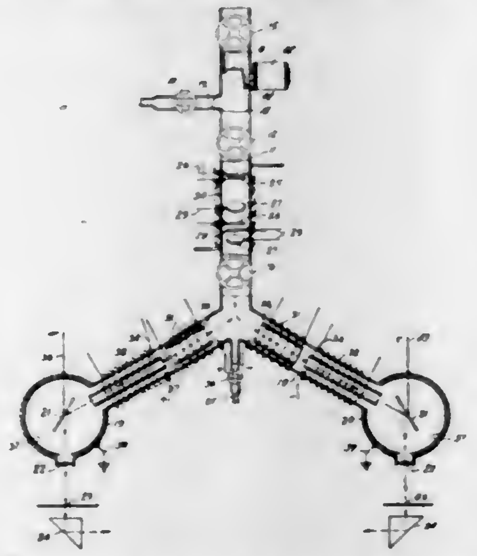
Earl M. Schara, Washington, D. C.
Application October 19, 1944, Serial No. 559,442
6 Claims. (Cl. 222—126)



5. A dispensing container for tooth powder or like material, which comprises a lightweight, readily portable, merchantable package, having top, bottom, and side walls and provided with a generally vertically disposed partition extending from the top wall of the container to the bottom wall thereof and dividing the container into two compartments of substantially the same height arranged side by side, one comprising a storage

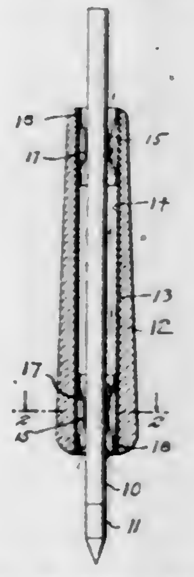
compartment and the other an auxiliary, dispensing compartment, an opening in the wall of said auxiliary compartment which is on the opposite side thereof from said partition, said opening being spaced from both the top and bottom of said container, and adapted for the insertion of a toothbrush or similar instrumentality laterally into the compartment toward said partition, and a small dispensing opening in the partition adjacent its lower end, through which a limited quantity of said powder may flow into the then bottom portion of the auxiliary compartment, so that said quantity will shower down upon said inserted instrumentality upon inversion of the container.

2,422,264
DIFFERENTIAL IONIC ANALYZER
Robert V. Seaman, Denver, Colo.
Application May 8, 1945, Serial No. 592,711
16 Claims. (Cl. 73—18)



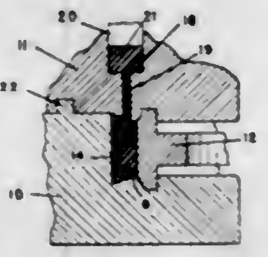
1. A differential ionic analyzer comprising: an ionization chamber; a negative tube extending from said chamber; a positive tube extending from said chamber; a negatively charged ion target at the extremity of the negative tube for attracting positive ions; and a positively charged ion target at the extremity of the positive tube for attracting negative ions.

2,422,265
HOLDER FOR ETCHING ELECTRODES
Frederic B. Squires, Tenafly, N. J.
Application April 21, 1945, Serial No. 589,550
2 Claims. (Cl. 219—29)



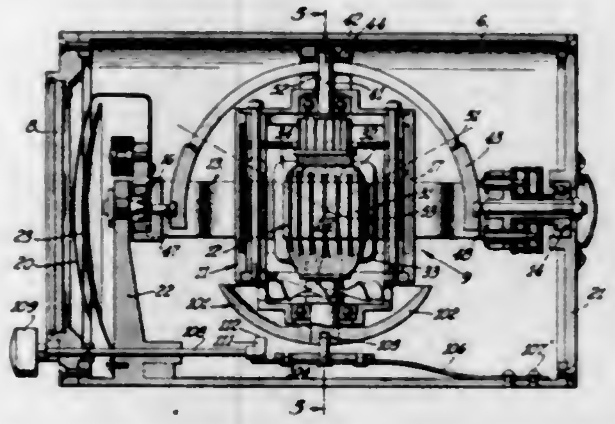
1. A holder for an etching electrode comprising a handle of heat insulating material having a central bore therein, a fiber sleeve located in said central bore, and a plurality of spacer members located within said bore, said spacer members being resilient sleeves of generally hourglass shape the ends of which bear against the interior surface of said fiber sleeve, and the central small diameter portion of which is adapted to grip the etching electrode.

2,422,266
METHOD OF MAKING POWER-TRANSMISSION BELTS
Theodore W. Steinke, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application May 11, 1946, Serial No. 669,147
2 Claims. (Cl. 18—59)



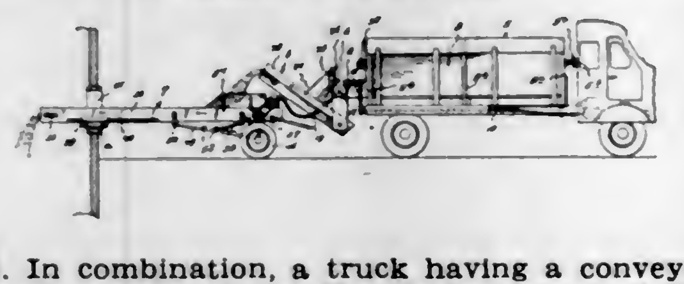
1. The method of forming an endless power transmission belt by means of a mold having an endless mold cavity of the desired belt cross section whose width is defined by spaced outer and inner walls, which comprises the steps of positioning in the mold cavity, adjacent the outer wall thereof, a readily flexible tension ring assembly, formed in part of a layer of flexible cables, of less thickness than the distance between the inner and outer walls of the mold cavity, the peripheral length of the tension ring being slightly less than the length of the outer wall of the mold cavity, injecting under pressure a curable rubber composition into the space between the tension ring and the inner wall of the mold cavity, at a plurality of spaced points, thereby forcing the tension ring outwardly against the outside wall of the mold cavity, and subjecting the belt to a curing treatment while in the mold.

2,422,267
GYROSCOPE CAGING DEVICE
Thomas O. Summers, Jr., Los Angeles, Calif., assignor to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Original application October 22, 1942, Serial No. 462,943. Divided and this application July 31, 1944, Serial No. 547,451
8 Claims. (Cl. 74—5)



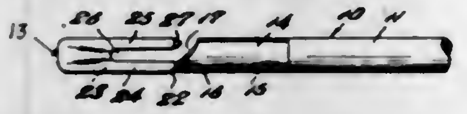
1. In combination, a gyroscope comprising a casing supported for universal movement about mutually perpendicular axes and a rotor journaled within said casing, a housing for said gyroscope, and caging means therefor comprising a head mounted exteriorly of said casing and connected to said rotor to rotate therewith, the outer face of said head having substantially the form of a spherical arc about a center on the intersection of said axes, and said head having a socket in its outer face at the axis of rotation thereof, a pin adapted to be received within said socket, and means carried by said housing for supporting said pin optionally in position spaced from said head, in frictional engagement therewith, or seated within said socket.

2,422,268
COAL TRUCK AND UNLOADING APPARATUS
James W. Symonds, Ladoga, Ind.
Application October 9, 1944, Serial No. 557,823
2 Claims. (Cl. 214—83)



1. In combination, a truck having a conveyor therein, an elevator at the discharge end of the truck and connected thereto below the conveyor, a horizontal conveyor, said conveyor in the truck being adapted to discharge material onto the elevator, said elevator being adapted to discharge material onto the horizontal conveyor, detachable flexible drive means between the truck conveyor and the horizontal conveyor, and means for elevating and lowering the said elevator.

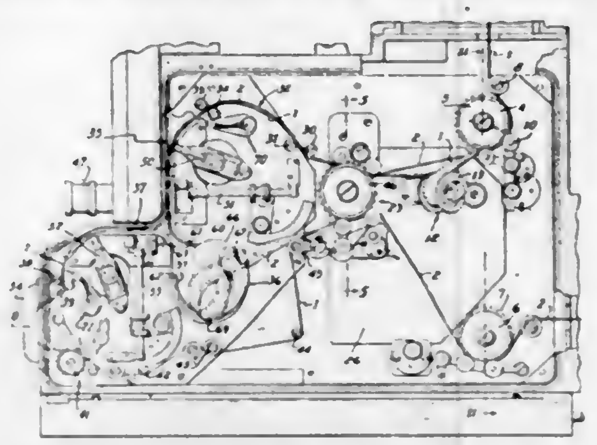
2,422,269
NEEDLE
Lyman F. Thompson, Fayetteville, Ark.
Application June 22, 1945, Serial No. 600,928
8 Claims. (Cl. 223—102)



1. A needle having a reduced diameter adjacent one end thereof, a terminal hook on said end, and means for covering the free end of the hook to form a closed eye for the needle, said means consisting of a thimble rotatably mounted on said reduced portion and held against sliding movement thereon, said portion and said thimble having cut-outs adapted to align in one position of rotation of the thimble to open a passage to the eye and means on the free arm of the hook for supporting an end of the thimble in another position of rotation of the thimble to close the passage, and said reduced portion and thimble being frictionally connected.

2,422,270
CAMERA
Albert W. Tondreau, North Hollywood, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Original application October 27, 1944, Serial No. 560,546. Divided and this application April 27, 1945, Serial No. 590,544
5 Claims. (Cl. 88—16.4)

1. An adjunctive device to assist in threading the film so that the sprocket holes therein will be in a position to be engaged by the film traversing means of a film gate, said device comprising a removable pin engageable with the sprocket holes in the film at a point in the film running path beyond the gate where the sprocket holes can be inspected and manipulated to engage the pin thereon, means supporting said pin for movement into and out of said path said pin being movable to a position in the film path so that when the sprocket hole in the film is engaged therewith, that portion of the film in the gate will have its sprocket holes in proper position to be engaged by the film traversing means.



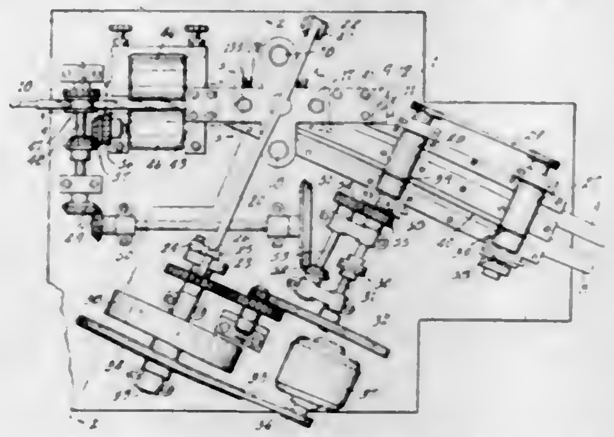
2,422,271
POLYISOCYANATE MODIFIED POLYESTERAMIDES
Gordon T. Vaala and Charles E. Frank, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 17, 1943, Serial No. 514,658
12 Claims. (Cl. 260—42)

1. A process for obtaining tough, durable high molecular weight polymeric products which comprises incorporating a catalyst and the resinous condensation product of urea-formaldehyde and a monohydric alcohol with the thermoplastic, organic solvent soluble, rubbery and millable reaction product of a linear polymeric polycarboxylic ester carbon amide containing ester and carbon amide groups interlinearly in the polymer chain and a cyanate substance and heating the composition thus obtained until the resulting product is essentially non-thermoplastic and insoluble, said resinous condensation product being present in amount of from 5% to 100% based on the weight of said carbon amide, the ratio of urea, formaldehyde, and monohydric alcohol combined in said resinous condensation product being within the range of from 1:1.5:0.5 to 1:3:2, said cyanate substance being present in amount of from 1% to 10% by weight of said carbon amide and being selected from the group consisting of organic polyisocyanates and organic polyisothiocyanates, said catalyst being selected from the group consisting of weakly acidic materials and substances which yield strong acids when heated to a temperature of from 100° to 160° C.

2,422,272
MACHINE FOR MAKING TUBULAR PARTS FROM STRIP MATERIAL
August Viehweger, Comstock Park, Mich.
Application January 15, 1945, Serial No. 572,830
21 Claims. (Cl. 113—35)

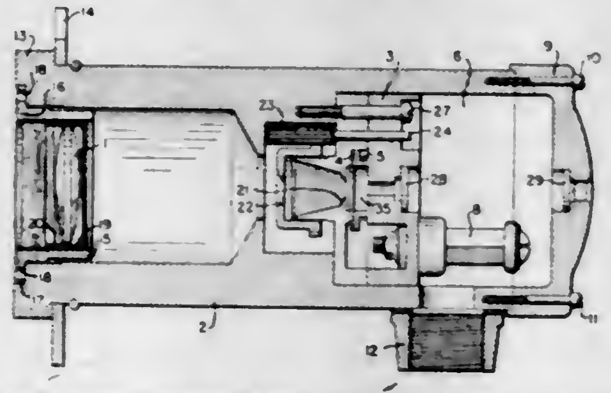
1. In a machine of the class described, the combination with a mandrel supported at its front end, of means for feeding a plurality of strips of stock in laterally spaced relation relative to each other and at an angle substantially less

than a right angle relative to said mandrel including friction driven feed rollers common to the strips of stock, said rollers being provided with means for forming a longitudinal groove in one of the stock strips as it is fed, an anvil forming die member having a transversely curved longitudinal die face concentric with said mandrel, a reciprocatingly mounted coacting thrust forming die member having a transversely curved longitudinal die face complemental to the die face of said anvil die member and concentric with said mandrel and against which the strips of stock are impingingly fed by said feed rollers, the friction drive of said feed rollers being such as to feed the stock to said forming die members when the thrust die member is in retracted position and slipping when it is in its actuated position, means for actuating said thrust die member in timed relation to the feed of the stock strips, and a follower die member disposed at the rear of said forming die members and through which the work is advanced, said follower die member being provided with supporting rollers for the work.



2,422,273
LENS TYPE RADIATION PYROMETER

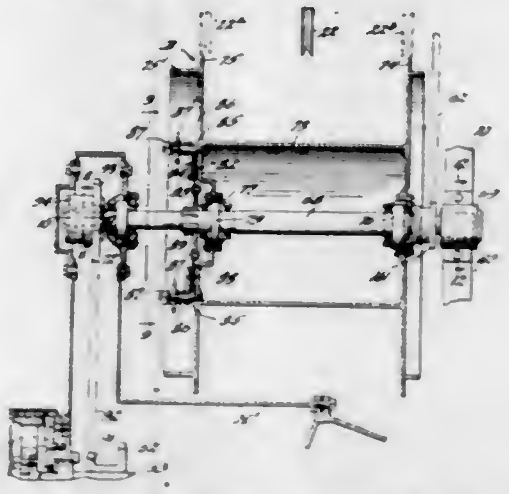
William H. Wannamaker, Jr., Flourtown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 28, 1942, Serial No. 467,215
1 Claim. (Cl. 136—4)



A radiation pyrometer operable to measure the temperatures of objects through a range of different angular fields of view without involving any change in calibration including a thermopile, a lens having a focal length according to the desired angular field of view for converging heat rays upon said thermopile from the object whose temperature is under measurement, and a limiting diaphragm located between said lens and said thermopile for limiting the solid angle through which heat rays may be received by said thermopile, the relative positions of said lens, diaphragm and thermopile being substantially fixed and the distance between said diaphragm and said lens being greater than the focal length of said lens by such an amount that the conjugate focal point of said lens will be materially closer to the lens than the object from which said heat rays originate and the cross-sectional area at said conjugate focal point through which heat rays are received is materially smaller than the diameter of said lens.

2,422,274
WINCH

John Hart Wilson, Wichita Falls, Tex.
Application July 29, 1942, Serial No. 452,773
5 Claims. (Cl. 254—187)



3. In a winch, in combination, a shaft supported for rotation about a fixed axis, a power driven element encircling the shaft, an overrunning clutch for transmitting driving torque from said element to said shaft, whereby the shaft will be positively driven in one direction of rotation by said element when said element is rotated about the axis of the shaft in one direction, a one-way brake for acting automatically to grip and hold said shaft against rotation in the direction opposite to that in which the shaft is rotated by the overrunning clutch, a drum mounted on the shaft for rotation relatively thereto in either direction, and means frictionally connecting the shaft and drum at all times, said means including a disc mounted on the shaft, annular friction surfaces carried by the drum and disposed concentrically to the axis of the shaft, the outer margin of the disc being intermediate the said friction surfaces, a series of springs disposed in a circular series about said shaft, for normally urging said friction surfaces toward each other, and means for simultaneously adjusting the action of said springs.

2,422,275
COMPOUNDED LUBRICATING OIL

Carl Winning, Westfield, and Dilworth T. Rogers, Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 3, 1942, Serial No. 457,146
15 Claims. (Cl. 252—45)

1. An organic composition consisting essentially of an oil containing from 0.02% to 15% of a product obtained by reacting from about 1 to about 3 molecular proportions of a compound selected from the group consisting of aliphatic and alicyclic compounds containing an unsaturated carbon-to-carbon linkage, at a temperature of about 20° to about 140° C., with 1 molecular proportion of a sulfur halide, and further reacting from about ½ to about 10 molecular proportions of the product thus formed with one molecular proportion of an aromatic compound at a temperature of about 40° to about 160° C.

2,422,276
COMPOUNDED LUBRICATING OIL

Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 14, 1943, Serial No. 502,299
6 Claims. (Cl. 252—45)

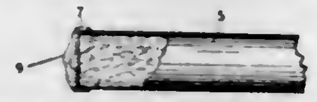
1. A liquid hydrocarbon product consisting essentially of a mineral oil and 0.02% to 15% of a product obtained by reacting from about 1 to about 3 molecular proportions of a compound selected from the group consisting of aliphatic and alicyclic compounds containing an unsaturated carbon-to-carbon linkage, at a temperature of 20° to 100° C., with 1 molecular proportion of a sulfur halide, and further reacting from about ½ to about 10 molecular proportions of the product thus formed, at a temperature of about 40° to about 160° C. with a compound of the formula

$$R—Ar—OT$$

where Ar is an aromatic nucleus, R represents at least one aliphatic side chain consisting essentially of an alkyl group having at least 20 carbon atoms, and T is a member of the group consisting of hydrogen and metal equivalents of hydrogen, the metals being those of groups II, III, IV and VIII of the periodic table.

2,422,277
CIGARETTE LIGHTING CAP

Frank Witt, San Francisco, Calif.
Application February 24, 1944, Serial No. 523,696
1 Claim. (Cl. 131—7)



The combination with a cigarette, of a cap secured to one end of said cigarette, means for adhering said cap to the walls of said cigarette adjacent said one end thereof, an explosive material mounted on said cap and centrally positioned with respect to the axis of the cigarette and an igniting material overlying and enclosing said explosive material whereby when said igniting material is ignited said explosive material will burn through said cap and ignite the center portion of said cigarette.

2,422,278
LUBRICATING OIL COMPOSITION

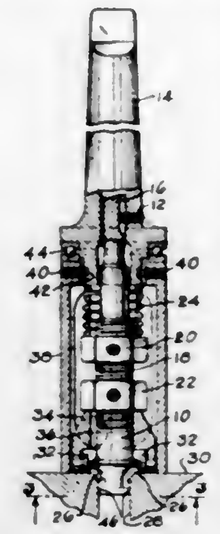
David W. Young, Roselle, and John D. Calfee, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 1, 1943, Serial No. 512,492
9 Claims. (Cl. 252—59)

1. A lubricant comprising in combination a hydrocarbon oil and a dissolved viscosity index improving amount of a reaction product of polymerized methyl pentadiene having a molecular weight within the range between 8,000 and 25,000 in combination with maleic anhydride.

2,422,279
RADIUS FORMING TOOL

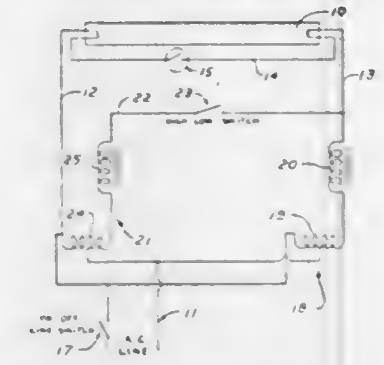
Eric H. Zimmer, Wycoff, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application May 6, 1944, Serial No. 534,473
14 Claims. (Cl. 77—73.5)

3. A cutting tool comprising a movable supporting member, a cutter member drivably connected to said supporting member and movable relatively thereto, said cutter member having a cutting edge engageable with a nonplanar surface of a workpiece, stop means movable with said cutter member and adapted to engage only a small area of the workpiece surface adjacent to said cutting edge to limit the depth of cut, and resilient means for urging both said cutter member and stop means toward engagement with said workpiece relative to said supporting member.



2,422,280
FLUORESCENT ILLUMINATION

David W. Abernathy, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc., a corporation of Illinois
Application July 24, 1944, Serial No. 546,294
3 Claims. (Cl. 315—282)



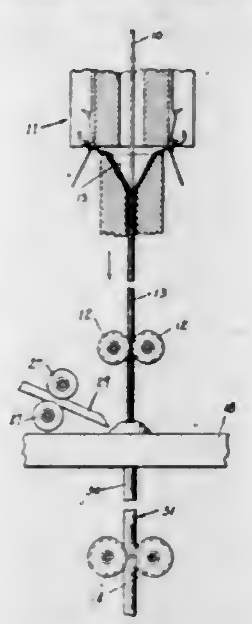
1. A fluorescent lighting circuit comprising a fluorescent lamp, a choke coil and auto transformer connected in series with said lamp, starter means, and means for increasing the intensity of illumination of said lamp, said means comprising a choke coil and auto transformer connected in series with each other but both connected in parallel with said first mentioned coil and transformer, and a switch for selectively connecting said last mentioned coil and transformer into said circuit.

2,422,281
APPARATUS FOR INSULATING CONDUCTORS

Robert T. Adams, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 9, 1944, Serial No. 521,643
6 Claims. (Cl. 91—53)

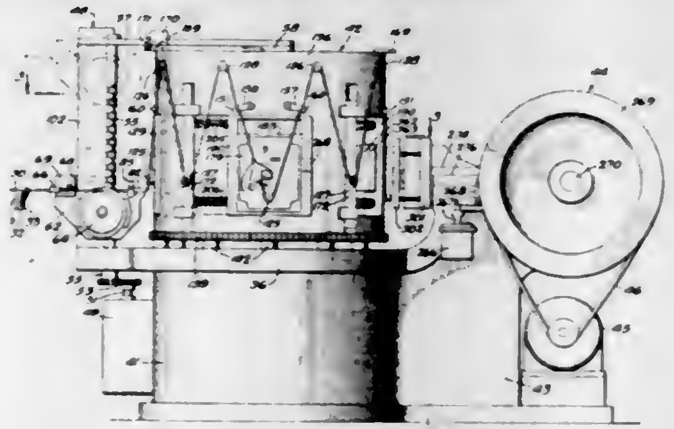
4. An apparatus for covering conductors, which consists of a horizontally disposed block having a vertically disposed die opening formed in the central portion thereof, said die opening having

a bell-shaped upper portion, means for liquefying a thermoplastic material positioned on the top of said block, and means for advancing a conductor downwardly through said die opening.



2,422,282
ARTICLE FORMING APPARATUS

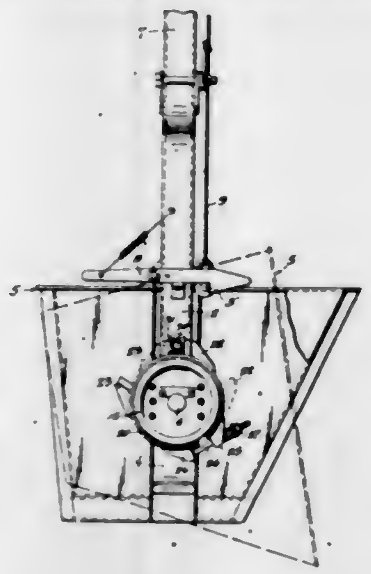
Robert T. Adams, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 11, 1945, Serial No. 572,413
17 Claims. (Cl. 29—33)



1. Apparatus for making electrical cords from continuous cordage including a plurality of conductors with a continuous covering thereover and having the conductors thrown through and extending out of the covering at spaced points along the cordage, which comprises a support, means for rotating the support, a plurality of carriers mounted on the support for supporting successive lengths of such cordage with the points where the conductors extend from the covering adjacent to the carriers, means associated with the carriers and support and operative when the carriers reach a predetermined position for successively separating the covering into individual cord lengths at the points where the conductors extend therefrom, thereby locating the uncovered conductors adjacent to each carriage as the support rotates, means associated with each carrier for engaging, separating and positioning the uncovered conductors with respect to each other, means at a fixed station adjacent to the support for cooperating with the carriers to apply metallic members to the cordage and to the conductors so located, and means for coordinating the operations of the metallic member-applying means and the conductor-engaging means with the movement of the support.

2,422,283
SELF-RIGHTING DUMP CAR

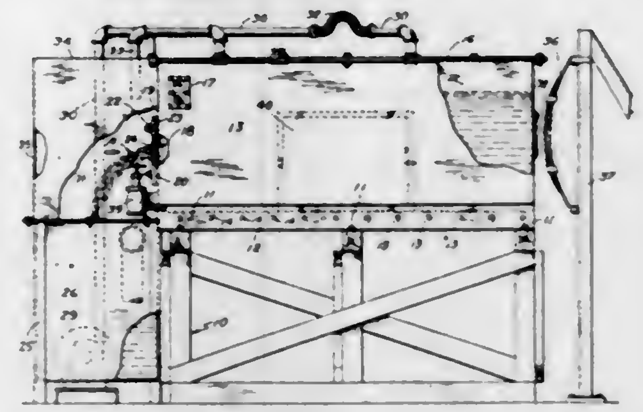
Peter Anderson, Seattle, Wash., assignor to Washington Iron Works, Seattle, Wash., a corporation of Washington.
Application July 3, 1944, Serial No. 543,261
5 Claims. (Cl. 294—73)



1. The combination with a swivel-mounted dump car operative to right itself automatically following a dumping operation, and with the supporting carrier therefor: a brake drum supported in concentric relation to the swivel axis of the car and movable in unison with the latter; a brake band for the drum gripping the latter with a relatively constant friction pressure and normally free to move in unison with the drum; and means providing a lost-motion connection between the carrier and the brake band functional in the course of the car's righting movement at a point short of the given swing-arc of the latter to arrest the brake band and place a decelerating influence upon the drum.

2,422,284
BULLET TRAP

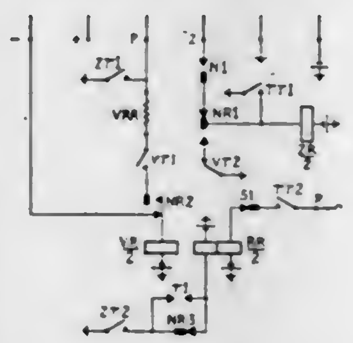
Garwood C. Andresen, Chicago, Ill., and Harry Rockey, Denver, Colo., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application May 17, 1944, Serial No. 535,936
10 Claims. (Cl. 273—102.4)



7. A bullet trap comprising a trap tank having a target aperture; a body of water in said trap tank; a stream of water continuously issuing from said target aperture; a sump supported beneath said target aperture to receive the water issuing therefrom; means for returning the water from said sump into said tank; means for supporting said tank, said supporting means being constructed and arranged to enable said tank to move freely in response to the impact of a bullet with the body of water in said tank and in the direction of flight of said bullet; and resilient means adapted to be engaged by said tank to resist the movement thereof.

2,422,285
SELECTOR OPERATING CIRCUIT FOR USE IN AUTOMATIC TELEPHONE SYSTEMS

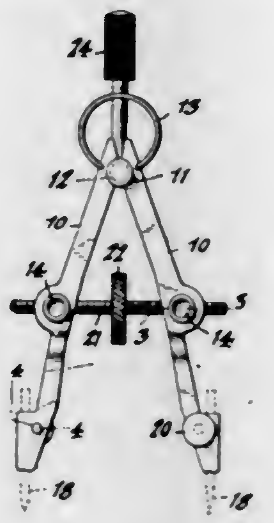
George Thomas Baker, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application March 6, 1943, Serial No. 478,243
In Great Britain April 20, 1942
30 Claims. (Cl. 179—18)



1. In a switching system, an automatic switch having access to a plurality of lines and adapted to take a step by step primary movement followed by a step by step secondary movement in order to select a particular one of said lines; control equipment; an impulsing circuit extending from said control equipment to said switch; a circuit extending from said control equipment to said switch for causing said switch to change over from its primary movement to its secondary movement; and means including said circuits whereby each step of the primary movement of said switch is always directed by said equipment, whereby each step of the secondary movement of said switch at times also is directed by said equipment, and whereby said secondary movement at other times is a hunting movement controlled by said switch.

2,422,286
BOW COMPASS

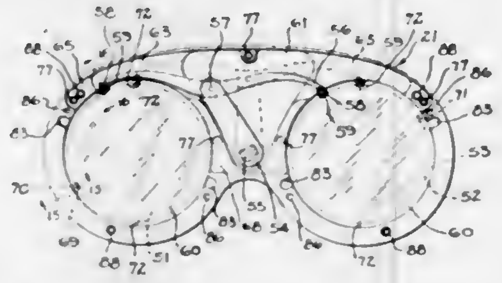
Alexander P. Bartusch, Lockport, N. Y.
Application October 9, 1943, Serial No. 505,654
5 Claims. (Cl. 33—154)



4. A compass of the character described, comprising a pair of legs pivoted at their upper ends for adjustment toward and from each other, each of said legs consisting of a pair of companion sections disposed in transversely spaced relation from their upper pivoted ends to the lower free ends thereof, a pivot member in supporting and space-governing relation to the upper ends of the companion sections of said pair of legs, a spacer member disposed between the companion sections of each leg at a point intermediate the upper and lower ends thereof, said spacer member being free to turn about an axis parallel to the pivot member and flanged at its opposite ends over said leg-sections to retain them in fixed spaced relation, those portions of the leg-sections below the retaining spacer member being contracted in parallel spaced relation and free to spring toward and from each other, and clamping elements applied to the lower ends of the leg-sections for removably clamping a pivot or scribing point thereto.

2,422,287
VARIABLE DENSITY GOGGLE

Daniel P. Bernheim and Edward M. Splaine, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 4, 1942, Serial No. 441,644
7 Claims. (Cl. 2—14)



1. In a face mask goggle, a unitary rigid front comprising a pair of front lenses, means for holding said front lenses against rotation, a pair of rear lenses rotatably mounted in the unitary rigid front, spacer means between the front and rear lens, spring means for frictionally engaging the back lenses, link means pivotally connecting each of the back lenses, a rotatable knob located in the unitary front intermediate the back lenses, and a lever arm having one end thereof securely connected to the rotatable knob with the other end thereof pivotally connected to the link to cause rotation of the rear lenses, said link and lever arm being located within a recess in the rigid front.

2,422,288
APPARATUS FOR TESTING ELECTRICAL INSULATION

Wentworth D. Boynton, Woodbrook, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 2, 1944, Serial No. 538,403
2 Claims. (Cl. 175—183)

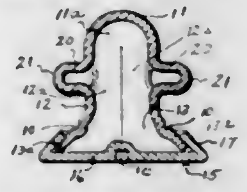
1. An apparatus for electrically testing the insulation of a conductor forming part of an electric cable, which comprises a testing circuit energizable to impress a high A. C. potential across the insulation and conductor of such a cable, a step-up transformer for energizing the testing circuit the windings of which are subject to transient magnetizing currents upon initial energization of the primary winding, means for connecting the primary winding of said transformer to a suitable A. C. power supply, a current-responsive relay connected in series with the primary winding of said transformer and responsive to an increased current flow in the primary winding such as may

be caused by the occurrence of a breakdown in the insulation of the conductor being tested, means operable by said current responsive relay to indicate when such a breakdown occurs, and a condenser connected in parallel with the primary winding of said transformer, said condenser being of such capacity that the parallel circuit which it forms with the primary winding is tuned to such a frequency that it prevents the transient magnetizing current occurring upon the initial energization of the primary winding from operating said current responsive relay.

2,422,289

ROTARY OPERATIVE FASTENER STUD

Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 2, 1943, Serial No. 501,007
5 Claims. (Cl. 24—221)



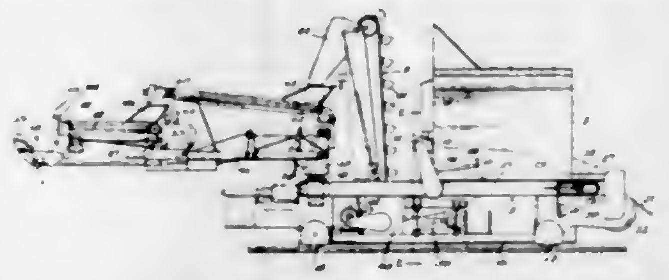
5. In a rotary operative fastener, a hollow sheet metal stud member adapted to be interlockingly engaged with a cooperating locking surface of a socket member, said stud having an elongated shank connected by a continuous substantially semi-spherical portion defining a rounded entering nose for said stud, the ends of said shank portions opposite said nose being flared outwardly presenting co-mating frustum-shaped portions defining a head for said stud, a sheet metal cap member having a part providing a closure for the end of said hollow stud opposite said nose and a skirt portion encompassing portions of said co-mating head portions for holding said co-mating portions together, and integral radial extensions on said shank intermediate the ends thereof for engagement with the locking surface of said socket member.

2,422,290

FLASK FILLING APPARATUS

Murray G. Clay, Chicago, Ill., assignor to The Beardsley & Piper Company, Chicago, Ill., a corporation of Illinois
Application June 9, 1943, Serial No. 490,129
2 Claims. (Cl. 22—36)

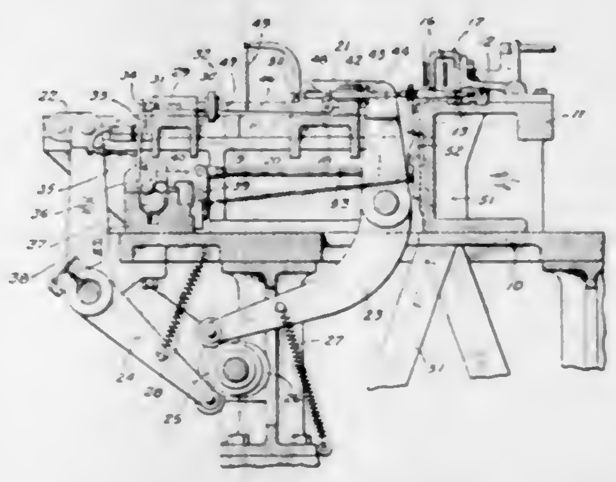
1. The combination with an apparatus comprising a supporting structure, a hopper on the structure adapted to receive a batch of granular material and provided adjacent the bottom thereof with a laterally extending discharge opening, and power driven means for feeding the material from the hopper through the discharge opening, of a vertically movable gate adjacent the discharge opening for controlling the effective area thereof, means for raising and lowering the gate embodying a rotatable drum above the gate and provided on the periphery thereof with a laterally extending pin, a flexible element having one end thereof anchored to the gate and its other end extending around the drum and anchored to the pin, a reversible prime mover adjacent the drum, and a driving connection between the prime mover and the drum, including a slip type friction clutch, and stop means positioned adjacent the drum and arranged so that it coacts with the pin to limit rotation of the drum in either direction.



2,422,291

ADJUSTABLE INSPECTOR PLATE FOR DIMENSION GAGING AND ASSORTING MACHINES

Judson A. Cook, Bridgeport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application December 31, 1943, Serial No. 516,330
4 Claims. (Cl. 209—88)

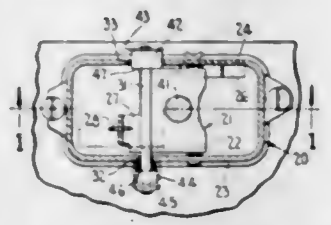


1. In an article gauging machine; a lever positioned in accordance with the dimension of an article; a movable support and plate thereon, said plate having resiliently mounted margins defining an aperture; means to change the position of said margins relative to each other, enabling adjustment of size and position of said aperture relative to the axis of movement of said support and plate; means to rectilinearly move said support and plate toward and away from one end of said lever in a predetermined path, the extent of movement thereof being determined by position of said lever in relation to the margins defining the aperture; and means operable by movement of said plate to separate standard from sub-standard articles.

2,422,292

CONTROL DEVICE FOR SWITCHES OR THE LIKE

Earnest J. Dillman and Jack E. Fleury, Detroit, Mich., assignors to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application February 28, 1944, Serial No. 524,228
1 Claim. (Cl. 74—532)

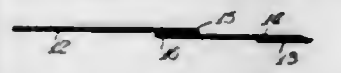


In a control device, a casing having spaced walls, a lever between and movable in a plane parallel to said walls, one of said walls having a cylindrical guide opening therethrough, a cylindrical abutment member reciprocally fitting in and projecting from both ends of said opening, said abutment member having its inner end engaging the side of said lever, means urging said abutment member against said lever, a stop flange at the outer end of said abutment member and engageable with said one of said walls to limit inward movement of said abutment member by said urging means, the other of said walls having an aperture therethrough alined with said guide opening, a rod projecting from said abutment member and extending through said aperture, a spring urging said lever against said rod, and means to move said lever away from said rod and out of the path of movement of said abutment member so that said urging means can move said abutment member into the path of movement of said lever by said spring.

2,422,293

CURTAIN

Maurice Druck, Long Beach, N. Y.
Application February 24, 1945, Serial No. 579,661
3 Claims. (Cl. 160—330)

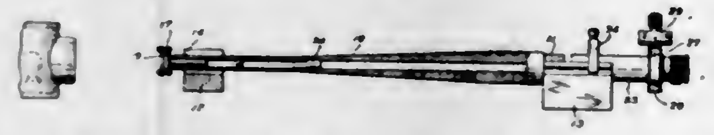


2. A regulation style elongated netted curtain, at least one vertical edge of said curtain being folded back over itself and stitched to form a hem, and a pleat parallel to said hem formed in said curtain at a spaced distance from said hem, said pleat being stitched to said curtain adjacent one side of the pleat so as to leave the folded over portion free of said curtain.

2,422,294

GUN BARREL STRAIGHTNESS TESTING APPARATUS

Francis G. du Pont, Utica, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application May 23, 1945, Serial No. 595,444
5 Claims. (Cl. 88—1)

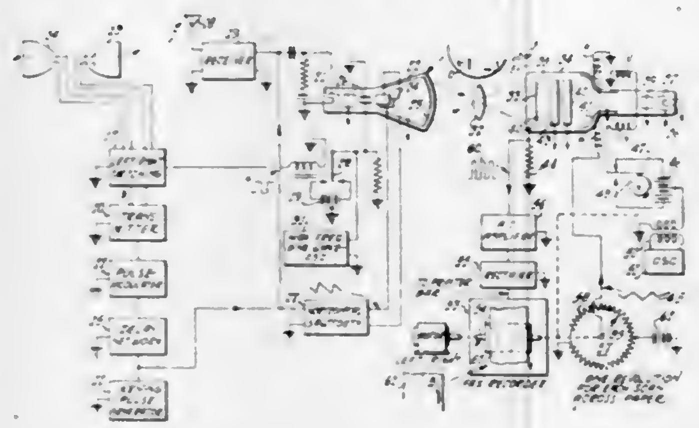


1. A gun barrel straightness testing apparatus comprising a bore plug with an index mark located on the axis of the plug, said bore plug being removably inserted in an end of the bore of said gun barrel in centered relation thereto; means to illuminate said index mark; an optical micrometer located at the end of said barrel opposite to the bore plug, said micrometer having a transversely adjustable index; means to measure the position of said index; and a holder removably supporting an object lens in said bore, the lens being so positioned that its conjugated foci fall at the index mark and at said adjustable index.

2,422,295

RECORDER FOR RADIO LOCATORS

Thomas T. Eaton, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 30, 1943, Serial No. 500,741
7 Claims. (Cl. 250—1.62)



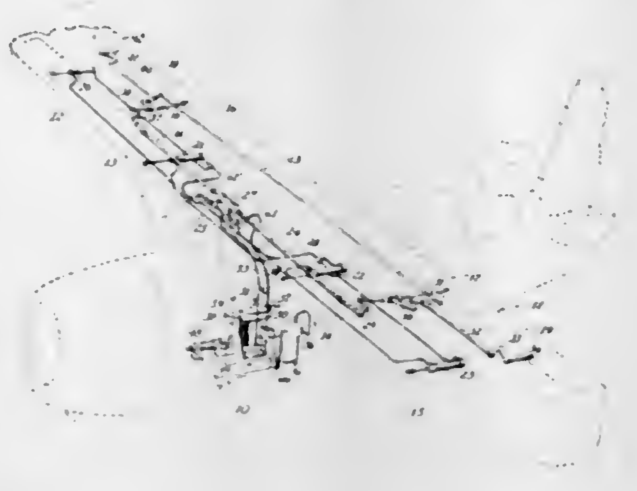
1. In combination, a cathode ray storage tube having a storage screen comprising a multiplicity of capacity elements each capable of storing a charge, means for producing a beam of electrons and directing it against said storage screen, means for causing each of a plurality of successive signal indications to be stored on a certain area of said screen at some point along a distance axis thereon whereby the capacity elements at said points hold charges corresponding to said signal indications, means for deflecting said beam across said certain area in the direction transverse to said distance axis at a fast repetition rate and for deflecting it across said certain area in the direction of said distance axis at a slow repetition rate, the deflection of said fast rate being of sufficient amplitude to deflect the beam beyond at least one edge of each of said certain area whereby an electrical impulse is produced each time the beam is deflected across charged capacity elements and beyond said edge, and whereby groups of said impulses, each group representative of one of said signal indications, may be amplified by an alternating-current amplifier.

2,422,296

SLAT AND FLAP CONTROL SYSTEM

Fredric E. Flader, Kenmore, Frank Lakowitz, Tonawanda, and Frederick Steele, Kenmore, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application August 22, 1941, Serial No. 407,894
4 Claims. (Cl. 244—42)

1. In an aircraft including a wing having an extendible slot-forming slat at its leading edge and a flap pivotally mounted at the wing trailing edge, a fluid motor operable in a first direction for extending said slat in a second direction for retracting said slat, a second fluid motor operable in a first direction for lowering the trailing edge of said flap and in a second direction for raising

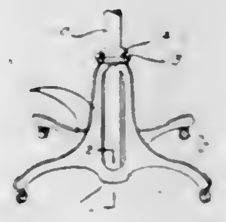


said flap trailing edge, a source of fluid pressure, fluid connections from said source to said motors, unitary means operable to control the direction of operation of both said motors by said fluid pressure, and means in said connections operative when said fluid motors are operated in their respective first directions to enforce, sequentially, operation of said first motor and then operation of said second motor and to enforce the reverse sequence when the motors are operated in their respective second directions.

2,422,297

PEDESTAL STRUCTURE

Samuel H. Frankel, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc., a corporation of Illinois
Application July 12, 1945, Serial No. 604,562
5 Claims. (Cl. 248—194)



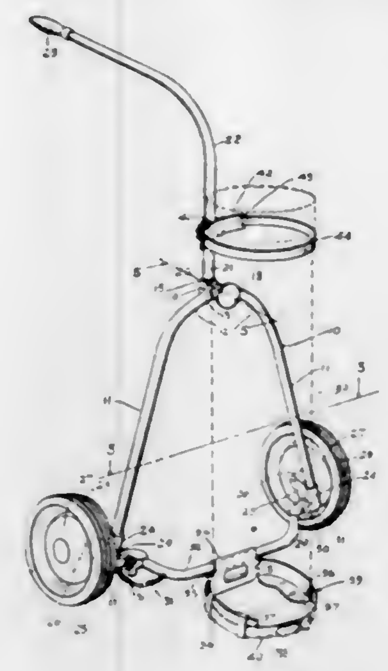
1. In combination in a pedestal structure of the character described, an upright hollow standard, a plurality of substantially L-shaped legs having vertically and horizontally extending portions and disposed with their apexes adjacent the bottom of the pedestal, means connecting the upper portions of the legs together adjacent to the standard, a centrally embossed connector having the embossment secured within the lower end of the standard and providing a horizontal flange projecting laterally from the lower end of the standard, and shoulders at the apexes of the legs secured to said flange.

2,422,298

COLLAPSIBLE GOLF BAG CARRIER

James H. Freis, Chicago, Ill.
Application January 5, 1946, Serial No. 639,266
6 Claims. (Cl. 280—42)

1. A collapsible golf bag carrier comprising a frame including side bars, the upper end portions of which are curved inwardly toward each other with their extremities disposed in overlapping position with respect to each other, mounting brackets having socket elements secured to the lower end portions of said side bars, wheel elements carried by said mounting brackets, a crossbar, means pivotally connecting one end of said crossbar to one of said mounting brackets, means for detachably connecting the opposite end of said crossbar to the other of said mounting brackets, a handle, means for pivotally connecting the handle to the frame adjacent the overlapping portions of said side bars, and means for supporting a golf bag from said handle and from said crossbar.



2,422,299

MANUFACTURE OF CHROME ALLOY STEEL FROM A CHARGE CONTAINING CHROME SCRAP

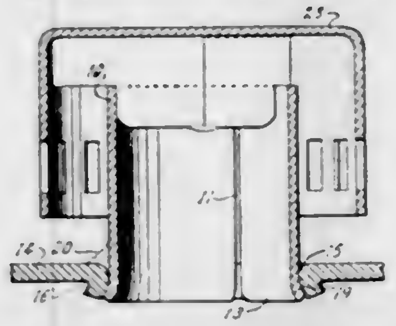
Charles R. Funk, Greensburg, Pa.
No Drawing. Application December 14, 1944, Serial No. 568,196
8 Claims. (Cl. 75—130.5)

1. The method of making chrome steel in a basic open hearth furnace of the regenerative type which consists in charging the furnace with lime-containing material and light chrome steel scrap, partially melting said material and scrap, charging heavy chrome steel scrap, continuing said melting partially melting said heavy scrap, said molten material and scrap forming a slag containing chrome oxide restricting foaming of said slag, charging pig iron low in silicon adding to said slag, said lime-containing material charge being proportioned relative to said other charges so that substantially all of the lime therein is dissolved, said slag being low in volume, low in iron oxide, having a lime to silica ratio at melt-in in said furnace of not less than 1 and having chrome oxide in a reducible form, thereafter working said slag and adding lime-containing material to said slag, said added lime increasing said ratio and thereby the basicity of said slag and the quantity of chrome oxide in a reducible form, said increased ratio being from 1.2–1.9, thereafter adding more lime-containing material to further increase said ratio and adding carbon-containing material, the added carbon and lime effecting deoxidation of said chrome oxide whereby said chrome oxide is reduced to metallic chrome and forced back into the molten metal, and finally tapping said molten metal, at least 70% of the chrome content of said scrap being present in said tapped molten metal.

2,422,300

RISER FOR BUBBLE CAP TRAYS

Hans C. Glitsch, Dallas, Tex., assignor, by mesne assignments, to Glitsch Engineering Company, Dallas, Tex., a partnership
Application May 26, 1945, Serial No. 595,981
3 Claims. (Cl. 261—114)

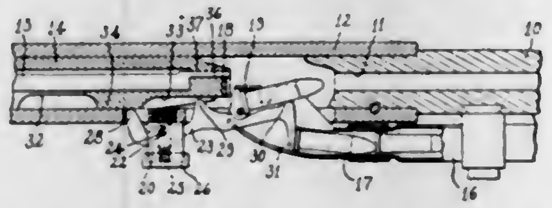


1. The combination of a bubble tray floor having at least one circular opening surrounded by a collar of annular form and having a rounded edge on the inner portion of its annulus, a sheet metal riser member having a vertical gap extending from its top to its bottom, a weld closing said gap from its top downwardly and terminating short of the lower end of the gap, and a split annular skirt at the lower end of the member through which the gap extends, said skirt being expanded outwardly in fluid-tight contact with the rounded annulus.

2,422,301

CARTRIDGE FEEDING MECHANISM FOR REPEATING FIREARMS

Timothy F. Horan, New Haven, Conn.
Application January 12, 1944, Serial No. 517,961
3 Claims. (Cl. 42—17)



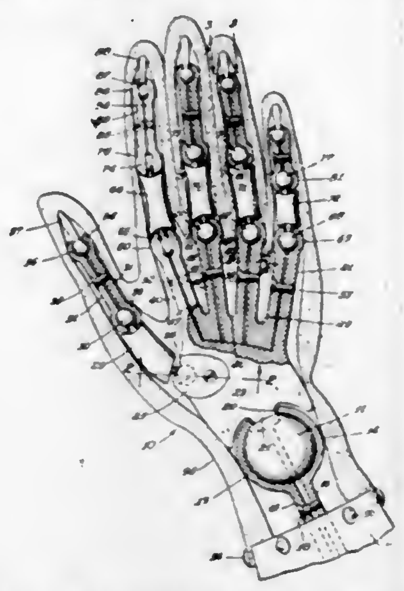
1. A repeating firearm comprising a barrel, a chamber, a receiver, a magazine, a bolt reciprocally mounted in the receiver for closing the chamber, means for transferring a cartridge from the magazine to the receiver for insertion into the chamber comprising a lifter pivoted between its ends on the receiver and having a member thereon rearwardly of its pivot engageable by a part of the bolt during its rearward movement to lift the forward end of the lifter and a cartridge carried thereby, stop means limiting the raising of the cartridge by the lifter, said bolt during its forward movement engaging the cartridge to move it out of engagement with said stop means, said lifter pivot being movable vertically, and a spring acting on said pivot to move it upwardly after the cartridge has been moved from engagement with said stop means to give the cartridge a lifting movement in addition to that imparted by the bolt.

2,422,302

ARTIFICIAL LIMB CONSTRUCTION

Bernard Horn, Chicago, Ill.
Application September 23, 1946, Serial No. 698,743
4 Claims. (Cl. 3—12)

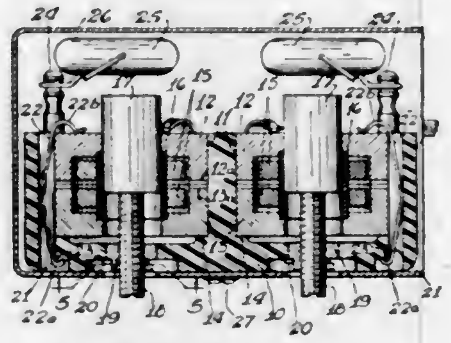
2. In an artificial limb, an articulated construction comprising a rigid link carrying a ball at least at one end thereof, an elongated member in general alignment with said link, said elongated member having two cooperating cupped portions enclosing said ball to form a ball and socket joint, and means for urging said two cupped portions toward each other to grip the ball.



2,422,303

HOLLOW MAGNETIC SHELL ASSEMBLY

Frederick N. Jacob and Martin J. Kirk, Chicago, Ill., assignors to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application January 27, 1945, Serial No. 574,932
6 Claims. (Cl. 175—361)



1. In an inductance unit assembly, the combination of a mounting member having a bore therein open at its upper end and restricted at its lower end by an extension from said mounting member into said bore forming a supporting seat, a multi-part ferromagnetic shell in said bore, said shell having a cavity for containing an inductance coil, and springs means engaging said mounting member and also said shell and pressing the parts of said shell against each other and also pressing said shell against said seat, said spring means including angularly spaced clamping springs pressing downwardly against the upper end of said shell and also pressing upwardly on said mounting member below said seat, said mounting member having grooves opening into said bore and containing said clamping springs.

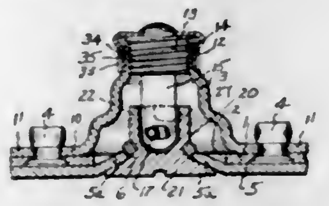
2,422,304

ROTARY OPERATIVE FASTENER AND INSTALLATION THEREFOR

Frank E. Johnson, Malden, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 3, 1943, Serial No. 493,478
12 Claims. (Cl. 24—221)

6. A rotary operative fastener adapted for connecting an apertured support and an apertured part to be attached thereto comprising a nut

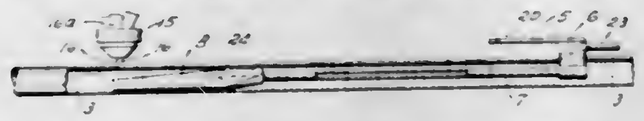
member having a threaded barrel portion in one portion thereof, a screw member mounted in said barrel in threaded engagement therewith and capable of at least one complete rotation therein, and a rotary member adapted to be detachably coupled with said screw member to effect rotation of said screw member and axial movement thereof in said nut according to the thickness of the support and part to be supported therein to clamp said parts together.



2,422,305

METHOD OF PROGRESSIVELY WELDING AXIALLY MOVING TUBING

Walter Kopec, Cleveland, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application October 24, 1942, Serial No. 463,271
1 Claim. (Cl. 219—10)

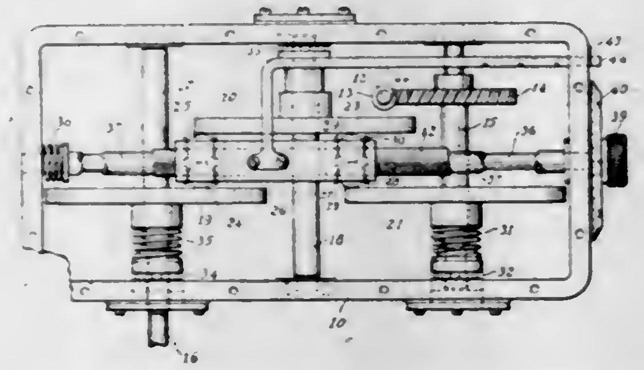


In an electric process of progressively welding together the longitudinal edges of an axial moving tube blank, the steps of positioning in the blank a short distance in advance of the point of welding an obstruction which substantially completely fills the blank, delivering sufficient hydrogen gas under pressure into the blank between the obstruction and point of welding to result in flow of the gas out of the blank between the unwelded edges between said obstruction and said point of welding and also lengthwise of the blank, and directing the lengthwise flow of the gas in the blank in the direction of travel of the blank and along lines generally parallel to the axis of the blank.

2,422,306

VARIABLE SPEED MECHANISM

Gordon F. Laing, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application July 28, 1944, Serial No. 547,041
9 Claims. (Cl. 74—198)

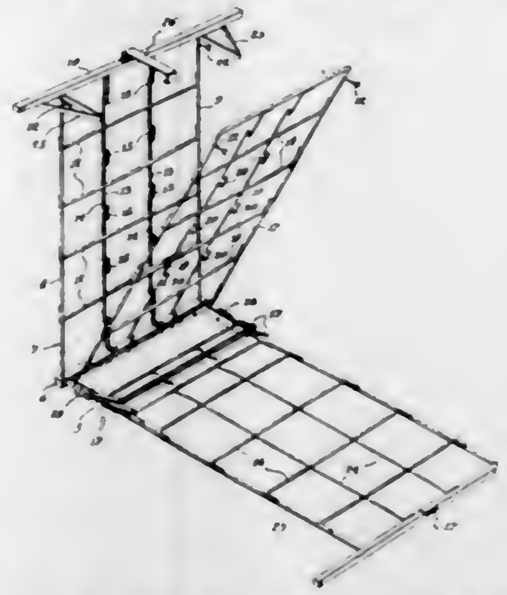


1. In a variable speed mechanism, three discs, means supporting said discs for rotation with the second disc overlapping the first and third discs, two serially related balls coupling the first and second discs, two serially related balls coupling the second and third discs, and means for simultaneously moving both sets of balls to change the ratio of coupling, said last means including a support adapted to maintain said sets of balls a fixed distance apart on a diameter of the second disc.

2,422,307

MULTIPLE PROCESSING FRAME

Dave Mako, Catonsville, and Robert H. George, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 25, 1944, Serial No. 523,844
3 Claims. (Cl. 95—100)

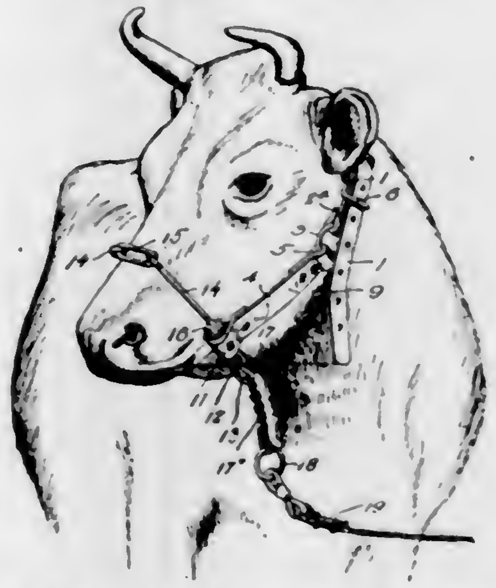


1. A film holder for supporting a plurality of films comprising a base member, a series of frame members carried by said base in superimposed spaced relation to each other, and a plurality of rods carried by said frame members, some of said rods being bent upon themselves and then forward and uniting with a correspondingly bent portion of the adjacent section and aligning with similarly kinked portions of other of said rods to form rows of duplicate spaced kinked projections across the surface of said frames and having a spacing between rows slightly less than the film width for retaining films therebetween by engaging the edges thereof upon a slight bowing of said films.

2,422,308

HALTER

Henry Masbruch, Platteville, Wis.
Application April 16, 1946, Serial No. 662,505
2 Claims. (Cl. 54—24)



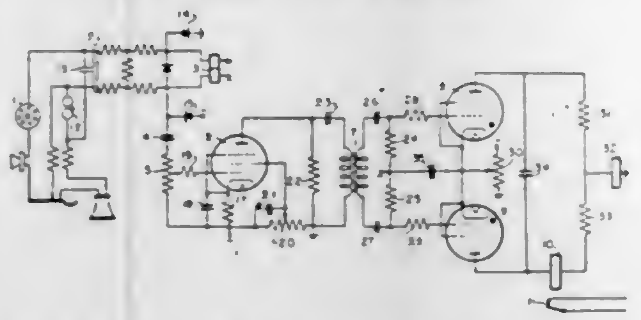
1. In a halter for controlling unruly animals, the combination of an adjustable head strap,

cheek straps connected to the head strap, a throat chain also connected to the head strap, a chin chain having its central portion operatively connected to the throat chain, side nose links, a central nose link connected to each of the side nose links, a link through which the chin chain freely passes, said chin chain being of sufficient length to have a depending end portion and carrying a ring to which a conventional halter strap may be detachably engaged, whereby increased tension on the chin chain will tighten the nose links and enable the person leading an unruly animal to control the animal.

2,422,309

DISTORTION CORRECTING IMPULSE REPEATER

Harold J. McCreary, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application March 10, 1945, Serial No. 581,984
9 Claims. (Cl. 179—16)

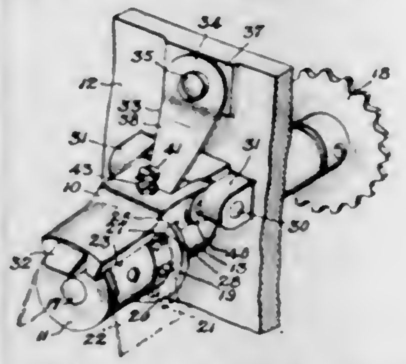


1. In a signaling system, an impulsing circuit including an interrupting device, a line, an impedance, and a source of potential, a pair of gaseous discharge tubes each having an anode, a cathode, and a control electrode, means responsive to a decrease in the voltage across the impedance for initiating a discharge between the cathode and control electrode of one of said tubes and responsive to an increase in the voltage across the impedance for initiating a discharge between the control electrode and cathode of the other of said tubes whereby one tube is fired at the instant that the interrupting device opens said impulsing circuit and the other tube is fired at the instant that the interrupting device closes said impulsing circuit, and means in the anode circuits of said tubes for extinguishing either tube in response to the firing of the alternate tube.

2,422,310

FILM SHOE

Otto R. Nemeth, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc., a corporation of Illinois
Application May 22, 1944, Serial No. 536,726
4 Claims. (Cl. 271—2.3)

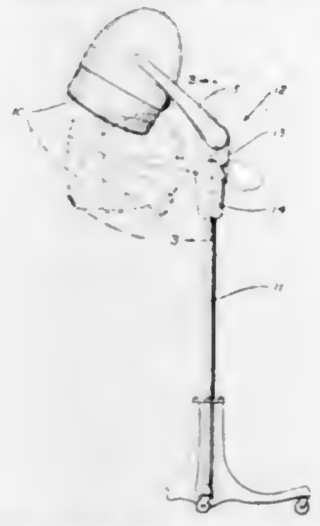


1. In combination in a film shoe construction, a film shoe body including means for cooperation with a film sprocket to hold a film strip in place upon the sprocket, means for hingedly mounting the shoe for swinging into and out of operative positions relative to the film sprocket, an opening in said body adjacent to said hinge means, an elongated leaf spring adapted to be mounted adjacent to the hinge mounting of the shoe and having a tension leg adapted to extend into said opening, and means in said opening providing a bearing for said tension leg to receive resilient thrust therefrom operative to hold the shoe in open or closed position when the shoe is selectively moved into either of said positions.

2,422,311

ADJUSTABLE HAIR DRIER

Otto R. Nemeth, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc., a corporation of Illinois
Application July 14, 1945, Serial No. 605,057
5 Claims. (Cl. 248—123)

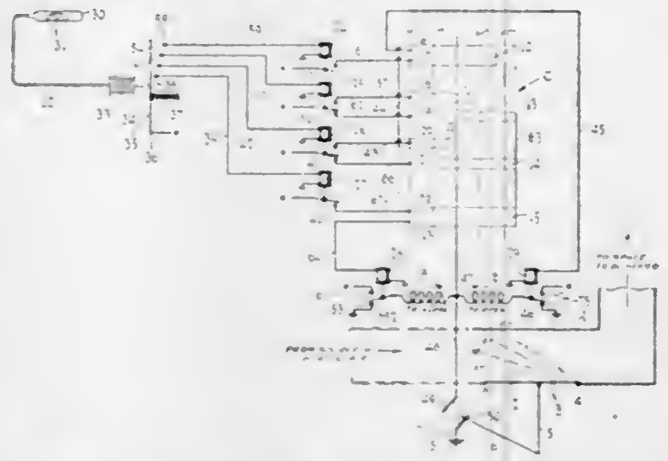


1. In combination in a hair drier of the character described, a drier head, a support, a link structure pivoted about a horizontal axis to said support, an arm carrying said head and pivoted about a second horizontal axis to said link, a train of gears associated with said link structure and arranged to constrain the movement of said head in a path parallel to the axis of said support.

2,422,312

DAMPER CONTROL

Robert J. Parsons, Schenectady, N. Y., assignor to Consolidated Car Heating Company, Inc., Albany, N. Y., a corporation of New York
Application August 19, 1944, Serial No. 550,206
1 Claim. (Cl. 236—76)



In a heating system, including, in combination: means responsive to the temperature in the space to be heated; means for supplying heated fluid; a duct between said second-named means and the space to be heated, said duct provided with an intermediate by-pass opening; a damper adapted to close and open said by-pass and open or close said duct; a rotary electric motor having an opening field coil and a closing field coil; a linkage between said motor and said damper whereby the damper may be operated to close or open said by-pass; a commutator provided with contact fingers and metallic strips also connected to said motor and operable synchronously with said damper; two motor relays each having front and back electrical contacts and each having an armature, the armature of one relay connected to the opening coil and the armature of the other relay connected to the closing coil; a plurality of operating electrical contacts and a pivoted contact lever, said electrical contacts positioned to be contacted successively as said contact lever is oscillated in one direction and to be disengaged as said contact lever is oscillated in an opposite direction, said pivoted lever connected to and operated by said first-named means; a governing relay associated with each operating electrical contact, each governing relay provided with an armature and the relays connected to the extreme points having one a front electrical contact only and the other a back electrical contact only, the other relays each having both front and back electrical contacts; electric circuits connecting said operating electrical contacts and said governing relays, whereby said relays are successively operated by said first-named means; electric circuits connecting the front and back electrical contacts of said governing relays, said commutator strips and contact fingers and said motor relays whereby the motor relays are operated; and electric circuits connecting the armatures and the front and back electrical contacts of said motor relays and said opening and closing field coils of said motor so that when the armature of one motor relay is up and the other down current will flow in said motor coils in one direction and when the armature of the one motor relay is down and the other up current will flow in said motor coils in an opposite direction whereby said motor is operated in reverse directions whereby the damper is operated to different positions between open and closed positions and means for supplying electrical energy to all of said circuits.

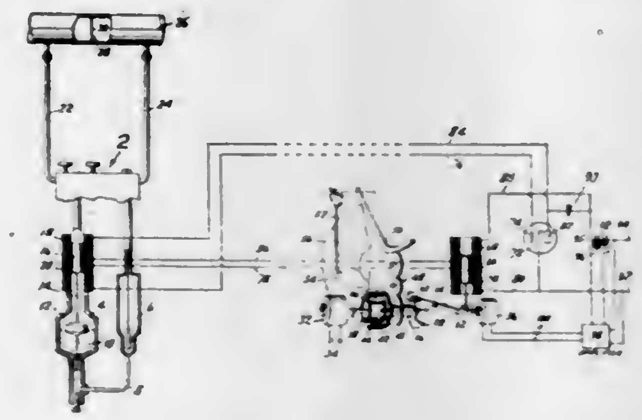
2,422,313

TELEMETERING SYSTEM

Joseph Razek, Llanerch, Pa., assignor, by mesne assignments, to H S B Corporation, a corporation of Pennsylvania

Application February 18, 1944, Serial No. 522,915

6 Claims. (Cl. 177—351)



1. In combination, indicating means, a pair of electric motors, means connecting both of said motors to the indicating means to effect movements of the indicating means in accordance with variations in the relative speeds of said motors, means for generating alternating current, means connecting said generating means with one of said motors, the motor operating at variable speed dependent upon the frequency of current produced by the generating means, a transmitting device for varying the frequency generated by the generating means, and means connected to said indicating means and comprising a variable impedance in the circuit of said generating means for varying the frequency generated by the generating means, the other of said motors being arranged to operate at substantially constant speed.

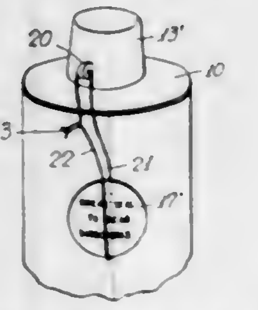
2,422,314

COMBINATION BOTTLE AND BOOKLET PACKAGE

Robert I. Rheinstrom, New York, N. Y., assignor to Hirestra Laboratories, Inc., a corporation of New York

Application October 4, 1944, Serial No. 557,080

1 Claim. (Cl. 206—47)



A package comprising a bottle having a cylindrical wall, an upstanding neck and a removable screw cap thereon, a multiply descriptive circular about said cylindrical wall having the representation of a label at the front thereof with its upright edges terminating adjacent one another at the rear thereof and a wafer at the rear thereof connecting said edges of the outer ply of said circular, said cap having a lateral eye, a closed filament loop therethrough diametrically straddling said wafer adjacent said edges and parallel therewith, with one length thereunder and one length thereover, whereby in unscrewing the cap the wafer becomes severed and the descriptive circular removed.

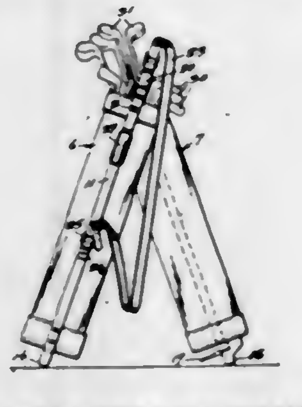
2,422,315

SUPPORTING FRAME FOR TWIN GOLF BAGS

Albert P. Robinson, Seattle, Wash.

Application October 9, 1944, Serial No. 557,845

4 Claims. (Cl. 150—1.5)



1. A golf-bag structure comprising, in combination: a U-frame presenting upstanding legs arranged to occupy fore-and-aft positions and with the connecting cross-arm of the U lying at the bottom; and twin bags received in tandem between said legs, one of said bags being anchored to the frame and the other pivotally hung therefrom for outward swinging movement from and into a normal in-line position with the anchored bag.

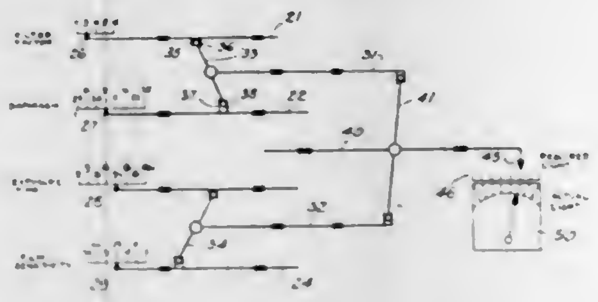
2,422,316

COMPUTING DEVICE FOR PHOTOGRAPHIC CAMERAS

Alfred Simmon, Jackson Heights, N. Y., assignor to Simmon Brothers, Inc., Long Island City, N. Y., a corporation of New York

Original application May 25, 1945, Serial No. 595,702, now Patent No. 2,418,370, dated April 1, 1947. Divided and this application March 29, 1946, Serial No. 657,990

1 Claim. (Cl. 235—64.7)



A device to compute the light intensity required for a correctly exposed picture in a photographic camera from a given set of values for the filter factor, diaphragm opening, shutter controlled exposure time and film sensitivity, respectively, said device comprising a supporting structure and four slides, said slides movable individually and independently along straight and parallel lines, each of said slides having a mark, a stationary scale on said structure for each of said slides and cooperating with the mark of its slide, the first of said scales calibrated in logarithmically spaced values of filter factors, the second of said scales calibrated in values of the ratio of the focal length of the camera lens divided by the effective diaphragm diameter of said lens, the spacing of said values being in proportion to the logarithms of their squares, the indicated values of both scales increasing in the same direction, the third of said scales calibrated in logarithmically spaced values of the exposure time of the camera shutter, and the fourth of said scales calibrated in logarithmically spaced values of the film sensitivity, the indicated values of said last two scales increasing in the opposite direction to that of the first two scales, each of said slides equipped with a gear rack, the racks of one pair of slides facing each other, and racks of the other pair of slides facing each other, a gear between the racks of the first pair and in mesh with both, a fifth slide, said gear mounted rotatably upon said fifth slide, a second gear between the racks of the second pair and in mesh with both, a sixth slide, said second gear mounted rotatably upon said sixth slide, said fifth and sixth slides movable along straight lines parallel to the lines of movement of the first four slides, and each equipped with a gear rack, said racks facing each other, a third gear between the racks of said fifth and sixth slides and in mesh with both, a seventh slide, said third gear mounted rotatably upon said seventh slide, said seventh slide movable along a straight line parallel to the movement of all other slides, and a mark on said seventh slide cooperating with a stationary scale on said stricture calibrated in logarithmically spaced values of required light intensities.

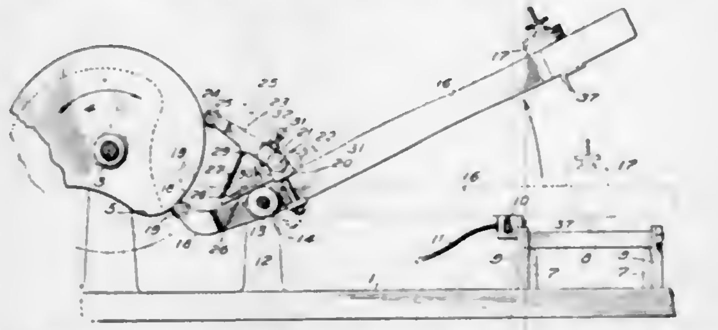
2,422,317

MEANS FOR IMPACT TESTING

Charles R. Stock, Greenwich, and Vincent C. Taxwood, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application October 4, 1944, Serial No. 557,184

2 Claims. (Cl. 73—12)



1. An impact testing device including a hammer arm pivoted intermediate its ends to form a long hammer portion and a short portion, means to depress the short portion of the arm and to release the arm when depressed to a predetermined degree, means to hold a test piece to receive the impact of the hammer when the hammer arm is released, and damping means to prevent vibration of the hammer arm after rebound in which the depressing means is a rotatable cam engageable with the short portion of the hammer arm to depress the same, the cam having a cut-away portion to clear the same when the hammer portion falls and means to rotate the cam and the damping means includes a damping arm carried by the hammer arm and engageable with the cam when the hammer arm is engaged by the leading edge of the cam.

2,422,318

PRODUCTION OF AROMATIC COMPOUNDS

Murray Gray Sturrock and Thomas Lawe, Montreal, Quebec, Canada, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada

No Drawing. Application August 21, 1945, Serial No. 611,910

10 Claims. (Cl. 260—668)

1. A process of producing a plurality of aromatic compounds which comprises heating a paraffin having at least two carbon atoms and having two aryl substituents attached to one of said carbon atoms at a temperature which will cause said paraffin to decompose into a plurality of aromatic compounds in the presence of a catalyst and which is at least 350° C. in the presence of a metal silicate, which metal is in Group IV (*a*) of Mendeleeff's Periodic Table.

2,422,319

ENGINE STARTER

Glenn S. Thompson, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application May 4, 1945, Serial No. 591,921

11 Claims. (Cl. 74—7)

1. In an engine starter of the type having a pinion propelled along a power shaft into and out of mesh with an engine gear by relative rotation between screw threaded parts on the pinion and an actuator for the pinion slidably mounted on the power shaft, a driving connection between the power shaft and actuator comprising: a collar fixed on the power shaft and having circumferentially spaced longitudinal grooves in its bore; drive fingers projecting axially from the actuator and received within said grooves in the

provided with an intermediate by-pass opening; a damper adapted to close and open said by-pass and open or close said duct; a rotary electric motor having an opening field coil and a closing field coil; a linkage between said motor and said damper whereby the damper may be operated to close or open said by-pass; a commutator provided with contact fingers and metallic strips also connected to said motor and operable synchronously with said damper; two motor relays each having front and back electrical contacts and each having an armature, the armature of one relay connected to the opening coil and the armature of the other relay connected to the closing coil; a plurality of operating electrical contacts and a pivoted contact lever, said electrical contacts positioned to be contacted successively as said contact lever is oscillated in one direction and to be disengaged as said contact lever is oscillated in an opposite direction, said pivoted lever connected to and operated by said first-named means; a governing relay associated with each operating electrical contact, each governing relay provided with an armature and the relays connected to the extreme points having one a front electrical contact only and the other a back electrical contact only, the other relays each having both front and back electrical contacts; electric circuits connecting said operating electrical contacts and said governing relays, whereby said relays are successively operated by said first-named means; electric circuits connecting the front and back electrical contacts of said governing relays, said commutator strips and contact fingers and said motor relays whereby the motor relays are operated; and electric circuits connecting the armatures and the front and back electrical contacts of said motor relays and said opening and closing field coils of said motor so that when the armature of one motor relay is up and the other down current will flow in said motor coils in one direction and when the armature of the one motor relay is down and the other up current will flow in said motor coils in an opposite direction whereby said motor is operated in reverse directions whereby the damper is operated to different positions between open and closed positions and means for supplying electrical energy to all of said circuits.

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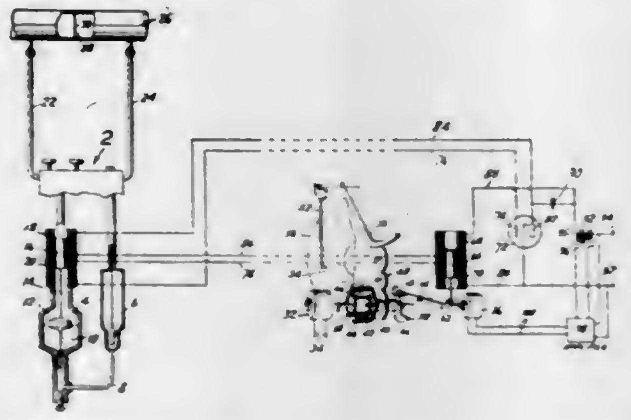

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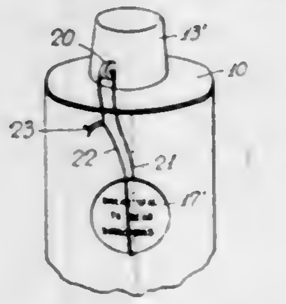

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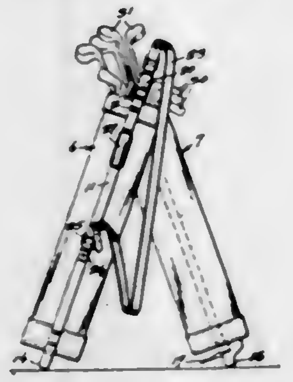

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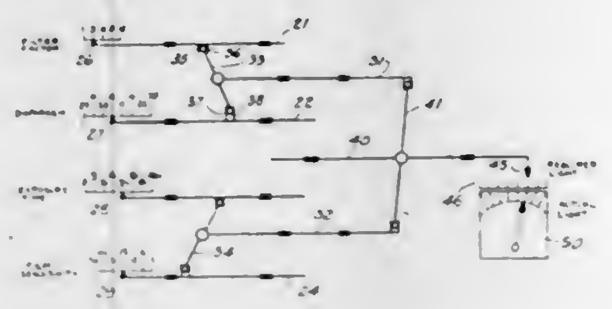

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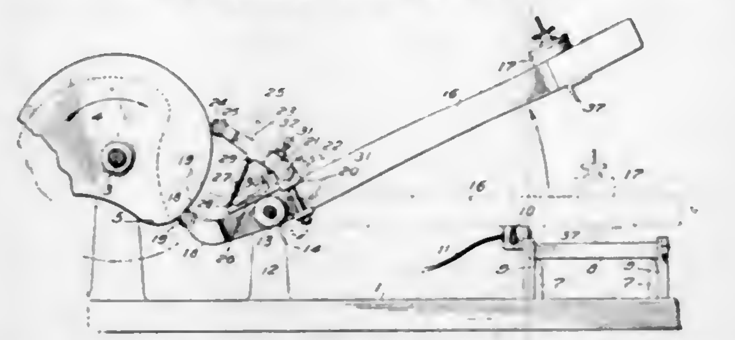

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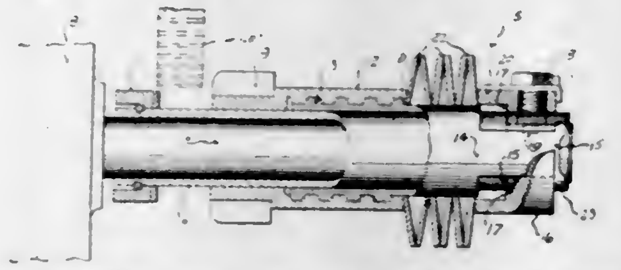
1. In an engine starter of the type having a pinion propelled along a power shaft into and out of mesh with an engine gear by relative rotation between screw threaded parts on the pinion and an actuator for the pinion slidably mounted on the power shaft, a driving connection between the power shaft and actuator comprising: a collar fixed on the power shaft and having circumferentially spaced longitudinal grooves in its bore; drive fingers projecting axially from the actuator and received within said grooves in the

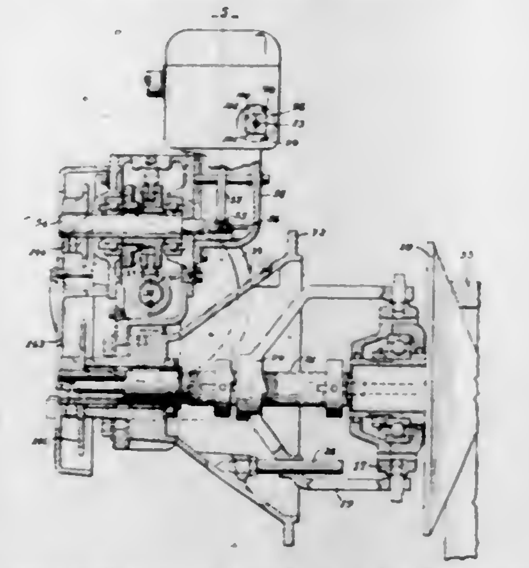
bore of the collar to provide a splined driving connection between the actuator and the collar permitting a degree of axial movement of the actuator toward the collar in response to end thrust developed as the starter picks up the load of the engine; and resilient cushioning means encircling the actuator wholly to one side of said splined driving connection and reacting between the actuator and collar to yieldingly resist said thrust of the actuator during operation of the starter.



2,422,320

PRESET CONTROL

Walter H. Troemel, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application April 1, 1944, Serial No. 529,199
12 Claims. (Cl. 192—2)



1. In combination, a housing, a shaft journalled in said housing and carrying a pinion therein, a carriage journalled on said shaft within said housing, a ring gear carried by said carriage, means operatively connected to said carriage for shifting the same, a carrier journalled on said shaft within said housing, a planet gear meshing with said pinion and with said ring gear, means providing an operative connection between said planet gear and said carrier, a cam mounted on said carrier, two switches, an element positioned between said switches and movable oppositely to actuate said switches alternatively, said cam being movable in opposite directions to produce movement of said element in opposite directions.

2,422,321

METHOD OF MAKING NITROGENATED CEPHALIN

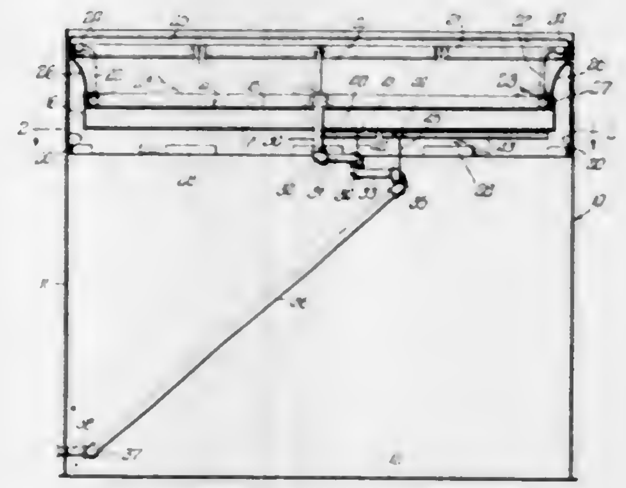
Edward Trueger, Roselle, N. J., and Basil Sheldon Sprague, Brooklyn, N. Y., assignors to American Lecithin Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application December 4, 1943, Serial No. 512,970
3 Claims. (Cl. 260—403)

1. The herein described process which comprises the steps of reacting a cephalin-containing vegetable phosphatide with 2-nitrobutanol-1 at a temperature between about 130° C. and about 170° C., and recovering the acetone soluble reaction product.

2,422,322

FLEXIBLE DRAIN FOR FLOATING ROOFS

Reign C. Ulm, East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind., a corporation of Delaware
Application September 14, 1944, Serial No. 554,046
4 Claims. (Cl. 220—26)



1. The combination with a floating roof for a liquid storage tank, of a flexible drain therefor including a drain pipe extending substantially vertically through the floating roof and fixed thereto and depending below the bottom thereof, one section of said flexible drain having a swivel connection with said drain pipe so that the section has horizontal rotary movement about the drain pipe as a center, another section having a swivel connection with an outlet pipe for said tank so as to move in a vertical plane as the floating roof moves vertically, and a third section connecting said first mentioned section with the second mentioned section, said third section of the flexible drain having horizontal bodily movement as the floating roof moves vertically.

2,422,323

METHOD OF PRODUCING SHEETS AND THE PRODUCTS OBTAINED

Edwin G. Waltman, Steubenville, Ohio, assignor to National Steel Corporation, a corporation of Delaware
Application November 24, 1944, Serial No. 565,055
7 Claims. (Cl. 18—47.5)

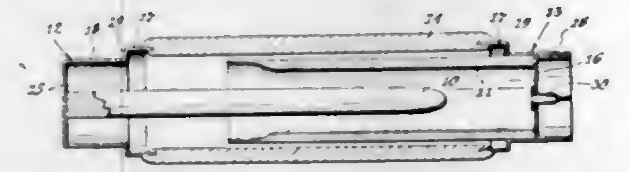
1. The method of producing relatively thin sheets from a relatively thick, solid body of silver chloride comprising the steps of converting a surface layer of silver chloride to a film of metallic silver; and thereafter reducing the thickness of said body to form such a sheet.

4. A silver chloride foil comprising an outer film of metallic silver and a solid body portion of silver chloride, the overall thickness of said foil being not more than 0.003 inch.

2,422,324

SPARK GAP DEVICE

Ward W. Watrous, Jr., Chatham, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 10, 1944, Serial No. 521,807
6 Claims. (Cl. 250—27.5)

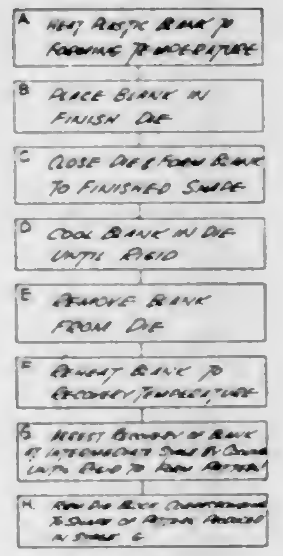


1. A spark gap device comprising opposite end caps of which one has an integral outer end wall and of which the other has a header closing the outer end thereof, a hollow cylindrical electrode secured to the same cap having said header, a rod-like electrode secured to the said end wall integral with the other cap, said rod-like electrode being rigid and projecting coaxially into said hollow cylindrical electrode, said cap to which the cylindrical electrode is secured providing a cylindrical flange of greater diameter than said cylindrical electrode coaxial therewith and directed toward the other cap, said other cap having a like cylindrical flange directed toward the first said flange, and an insulating sleeve interposed between and sealed at its opposite ends to the ends of said flanges which are directed toward each other, said sleeve being coaxial to and surrounding both electrodes.

2,422,325

METHOD OF MAKING PATTERNS AND FORGING DIES

Orville A. Wheelon, Pacific Palisades, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application July 31, 1943, Serial No. 497,147
13 Claims. (Cl. 76—107)


A HEAT PLASTIC BLANK TO FORMING TEMPERATURE
B PLACE BLANK IN FINISH DIE
C CLOSE DIE & FORM BLANK TO FINISHED SHAPE
D COOL BLANK IN DIE UNTIL RIGID
E REMOVE BLANK FROM DIE
F REHEAT BLANK TO RECOVERY TEMPERATURE
G
H

1. A method of forming a blocking die to be used with at least a finish die to progressively form a metal workpiece comprising in combination the steps of: heating a homogeneous blank of plastic material having an initial shape substantially the same as a metal work piece to be formed, said material having a high degree of deformability within its elastic limit with a high degree of recovery of its original form at a relatively higher temperature range, and having a high degree of rigidity at a temperature range lower than said higher temperature range, to a temperature in said higher range; placing said blank of heated plastic in a die corresponding to the finished shape of said work-piece; closing said die and applying pressure thereto to form the plastic material to the shape of the desired workpiece; cooling the formed plastic material until it assumes a rigid condition; removing the cooled plastic part and heating it sufficiently to enable it to gradually recover, while substantially unconstrained toward its original form; cooling the plastic part when the recovery has brought about a transition such that the relative displacement of the metal of the workpiece necessary to form the workpiece from the shape of the part in the arrested recovery to the finish shape could be produced by a properly formed finish die; forming a forging contour on at least one die block corresponding in shape to a portion of the partially recovered plastic part; reheating said plastic part while substantially unconstrained; cooling the reheated part when the recovery has again brought about a change in shape such that the transition to the shape of the part at its first arrested return could be produced in the metal workpiece by a properly formed die; and forming a forging contour on at least one die block corresponding in shape to the part in the second arrested stage of its recovery.

2,422,326

VARYING LEVERAGE GEAR

Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application August 2, 1945, Serial No. 608,571
11 Claims. (Cl. 74—462)

1. A varying leverage gear whose tooth profiles comprise one curve for the main portion of the tooth height and a different curve adjacent the tips of the teeth, in which the main portion of each tooth profile has a varying radius of curvature and the top portion of each tooth profile is of approximately circular arcuate shape.

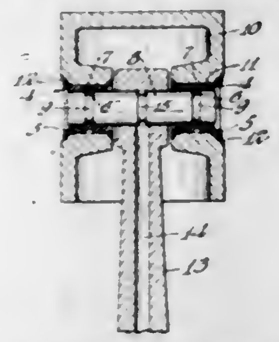
2,422,327

RESILIENT PISTON PIN BUSHING

William B. Winslow, Chicago, Ill., assignor to Allen Trask, Chicago, Ill.
Application June 10, 1944, Serial No. 539,656
6 Claims. (Cl. 309—18)

1. A cushioning device for use with a reciprocating piston adapted to operate in a cylinder, a connecting rod and a piston pin, wherein the piston is provided with a piston pin aperture having flared ends, comprising a yieldable bushing adapted to fit between said piston pin and said

piston and in said opening, said bushing having outwardly flared end portions adapted to fit the



contour of said opening in said piston to prevent movement of said bushing relative to said piston.

2,422,328
GLUCOSIDES AS PLASTICIZERS FOR WATER-SOLUBLE ANIMAL AND VEGETABLE ADHESIVES

Harland H. Young, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application July 16, 1942, Serial No. 451,229

7 Claims. (Cl. 106—126)

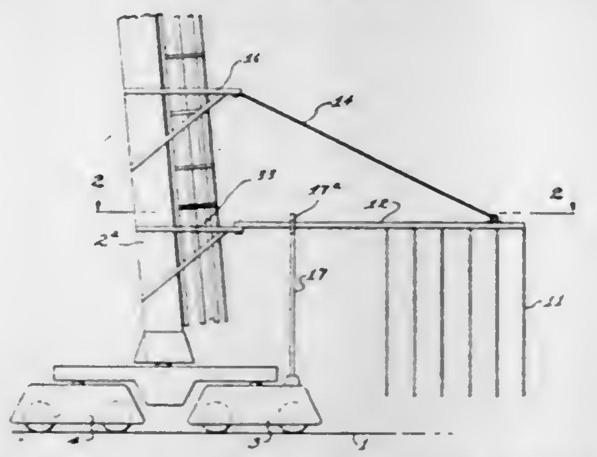
1. An adhesive composition of matter comprising an adhesive selected from the group consisting of water soluble animal and vegetable adhesives and a glucoside of glucose and a primary alcohol containing from two up to about eight carbon atoms, said glucoside being present in sufficient amount to plasticize the adhesive in the composition.

2,422,329
SAFETY MEANS FOR CRANES

Louis Alfano, Los Angeles, Calif.

Application September 25, 1945, Serial No. 618,559

18 Claims. (Cl. 212—1)



1. In a safety means for travelling cranes, the combination with a crane structure, of a plurality of warning flexible fingers carried by and extending from the structure, said fingers comprising springs secured at one end to the structure and each having a yieldable covering.

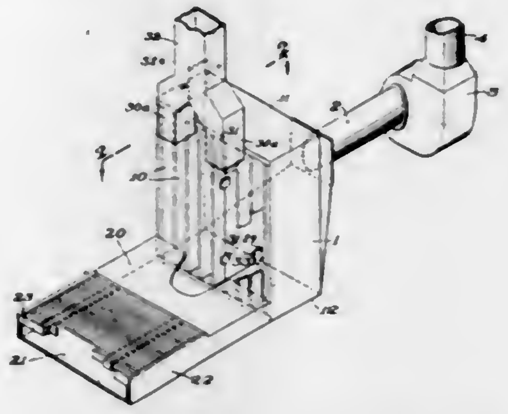
2,422,330
DUST PREVENTING DEVICE FOR PACKAGING SUBDIVIDED MATERIALS

Joseph M. Allerdice, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application January 17, 1945, Serial No. 573,252

4 Claims. (Cl. 226—47)

1. In a packaging device, an air exhaust means and a header connected thereto; said header having one upright side provided with a grill, a loading platform having a perforate part and an imperforate part forming a top member of a horizontally disposed ventilating flue which connects with said header through said grill, upright side members forming the opposite upright walls of said flue and providing supports for said platform, the imperforate part of said platform having an inner edge abutting said grill and an outer edge adjoining the perforate part of the platform, said imperforate part of the platform being proportioned for providing a rest for packages to be filled and for permitting an air current over a portion of its surface toward its outer edge and through said flue, and an air current directly into said header from the remainder of its surface, and means terminating above said imperforate part of the platform for delivering material to be packaged.

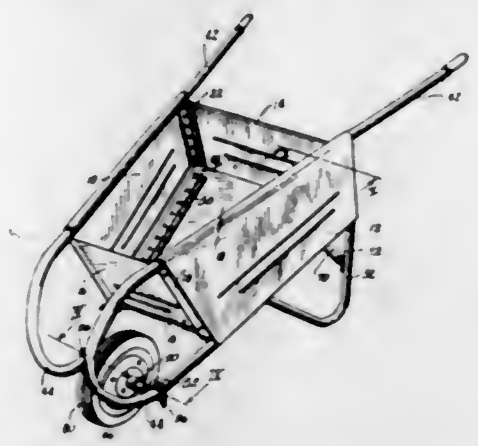


2,422,331
COLLAPSIBLE WHEELBARROW

Charles H. Bates, Independence, Mo., assignor to Wilcox Electric Co., Kansas City, Mo., a corporation of Missouri

Application March 25, 1946, Serial No. 656,924

10 Claims. (Cl. 280—42)



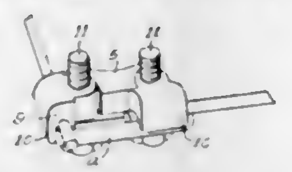
1. A wheel barrow of the kind described comprising a body formed of a pair of side walls, a pair of end walls and a bottom wall; handles extending outwardly from the side walls at one end thereof; brackets extending outwardly from the opposite end of the side walls; and a wheel assembly mounted on the brackets, said end walls and the said bottom wall being hinged to one of the side walls for movement into substantially parallel relation therewith, said wheel assembly being collapsible permitting movement of the side walls together after the end walls and the bottom wall have been swung into parallel relation with the one side wall.

2,422,332
CONNECTOR

Stephen P. Becker, Poughkeepsie, N. Y.

Application March 6, 1944, Serial No. 525,196

7 Claims. (Cl. 24—81)



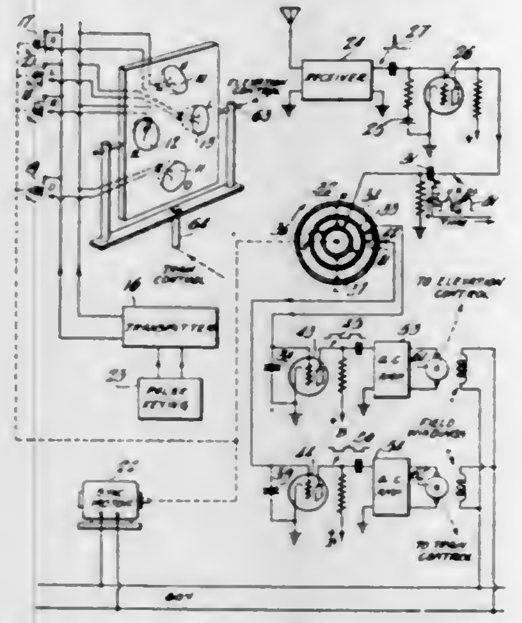
1. In a wire connector, the combination of a body comprising a base with a long groove adjacent to and parallel with one side, a short groove adjacent to and parallel with each end, two round holes therethrough, one adjacent each intersection of a short with the long groove and being tangent to the inner sides of the grooves and a T-shaped projection from the top of the base, having its stem between the two holes with its foot closely adjacent the inner side of the long groove and the two ends of its top closely adjacent the inner sides of the portions of the two short grooves distant from the long groove, the junction of each end of the top with the stem being a quarter circle forming a continuation of one-quarter of the adjacent one of the two round holes with two clamping members, each clamping member consisting of a round stem slightly smaller than the holes in the base, and having a screw threaded hole therethrough, a head extending outward from one side of the stem and a tongue extending from the head parallel with the stem and slightly farther therefrom than the distance from a hole in the base across a groove to an end or the side of the base, each of said members being thereby adapted to have its stem enter one of the round holes in the base and its head extend across either one of the grooves adjacent the hole, and two screws of a size to pass through the holes in the base and cooperate with threaded holes in the clamping members to move said members toward the base.

2,422,333
PULSE-ECHO CONTROL SYSTEM

Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 19, 1942, Serial No. 462,644

12 Claims. (Cl. 250—1.54)



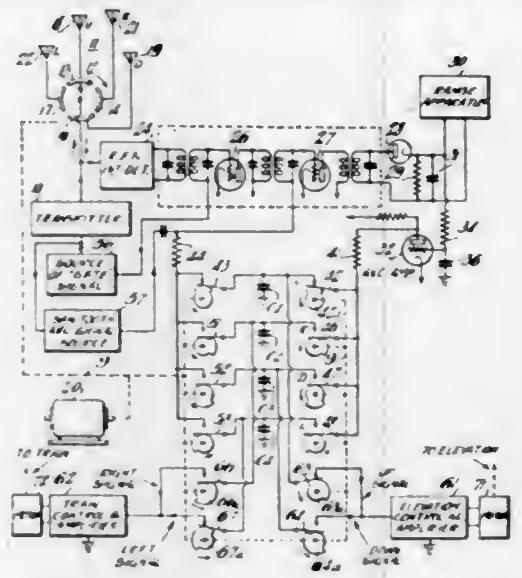
4. In a radio pulse echo system, a pair of directive antennas having overlapping radiation patterns, a radio pulse transmitter, means for switching said antennas successively to said transmitter whereby pulses are radiated to a reflecting object, a receiver for receiving pulses reflected from said object, a capacitor, switching means for successively applying said received pulses to said capacitor for producing a square wave voltage thereacross, an alternating current motor of the type that reverses when the alternating current supplied thereto is reversed in phase, means for amplifying the fundamental frequency component of said square wave voltage, and means for driving said motor by said amplified voltage.

2,422,334
AUTOMATIC GAIN CONTROL FOR PULSE-ECHO SYSTEMS

Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 23, 1943, Serial No. 473,411

7 Claims. (Cl. 250—1.54)



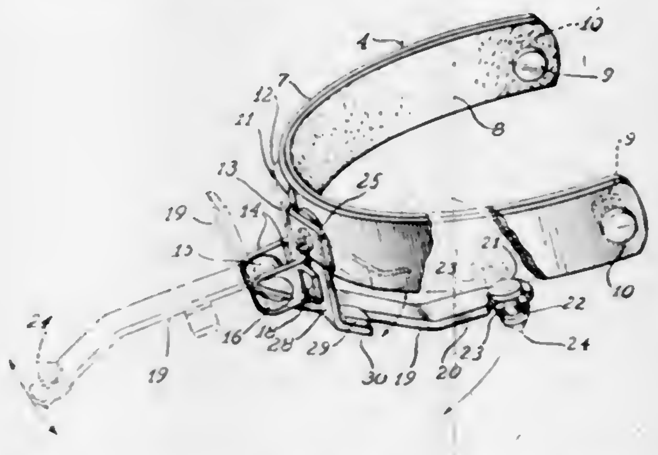
1. An object locating system including means for receiving successively in two directions, an automatic gain control circuit which includes a pair of capacitors and means for charging said capacitors in accordance with the amplitude or intensity of the signals received from said directions, respectively, and means for controlling the gain of said receiving means successively in accordance with the charges on said capacitors.

2,422,335
ICE CREEPER

Maurice Bozek, Chicago, Ill.

Application August 3, 1946, Serial No. 688,296

4 Claims. (Cl. 36—61)



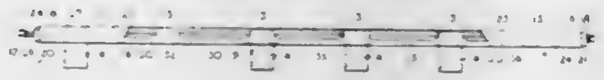
4. An ice creeper of the character described comprising, a horse-shoe shaped element secur-

able to a shoe or the like, a depending bearing element secured to the said horse-shoe shaped element, a gripper retainer element pivotally secured to the said bearing element, a keen gripper element interchangeably and removably secured to the said gripper retainer element, the said gripper retainer element being constructed and arranged to assume a horizontal operative position, and a vertical inoperative position when swung through an ambit of 270°, the said bearing element being provided with a tab portion at its top, the said gripper retainer element being provided with an extension at its side, and locking means pivotally secured to the said tab portion and having a bent portion adapted to engage the said extension to secure the said gripper retainer element in operative position, the said bearing element being also provided with a steadying lug in juxtaposition to the said tab portion to reenforce the said locking means in operative position preventing accidental unlocking of the said gripper retainer element.

2,422,336

ELECTRICAL DISTRIBUTION SYSTEM

John Ernest Percival Burge, Coventry, England, assignor to Humber Limited, Stokes, Coventry, England
Application March 1, 1946, Serial No. 651,140
In Great Britain May 7, 1945
4 Claims. (Cl. 173—334.1)



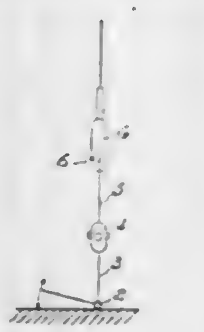
1. For an electrical distribution system which includes a plurality of sections connected together, a section comprising a plurality of busbars, a plurality of insulating blocks supporting said busbars in laterally-spaced relationship, said insulating blocks being spaced from one another along the busbars, a metal framework which includes a plurality of bottom plates, each of which extends between two adjacent insulating blocks, and an inverted U-sectioned casing with the lower openings thereof, between said insulating blocks, substantially closed by said bottom plates, a mechanical connection between said insulating blocks and said framework so as to provide a rigid structure, a plurality of electrically conductive sockets, in each insulating block, respectively connected to said busbars, raised end portions to each bottom plate, and downwardly-extending pins on said raised portions, the said pins on the adjacent ends of any two contiguous bottom plates being adapted to pass through holes in side flanges of a fuse-containing supply box for enabling the latter to be detachably supported with the conductive plugs of the said box held entered into the respective sockets in the intervening insulating block.

2,422,337

SUBMARINE DETECTING BUOY

Constantin Chilowsky, New York, N. Y.
Application April 15, 1941, Serial No. 388,616
In France April 19, 1940
10 Claims. (Cl. 177—386)

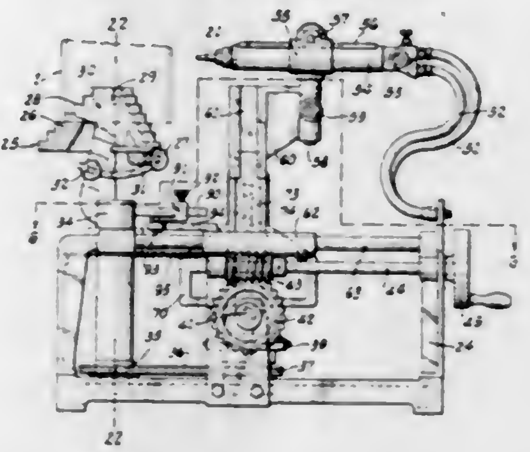
1. A maritime observation system of the character described comprising, a substantially immobile listening unit positioned below the surface of the sea and provided with detection means responsive to vibrations emanating from a vessel in motion, a relatively mobile transmitting unit flexibly connected to the listening unit and adapted to transmit a signal to a distant point, said transmitting unit being positioned normally below the surface of the sea, means actuated by said detection means for moving the transmitting unit to the surface of the sea for transmission of said signal, and means for moving said transmitting unit to its normal position after transmission of said signal.



2,422,338

PIPE END FORMING MACHINE

Edwin S. Christensen, Long Beach, Calif.
Application August 4, 1944, Serial No. 548,022
9 Claims. (Cl. 266—23)

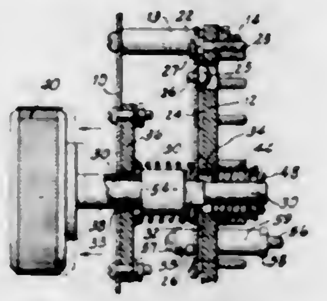


1. A machine for cutting an end of a nipple in such a manner that the end so produced will fit closely on the outer surface of a pipe with the axis of the nipple coinciding with the axis of the pipe and at an angle of incidence thereto, which comprises: a supporting structure; a primary shaft so mounted in said structure that it is free to turn about a vertical rotative axis; a chuck so constructed as to hold said nipple firmly with relation to said chuck; means for so mounting said chuck on said primary shaft that the chuck turns with said shaft but can be adjusted and secured in various positions about a horizontal chuck axis passing through the vertical rotative axis; a torch holder so mounted on said structure that it can be moved in a vertical plane with relation to said structure; a cutting torch carried by said torch holder in such a position that the cutting jet from said torch is projected in a substantially horizontal direction toward said rotative axis; a horizontal secondary shaft; a primary crank carried by said secondary shaft having a crank pin; means for so connecting said crank pin to said torch holder that such holder is moved harmonically up and down as said secondary shaft is rotated; means for so connecting said primary and secondary shafts that the secondary shaft moves at twice the angular velocity of the primary shaft; and means for driving one of said shafts.

2,422,339

TAP-CHANGING SWITCH

Soren L. Christie, Los Angeles, Calif.
Application April 18, 1944, Serial No. 531,539
20 Claims. (Cl. 200—4)

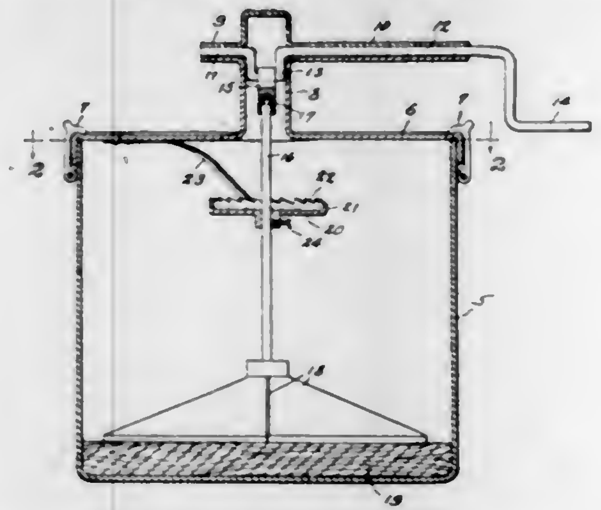


6. In a switch structure, the combination of: a panel; a plurality of contact buttons mounted circularly on said panel about an axis thereof; a rotatable contact member providing a contact means adapted to engage said contact buttons sequentially when said contact member is rotated; means for mounting said contact member for such rotation and for bodily movement toward and away from said panel whereby said contact member can be moved away from said panel sufficiently to disengage said contact means from said contact buttons during its rotation, said means including an axially-movable shaft operatively connected to said contact member; a spring for normally biasing said contact member resiliently in a direction toward said contact buttons; and means for operatively connecting said spring to said shaft to relieve said bias upon axial movement of said shaft.

2,422,340

VERTICALLY RECIPROCATING AND INTERMITTENTLY ROTATING FOOD CHOPPER

Henry T. Clark, St. Petersburg, Fla.
Application March 20, 1946, Serial No. 655,644
1 Claim. (Cl. 146—69)



A food chopper comprising a receptacle, a cover for the receptacle, a hollow post rising from the central portion of the cover, lateral extensions formed on the hollow post, a crank shaft disposed within the hollow extensions, the crank of the shaft operating within the hollow post, a bearing member mounted on the crank shaft, a vertical rod secured to the bearing member, means for connecting the rod and bearing member, whereby said rod rotates with respect to the bearing member, blades secured to the lower end of the shaft and adapted to chop food in the receptacle, said crank shaft adapted to move the rod vertically, and means for rotating the rod with each vertical movement of the rod.

2,422,341

SOLVENT EXTRACTION

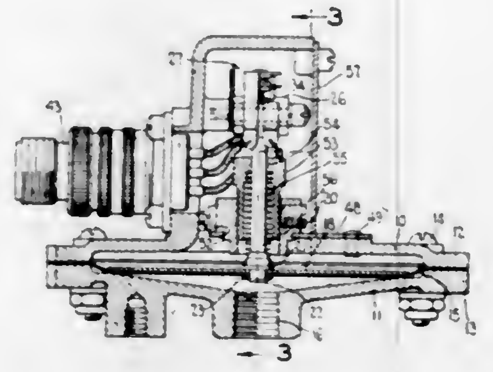
Willie W. Crouch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application December 26, 1944, Serial No. 569,901
12 Claims. (Cl. 196—13)

11. A process for the separation of a mixture of hydrocarbon compounds of different degrees of saturation which comprises contacting the mixture with a liquid alkyl mercaptal to form an extract phase which comprises the alkyl mercaptal and a major portion of the less saturated compounds and a vapor phase comprising a major portion of the more saturated compounds and a minor portion of the less saturated compounds, and recovering the absorbed compounds from the extract phase.

2,422,342

PRESSURE REGULATED ELECTRICAL CONTROL

Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application January 10, 1944, Serial No. 517,631
2 Claims. (Cl. 200—83)

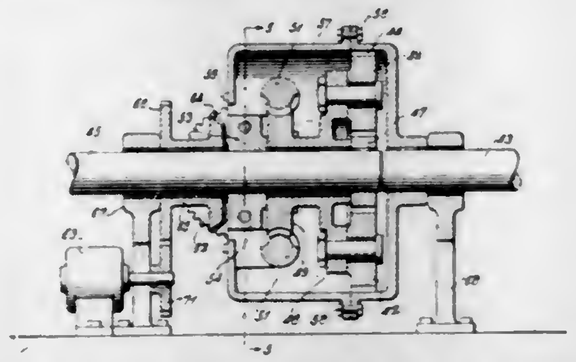


1. A pressure control device comprising a casing having a dish-shaped lower member with a central pressure port and having a dish-shaped upper member with a housing portion having an open side, said upper member having its rim clamped to the rim of said lower member, a diaphragm extending across said members and clamped and sealed at its periphery therebetween, said upper member having a supporting portion at its open side, a plate member secured to said supporting portion and extending into said casing through said open side in substantially parallel relation to said diaphragm, said plate member having an aperture therethrough concentric with said diaphragm, a nut secured in said aperture, a thimble member having an apertured end wall and adjustably screw-threaded in said nut, a helical coil spring within said thimble member and interposed between said diaphragm and said end wall, a thrust rod movable with said diaphragm and extending concentrically through said spring and said thimble member end wall aperture, locking means accessible through said open side and carried by said nut, said locking means being engageable with and operable to hold said thimble member in adjusted position, a snap switch secured within said housing portion and having an operating pin alined with and engageable by said rod for operating said switch, and means to close said open casing side.

2,422,343

SPEED CONTROL DEVICE

Morris J. Duer, Troy, Ohio
Application June 14, 1943, Serial No. 490,821
9 Claims. (Cl. 74—282)

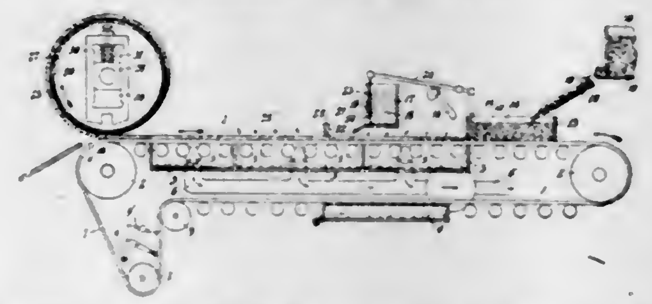


1. In a speed control device, a differential device including two differential gear members, a rotatable pinion supporting member and a differential pinion journalled in said pinion supporting member and meshing with said gear members, a driving element rotating one of said members, a driven element rotated by another of said members, a rotatable worm gear rotated by another of said members, a worm supporting member journalled for rotation about the axis of said worm gear, a worm journalled in said worm supporting member and meshing with the teeth of said worm gear, said worm supporting member being rotated by one of said elements, a control element journalled for rotation about said axis independently of any of said members for controlling the rotation of said worm relative to said worm gear for varying the relative speed of said driving and driven elements. said worm having a helix angle substantially equal to the friction angle between the contacting surface of said worm and the teeth of said worm gear, whereby a relatively small amount of power applied to said control element is effective to control the speed of said driven element when said driving element is transmitting a relatively large amount of power to said driven element, and control means for controlling the rotation of said control element, said control means having insufficient power to supply power torque to said driven element.

2,422,344

MANUFACTURE OF HYDRAULIC CEMENT PRODUCTS

Gustave L. Easterberg, Pleasant Ridge, and Roger A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Application August 2, 1940, Serial No. 349,635
4 Claims. (Cl. 92—39)

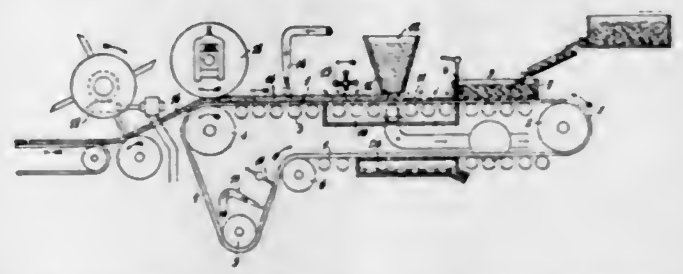


1. The method of fabricating a water-laid veneered sheet comprising forming a water-laid base layer of hydraulic cement-fiber material from a fluid water, fiber and cement slurry, removing a substantial quantity of free water from the base layer to render same semi-plastic, applying a water, fiber and cement slurry of contrasting color to form a water-laid veneer layer on the base while said base has a substantial quantity of free water removed and while said base is being subjected to suction to prevent substantial intermingling of the veneer layer with the base layer, and wrapping the veneered base layer upon a roll with superposed convolutions of the base layer to build up a composite veneered sheet of the desired thickness.

2,422,345

MANUFACTURE OF HYDRAULIC CEMENT PRODUCTS

Gustave L. Easterberg, Pleasant Ridge, and Roger A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Application August 2, 1940, Serial No. 349,636
2 Claims. (Cl. 92—39)

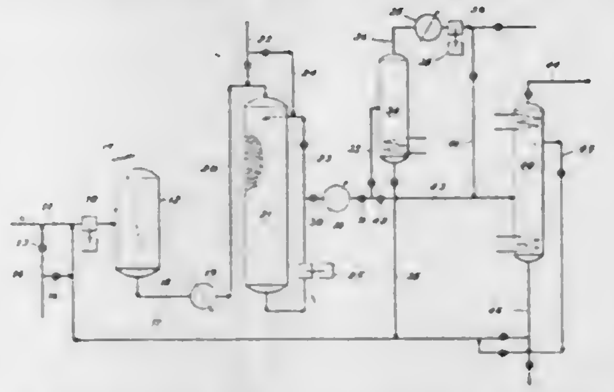


1. A continuous method of making hydraulic cement products comprising forming a plurality of water-laid sheets of hydraulic cement, having linear fibers therein which are oriented longitudinally of the surface of said sheets, interposing a non-water-laid hydraulic cement-asbestos layer between the wet water-laid sheets, and compressing the juxtaposed structure against an absorbent resilient support to remove the water and integrate the juxtaposed sheets by continuously feeding the juxtaposed structure between press rolls.

2,422,346

ISOMERIZATION PROCESS

Gerald L. Farrar, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application October 23, 1944, Serial No. 559,921
9 Claims. (Cl. 260—683.5)

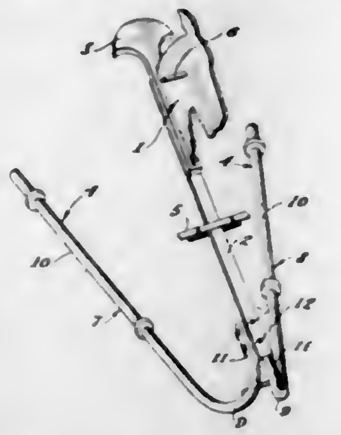


1. In a process for the conversion of liquid normal butane to isobutane in a reaction zone wherein said normal butane is maintained in intimate contact with an aluminum bromide catalyst promoted by free oxygen the improvement which comprises maintaining in solution in said butane and isobutane a concentration of aluminum bromide greater than 2.1 mol percent and not greater than 2.85 mol percent of said solution and maintaining said solution at a temperature within the range of from about 210° F. to about 240° F.

2,422,347

HOBBYHORSE

Andrew J. Fleury, High River, Alberta, Canada
Application July 8, 1946, Serial No. 682,067
6 Claims. (Cl. 272—52)

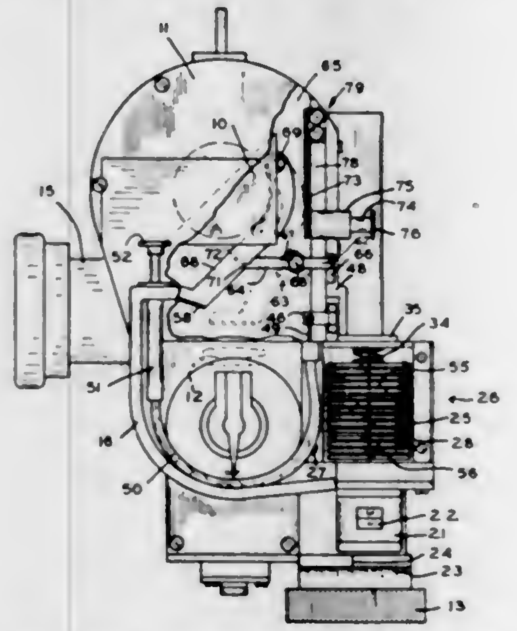


1. Hobby horse comprising a pair of complementary rod-like supporting members, each bent to form a forwardly directed bight with a long ground engaging limb extending rearwardly from the lower side of said bight and a short anchor limb extending rearwardly from the upper side of said bight, upwardly and laterally divergent with respect to said lower limb, the short limbs of both supporting members being oppositely laterally diverted with reference to their long limbs, said supporting members being arranged side by side with their short limbs axially parallel and symmetrical with respect to a vertical plane parallel to the axes of the short limbs, a leaf spring, means for securing said short limbs to the lower end of said leaf spring, and a seat on said leaf spring.

2,422,348

MEDIAN VALUE DEVICE IN A SIGHTING INSTRUMENT

Edward F. Flint, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application January 29, 1943, Serial No. 473,980
4 Claims. (Cl. 33—70)

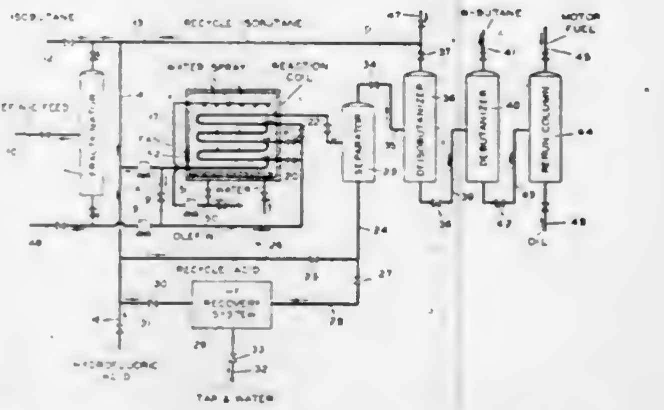


3. In an angle measuring instrument having means for establishing an angularly movable line of sight with operating means for moving the line of sight, a plurality of indicating members; means for locking each indicating member against movement; cam means movable from an inactive position for seriately disengaging said locking means; means for moving the indicating members as disengaged in accordance with the movement of the operating means; means for holding successively moved indicating members against relative displacement upon subsequent movement of said operating means whereby the relative displacements of the indicating members indicate the relative magnitudes of successive measurements; a shutter; means for moving said shutter into a position in which said line of sight is occluded; means for holding said shutter out of the line of sight; means for releasing said shutter from said holding means upon movement of said cam means to release the last of said indicating members whereby the shutter is moved into said line of sight to occlude the same and apprise the user that a number of measurements has been completed equal to the number of indicating members; means for determining the median value of measurements indicated by the relative positions of the indicating members; other means for returning said cam means to a position wherein all of said locking means are released for engagement with said indicating members; and a common actuator for rendering said other means operative and for moving said shutter to a position wherein it does not occlude said line of sight.

2,422,349

ALKYLATION OF HYDROCARBONS

Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 14, 1943, Serial No. 490,808
5 Claims. (Cl. 260—683.4)



1. An improved process for reacting by catalytic alkylation butylenes and isobutane contained in an olefin-containing C_4 hydrocarbon mixture to produce paraffins of higher molecular weight, which comprises subjecting such a mixture to fractional distillation and recovering as a low-boiling fraction a fraction rich in isobutane and contaning no more than a minor proportion of the olefins in the original mixture and as a high-boiling fraction a fraction containing no more than a minor amount of isobutane and a major proportion of the olefins in the original mixture, passing said low-boiling fraction in admixture with liquid hydrofluoric acid to one end of an elongated alkylation zone comprising a series of horizontal pipes in a vertical row joined at the ends to form a continuous upwardly rising coil, adding said mixture at the bottom of said coil and flowing said mixture upwardly through said coil at a flow rate such that intimate admixture of liquid hydrofluoric acid and liquid hydrocarbons is maintained, adding portions of said high-boiling fraction at successive points along the length of said reaction zone in amounts such that the mol ratio of isobutane, in the mixture at the first point of addition, to olefin in the portion added at said first point is at least 50:1 and such that the mol ratio of unreacted isobutane in the mixture to olefin added at each

successive point is progressively higher, spraying water over the outside of said coil and forcing air over the outside of said coil generally concurrect to the flow of reactants through said coil and countercurrent to the flow of said sprayed water, withdrawing the resulting reaction mixture from the top of said coil and recovering therefrom a fraction comprising paraffins of higher molecular weight so produced.

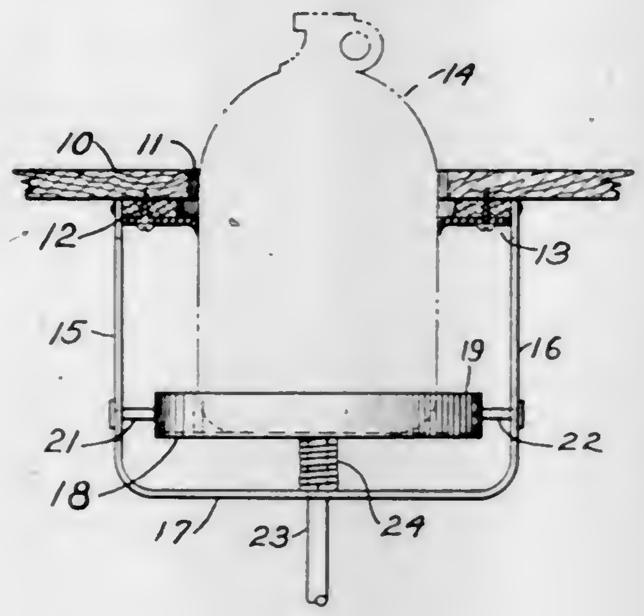
2,422,350

REFRIGERATOR PORT FOR DISPENSING CONTAINER AND CLOSURE THEREFOR

Eshcol S. Gross, Long Beach, Calif.

Application August 5, 1944, Serial No. 548,297

3 Claims. (Cl. 312—186)



3. A device of the character described, including a top wall for an enclosure, a port in said wall for receiving a container, a frame depending from said top wall and beneath said port, a support mounted in said frame and adapted for vertical movement relative to said frame, means for attaching and guiding said support in said frame, the said support being of greater area than said port and adapted to close the said port when said container is removed from said port, the edges of said support terminating in a continuous upwardly extending flange, the upper edge of the continuous flange arranged to contact the gasket at a level substantially above the supporting plane of the support of the container.

2,422,351

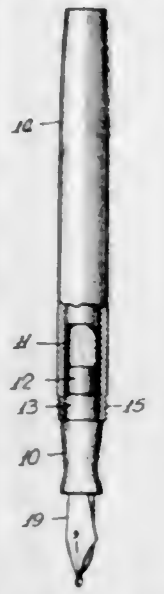
FOUNTAIN PEN

Benjamin W. Hanle, Elizabeth, N. J., assignor to Eagle Pencil Company, a corporation of Delaware

Application December 23, 1944, Serial No. 569,484

4 Claims. (Cl. 120—52)

1. In a fountain pen, a section having a bore tapped at its inner end, a feed and nib assembly of diameter slightly smaller than that of the bore, the feed being removably threaded at its inner end into said tapped portion, said feed having longitudinal ink and air feed grooves extending the length thereof and having a pair of shallow lateral depressions symmetrically of the grooves and said nib having a triangular point end and a shank, the latter with integral lateral wings spaced from the opposite ends of said shank partially embracing said feed and lodged in said lateral depressions, the side edges of the shank flaring laterally outward from in front of the lateral wings, the roots of said flaring edges being wedged against the end of the section to clamp the nib against the feed.



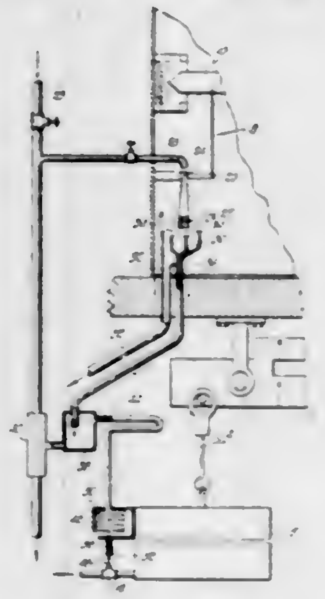
2,422,352

CONTROL MEANS FOR AUTOMATIC REGULATING MECHANISM

Elmer E. Harper, Monrovia, Calif.; Esther Pardee Harper executrix of said Elmer E. Harper, deceased

Application May 17, 1944, Serial No. 535,976

5 Claims. (Cl. 60—60)



1. Control mechanism of the character described comprising, in combination with a mechanical operating or transmitting member provided with vacuum operating means, means for maintaining a continuous liquid flow, and a liquid flow control element responsive to external control impulses and operative to divert proportionate amounts of the liquid flow for correspondingly varying the vacuum action of said operating means and thereby regulate the operation of said transmitting member.

2,422,353

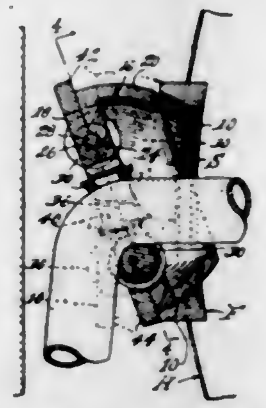
SWINGING HOSE GUIDE

Otis D. Hitt, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio

Application October 13, 1944, Serial No. 558,565

7 Claims. (Cl. 242—157)

1. A hose guide comprising a main frame having a pair of ears on opposite sides thereof, a subframe pivoted to said ears and thereby journaled on said main frame and having a hose guide opening, said main frame having an arcuate seat and said subframe having an arcuate outer wall movable in said arcuate seat.



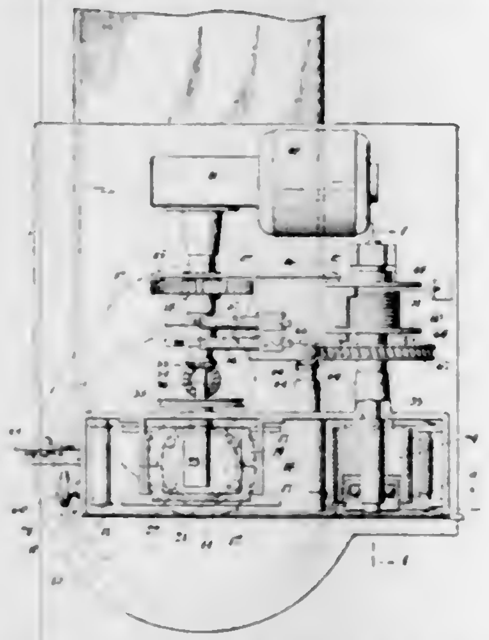
2,422,354

DOCUMENT COPYING CAMERA

John K. Holbrook, New York, N. Y., assignor to Holbrook Microfilming Service Inc., New York, N. Y., a corporation of Delaware

Application April 13, 1944, Serial No. 530,864

3 Claims. (Cl. 88—24)



1. A recording camera having a lens, and film feeding means including a rotary drive shaft, an oscillatory driven shaft, and motion transmitting means between said shafts for translating the rotary motion of the drive shaft into oscillatory motion of the driven shaft, said means including an oscillatory member operated by the drive shaft, an oscillatory member for operating the driven shaft, a resilient connection between said members adapting the throw of the second named member to be varied, said second named member having a contact, and means for variably positioning said variable control element including a worm and worm wheel, said worm wheel carrying said control element, a scale and means movable with said worm for visually indicating on said scale the amount of film to be fed by each throw of said second member.

2,422,355

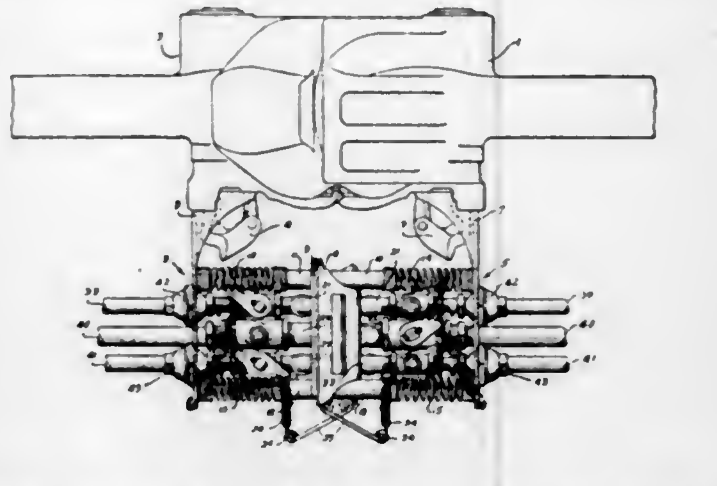
AUTOMATIC RAILROAD CAR COUPLER

George N. Knapp, Pine Lawn, Mo.

Application July 2, 1945, Serial No. 602,771

12 Claims. (Cl. 284—6)

1. An automatic coupler comprising a pair of complemental coupler heads; a plurality of conduits associated with said coupler heads; and removable gasket means in said heads associated with said conduits, the walls of said coupler heads having apertures therein through which grit and foreign matter may be ejected before engagement of said conduits with said gasket means.



2,422,356

RESINOUS INTERESTERIFICATION PRODUCT MADE WITH HYDROXYLATED FATTY OIL

Edward A. Lasher, Los Angeles, Calif., assignor to California Flaxseed Products Company, Los Angeles, Calif., a corporation of California

No Drawing. Application March 15, 1943, Serial No. 479,252

8 Claims. (Cl. 260—22)

6. A resin consisting of an interesterification and interpolymerized product of (1) an acid ester of an hydroxylated fatty glyceride oil with an acid component selected from the group consisting of citric acid, malic acid, and citric acid with lactic acid, and (2) a diethylene glycol ester of an acid selected from the group consisting of phthalic acid and adipic acid; the proportions of said acid ester to said diethylene glycol ester being in the range from 1:2 to 2:1 parts by weight.

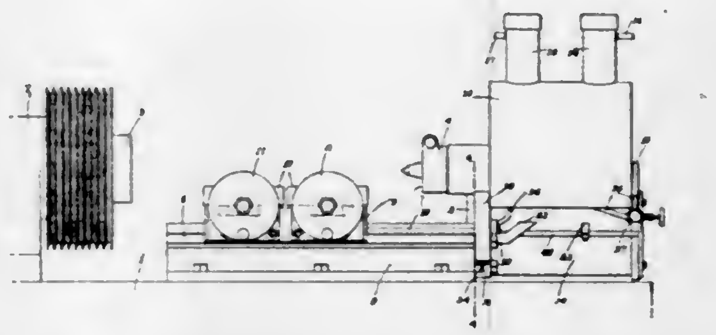
2,422,357

FEED SPEED CONTROL MEANS FOR HYDRAULICALLY OPERATED MACHINE TOOLS

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California

Application January 22, 1944, Serial No. 519,326

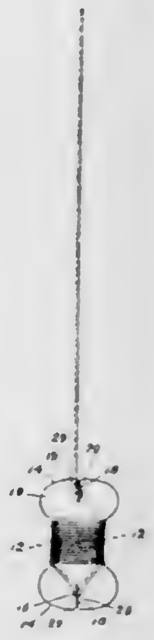
2 Claims. (Cl. 121—45)



1. An operating mechanism for a lathe carriage, comprising a double acting power cylinder, means connecting the cylinder in operative relation to the carriage, and a valve controlled fluid pressure system arranged in communication with

the cylinder to actuate the latter and advance or retract the carriage, selectively; said system comprising a pair of conduits leading to and connected in communication with opposite ends of the cylinder, valve controlled means to feed fluid pressure to one conduit and simultaneously and proportionately relieve fluid pressure from the other conduit, a poppet valve and seat assembly in the one of said conduits through which the direction of flow is away from the cylinder when the same is operated to advance the carriage, said valve closing in the same direction, manually adjustable means operative to limit movement of said valve in a closing direction; a turnable rod mounted parallel to the direction of movement of the carriage, said rod, upon predetermined turning in one direction, being operative to effect said predetermined opening of the poppet valve, a finger mounted in connection with and projecting laterally from the rod, a cam member movable with the carriage, said cam member engaging said finger and turning the rod in said one direction when the carriage is retracted and during said initial portion of its advance.

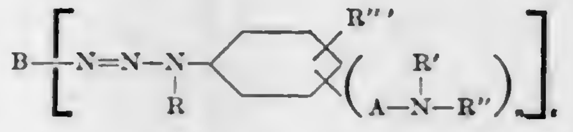
2,422,358
YARN BOBBIN
Otto Lobl, Middleboro, Mass., assignor to Hero Mfg. Co., Inc., Middleboro, Mass., a corporation of Massachusetts
Application March 20, 1947, Serial No. 736,092
3 Claims. (Cl. 242—96)



1. A bobbin for holding yarn and the like, comprising a generally flat member of resilient sheet material having opposite side edges extending with concave curvature and having opposite end edges rounded with convex curvature, there being a relatively small hole adjacent to a said convex end edge of the bobbin and a slit extending inward to said hole from the adjacent convex end edge, thereby to provide oppositely disposed resilient tongues of the sheet material at an end of the bobbin, said bobbin being adapted to have yarn and the like wound thereon inward from said end hole with the convolutions passing around said concave side edges of the bobbin and with one predetermined convolution extending through said end hole on its course from one of said concave side edges to the other, thereby to limit unwinding of yarn from the bobbin to convolutions wound subsequent to said predetermined convolution until said predetermined convolution is released from said end hole.

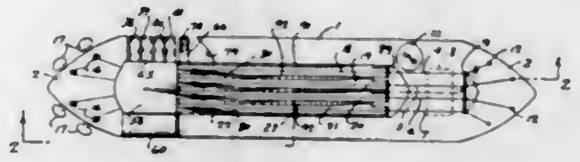
2,422,359
DIAZOAMINO COMPOUNDS
Carl W. Maynard, Jr., and Emil G. Wiest, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application August 7, 1942, Serial No. 454,016. Divided and this application October 29, 1943, Serial No. 508,244
5 Claims. (Cl. 260—140)

1. A diazoamino compound of the benzene series which is represented by the formula



wherein B is the radical of an ice-color diazo component which is devoid of water-solubilizing groups; R is one of a group consisting of hydrogen, alkyl having 1 to 4 carbons, hydroxyethyl and tris-(hydroxymethyl) methyl; A is from a group consisting of $-SO_2-$ and $-CO-$; R′ is one of a group consisting of hydrogen and the alkylol groups having 1 to 2 carbons; R″ is one of a group consisting of alkylol groups having 1 to 4 carbons and 1 to 4 hydroxy groups wherein not more than one hydroxy group is linked to a single carbon and the ratio of carbon atoms to hydroxy groups is not greater than 2 to 1; R‴ is one of a group consisting of hydrogen, nitro, chloro, bromo, $-CH_2OH$, alkyl having 1 to 4 carbons and alkoxy having 1 to 2 carbons; n is 2 and x is an integer not greater than 2.

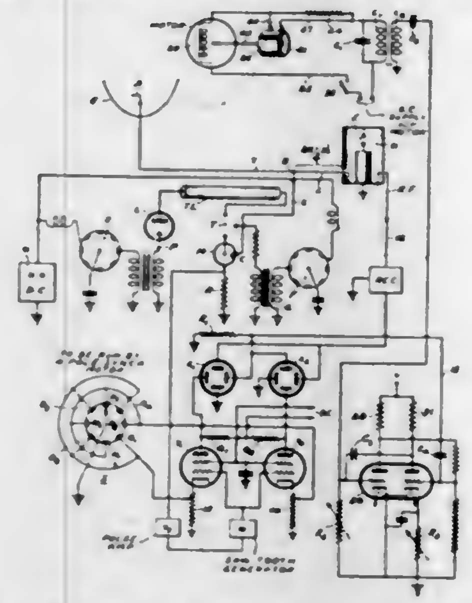
2,422,360
STRINGED INSTRUMENT
John W. McBride, Burbank, Calif.
Application November 24, 1942, Serial No. 466,716
9 Claims. (Cl. 84—315)



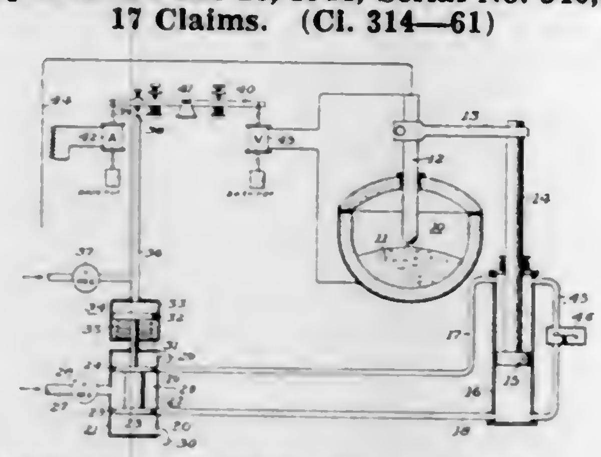
1. In a stringed musical instrument, a tensioned string, a rod-like member extending alongside of the string and capable of angular adjustment for adjusting the free length of the string, and a source of illumination associated with said member, the character of the visible illumination being altered in accordance with the adjustment of said member.

2,422,361
ELECTRONIC INDICATOR SYSTEM
William A. Miller, Port Jefferson Station, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 28, 1943, Serial No. 473,801
18 Claims. (Cl. 250—11)

1. A rotating antenna system having means for causing the pattern thereof to assume different positions of effectiveness, and electronic means including an electron discharge device trigger circuit effective for a duration not less than one-quarter of the time of one rotation of said system for indicating in positive manner at least one of the different positions of said system.



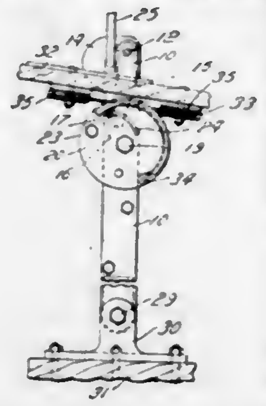
2,422,362
FURNACE ELECTRODE REGULATOR
William Enoch Moore, Pittsburgh, Pa., assignor to Delaware Engineering Corporation, Pittsburgh, Pa., a corporation of Delaware
Application June 13, 1944, Serial No. 540,064
17 Claims. (Cl. 314—61)



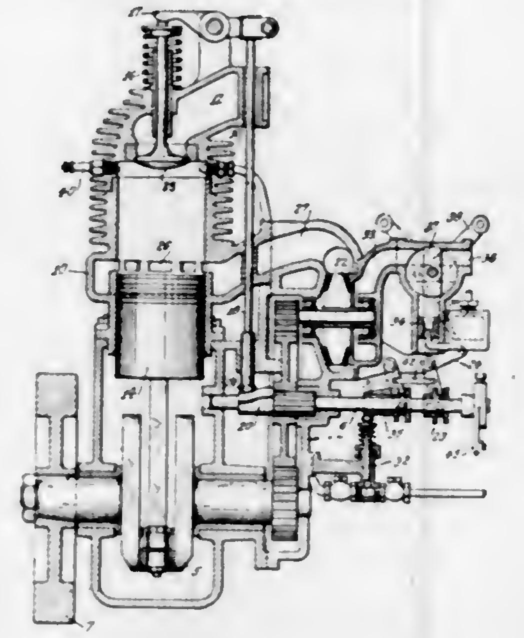
1. Apparatus for regulating the position of an electrode in an electric arc furnace, including a fluid operated motor movably associated with the electrode, a high pressure fluid supply line, a control valve for controlling the flow of fluid under high pressure to and from the motor, a pilot valve for operating the control valve, a low pressure fluid supply line, said pilot valve being controlled by the variations in pressure of low pressure fluid supplied to it, and means responsive to the electric current supplied to the electrode for varying the pressure of the last mentioned fluid supply.

2,422,363
QUICK RELEASE HOOK
Walter Gordon Moore, Liverpool, England
Application August 21, 1944, Serial No. 550,404
In Great Britain August 18, 1943
2 Claims. (Cl. 9—45)

2. The combination with a lifeboat of launching gear for the boat including at each end thereof a quick release hook comprising a hook carrier, a hook pivoted on said carrier, said hook having an abutment, a slot in said carrier, a roller stop rollable in said slot into and out of engagement with said abutment of the hook and operative when engaging said abutment to hold the hook against movement in the release direction, a sheave journalled on the hook carrier and having a cam-slot embracing the roller stop for effecting rolling movement thereof in the release direction, means securing each hook carrier to the boat, a common operating member for the sheaves of the respective quick release hooks and a rope reeved on said sheaves and connected thereto and to the common operating member for simultaneous release of the two hooks.



2,422,364
INTERNAL-COMBUSTION ENGINE
Alden E. Osborn, Mount Vernon, N. Y.
Original application July 30, 1940, Serial No. No. 348,351, now Patent No. 2,383,883, dated August 28, 1945. Divided and this application August 25, 1945, Serial No. 612,605
6 Claims. (Cl. 123—76)



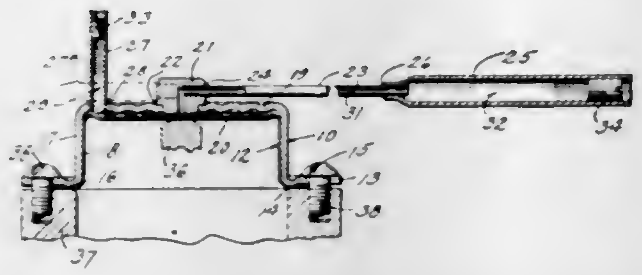
1. In a four cycle internal combustion engine, a cylinder, a piston in said cylinder, a poppet valve in said cylinder and seating upon an inner surface thereof, a passage across the outer surface of said valve and having an opening on each side of said valve, means for causing a current of air to pass thru one said opening and over said valve and out thru said other opening, a ledge on said cylinder around a portion of the seating surface of said valve and at the side of said valve toward the opening of said passage thru which said air current enters, said ledge being relatively close to the outer edge of said valve, and having a height adjacent to said valve substantially less than the reciprocating movement of said valve, means for opening said valve during the combustion stroke of said piston, for holding said valve open during the following exhaust stroke and during the suction stroke and for closing said valve following the compression stroke, and means for injecting fuel into said cylinder at properly timed intervals.

2,422,365
COMPENSATED POWER ELEMENT

Jesse C. Osborn, St. Louis, Mo., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa

Application February 19, 1943, Serial No. 476,451

3 Claims. (Cl. 297—9)



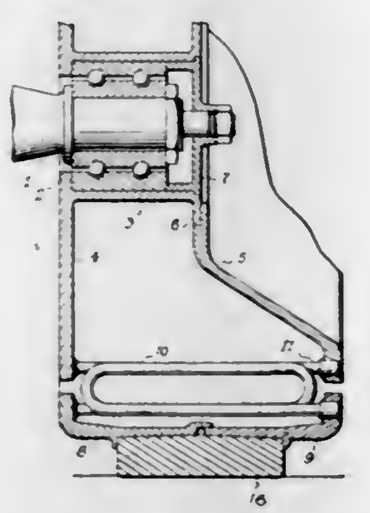
1. In a compensated power element, outer and inner cups of material having respectively high and low coefficients of expansion, a capillary tube system connected with the chamber between said outer and inner cups, a variable chamber adjacent to and connected with said first chamber, a liquid fill in said power element, said capillary tube system and said variable chamber being thin for ready response of the liquid therein to ambient temperature, and means for varying after assembly the amount of liquid in said variable chamber while maintaining the same amount in said first chamber to thereby vary the total volume of the liquid receiving space subject to the heat ambient to said power element.

2,422,366
RESILIENT METAL WHEEL

Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York

Application September 29, 1942, Serial No. 460,071

4 Claims. (Cl. 152—87)



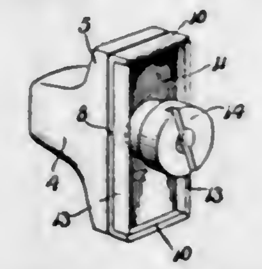
1. A wheel comprising a hub having at least one main plate radiating therefrom, a rim having a tread surface carried thereby and coil springs separating said main plate and said rim, the coils of each of said springs being elongated in a direction normal to the plane of travel of the wheel and terminating in parallel ends, said ends being anchored in openings in said main plate and rim respectively, the axes of said ends being normal to the intended direction of travel of said wheel, each of said coils having a length at least as great as the width of said rim and having its elongated portions parallel substantially throughout their entire length.

2,422,367
MORTISING GAUGE

Herbert Quigley, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan

Application October 21, 1944, Serial No. 559,815

1 Claim. (Cl. 145—25)



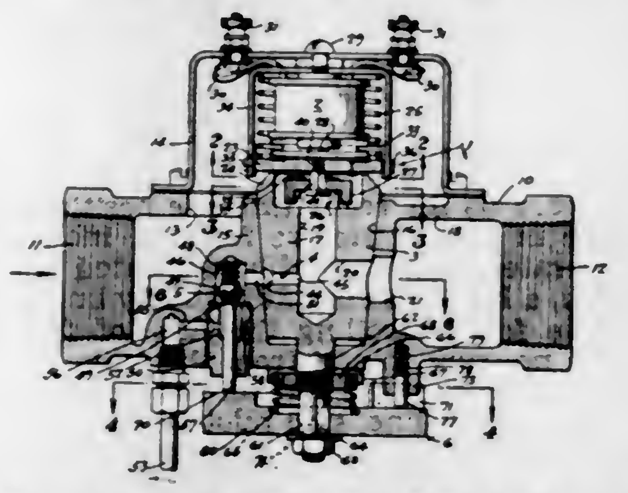
A mortising cutter comprising a body, two cutter members of channel form located one against the body and the other against the first cutter member, each of said cutter members having two flanges with sharpened edges, the flanges of one cutter member being located at right angles to the flanges of the other thereby providing a rectangular frame with sharpened outer edges located in substantially the same plane, and releasable means for securing said cutter members together and to said body, said releasable means having a head extending outwardly beyond said flanges, the diameter of said head being slightly less than the diameter of the opening into which it is to be received in a body to be mortised around said opening.

2,422,368
ELECTROMAGNETIC RESET VALVE

William A. Ray, Glendale, Calif., assignor to General Controls Co., a corporation

Application June 5, 1943, Serial No. 489,801

12 Claims. (Cl. 137—144)



4. In a valve structure for fluid fuels, a main valve structure for controlling passage of fuel to a main burner, a supplemental valve for controlling passage of fuel to a pilot burner, actuating means for operating said main valve to open and to close, means causing said supplemental valve to close in response to closing of the main valve, said actuating means being optionally operable to open said supplemental valve independently of the main valve.

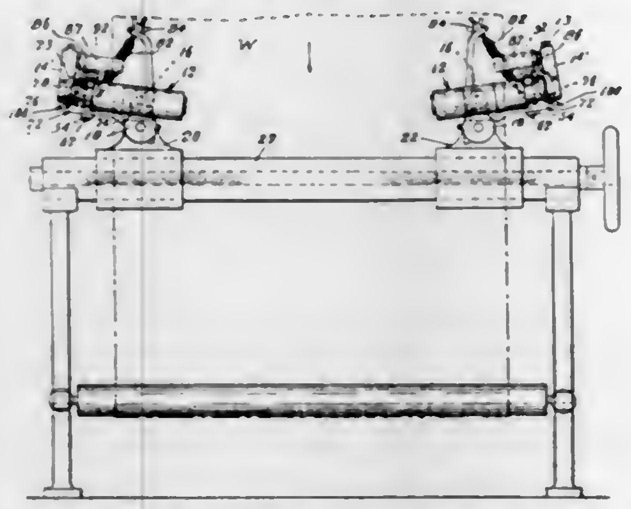
8. In a valve structure, a rotary plug, a valve body providing a seat in which said plug is accommodated, said plug being operable to control the passage of fluid by way of the plug, and having for that purpose a passageway opening in one end of the plug, means adjacent the end of said passageway forming a safety valve seat around the axis of the plug, a closure adapted to co-operate with said seat for controlling passage of fluid through said passageway and movable toward and away from said seat, interengaging cam means carried respectively by said plug and said closure and acting generally along the axis of the plug for moving said closure to open position in response to rotation of the plug in one direction, means for retaining said closure in open position, and means for operating said plug.

2,422,369
CLOTH GUIDER

John D. Robertson, Taunton, Mass., assignor to Mount Hope Machinery Company, Taunton, Mass., a corporation of Massachusetts

Application September 30, 1944, Serial No. 556,573

18 Claims. (Cl. 26—66)



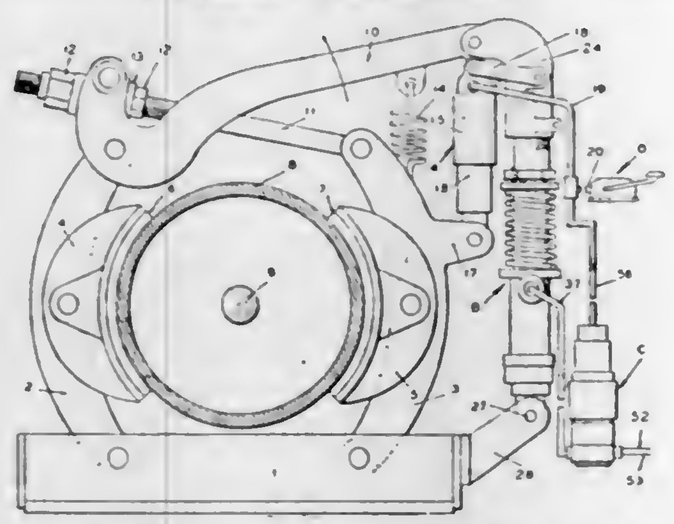
1. In a web guiding machine, a pivoted unit having a pair of coacting rolls for engaging opposite faces of a travelling web at a marginal region of the web, said rolls imposing a drag on the web whereby the web tends to tilt the rolls about the pivot of said unit, a brake movable into and out of braking relation to at least one of said rolls to vary the amount of drag imposed by the rolls on said web thereby to vary the degree of tilt of the rolls, and brake actuating means having a part in position for engagement by the web and responsive to frictional drag of the web thereon for actuating said brake.

2,422,370
BRAKE CONTROL SYSTEM

Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application March 6, 1944, Serial No. 525,136

9 Claims. (Cl. 188—151)



1. In a brake controlling system, a brake, a fluid motor unit for actuating the brake, a source of fluid pressure connected to the motor, a combined spring and fluid motor unit separate from the first named fluid motor unit, said last named unit having its spring connected to transmit a brake applying force to the brake and its fluid motor so associated with the spring that upon operation thereof the spring will be conditioned so that its force cannot be transmitted to apply the brake, conduit means connecting the fluid motor of the unit to the pressure source, and a solenoid-controlled valve unit separate from the other units and associated with conduit means for trapping fluid under pressure in the motor of the combined spring and motor unit.

2,422,371
RUBBERLIKE BUTADIENE COPOLYMERS

Frank K. Schoenfeld, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 5, 1941, Serial No. 381,877

7 Claims. (Cl. 260—84.5)

1. A rubber-like copolymer obtained by the copolymerization of a mixture containing from two to about fifteen molecular proportions of a conjugated butadiene hydrocarbon to one molecular proportion of an alkyl ester of methacrylic acid which contains from two to five carbon atoms in the alkyl radical.

2,422,372
PREPARATION OF AN ALUMINA SUPPORTED MOLYBDENUM OXIDE CATALYST

Albert E. Smith and Otto A. Beeck, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 27, 1942, Serial No. 452,552

11 Claims. (Cl. 252—250)

1. The process for the preparation of an improved supported molybdenum oxide catalyst having enhanced stability against loss of activity upon heating at temperatures up to 800° C. which comprises impregnating a calcined adsorptive alumina with a compound of an alkaline earth metal convertible to the oxide by heat in an amount equivalent to between 1% and 5% of alkaline earth metal, calcining the thus impregnated alumina at a temperature of from about 600° C. to about 900° C. to form a surface layer of alkaline earth metal oxide, impregnating the thus formed composite with a compound of molybdenum convertible to the oxide by heat in an amount equivalent to between about 4% and about 15% of molybdenum and in mol excess with respect to said alkaline earth metal, again calcining the thus formed composite to convert the molybdenum compound to molybdenum oxide and cause reaction of the underlayer of alkaline earth metal oxide with a portion of the overlayer of molybdenum oxide.

2,422,373
ROTARY FILTER

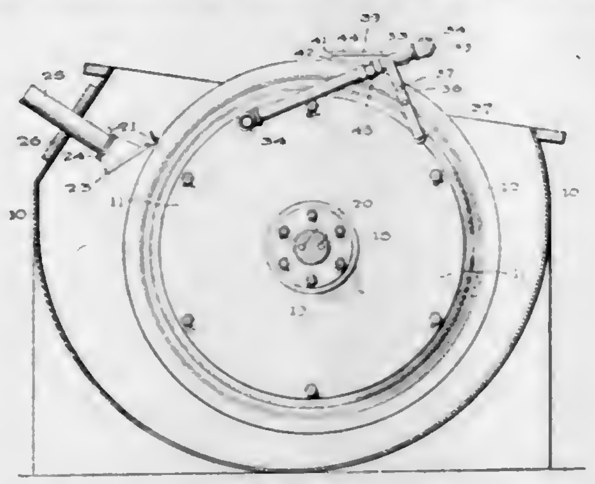
Herschel G. Smith, Wallingford, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 18, 1943, Serial No. 499,125

8 Claims. (Cl. 210—199)

1. In combination with a continuous rotary filter comprising a moving filtering medium the surface of which is progressively removed with accumulated solids to continuously present a fresh surface for filtering, an inclined distributing

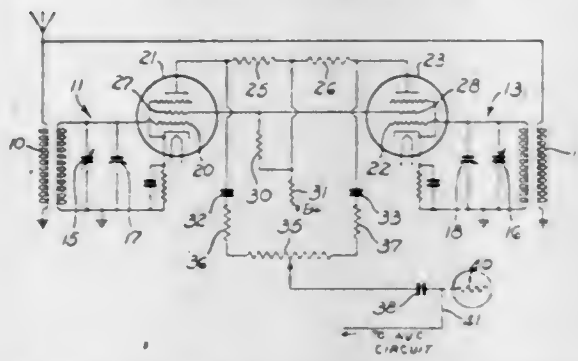
member so mounted as to follow the progressive reduction in thickness of the filtering medium and formed adjacent its lower edge with an upstanding wall which is cut away adjacent the surface of said distributing member, a flange depending from such lower edge and resting in contact with the filtering medium surface, a source of wash liquid, and means for discharging liquid from said source onto said distributing member whereby the liquid is partly retained by the uncut portions of said upstanding wall and is uniformly distributed to the filtering medium surface.



2,422,374

RADIO RECEPTION MEANS

Frank C. Strebe and William L. Comyns, Los Angeles, Calif.
Application February 16, 1943, Serial No. 476,114
6 Claims. (Cl. 250—20)



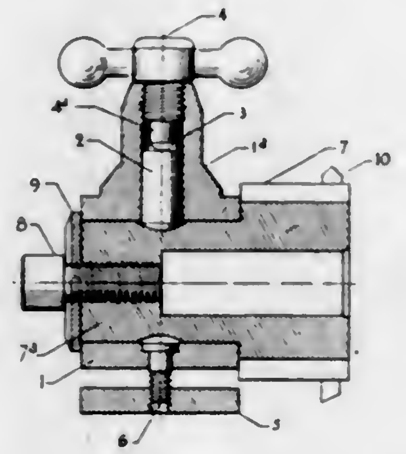
1. A radio receiver having: a first vacuum tube having a grid; a second vacuum tube having a grid; a first receiving circuit connected to the grid of said first tube; a second receiving circuit connected to the grid of said second tube, said two receiving circuits receiving the same signal voltage and the same signal-interference voltage, said two circuits being tuned to sufficiently different frequencies to at least substantially reduce in one circuit the voltage of the signal to which the other circuit is tuned without precluding substantially equal signal-interference voltages in both of said circuits; an impedance means capacitively connected to the plate circuits of said two tubes to cause mutual voltage cancellation between the two tubes; and output means coupled with said two plate circuits to receive therefrom uncancelled voltages.

2,422,375

TOOLHOLDER

John W. Thomas, Springfield, Ohio
Application April 12, 1944, Serial No. 530,655
4 Claims. (Cl. 29—48)

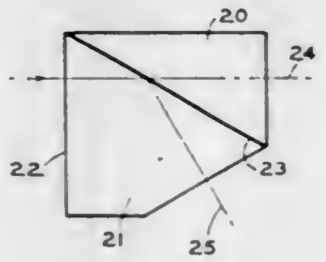
1. A tool holder, wherein a rotary tool carrier is adjustable to different rotative positions to dispose a selected tool carried thereby in work engaging position, including a support engageable with a machine tool on which the carrier is mounted for rotary adjustment, and indexing means therefor, including a reciprocatory plunger mounted in said support for reciprocation into and out of locking engagement with the carrier, a screw mounted in the support for thrust engagement with the plunger to lock the plunger in engagement with the carrier, and a spring yieldingly urging the plunger into locking engagement with the carrier and against the yielding resistance of which the plunger is retractable to enable rotary adjustment of the carrier when the thrust engagement of the screw with the plunger is relaxed.



2,422,376

LIGHT BEAM DIVIDER

Arthur Francis Turner, Brighton, and Robert Bruce Horsfall, Jr., Perinton, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application November 27, 1943, Serial No. 512,010
2 Claims. (Cl. 88—1)

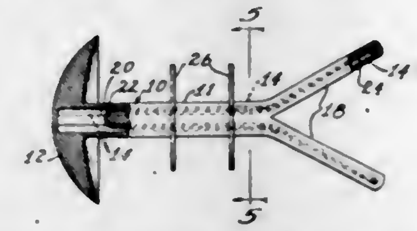


1. A light beam divider for reflecting and transmitting portions of a light beam, said divider comprising a pair of prisms of refractive material, a light-transmitting film of solid material having low light absorbing properties interposed between and in optical contact with adjacent faces of the prisms, said film being positioned with respect to an entrance face of one prism so that light rays will be incident on the film at an angle greater than the critical angle for the prism-film interface, said film having a refractive index less than that of the prisms, said film having a thickness less than a wave length of light so that total reflection does not occur when light rays strike the film at an angle of incidence greater than the critical angle for the prism-film interface whereby the incident light rays will be partially reflected and partially transmitted, the relative quantities of reflected and transmitted light being dependent upon the thickness of the film.

2,422,377

PESSARY

Carl C. Waterbury, Chicago, Ill., assignor to Diaphragm & Chemical Company, Chicago, Ill., a corporation of Illinois
Application November 17, 1944, Serial No. 563,828
12 Claims. (Cl. 128—127)

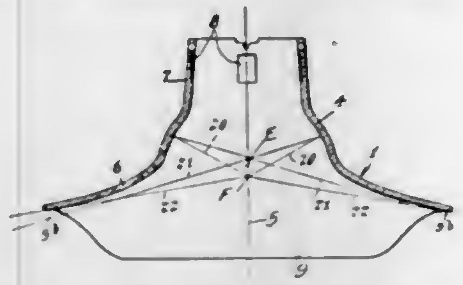


1. A pessary comprising a body formed of pliable, resilient material having an elongated stem, and a button connected to one end of the stem, said body having two closely spaced apart, longitudinally extending, ducts in the stem, the opposite end of the stem being split between said ducts to form a pair of separable, tubular leg portions, and resilient reinforcing means including members disposed in said ducts and having their outer ends formed to yieldingly urge the leg portions of the stem apart.

2,422,378

LOW-LEVEL REFLECTOR

David F. Welch, Pasadena, Calif., assignor to California Institute Research Foundation, Pasadena, Calif., a corporation of California
Application November 22, 1943, Serial No. 511,216
3 Claims. (Cl. 240—103)



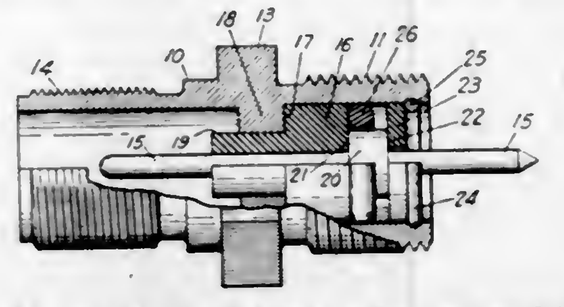
1. A reflector for highway illumination, comprising: an inverted bowl, the upper portion thereof being partially spheroid for effecting substantially uniform distribution of reflected light from a source of light located approximately at its center; a skirt depending from said partial spheroid; three sides of said skirt flaring outwardly to points below the center of said spheroid with curvatures reversed to that of said spheroid and defining in part a three-quarter cone with concave sides and an apex at the center of said spheroid; the remaining side of said skirt continuing the curvature of said spheroid but at a greater arc and projecting below said first-mentioned sides; said remaining side including a reentrant portion whereby the bowl is essentially kidney-shaped in plan and defining reflecting surfaces for directing rays from the center of said spheroid in obtusely divergent directions from each other.

2,422,379

ELECTRIC BUSHING

Sydney Edward Westman, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 30, 1944, Serial No. 551,887
2 Claims. (Cl. 174—152)

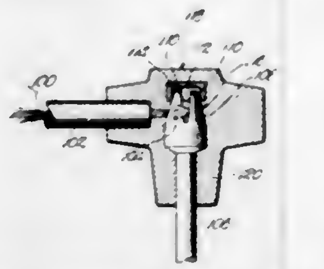
1. A fluid-tight bushing comprising a body member having a cylindrical bore therein, an annular, rigid, electrical insulating member positioned within and radially supported by said bore, means for axially supporting said insulating member with respect to said body member, a central electrical conducting element extending through and radially supported by said insulating member and having a flange with a cylindrical peripheral face, one end of said flange resting against one end of said insulating member, a second, rigid, insulating member within and radially supported by said bore and resting against the other end of said flange, and a resilient sealing ring of insulating material surrounding said flange and dimensioned to contact both the peripheral surface of the flange and the surface of said bore, the axial dimension of said ring being less than the axial length of said flange.



2,422,380

BATTERY CONNECTOR

Jack P. Whitaker, Kansas City, Mo., assignor to Whitaker Cable Corporation, North Kansas City, Mo., a corporation of Delaware
Application June 18, 1945, Serial No. 600,152
5 Claims. (Cl. 173—259)



1. A battery connector of the type set forth comprising a sharpened pin having a head formed thereon at one end; a conductor rebent upon itself at one end thereof to form a hook for embracing the head; and a molded body of lead cast around the head of the pin and the hook on the conductor, said head being bifurcated and provided with means for closing the bifurcation as force is applied thereto during the driving of the pin into operative position in a battery post or the like, the hook of the conductor being threaded through the bifurcation to be clamped thereby as the bifurcation is closed.

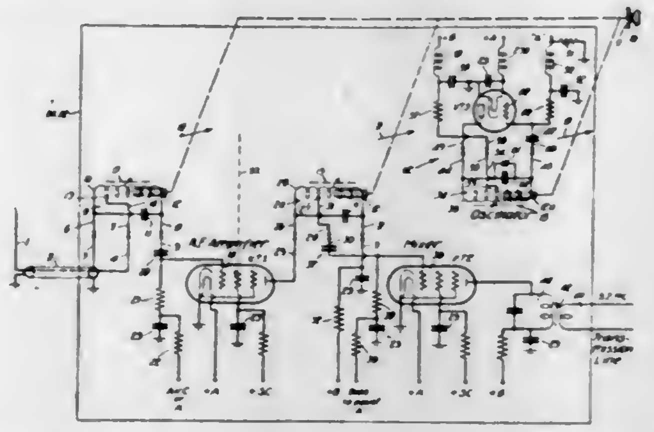
2,422,381

METHOD OF LINING UP UNICONTROLLED TUNED RADIO APPARATUS

Sidney Y. White, Wilmette, Ill., assignor to Victor S. Johnson, Chicago, Ill.; Alex Thomson administrator of said Johnson, deceased
Original application December 8, 1942, Serial No. 468,195. Divided and this application October 15, 1943, Serial No. 506,375
2 Claims. (Cl. 250—20)

1. The method of permanently lining up a unicontrolled core tuned radio receiver having directly coupled oscillator and mixer circuits, and an antenna circuit, each of which circuits includes a tuning coil, and a tuning core disposed within the coil and axially movable with respect

thereto, said cores connected for operation in unison with one another and in common with an indicator dial, which comprises setting the dial to indicate a predetermined frequency while positioning the cores as an incident of such setting, connecting the mixer tube to act as a detector, providing a signal of such predetermined frequency then individually adjusting the positions of the mixer and antenna coils relative to the positioned cores of the mixer circuit and of the antenna circuit to produce resonance of the mixer and antenna circuits with said signal of the frequency indicated by the dial, while utilizing the energy output of said circuits as an aid in securing resonance, locking the mixer and antenna coils in the selected positions, reconnecting the mixer tube as a mixer, adjusting the position of the oscillator coil relative to the positioned oscillator core and the locked up mixer coil to adjust the oscillator frequency into a predetermined relation with the said frequency indicated by the dial, while utilizing the energy output of said oscillator circuit as an aid in securing such relationship, and locking the oscillator coil in the selected position.

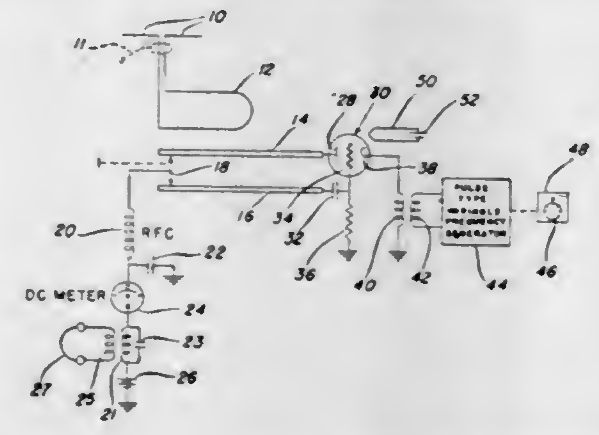


2,422,382
DISTANCE MEASURING APPARATUS

Henry T. Winchel, North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application March 29, 1943, Serial No. 481,027

15 Claims. (Cl. 250—1.66)



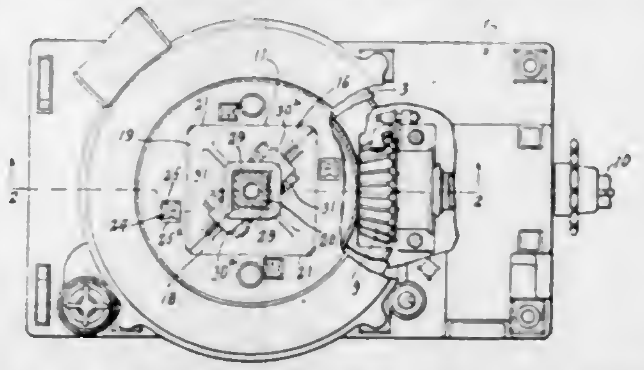
1. A superregenerative distance measuring device comprising an oscillatory circuit, an antenna coupled thereto, a separate pulse generator variable in frequency, for placing the circuit in an oscillatory condition for a short period compared to the frequency of the pulse generator, and means to indicate the reception of a signal during a pulse, the reception of signal during a pulse of a given frequency being the measure of the distance from a reflecting object.

2,422,383
ROTARY MACHINE

Forrest J. Young, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 11, 1938, Serial No. 201,349

10 Claims. (Cl. 255—23)



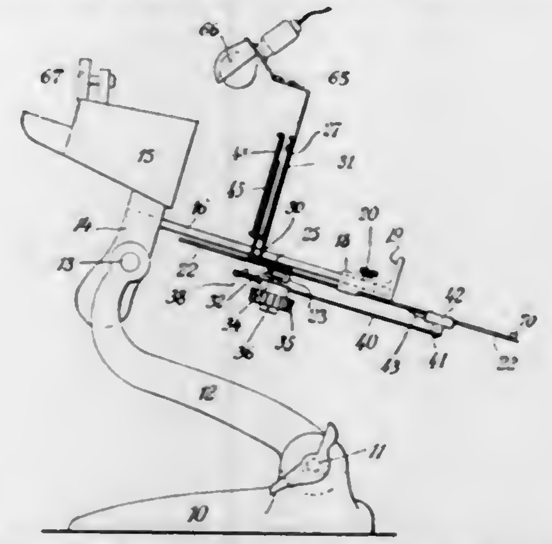
1. In a device of the class described, including a rotary machine having a table rotatably mounted upon a base, the table having a central opening through which a drill stem may extend, the combination of a master bushing supported by said table in said opening, an integral drive bushing positioned centrally of the master bushing and adapted to form a slidable and non-rotatable connection with the drill stem, drive means for said drive bushing including a drive flange on said drive bushing having a depending rim of non-circular configuration at its outer edge, the flange overlapping the upper surface of the master bushing, and the rim extending substantially below the upper surface of said master bushing and engaging within a complementary non-circular recess in the table.

2,422,384
STEREOSCOPICAL INSTRUMENT

Harry S. Alexander, Meadville, Pa., assignor to Keystone View Company, Meadville, Pa., a corporation of Pennsylvania

Application April 3, 1945, Serial No. 586,294

3 Claims. (Cl. 128—76.5)



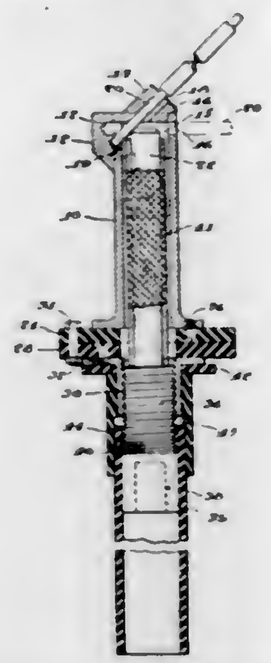
3. A device of the character described comprising a support which extends along the viewing direction, a picture holder unit slidably mounted on said support, a pair of spaced pictures movably carried by said unit, link connections supported in said unit and pivotally connected to the pictures to move the same automatically towards and away from each other as the said unit is moved lengthwise on said support, a rotatable member in said unit connected to said links for operating the same, a pivot member slidably mounted upon the support, a bar pivotally connected to and between said pivot member and said rotatable member in the unit for regulating the lengthwise movement of the unit and a rotatable hand knob carried by the unit for operating the same and actuating the said link connections.

2,422,385
ELECTRODE HOLDER

Alf E. Anderson, Milton, Mass.

Application March 30, 1945, Serial No. 585,659

5 Claims. (Cl. 219—8)



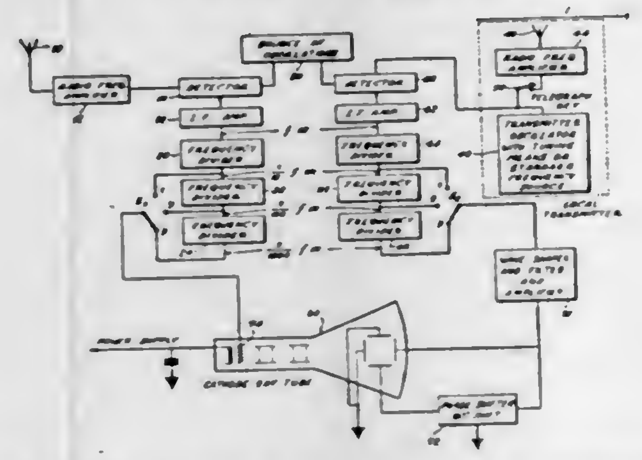
1. In an electrode holder, an elongated tubular metallic cap member having at least two hubs extended angularly from the upper end thereof a substantial distance beyond the tubular cap member and provided with spaced and aligned openings for receiving an electrode in at least two angular positions with respect to the axis of said cap member, and a clamping rod extending into said cap member and cooperating with the walls of said spaced and aligned openings to clamp the electrode against the same in selected of said angular positions.

2,422,386
FREQUENCY MEASUREMENT

Warren A. Anderson, West Brighton, Staten Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application November 22, 1943, Serial No. 511,267

15 Claims. (Cl. 250—39)



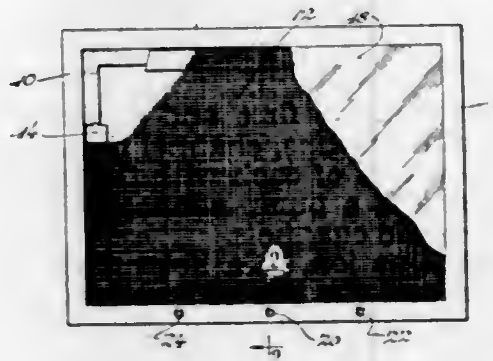
15. The method of comparing the frequencies of two electrical waves of substantially like frequency the frequency of one of which waves is substantially fixed and the frequency of the other one of which waves may vary, which includes these steps, beating both of said waves with oscillations of like frequency, selecting two beat notes of substantially like frequency resulting from said two beating actions, producing by means of one of said selected beat notes a field the rate of rotation of which is a function of the frequency of said one beat note, producing by means of said other selected beat note an indication which occurs at least once per cycle of the said other beat note, and indicating the timing of said indication as compared to the position of rotation of said field.

2,422,387
ADHESIVE TEMPORARY SUPPORT

Joseph Arthur Ball, Los Angeles, Calif., assignor to Max McGraw, doing business as McGraw Colorgraph Company, Burbank, Calif.

Application March 15, 1943, Serial No. 479,212

1 Claim. (Cl. 41—33)



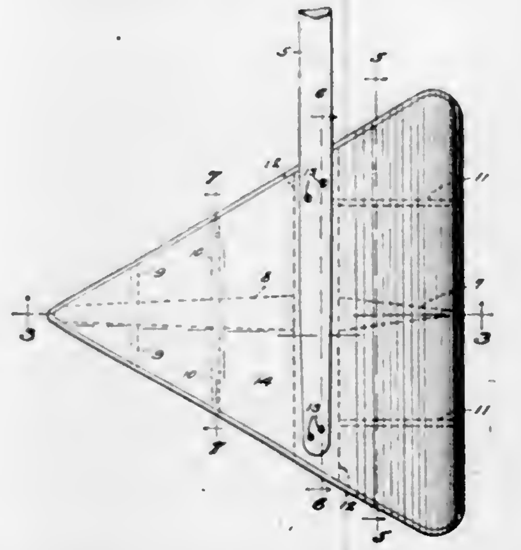
In a device of the type described, the combination comprising a layer of soft gelatin supported upon a tightly stretched wire mesh screen and a hardened gelatin image adhesively secured to the surface of said soft gelatin layer, said hardened gelatin image adapted to be released by dissolving the soft gelatin in hot water.

2,422,388
AIRPLANE PROPELLER

Arthur W. Billings, Portland, Maine

Application April 5, 1943, Serial No. 481,917

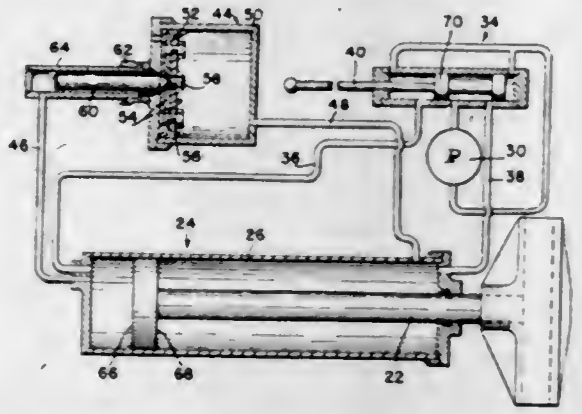
2 Claims. (Cl. 170—156)



1. An airplane propeller comprising a rotatable supporting arm, triangular blades secured to the arm adjacent to the ends of the arm, the arm having connection with the rear surfaces of the blades at points midway between the front and rear edges of the blades, and the rear portions of the impact surfaces of the blades being curved in the direction of rotation of the propeller.

2,422,389
CLOSED HYDRAULIC TRANSMISSION APPARATUS WITH COMPENSATING MEANS FOR UNEQUAL MOTOR VOLUMES

Fred Biszantz, Galion, Ohio, assignor to The Galion Metallic Vault Company, Galion, Ohio, a corporation of Ohio
Application November 26, 1945, Serial No. 630,817
9 Claims. (Cl. 60—52)

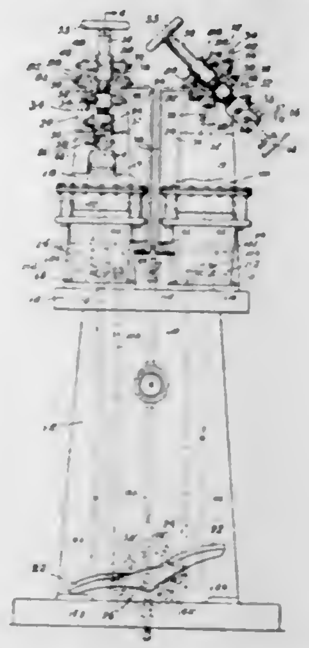


1. In combination, first and second fluid operable differential rams, channel means connecting the larger area of each with the smaller area of the other, and a pump connected to transfer fluid between said channels.

6. The combination, in a hoist mechanism for dump trucks and the like of a reciprocating differential hoist ram, a pump connected to supply fluid to the larger area of said ram while withdrawing fluid from the smaller area thereof, and means of supercharging said pump comprising a device connected to receive pressure fluid from said pump and to discharge a greater volume of fluid to said pump.

2,422,390
SHOE PRESS

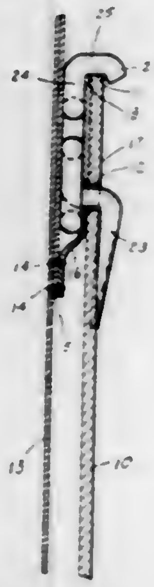
Pincus Brauner, Haverhill, Mass.
Application June 12, 1946, Serial No. 676,215
8 Claims. (Cl. 12—33)



1. In a shoe press having a generally horizontally disposed inflatable pad, work supporting mechanism for coaction with the pad, comprising a support fixed relative to the pad, a member mounted on the support and extending in general parallelism with the pad at a fixed location above the pad, a post disposed with its axis generally transverse of the direction of extent of said member and having a work holder at one end and means for manually rotating the post at its other end, means on said member slidably engaging said post intermediate of its ends, means threadedly engaging said post between said slidably engaging means and one end of the post, means including a toggle for quick-traverse movement of said threadedly engaging means relative to said slidably engaging means thereby to move said post and work holder to and from coacting relation to the inflatable pad, said toggle maintaining said threadedly engaging means against rotation whereby the work holder may be manually adjusted relative to the pad by manual rotation of the post through the medium of said manually rotating means at an end of the post.

2,422,391
FABRIC ANCHORAGE FOR CLOSURES AND THE LIKE

Ray A. Brenner, New Castle, Ind., assignor to New Castle Products, New Castle, Ind., a copartnership
Application July 19, 1945, Serial No. 605,991
7 Claims. (Cl. 160—389)



1. In combination with a cover sheet having an anchor sheet portion secured thereto and a support member having an aperture therethrough and suitably spaced from an edge thereof, an anchor clip interposed between the sheet and sheet portion and having a portion extending through the latter and said aperture and terminating in an offset portion, said latter portion bearing against said member, and having an opposite portion projecting laterally beyond the sheet portion and bearing on said edge and terminating in a hook portion bearing on said member on the same face thereof as the offset portion.

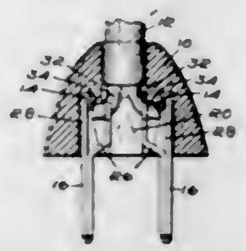
2,422,392
ETHYLENE-VINYL CHLORIDE POLYMERS

Merlin Martin Brubaker, Boothwyn, Pa., John Richard Roland, McDaniel Heights, Del., and Merlin Dewey Peterson, Oak Ridge, Tenn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 2, 1943, Serial No. 504,760
5 Claims. (Cl. 260—86)

3. In a process for producing ethylene-vinyl chloride polymers the step which comprises carrying on the polymerization at a temperature within the range of 30° C. to 300° C. under 5 to 3000 atmospheres pressure in the presence of an organic peroxide catalyst, 0.1 to 50 parts by weight of water per part of monomers, a buffer capable of maintaining the pH of the reaction mixture within the range 7 to 11, and a reducing salt of the group consisting of sulfites, bisulfites, hydrosulfites, and formaldehyde sulfoxylates, the quantities of organic peroxide and reducing salt being 0.0001 per cent to 5.0 per cent, and 0.001 per cent to 1 per cent, respectively, based on the combined weight of ethylene and vinyl chloride initially present.

2,422,393
ELECTRIC PLUG

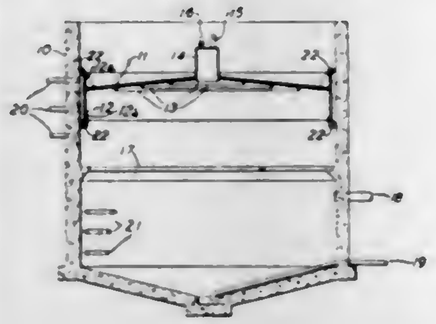
Frank D. Bryant, Wethersfield, Conn., assignor to Royal Electric Company, Inc., Pawtucket, R. I., a corporation of Rhode Island
Application November 17, 1945, Serial No. 629,290
6 Claims. (Cl. 173—361)



1. An electric plug comprising a housing having a conductor recess and a pair of blade-receiving slots, a conductor having a pair of flexible, insulated wires entering said recess, the housing having lateral passages receiving the respective wires and leading to the respective slots, a pair of blades for attaching the plug to an outlet, each blade having a pair of spaced arms received in one of said slots, the outer arm engaging a bare wire end and clamping it against the housing, and the inner arm having a resilient, forked tip clamping the insulation of the wire, and means securing the blades within the housing and locking said arms in clamping position.

2,422,394
METHOD OF DIGESTING SLUDGE ARRANGED AT DIFFERENT LEVELS AND APPARATUS THEREFOR

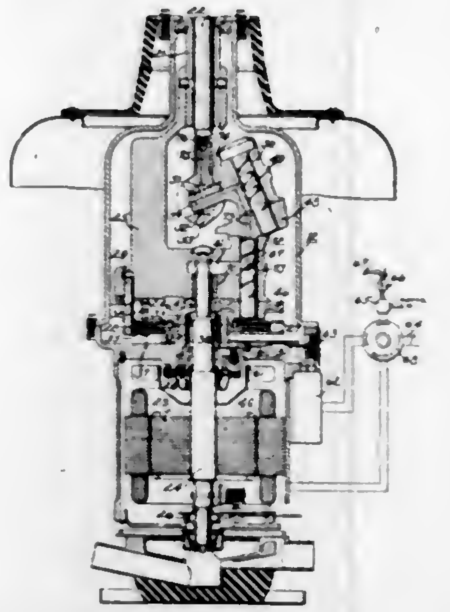
Ralph B. Carter, Jr., Maywood, N. J., assignor to Ralph B. Carter Company, Hackensack, N. J., a corporation of New York
Application August 3, 1945, Serial No. 608,633
2 Claims. (Cl. 210—6)



1. The method of digesting sludge which consists of sludge arranged in successively different levels, which consists in subjecting the upper portion of each next higher level to the accumulated gases emanating from the adjacent lower level of sludge of varying masses of sludge by submerging the accumulated gases below the next higher level to disturb and break up its floating particles, whereby the particles of said higher level will be freed of their gases, and their surface coating of by-products, which tend to inhibit complete digestion.

2,422,395
DOMESTIC APPLIANCE

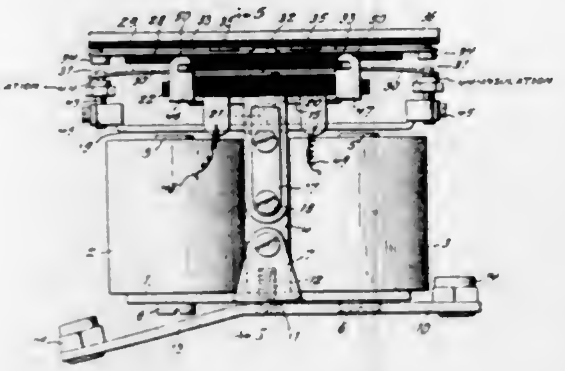
Kendall Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application March 31, 1942, Serial No. 437,076. Divided and this application November 24, 1943, Serial No. 511,515
16 Claims. (Cl. 192—.02)



1. A driving mechanism comprising a rotatable member, a rotary driving shaft, spiral spring clutch means, means to cause said spiral spring clutch means drivingly to connect said rotatable member and driving shaft, and means to cause said spiral spring clutch means to disconnect said rotatable member and driving shaft and to apply a braking action to said rotatable member.

2,422,396
BALANCED RELAY

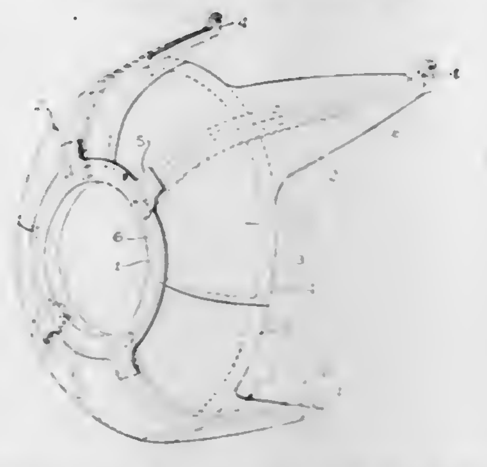
Robert S. Curry, Jr., Baldwin, John H. Horman, Tuckahoe, and August C. Kircher and Herbert Winsker, Jackson Heights, N. Y., assignors, by mesne assignments, to Allied Control Company, Inc., New York, N. Y., a corporation of New York
Application March 2, 1943, Serial No. 477,750
5 Claims. (Cl. 200—98)



3. A balanced relay comprising a pair of magnetic coils having their axes parallel and mounted on a common base of magnetic material, a bar of magnetic material between said coils and secured to said base, a balanced armature pivoted above and overlying said coils, an insulating member above said armature, a contact piece on one face thereof extending beyond the ends thereof, a pair of contact pieces on the other face cooperating with said first contact piece, insulating elements covering said pieces, said first contact piece being of spring metal having its ends biased into engagement with the ends of said

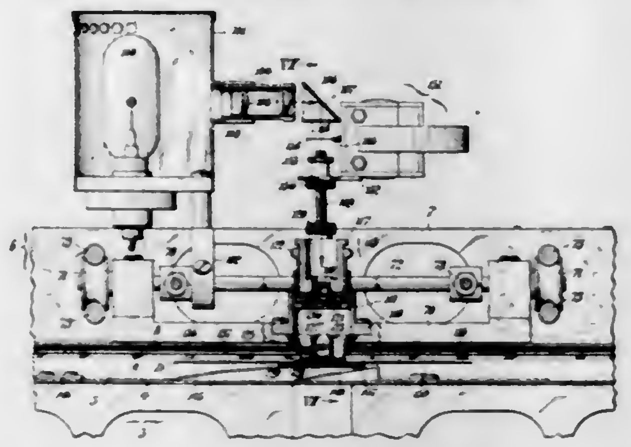
armature to balance the latter against vibration and a contact supporting member secured to said bar, said insulating member and elements and said contact pieces being secured to said bar.

2,422,397
ENGINE MOUNT
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 30, 1944, Serial No. 556,538
7 Claims. (Cl. 248—5)



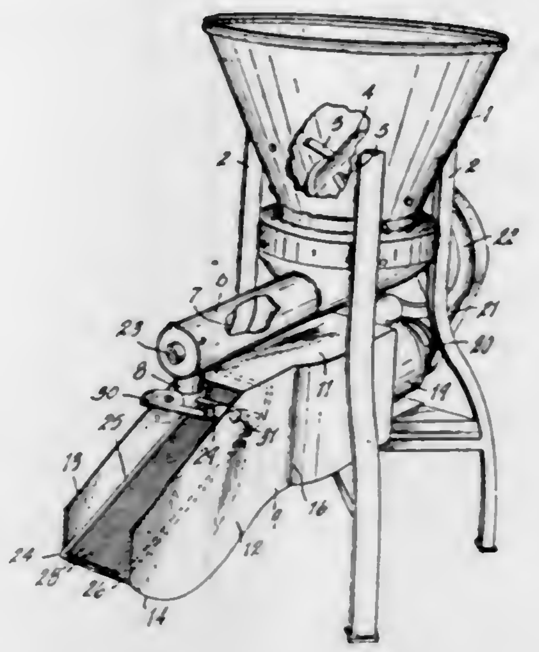
1. A cantilever semi-monocoque engine support, comprising a mounting ring having a plurality of outwardly projecting stub socket arms, and a plurality of rib assemblies, each comprising a stiffener rib extending outwardly and rearwardly and a skin sheet secured to said ring, with the stiffener ribs aligned with and forming continuations of said stub arms, the skin sheets being secured together along their meeting edges between ribs.

2,422,398
RECORDER AND REPRODUCER FOR SPIRAL PHOTOGRAPHIC DISK SOUND RECORDS
James J. Dilks, Jr., Haddon Heights, N. J.
Application November 3, 1943, Serial No. 508,838
13 Claims. (Cl. 179—100.3)



1. Sound recording apparatus comprising a mounting for a sensitized film disk; an element with an opening through which a minute area of the disk is exposed; means for producing a shaft of concentrated light; a recording beam controller with a light-restricting aperture; means responsive to sound vibrations for oscillating the recording beam controller crosswise of the light shaft; and means for rotating the mounting and concurrently moving the element aforesaid, the light producing means, the sound vibration responsive means and the recording beam controlled radially of the disk so that a spiral sound track is produced on the film disk.

2,422,399
CORN SHELLING AND SHREDDING, AND SEPARATOR MACHINE
John A. Erickson, Jackson, Mich.
Application April 26, 1945, Serial No. 590,404
6 Claims. (Cl. 146—76)

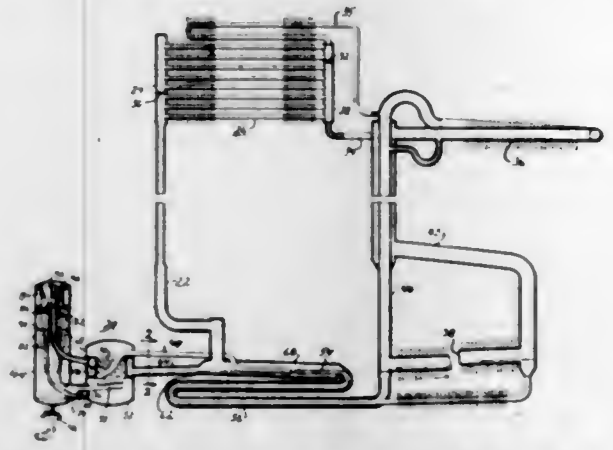


4. A separator for use with a corn shelling and shredding machine including means to remove the corn from the cob and to shred the cobs and attached husk and provided with a tubular discharge chute having a downwardly directed discharge and a conveyor screw within the chute for positively conveying the material to the chute discharge, said separator comprising a separator housing including bottom, top and side walls, the top wall terminating in substantially spaced relation to the rear ends of the bottom and side walls, a grid-like screen comprising a border frame consisting of side members and connecting end members, parallel grid wires extending longitudinally between and secured at their ends to the end members of the frame, said screen being arranged in a rearwardly inclined relation between said side walls and in spaced relation to the upper edges thereof with the forward end of the screen below and adjacent to the top, a forwardly inclined spreader plate for receiving the material from the discharge of the chute to direct and spread said material upon the screen, and a blower at the front end of said housing, said spreader plate extending across the housing with its forward end extending below the rear end of the top whereby a portion of the air discharged from the blower is directed over the spreader plate, the longitudinal grid wires of said screen being unobstructed by cross members below the point of discharge of the spreader plate thereto.

2,422,400
PRODUCTION OF N-METHYLAMIDES
Mark Wendell Farlow, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 7, 1944, Serial No. 530,041
7 Claims. (Cl. 260—309)

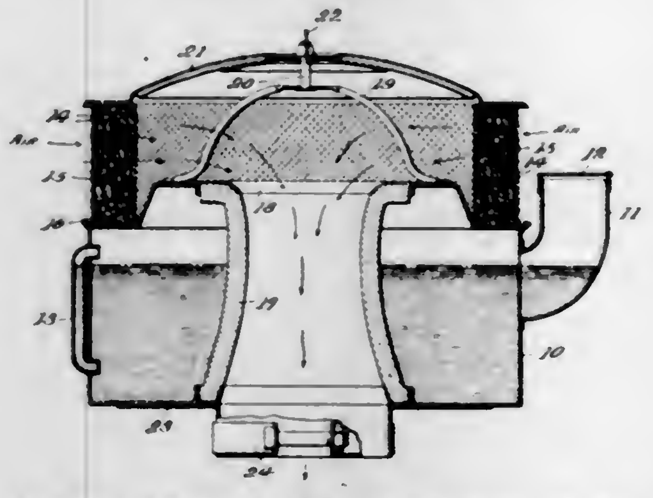
1. A process for obtaining N-methylamides which comprises reacting a carbonamide compound selected from the group consisting of N-methylol and N-alkoxy methylamides with hydrogen in the presence of an active metal hydrogenation catalyst, at a temperature ranging from about 50° C. to 150° C. and under a superatmospheric pressure above about 100 pounds per square inch.

2,422,401
GENERATOR ARRANGEMENT FOR ABSORPTION REFRIGERATING SYSTEMS
Richard S. Gaugler, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 6, 1943, Serial No. 478,182
8 Claims. (Cl. 62—119.5)



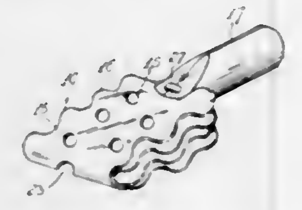
2. Refrigerating apparatus including a container, an absorber, separate conduit means extending between said absorber and the lower portion of said container for conducting weak liquor from the container to the upper portion of the absorber and for conducting rich liquor from the absorber to the container, vapor lift means for lifting the rich liquor in said conduit means and discharging it in said container, said conduit means conveying the rich liquor having a portion adjacent said container above the liquid level adjacent the outlet of the absorber, means for conducting vapor from the container and discharging it into the portion of the rich liquor conduit adjacent the container, and means for removing said vapor from said rich liquor conduit means after flowing in counter-current fashion above the rich liquor therein, said rich liquor conduit means containing capillary means extending upwardly from the surface of the rich liquor into contact with the vapor flowing above the surface of the liquor.

2,422,402
HUMIDIFIER FOR CARBURETERS
Antoine Gazda, Providence, R. I.
Application November 16, 1943, Serial No. 510,548
2 Claims. (Cl. 261—99)



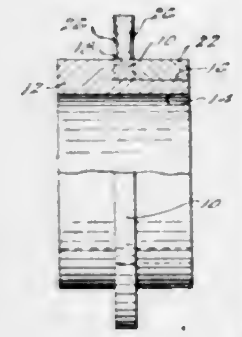
1. A humidifier for the carbureter of an internal combustion engine comprising a multiwalled water reservoir including a substantially central inner wall defining a passageway therethrough, an outer cylindrical wall spaced from and encompassing said central inner wall, and annular top and bottom walls extending between said inner and outer walls, said inner wall being constituted by a nozzle member of Venturi configuration and being porous whereby the contents of said reservoir may be drawn therethrough while the remainder of the walls are of nonporous material, said top wall being adapted to support means for filtering air, said passageway being provided with an inlet for filtered air at the top thereof, and means interconnecting the other end of said passageway with the air inlet of the carbureter, the said Venturi configuration giving rise to a jet effect through said passageway, whereby enhanced entrainment of moisture from said reservoir through said inner wall and enhanced admixture of air and entrained moisture are realized.

2,422,403
SIGNAL FLARE
John A. Gearon and Edward Gearon, Chicago, Ill.
Application December 14, 1944, Serial No. 568,152
2 Claims. (Cl. 102—37.8)



2. A signal flare comprising a body member having a fireproof flare portion with inner and outer surfaces, a flare load attached to said inner surface and extending thereacross in a tortuous path throughout substantially the length of the flare portion, said flare portion having a plurality of air holes spaced along the path of the flare load, said flare portion being folded inwardly on itself with the flare load on the inside, and means for holding the flare load in folded position, said flare portion having ignition holes in the front to receive ignition means to ignite the flare load, said body member having an integral handle portion at one end beyond the flare portion, said handle portion being folded inwardly on itself, at right angles to said flare portion to form a handle.

2,422,404
ROTARY CUTTING TOOL
Earl G. Goehle, Royal Oak, Mich.
Application September 27, 1945, Serial No. 618,919
3 Claims. (Cl. 29—103)

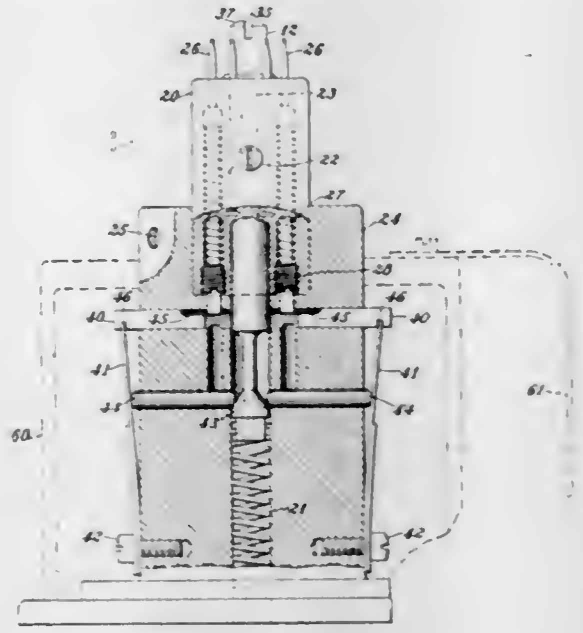


1. A rotary cutting tool comprising a combination hub and supporting member, said mem-

ber having an axial opening therethrough and an outer periphery coaxial therewith, said member having an annular pocket extending around and through the periphery thereof with opposed walls lying in planes transverse to the axis of said opening, and a thin flat annular shaped cutting element of cemented carbide having the inner annular portion thereof disposed within said pocket and substantially all of said inner annular portion being permanently brazed to both of said walls, said cutting element having the remaining portion thereof exposed and projecting beyond and around the periphery of the hub, the radial dimension of said exposed portion being relatively small compared to the overall diameter of the cutting tool, whereby the exposed portion of said cutting element is supported adjacent the zone of cutting.

2,422,405
GROMMET AND EYELET SETTING APPARATUS

Sylvester L. Gookin, Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 20, 1944, Serial No. 559,508
10 Claims. (Cl. 218—25)

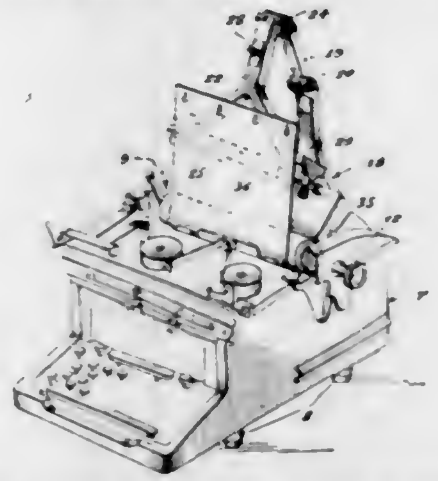


1. Apparatus for installing eyelets in pierceable sheet material comprising an anvil for supporting an eyelet standing on its flange end, a pointed spindle telescopically related to the anvil to extend through the eyelet, a spring by which the point of the spindle is normally raised above the upper end of the eyelet, and means for locking and unlocking the spindle in its raised position while the anvil remains at a constant level.

2,422,406
ILLUMINATION FOR TYPEWRITERS

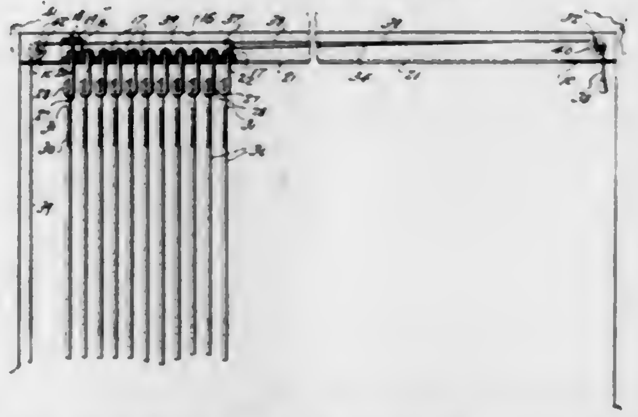
Ronald A. Gordon, New York, N. Y.
Application April 8, 1943, Serial No. 482,291
5 Claims. (Cl. 240—2)

1. A combination of parts for typewriter illumination comprising, in association with any conventional typewriter, a stationary stanchion behind the typewriter, an element adjustably connected to said stanchion by a horizontal pivot and including a fluorescent lamp at its free end in substantial parallelism with the platen, said element having such length that it may be swung about said pivot to dispose the lamp directly above the typewriter platen in close proximity thereto, and ballast means for the lamp housed within said stanchion.



2,422,407
WINDOW BLIND STRUCTURE

Martin Green, Newark, N. J.
Application August 28, 1945, Serial No. 613,081
3 Claims. (Cl. 160—172)



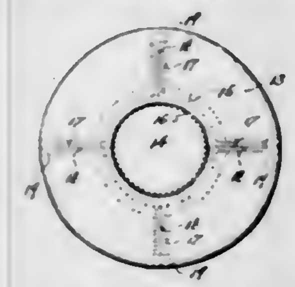
1. A Venetian blind structure comprising a channeled guideway means adapted to be mounted across a building opening to be served by the blind structure, louvre carriers turnable about vertical axes, one of said carriers being nonshiftably mounted adjacent one end of said guideway means and the others being shiftable along said guideway means, said carriers each having pivoting shafts dependently projecting exteriorly from said guideway means, said guideway means having a slotway through which the pivoting shafts of the shiftable carriers may move, louvres severally attached to said carrier shafts to depend perpendicularly therefrom, flexible means interconnecting said carriers to effect simultaneous turning movements thereof and of the louvres supported thereby when the same are actuated, manipulatable means to produce turning movements of said carriers and louvres, and additional manipulatable means for moving the shiftable carriers along said guideway means to carry the louvres to and from operative mutually spread disposition across the opening served thereby.

2,422,408
WRAPPING DIE

Martin Greenbaum, Newark, N. J., assignor of one-half to Charles Handler, Newark, N. J.
Application October 12, 1944, Serial No. 558,473
3 Claims. (Cl. 93—2)

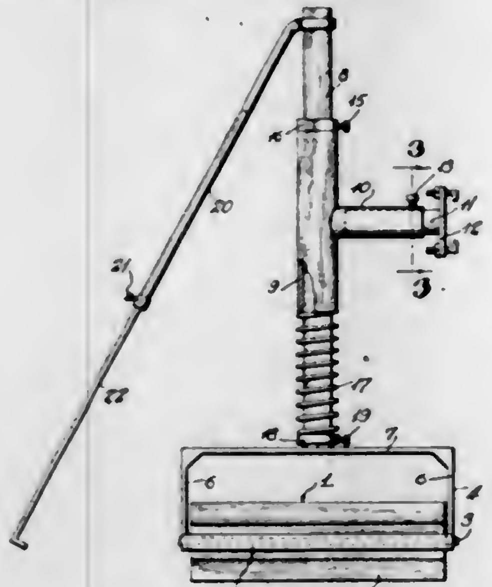
1. In apparatus for the purposes described, a wrapping die comprising an apertured die body of substantial thickness through which wrapping

material together with a superimposed object to be wrapped therein may be passed, said aperture being bounded by tensionally yieldable die means adapted to exert elastic constrictive pressure upon the object moved therethrough, whereby to draw and iron out the accompanying wrapping material into snug covering relation to the latter, and compression spring means housed in the die body outwardly of said die means operative to yieldably exert inward thrust upon the latter to normally center the same relative and conformably to the die body aperture.



2,422,409
STALK CUTTER

William H. Greenroyd, Carey, Tex.
Application August 17, 1945, Serial No. 611,047
4 Claims. (Cl. 55—61)

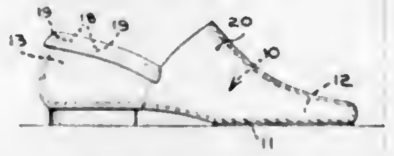


1. A stalk-cutting attachment for a tractor comprising a sleeve member, a horizontal tubular arm projecting at right angles to said sleeve member, a clamping plate member adapted to be secured to the frame of the tractor, a projection on said plate member received in said tubular arm, a setscrew in said arm cooperating with said projection to secure the sleeve member in a desired angular position with respect to the tractor, a shaft slidably mounted in said sleeve member, a stop member on the upper portion of said shaft adapted to bear on the upper edge of said sleeve member, stop means on the lower portion of said shaft, a cutter wheel assembly carried by the lower end of said shaft, and a coiled spring encircling said shaft and bearing between said lower stop means and the lower edge of said sleeve member.

2,422,410
REMOVABLE SLIPPER AND SHOE LINING

Albert Gross, Brooklyn, N. Y.
Application January 15, 1945, Serial No. 572,909
1 Claim. (Cl. 36—10)

A removable shoe and slipper lining, comprising a lining foot having a double layered sole, the bottom layer having a longitudinally extending central opening throughout substantially the length of said sole, a stiff insole engaging between said layers and covering said opening and removable by downward pull through said central opening, and elastic bands mounted across the sides of said central opening adjacent the ends thereof for holding the opening in a closed position.



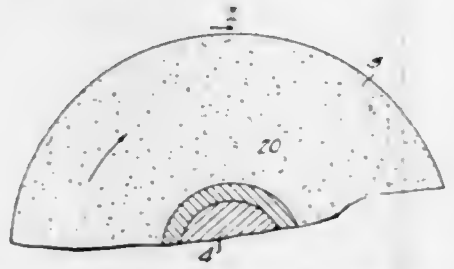
2,422,411
TAENIACIDAL MIXTURE

James Erwin Guthrie, Ashland, Ohio, assignor to Dr. Hess & Clark, Inc., Ashland, Ohio, a corporation of Ohio
No Drawing. Application May 23, 1945, Serial No. 595,473
8 Claims. (Cl. 167—53.1)

1. A taeniacidal mixture comprising a minor portion of ferric arsenate and a major portion of a tin salt chosen from the group consisting of stannous maleate, stannous fumarate and stannous butyrate.

2,422,412
PROTECTION OF PUMP SURFACES

Daniel van der Merwe Haarhoff, Alberton, Transvaal, Union of South Africa, assignor to Anti-Abradants (Proprietary) Limited, Johannesburg, Transvaal, South Africa
Original application May 16, 1939, Serial No. 274,055. Divided and this application February 24, 1942, Serial No. 432,137. In the Union of South Africa December 18, 1937
3 Claims. (Cl. 117—29)



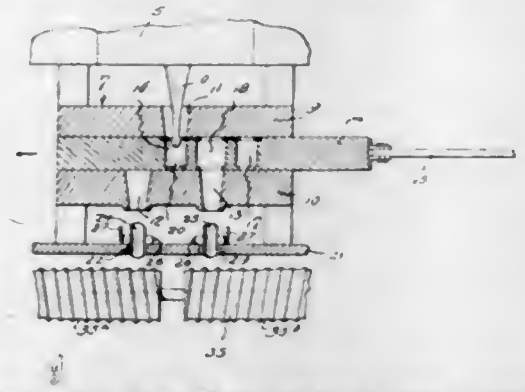
1. A method of protecting a surface subjected to abrasion, comprising the steps of applying to the surface at least one coat of a primer solution which is suitable to bond rubber to said surface and is also suitable to bond hard and tough granular material to rubber, applying to the outermost primer coat, whilst it is in an adhesive condition, at least one coat of a cold-vulcanized rubber solution, applying to the outermost rubber coat at least one further coat of a primer solution, sprinkling the outermost of said further coats, whilst it is still in adhesive condition, with hard and tough wear-resistant granular material, and applying to said wear-resistant material at least one further coat of primer solution.

2,422,413
MARBLE MAKING MACHINE

Oris G. Hanlon, Massillon, Ohio
Application May 23, 1944, Serial No. 536,971
2 Claims. (Cl. 49—14)

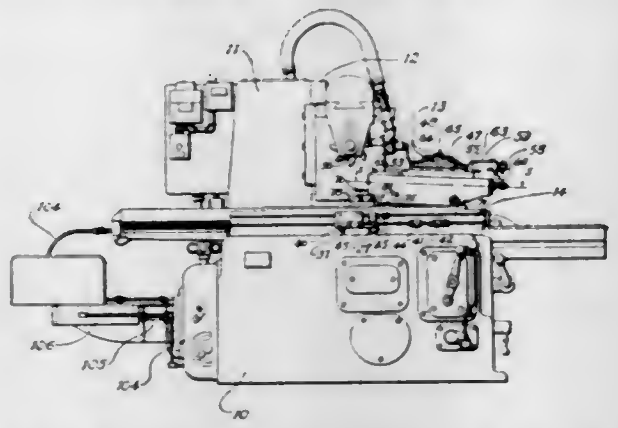
1. A marble making machine comprising a guide including an upper part having a cup adapted to receive a stream of molten glass and

also including a bottom spaced from the upper part, a cutter bar mounted in the guide for reciprocating movement and having a plurality of cups formed therein and including front and rear cups and a center cup adapted to successively register with the first-named cup, cutters on the upper edges of the second-named cups, and discharge funnels in the bottom of the guide adapted to receive the material from said second-named cups.



2,422,414
INDEX MILLING MACHINE

Walter Hoier, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application April 19, 1943, Serial No. 483,686
8 Claims. (Cl. 90—21.5)

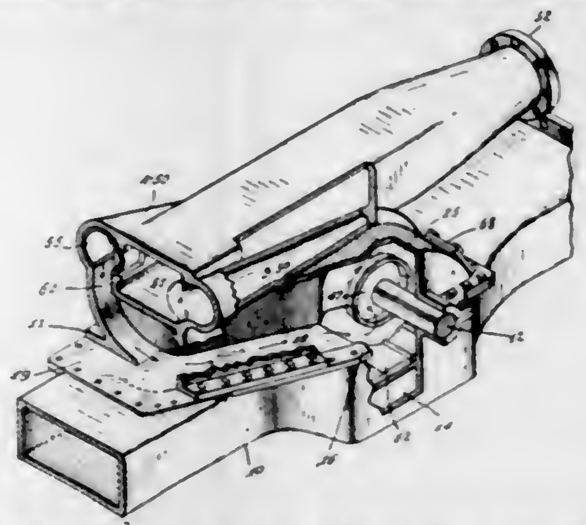


1. In a milling machine having a bed, a table reciprocably mounted on the bed, a tool supported by the bed in operative relation to the table, the combination of power operable transmission means for reciprocating the table, an indexible work fixture mounted on the table, fluid operable means self-contained in the fixture for effecting indexing thereof, a reversing valve for said fluid operable means, means actuated by said transmission for supplying fluid pressure to said valve, a trip operable member carried by the table for shifting said reversing valve in one direction, and fluid operable connections effected by said fluid operable means for shifting the reversing valve in the other direction and simultaneously repositioning said trip operable member.

2,422,415
CENTRIFUGAL PUMP

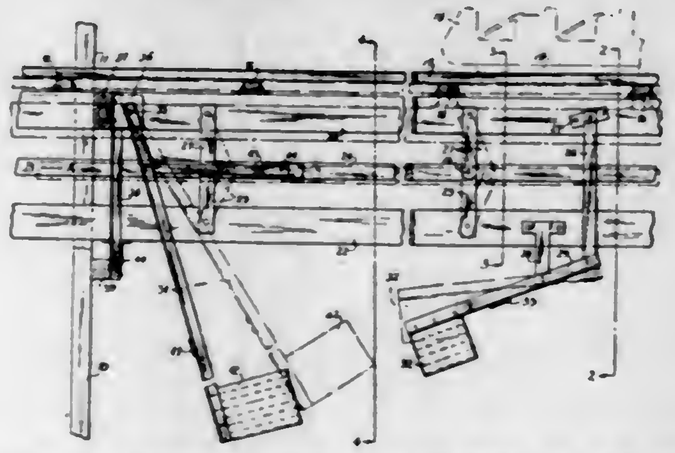
Lewis G. Howe and Elmer P. Smith, Anderson, Ind., and Russell K. Annis, Columbus, Ohio; said Howe and said Smith assignors to Howe Fire Apparatus Company, Anderson, Ind., a corporation of Indiana
Application December 13, 1943, Serial No. 514,034
10 Claims. (Cl. 103—106)

1. In a series-parallel centrifugal pump adapted to be mounted transversely on the longitudinal frame members of a truck and comprising an upper and a lower housing mating in a horizontal plane, the lower housing forming an intake manifold with opposite end-inlet ports, and an outlet manifold in said upper housing with opposite end-outlet ports presented parallel with said intake ports, the combination of a pair of pump units formed in said housings, a main shaft for said pump units on a transverse axis in said mating plane, impellers in said pump units and mounted on said main shaft, said axis and pump units being offset toward one end of said intake manifold, volutes for said two pump units terminating adjacent to a vertiical plane containing the axis of the pump shaft, diffusers of gradually increasing cross-sectional area merging from said volutes substantially tangentially and leading toward the opposite end of the outlet manifold, one of said diffusers being in open communication with said outlet manifold, a valve recess at the end of said other diffuser, an outlet port from said recess to said outlet manifold, a suction chamber for the pump unit supplying said open diffuser, a return passage leading from said valve recess downwardly and transversely between the outlet and intake-manifolds and back to said suction chamber, an intake port in the floor of said suction chamber for inflow from said intake manifold, a check valve to prevent reverse flow through said intake port, and a manually operable valve in said valve recess to receive the discharge from said other diffuser, said valve having a position in which it discharges into said outlet-port and a second position in which it discharges into said return passage.



2,422,416
SAFETY BRAKE FOR ROLLER COASTERS

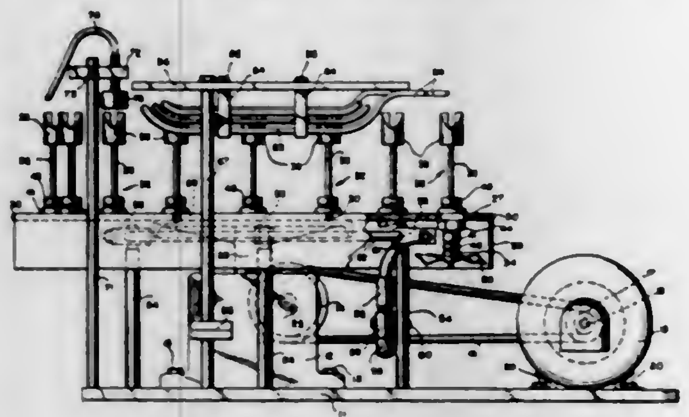
Harvey J. Humphrey, Cleveland, Ohio
Application November 28, 1945, Serial No. 631,323
4 Claims. (Cl. 188—62)



1. In a roller coaster or the like of the type having a trestle work including tracks upon which the cars travel and means for stopping the cars at a passenger unloading station; a structure for preliminarily braking the movement of the cars before the same reach the unloading station comprising vertically movable means located intermediate and extending longitudinally of the tracks and provided with brake elements adapted to cooperate with brake elements on the underside of the cars when said means is in raised position, said means including an elongated substantially horizontal beam, a fixed beam extending parallel to said elongated beam and located beneath the same, a plurality of spaced toggles interconnecting said beams, an actuating bar located intermediate said beams and operatively connected with said toggles such that movement of said bar in one direction collapses said toggles and lowers said movable means while movement thereof in the opposite direction extends said toggles and raises said movable means to braking position, a plurality of longitudinally spaced counterweights movably carried by said fixed beam, and operative connections between said counterweights and said elongated beam for normally maintaining said movable means in raised braking position.

2,422,417
INDUCTION HEATING APPARATUS WITH ROTATABLE WORK CONVEYOR

Volney A. Hutchinson, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application November 4, 1944, Serial No. 561,906
2 Claims. (Cl. 219—13)

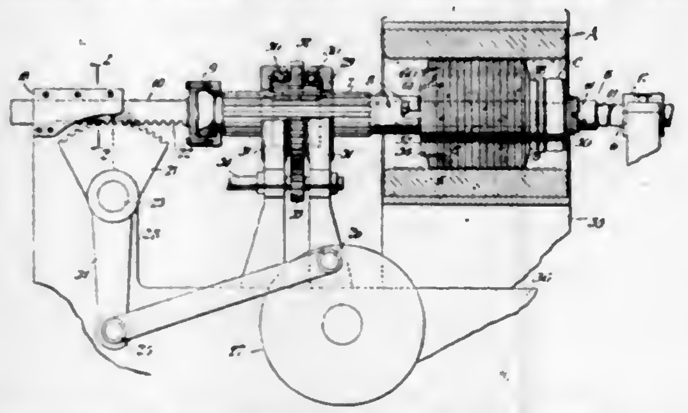


1. In induction heating apparatus, a coil for inductively heating articles, a turret, a plurality of article holding spindles on said turret, means for rotating said turret to successively pass said article holding spindles through said coil, a fan connected near the bottom of each of said spindles to cause rotation thereof, and a pipe overlying said fans but underlying said turret having air under pressure therein and having a plurality of spaced openings in the bottom thereof whereby air being forced through the openings in said pipe will impinge on said fans and cause rotation thereof and of said spindles associated therewith independently with respect to said turret.

2,422,418
HONING METHOD AND APPARATUS

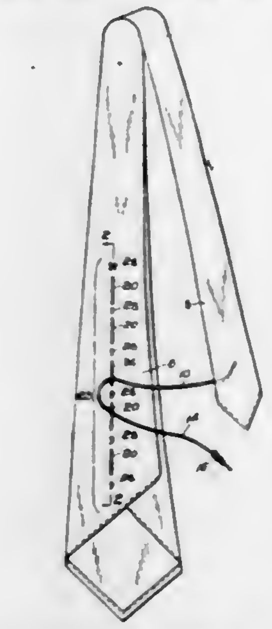
Marsden C. Hutto, Detroit, Mich., assignor to Vinco Corporation, Detroit, Mich., a corporation of Michigan
Application September 7, 1945, Serial No. 614,893
6 Claims. (Cl. 51—157)

5. Apparatus for finishing resiliently radially expansible circular rings comprising an internal cylindrical abrasive device, a shaft movably mounted centrally within said abrasive device, a plurality of circular plates on said shaft having end faces for engagement with the ends of rings to be finished, means for transmitting rotary movement to said plates from said shaft while permitting movement of said plates axially along said shaft, means for resiliently urging said plates together axially of said shaft whereby rings may be gripped between said plates and means for moving said shaft relative to said abrasive device.



2,422,419
NECKTIE

Joseph E. Johnson, Islington, Mass.
Application October 31, 1944, Serial No. 561,281
8 Claims. (Cl. 2—145)

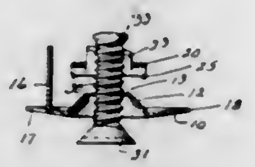


1. In a four-in-hand necktie, a band having two terminal portions, one of which overlies the other when the necktie is in use, a ligature disposed along one terminal portion and fastened thereto at intervals, thus forming between the fastening points a succession of keepers along the rear face of such terminal portion, and a ligature attached to the other terminal portion and having a free end to be passed under any one of said keepers and then attached to a shirt button.

2,422,420
CLOSURE DEVICE

Charles H. Judd, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application November 22, 1943, Serial No. 511,223. Divided and this application April 10, 1944, Serial No. 530,374
1 Claim. (Cl. 220—25)

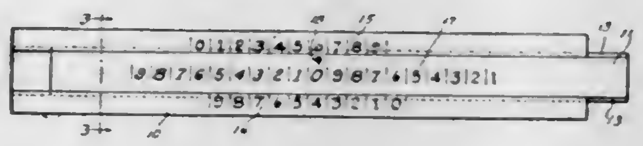
A cover plate device adapted to be secured over an opening in a panel by application entirely from one side of the panel and in substantially flush relation with said panel, comprising, a cover plate in the form of a sheet metal disc adapted to be positioned over said panel opening at the forward side of the panel, said cover plate having a bolt passage and a countersink surrounding said bolt passage, an integral projection comprising a strip having a portion formed by radially slitting the periphery of the cover plate and bending it inwardly to project generally normal to the undersurface of said cover plate at a point spaced inwardly from the peripheral edge thereof, a sheet metal bridge plate having a bolt receiving opening and integral thread means comprising resilient thread engaging tongues stamped from the material of said bridge plate adjacent said bolt receiving opening, said bridge plate being adapted to pass through the panel opening from the forward side of the panel and bridge said opening at the rearward side of the panel, and a bolt extending through said bolt passage in the cover plate having a head receivable in the countersink therein in substantially flush relation with the cover plate, said bolt having a threaded connection with said integral thread engaging tongues on the bridge plate, and said projection on the cover plate being engageable with the bridge plate to prevent relative turning movement of the bridge plate when the bolt is rotated to tighten said cover plate and bridge plate in clamping relation with opposite sides of the panel adjacent said panel opening, said resilient thread engaging tongues on the bridge plate providing an automatic thread locking action on the bolt in tightened position to prevent loosening thereof as a result of vibratory motion or the like.



2,422,421

SLIDE RULE

Hyman M. Kaufman, Amesbury, Mass.
Application June 14, 1946, Serial No. 676,796
2 Claims. (Cl. 235—70)

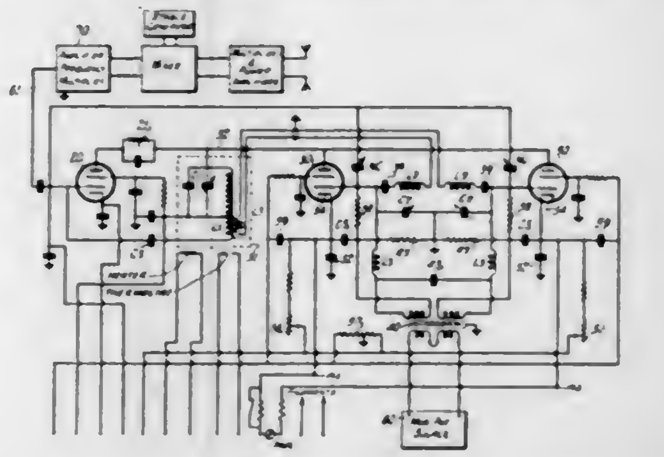


1. A slide rule for addition and subtraction comprising a base member and a slide carried thereby, a pair of scales on said base above and below said slide respectively and a scale on said slide to cooperate therewith, said scales being divided into equal spaces, the spaces of the one of said base scales carrying numbers in arithmetical progression from "0" to "9," the spaces of the other of said base scales carrying numbers in arithmetical regression from "9" to "0" with the "9" on each of said scales registering with the "1" on the other scale, the spaces of said slide scale carrying numbers in a double arithmetical regression from "9" to "0" and "9" to "1" and an index mark on said slide registering with the "0" thereon and with the first mentioned base scale.

2,422,422

REACTANCE TUBE CONTROLLED GENERATOR

Nathaniel I. Korman, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1942, Serial No. 456,730
22 Claims. (Cl. 179—171.5)



1. A simulated reactance comprising two electron discharge systems each having an electron receiving electrode, an electron flow control electrode, and an electron emission electrode, an inductive reactance across which alternating voltages appear, connections tying the electron receiving electrodes together and to a terminal of said inductive reactance to set up on said electron receiving electrodes voltages of a first phase, a connection between a point on said inductive reactance and the electron emission electrodes of said systems, a circuit, including an inductance tuned to the frequency of said alternating voltages, connected between said flow control electrodes, a coupling between said inductances whereby voltages of a second phase are set up in phase opposition on said electron flow control electrodes, and means for supplying a third voltage of reversible phase and adjustable amplitude in phase to said flow control electrodes to thereby modify the phase of said voltages of said second phase.

2,422,423

TREATMENT OF PAPER

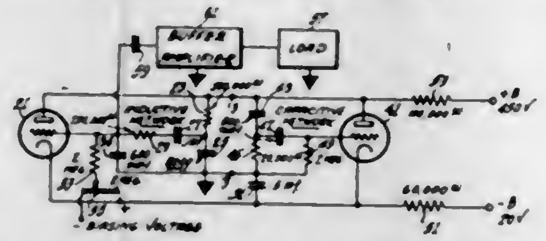
Hamline M. Kvalnes, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 18, 1944, Serial No. 564,176
1 Claim. (Cl. 117—65)

A process for improving the dimensional stability of cardboard paper products adapted for use in making business machine cards of the perforated card type, which comprises dipping such cardboard having a thickness of at least 0.005 inch for not more than 5 seconds in a solution consisting essentially of water and methylolureas having a formaldehyde:urea mol ratio between about 1.3 and 1.6 at a pH of about 7.0 to 9.0, said solution having a concentration of about 10% to 50% by weight, withdrawing the said cardboard from the said solution when the cardboard has been only partially penetrated by the solution, drying the resultant impregnated cardboard and thereafter heating the resultant dried individual sheets of impregnated cardboard at a temperature of about 280° to 320° F. under a pressure of about 200 to 1000 pounds per square inch, whereby a cardboard product having a surface impregnated with infusible, insoluble urea-formaldehyde resin is obtained.

2,422,424

WIDE RANGE VARIABLE FREQUENCY GENERATOR

Vernon D. Landon, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 19, 1944, Serial No. 532,017
11 Claims. (Cl. 250—36)

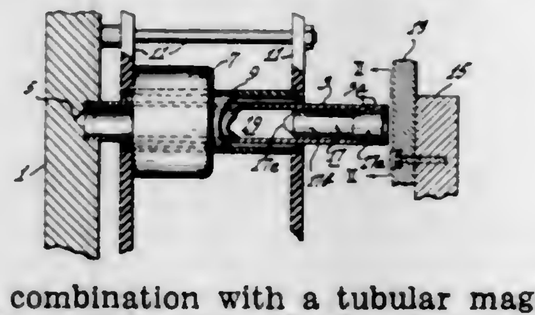


1. An oscillation generator including, in combination, a phantom tuned network comprising interconnected capacitive and inductive reactance thermionic tube circuits, means for energizing said circuits, and means providing a net power factor for said network of a negative value so as to provide sustained oscillations therein at a frequency determined by the effective impedances of said circuits.

2,422,425

ART OF TUNING MAGNETOSTRICTIVE ELEMENTS

Albert Edward Lane, Wenonah, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 29, 1944, Serial No. 565,725
3 Claims. (Cl. 172—126)

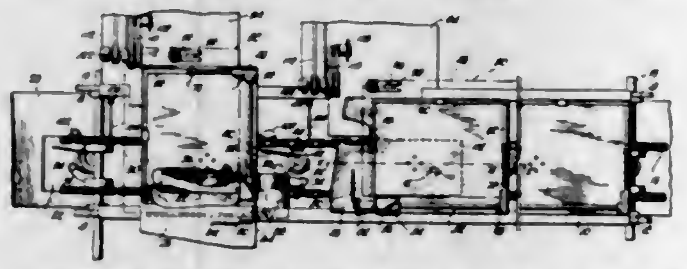


1. The combination with a tubular magnetostrictive element having a fixed-end and a free-end and dimensioned to respond to a certain fundamental frequency, of a nonmagnetic member secured to the interior of said tubular element adjacent to the said free-end thereof, said nonmagnetic member comprising a body portion of a length corresponding substantially to the inner diameter of said tubular element and a concentric dependent portion of a diameter less than that of said body portion.

2,422,426

AUTOMATIC BAG SEWING MACHINE

Frank Lombardo, Kansas City, Mo.
Application August 11, 1944, Serial No. 548,976
8 Claims. (Cl. 112—10)

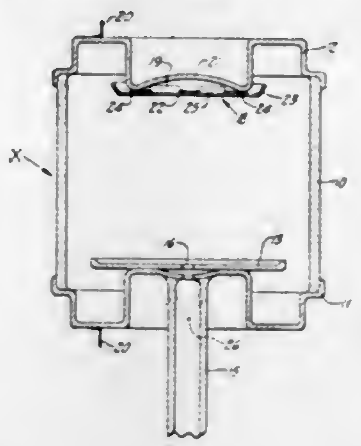


1. In bag making equipment of the character described, a pair of sewing machines mounted in tandem; a conveyor for moving the bags along a straight path of travel past both sewing machines; a bag supporting table pivotally carried by said conveyor; and mechanism for turning the table and the bag held thereby after leaving one machine and before it reaches the second machine.

2,422,427

ELECTRONIC DISCHARGE DEVICE

Harry L. Louden, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application January 21, 1944, Serial No. 519,112
4 Claims. (Cl. 250—165)

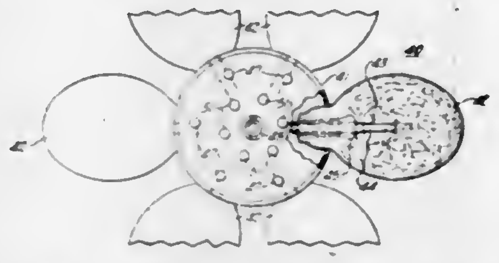


1. In a discharge device, the combination with a discharge envelope having a reentrant wall area and an opposed cathode surfaced with reactive metal, of a charge adjacent said reentrant wall area which yields alkali metal vapor under heat, and a dished cover enclosing said charge between the same and said reentrant wall area, while permitting escape of matter outward from between them, the margin of said cover extending outward and rearward toward the envelope wall around said reentrant area.

2,422,428

MULTIFLASH LAMP

Henry Herbert Magdsick, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Original application July 5, 1943, Serial No. 493,519. Divided and this application February 21, 1944, Serial No. 523,237
5 Claims. (Cl. 67—31)



4. A multiflash lamp unit comprising a common hollow cylindrical base shell having an end wall and an axial shaft-receiving passage, a plurality of flash bulbs recessed into and permanently secured to said base and extending radially outward therefrom, each of said bulbs having a pair of lead-in wires extending therefrom interiorly of the said base shell, and two sets of separate contacts arranged concentrically on the exterior surface of said end wall around said passage, there being a pair of such contacts, one contact from each set, corresponding to each flash bulb, each of the lead-in wires of each flash bulb extending directly to one of the contacts of the corresponding pair of contacts and being connected thereto.

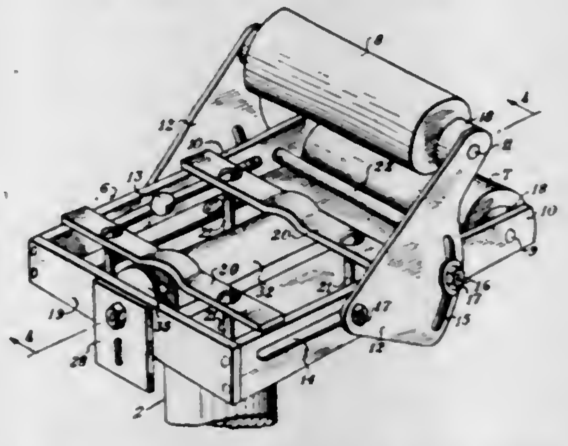
2,422,429
MATT BLACK PAINT COMPOSITION

John David Main-Smith and Edwin Charles Jones, Farnborough, England
No Drawing. Application August 9, 1945, Serial No. 609,926. In Great Britain April 25, 1945
6 Claims. (Cl. 106—193)

5. A matt black coating composition comprising a solution of a cellulose ether and a pigment powder comprising aniline black distributed through and over the surfaces of granules of an oxidic compound of trivalent chromium, wherein the weight ratio of the pigment to other constituents of the finished coating obtainable from the composition is between 1.75 to 1 and 2.5 to 1.

2,422,430
WORK HOLDER FOR POLISHING MACHINES

James J. Manderscheid, John Ratkovich, and Vincent Kovacic, Chicago, Ill., assignors to the Manderscheid Co., Chicago, Ill., a partnership consisting of James J. Manderscheid and P. M. Manderscheid
Application November 29, 1945, Serial No. 631,532
9 Claims. (Cl. 51—236)

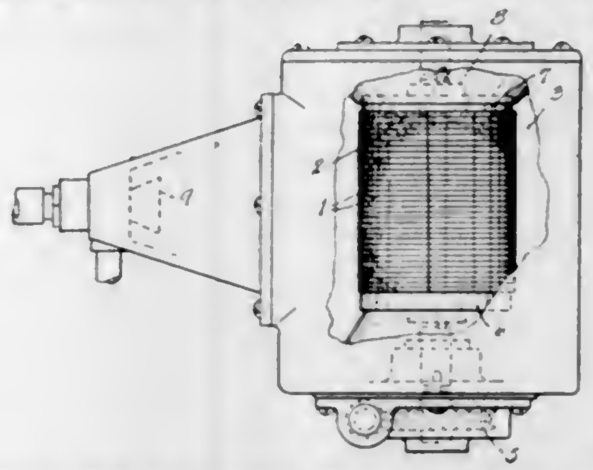


1. Mechanism for mounting and retaining a tube or rod during a polishing operation, comprising a portable machine adapted to be readily moved into position adjacent a polishing wheel and including an adjustable frame, a pair of rolls freely rotatable on the frame, means for adjusting one of said rolls with respect to the other to mount and retain tubes or rods of different cross-sections therebetween during the polishing operation, means for tensionally retaining the frame and rolls in adjusted position, and means for releasing the tension whereby to cause retraction of the frame and rolls.

2,422,431
METHOD OF MAKING PISTON RINGS

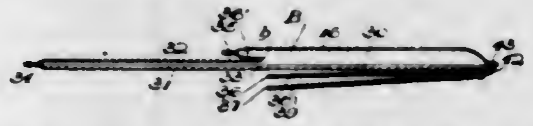
Adolph E. Melrose, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application February 28, 1944, Serial No. 524,311
5 Claims. (Cl. 51—290)

1. The method of treating split cast iron piston rings normally having a substantial gap when uncompressed comprising arranging a plurality of such rings in side by side relation upon a supporting mandrel, and subjecting the peripheries of the rings while so assembled and supported and while the mandrel is being rotated to a blast of blasting grit particles until a cylinder wall contacting peripheral surface results comprising closely disposed indentations covering substantially the entire surface, the width of such indentations being of the order of .001 to .020 of an inch and the depth of the order of .00025 to .003 of an inch, said rings being resiliently flexed from their normally opened gapped position to a gap opening of a predetermined size and held in such flexed position on said supporting mandrel during said blasting of the rings.



2,422,432
COMBINED WALLET AND CARD CASE

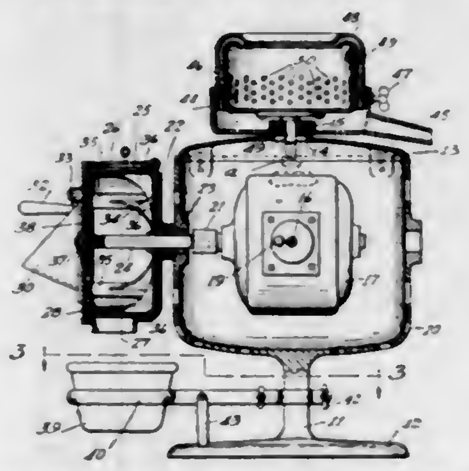
Edward F. Miller, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Application December 24, 1943, Serial No. 515,560
4 Claims. (Cl. 150—35)



3. A wallet comprising a foldable outer wall or cover member having a line of fold substantially intermediate the ends thereof providing foldable cover sections, and a currency compartment comprising one of said cover sections, a flexible wall section having one end secured to the inner face of one end of said one of said cover sections, another flexible wall section having one end secured to the inner face of the opposite end of said one cover section, and an intermediate flexible wall section having one end foldably connected to the inner end of the first mentioned wall section and its opposite end foldably connected to the outer end of the said second mentioned flexible wall section, all three of said wall sections cooperating with the cover section to which the two first mentioned flexible wall sections are connected to provide an elongated currency compartment.

2,422,433
ADJUSTABLY MOUNTED MOTOR

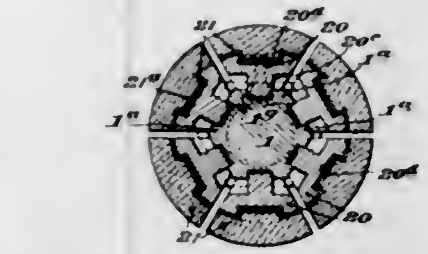
Louis Orland, Los Angeles, Calif.
Application August 17, 1944, Serial No. 549,818
5 Claims. (Cl. 172—36)



1. The combination with a housing having a plurality of openings for the accommodation of parts of operating structures, of a motor mounted to rotate bodily within said housing so as to selectively align the shaft of said motor with said openings.

2,422,434
BLADE

John J. Palotsee, Youngstown, Ohio
Original application March 30, 1945, Serial No. 585,629, now Patent No. 2,412,419, dated December 10, 1946. Divided and this application November 27, 1945, Serial No. 631,085
6 Claims. (Cl. 51—184.3)



1. In a hone, blades having arcuate outer faces; and stones on said outer faces, said stones having metallic holders curved on less radius than the outer faces of the blades; and cap screws connecting the holders and blades, the screws when tightened being placed under tension by the flattening of the holders.

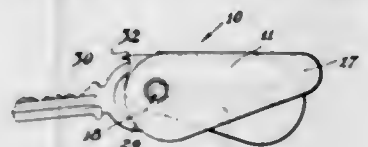
2,422,435
MANUFACTURE OF CYCLOHEXENE OXIDES

Herman Pines and Vladimir N. Ipatieff, Riverside, and Ralph C. Olberg, Evanston, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 10, 1942, Serial No. 468,560
11 Claims. (Cl. 260—348)

1. A process for the production of cycloalkene oxides which comprises dehydrating a cycloalkanediol by the action of a metal oxide dehydrating catalyst at a temperature of from about 150° C to about 400° C., correlating the reaction temperature and time with the catalyst activity to effect dehydration of a substantial portion of said cycloalkanediol to the corresponding cycloalkene oxide, and separating said cycloalkene oxide from the resultant dehydration products.

2,422,436
KEY CASE

Eugene J. Plaud, New Bedford, Mass.
Application February 9, 1945, Serial No. 577,099
4 Claims. (Cl. 70—456)



1. A key case comprising a pair of pivotally connected housings, one slidable within the other, means for holding keys in the inner housing, said housings being ovate-oblong and slidably connected by said means, the walls of one of the housings having elongated bayonet slots through which a pivot member projects permitting said sliding movement, means whereby the housings may be held closed one upon the other, and an extension of one of the walls of one of the housings whereby the case may be opened.

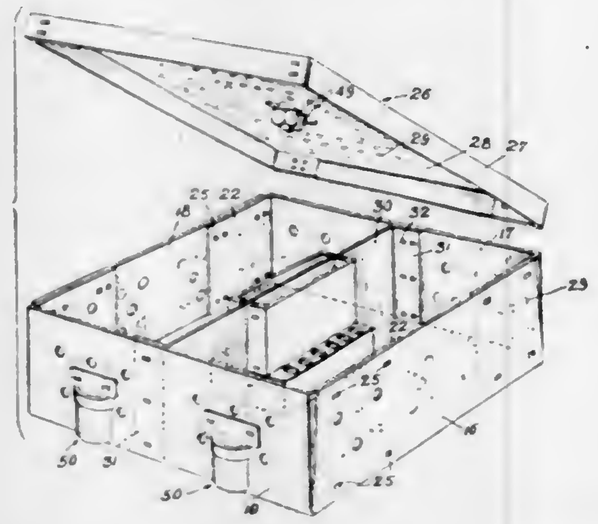
2,422,437
METHOD OF PREPARING PASTE FOR ELECTRIC STORAGE BATTERY PLATES

William J. Plews, Chicago, Ill., and Bernard Chiego, Newark, N. J.
No Drawing. Application March 3, 1945, Serial No. 580,930
9 Claims. (Cl. 136—27)

8. The method of preparing paste for a storage battery plate which consists in mixing litharge and red lead with sulphuric acid of relatively low specific gravity and in volume to produce a thin suspension to assure that a considerable conversion of lead oxide into lead sulfate is obtained, and then removing the surplus liquid by filtering to produce a paste of the desired consistency.

2,422,438
SHIPPING BOX FOR CHICKS AND THE LIKE

Ralph N. Richards, Marion, Ind.
Application June 12, 1943, Serial No. 490,609
11 Claims. (Cl. 119—19)



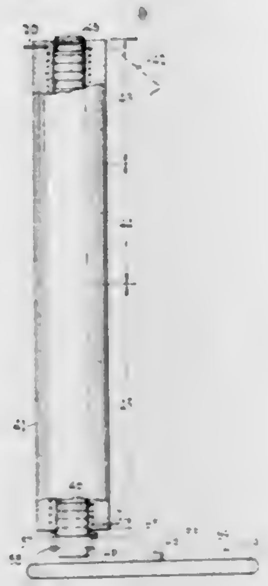
1. In a blank assembly for a shipping box of the character described, the combination of a flat box blank cut and creased to define a bottom panel, side wall panels and securing flaps, a feeder blank cut and creased to define a bottom panel, side and end walls, an apertured upper wall and securing flaps, and means for securing the bottom panels of said blanks together in such position as to locate the erected box and feeder in a predetermined relationship.

2,422,439
METHOD OF MANUFACTURING COMPOSITE STRUCTURAL MATERIALS

Paul Schwarzkopf, Yonkers, N. Y., assignor to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Maryland
Application January 29, 1943, Serial No. 473,954
8 Claims. (Cl. 75—22)

1. In a method of producing a composite or agglomerated structural material and shaped bodies thereof comprising a major portion by volume of minute particles of at least one substance having a considerably higher melting point than a minor portion by volume of at least one metal agglomerating said particles, the steps of forming from particles of said substance a body having intercommunicating pores, contacting said porous body with said metal in an amount at least sufficient to fill the pores of said body, slowly moving said porous body and metal in contact therewith downwardly through an upright confined space, heating said space so that

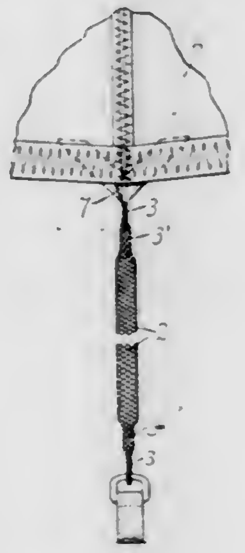
the temperatures therein measured from its top downwardly, rise to a maximum temperature equalling at least the melting temperature of said metal but considerably below the melting temperature of said substance and thereafter gradually decrease considerably below the freezing temperature of said metal, so that said body and



metal in contact therewith are heated accordingly while traveling downwardly through said space, said metal is melted and infiltrated in said body and fills its pores, and thereafter heat is abstracted gradually from that body and infiltrated metal therein and the latter is gradually frozen from the bottom of said body to its top.

2,422,440
PARACHUTE AND ELASTIC SUSPENSION LINE

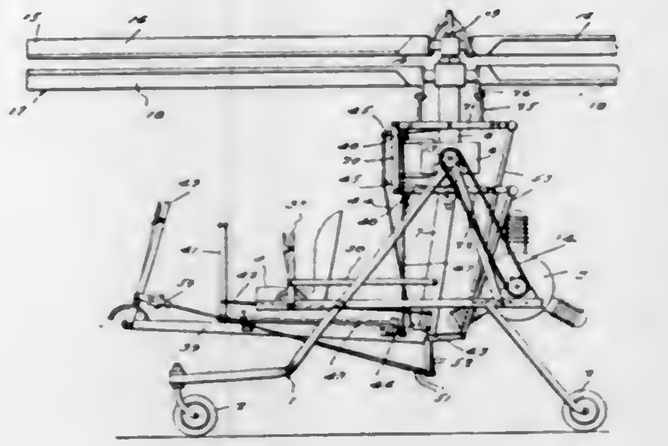
Spencer W. Severance, Trenton, N. J., assignor to Stanley Switlik, Trenton, N. J.
Application April 19, 1945, Serial No. 589,174
8 Claims. (Cl. 244—145)



5. In combination with a parachute canopy and harness, a suspension line including an elastic core, a cover for said core consisting of a braided textile having extensions beyond the ends of the core and means for securing the extension from one end of the core to the canopy, and means securing the extension at the other end of the core to the load carrying harness, the cover being seized to the core adjacent the ends of the latter.

2,422,441
HELICOPTER

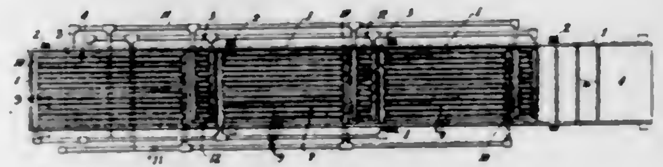
Robert C. Sights, Kennewick, Wash.
Application August 16, 1943, Serial No. 498,811
2 Claims. (Cl. 244—17)



1. In a helicopter, upper and lower rotors having feathering blades, means for supporting and driving said rotors in opposite directions including gears having a gear case, vertically swingable and rockable frames mounted on and respectively arranged above and below the gear case, gimbal rings pivotally mounted in the frames, externally grooved inner rings rotatable within the gimbal rings, said gimbal rings being fitted in the external grooves of the inner rings, operative connections between the inner rings and the blades of the respective rotors, and means to selectively rock or swing or rock and swing said frames to feather the blades at the front and rear or at the sides of the machine or to feather said blades at any desired point in their travel, and means to selectively swing said frames in the same direction to simultaneously change the pitch of the blades and vary the lift of the rotors or to swing the frames in opposite directions to increase the pitch of the blades of either rotor and simultaneously decrease the pitch of the blades of the other rotor.

2,422,442
SLUICE BOX WITH WATER DISTRIBUTION PIPES

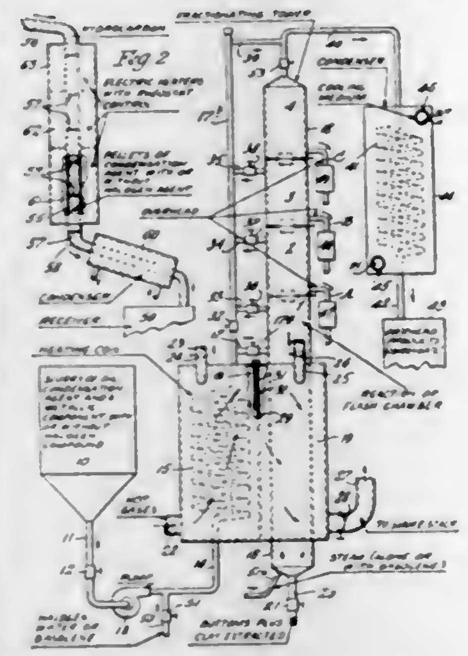
Joseph P. Smith, Pyrmont, New South Wales, Australia
Application May 18, 1945, Serial No. 594,456
In Australia June 15, 1944
5 Claims. (Cl. 209—458)



1. A sluice box for treating alluvials or the like for recovery of minerals therefrom comprising a rectangular box structure having a plurality of launders, means for introducing material to said structure, means in each launder for forcing a fluid vertically upward through said material, said fluid forcing means forming a perforated grill structure comprising two sections of perforated pipes alternately arranged longitudinally of said launder and disposed a predetermined distance above the bottom of said launder, and means at the discharge end of each launder for collecting the said mineral deposits.

2,422,443
CONDENSATION OF HYDROCARBONS

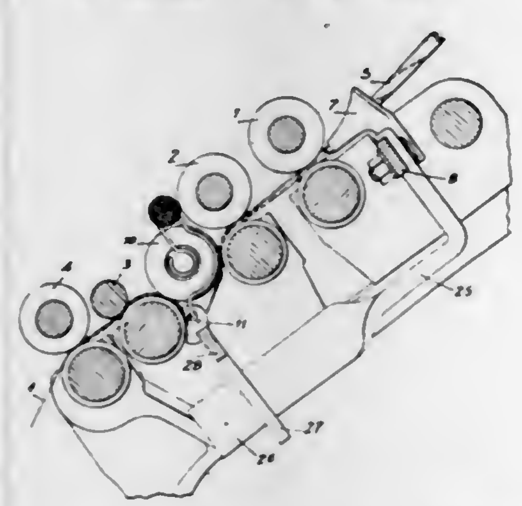
William Alvah Smith, Pittsburgh, Pa.
Application July 15, 1942, Serial No. 450,966
1 Claim. (Cl. 196—78)



The improved method of chemically condensing petroleum hydrocarbons of relatively small complexity into hydrocarbons of relatively greater complexity which comprises treating said hydrocarbons of small complexity with hydrogen chloride gas, bringing the treated hydrocarbon into contact, at approximately the same time and for a substantial interval, with acid-activated clay and an oxide of copper, and while at a temperature above approximately 400° F. and below that which would cause degradation of the hydrocarbons, and separating the chemically condensed product from the clay and copper oxide.

2,422,444
DRAWING MECHANISM FOR TEXTILE SLIVERS

Ramón Balmes Solanas, Santa Coloma de Cervello, Spain
Application March 23, 1945, Serial No. 584,383
In Spain April 14, 1944
5 Claims. (Cl. 19—130)



1. A drawing mechanism for textile slivers comprising a series of pairs of rollers each said pair having an upper and a lower roller, a conducting roller for the sliver resting freely on the lower rollers of two consecutive pairs of said rollers, the ends of said conducting roller being severally provided with a recess, a frame coupled to the said conducting roller and including a lower straight central rod portion, and a condenser for the sliver slidably mounted on said lower straight central rod portion of said frame, two lateral branches on said frame each terminating in an eyelet fitted in one of the said recesses in the ends of said conducting roller thereby pivoting the said roller for rotary movement with respect to the said frame, and means for imparting reciprocating movement to the said sliver condenser corresponding to a transverse movement of the sliver.

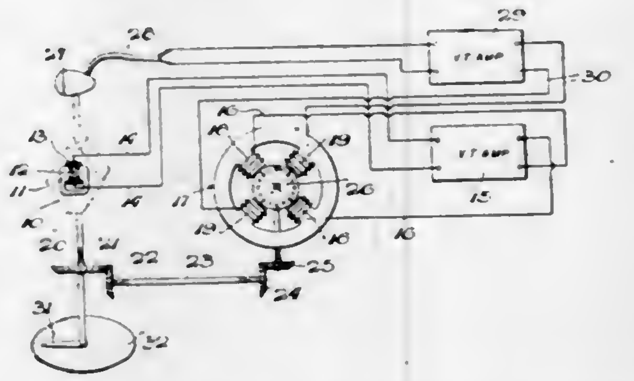
2,422,445
PROCESS OF RECOVERING TRIARYLMETHANE DYESTUFFS

Harvey Irvin Stryker, Carney's Point, N. J., and Ralph Otto Heuse, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 15, 1945, Serial No. 635,422
3 Claims. (Cl. 260—388)

1. In a process of producing Victoria Pure Blue BO wherein a solution of the color base in an organic solvent is extracted by means of aqueous acid, the improvement which consists in controlling the acidity of the aqueous extracting liquor so as to end up with an aqueous phase having an acidity between the values pH 3.5 and pH 5.0, whereby to obtain in the aqueous phase a salt of the color which upon salting out from said aqueous phase yields a product which is soluble both in water and in castor oil.

2,422,446
SONIC DIRECTION FINDING

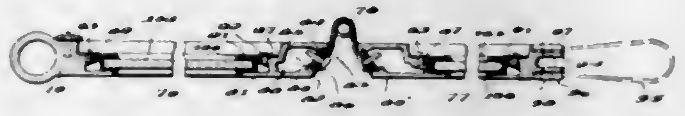
Alfred A. Stuart, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application May 15, 1941, Serial No. 393,685
11 Claims. (Cl. 177—352)



10. In combination, directional microphone means the output of which is a function of the angular displacement of the microphone means with respect to sound waves emanating from a sound source, a non-directional microphone having a substantially continuous energy output in response to sound waves transmitted from said source, an indicator for indicating the direction of the sound source, a polyphase induction motor having one of its phases energized by the directional microphone means and another of its phases energized by the non-directional microphone, whereby a driving torque is produced by the motor in proportion to the direction of the sound source with respect to the position of the directional microphone means, and means driven by said motor to counteract the driving torque produced by said motor and to simultaneously move the indicator to a position corresponding to the direction of the source of sound.

2,422,447
BUS DOOR

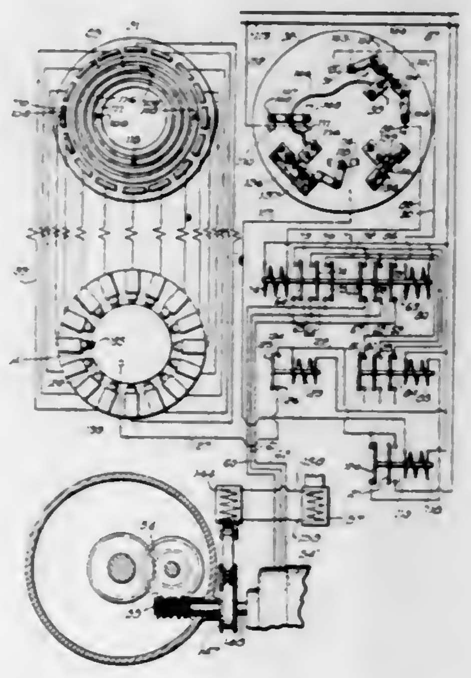
George Trautvetter, Jenkintown, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 24, 1945, Serial No. 606,871
5 Claims. (Cl. 160—229)



5. A metal door structure comprised of a pair of panels hinged together, each of said panels having an outer stile and a hinge stile and an intermediate panel portion, said outer stile and said hinge stile being of hollow section, and said stiles and said panel portion of each panel being comprised of an integral extrusion, the outer surface of the intermediate panel portion being flush with the outer surfaces of said stiles, said stiles on their opposite surfaces having ledges, and a sheet metal panel bridging said ledges and secured thereto.

2,422,448
REMOTE-CONTROL MEANS FOR SPEED CHANGE MECHANISMS

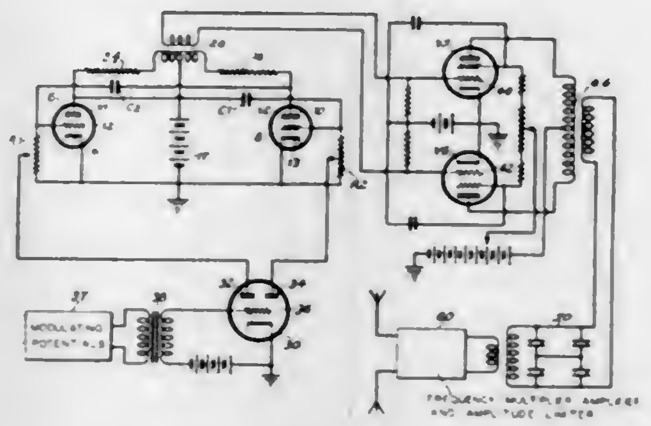
Winthrop Trible, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application November 7, 1941, Serial No. 418,242
10 Claims. (Cl. 172—239)



1. In a control circuit for a motor coupled for driving a part from any one of a plurality of positions to any other thereof, the combination with a motor, of a motor starting switch relay, a remote control transmitter, a plurality of parallel circuits corresponding in number to the number of positions of said part, means for adjusting said transmitter for selectively energizing one of said circuits, a terminal switch member providing contact with all of said circuits except one whereby a given circuit will be open for a predetermined position of said member, a common circuit connecting said switch member to the starting relay, means connecting the motor for synchronously driving the switch member and said part until the switch member opens the selected circuit, a normally closed switch in said common circuit, and means energizable by the transmitter during adjustment thereof to open said switch.

2,422,449
FREQUENCY MODULATED TRANSMITTER

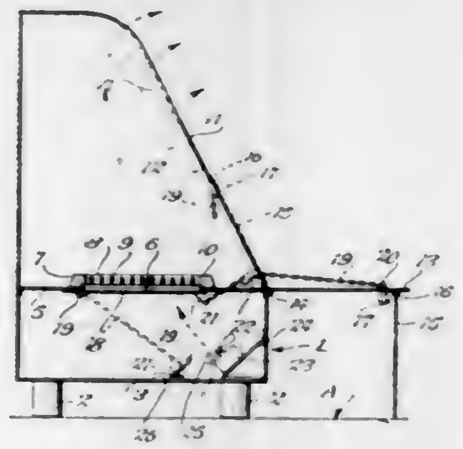
George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application October 30, 1940, Serial No. 363,447, now Patent No. 2,297,926, dated October 6, 1942. Divided and this application September 1, 1942, Serial No. 456,859
10 Claims. (Cl. 179—171.5)



1. In a frequency modulator, an electron discharge device having an anode, a cathode, a control grid and a screen grid, circuits including capacity and resistance interconnecting the screen grid, control grid, and cathode of said device to form a multi-vibrator oscillator, a source of direct-current potential connecting the anode and screen grid of said device to the cathode of said device, connections for modulating the potentials on the screen grid and anode of said device in accordance with signals to thereby modulate a constant of said multi-vibrator oscillator and correspondingly vary the frequency of operation thereof, and an output circuit connected to the anode of said device.

2,422,450
COMBINED SPACE HEATER AND GRILL

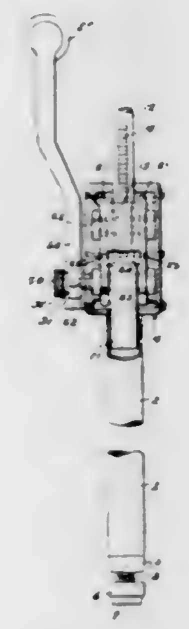
Gerrit Van Daam, Buffalo, N. Y.
Application September 8, 1945, Serial No. 615,194
10 Claims. (Cl. 219—38)



1. An electric heater comprising a housing having an apertured partition wall intermediate of its top and bottom, an apertured frame carried by said partition wall, a heating unit with spaced stretches of an electric heater element disposed across the aperture of said frame, the space between said stretches being open for the passage of air therebetween, the portion of the partition wall surrounding said frame being substantially imperforate, said housing having an air inlet in the lower part below said partition wall, an air outlet in the upper part thereof above said partition wall, and in its side wall above said partition wall an opening of a size adequate to pass a cooking utensil and closed by a door movable between open and closed positions, a generally imperforate member disposed in said housing adjacent a face of said partition wall and mounted for movement into and out of a position in which it substantially obstructs movement of air upwardly between said stretches, whereby when said element is used as a grill, said member may be moved into its air obstructing position to limit dissipation of heat from said stretches by air circulating therebetween, and a connection between said member and door, whereby movement of said door into open position will automatically move said member into an air obstructing position and movement of said door into closed position will cause movement of said member into a position offering minimum obstruction to air flow through said partition wall.

2,422,451
ADJUSTABLE CRUTCH

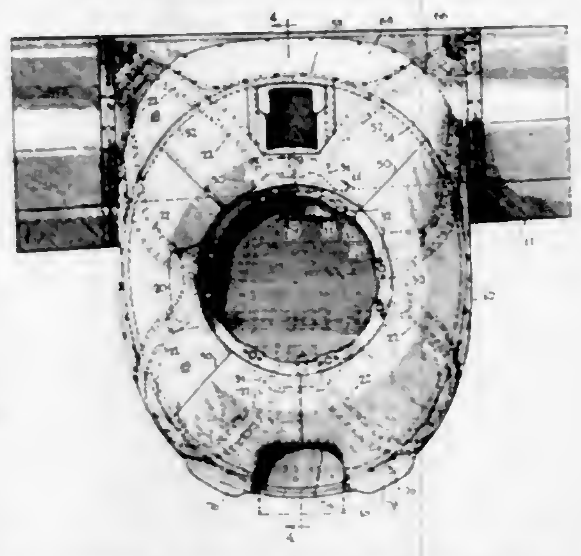
Joseph Crampton Watters, Atlanta, Ga.
Application May 22, 1945, Serial No. 595,140
6 Claims. (Cl. 135—50)



5. A crutch including a tubular lower section, a housing on the upper end thereof, an upper section extending into and slidably mounted within the housing and lower section, a hand grip pivotally connected to the housing for movement into either upwardly or downwardly extended position relative to the housing, cooperating means on the upper section and in the housing and controlled by the movement of the hand grip into upwardly extended position, for locking the sections against relative movement, said means including opposed toothed jaws slidably mounted in the housing, rotatable cam elements in the housing, means connecting said cam elements and the jaws for shifting the jaws toward each other when the cam elements are moved in one direction and for moving them apart when the cam elements are moved in the opposite direction, a shaft in the housing rotatable with the hand grip, turn buttons rotatable with the shaft, means carried by the cam elements for engagement with and actuation by the turn buttons, the upper section being positioned between the jaws for engagement thereby when shifted toward each other.

2,422,452
ENGINE MOUNT

Michael Watter and George W. Pancoe, Philadelphia, Pa., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 30, 1943, Serial No. 485,100
13 Claims. (Cl. 244—54)



5. An inner frame for a combined engine mount and accessory cowl comprising a radially outwardly presenting channel section engine mounting ring and a plurality of circumferentially arranged members each bent to the general form of a hockey stick having long and short arms, said members having their short arms telescoped within the channel section of the mounting ring and secured thereto.

2,422,453
RECOVERY OF GLYCERINE FROM FERMENTED LIQUORS

Robert Alan Walmesley, Howwood, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application August 8, 1941, Serial No. 406,069. In Great Britain September 18, 1940
10 Claims. (Cl. 260—637)

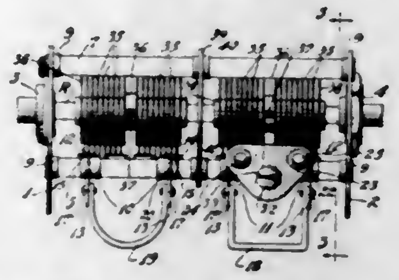
1. The method of extracting glycerol from a liquid concentrated carbohydrate fermentation still residue having a non-acid reaction which comprises the steps of extracting the residue with a mixture of aniline and a water-miscible organic solvent of the class consisting of pyridine and aliphatic alcohols containing less than 5 carbon atoms in the molecule, separating the extract, evaporating therefrom the water-miscible organic solvent and substantially all the water, separating the aniline phase from any deposit formed during the evaporation and extracting the glycerol from the aniline phase with water.

2,422,454
HIGH-FREQUENCY TUNING STRUCTURE

Melvin V. Weiss, Haddonfield, N. J., assignor to Radio Condenser Company, Camden, N. J.
Application April 18, 1945, Serial No. 588,931
7 Claims. (Cl. 250—40)

1. A multi-section high-frequency variable tuning structure comprising stator and rotor units, each composed of spaced plates, those of the rotor unit adapted to be moved into intermingled relationship with the plates of the stator units, and metallic frame support plates carrying rotor bearing members, each rotor unit having a sleeve to which its plates are fastened, a rotor shaft of suitable insulating material hav-

ing metallized portions between said support plates for receiving the rotor sleeves with metallic bushings at its opposite ends to cooperate with said bearing members, frame rods of suitable insulating material extending between said support plates and provided with means for anchoring them to the support plates for completing the frame, certain of said frame rods having metallized sections to which the stator units are directly fastened at least in part, a transversely positioned metallic member for each stator unit fastened as by soldering to the same metallized sections as their associated stator units, and connected to adjacent stator units to form one capacitor, and having an inductance device attached therebetween.



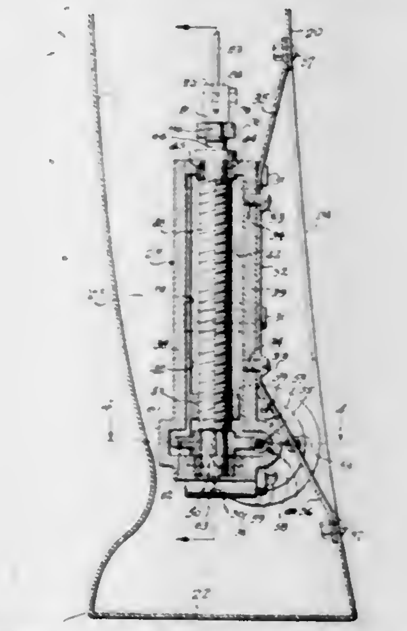
2,422,455
METHODS OF PREPARING A DIASTATIC AGENT

Lynferd J. Wickerham, Peoria, Ill., assignor to United States of America, as represented by the Secretary of Agriculture
No Drawing. Application July 1, 1944, Serial No. 543,181
8 Claims. (Cl. 195—82)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method for producing diastatic enzymes comprising cultivating yeasts of the species *Endomycopsis fibuliger* in contact with a starch-containing substrate.

2,422,456
WINDOW LIFTING AND LOWERING DEVICE FOR MOTOR VEHICLES

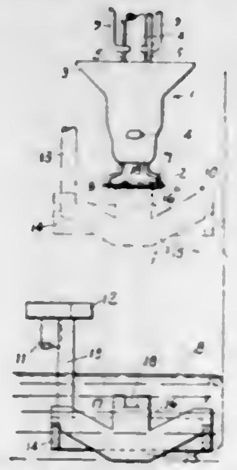
Walter S. Wiseman, Detroit, Mich., assignor of fifteen per cent to Joseph P. Aubin and fifteen per cent to Ernest M. Zahn, both of Detroit, Mich.
Application April 10, 1944, Serial No. 530,283
4 Claims. (Cl. 268—124)



1. A power-driven window regulator for raising and lowering a window pane in a vehicle door opening, comprising a casing support mounted within said door and connected thereto a lubricant-tight enclosed casing mounted on said support and having bearing portions therethrough, a screw shaft rotatably mounted within said casing, an external motor connected to said casing and having a motor shaft entering said casing, speed-reducing mechanism within said casing operatively connecting said motor shaft to said screw shaft, a cross head threadedly connected to said screw shaft, a window pane carrier connected to said window pane and a power-transmitting mechanism extending from said cross head through said bearing portions to said window-pane carrier.

2,422,457
COATING APPARATUS

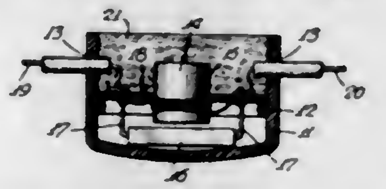
William P. Zabel, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application August 10, 1944, Serial No. 548,852
2 Claims. (Cl. 91—47)



1. In apparatus of the class described comprising a reservoir for liquid coating material, an applicator member having a horizontally extending open-ended trough normally disposed in said reservoir with the trough submerged in the coating material, support means above said reservoir for supporting a filament in a horizontal position with its longitudinal axis parallel to and in alignment with the longitudinal axis of the trough, and means for carrying said applicator member upward out of the coating material to apply coating material in the trough to the filament before it drains out of the trough, the said applicator being provided with a drainage passage at the middle of the trough to permit leakage of the coating material thereat, as well as from the ends of the trough, during the upward movement of the applicator.

2,422,458
FILTER DEVICE FOR ANTENNA SYSTEMS

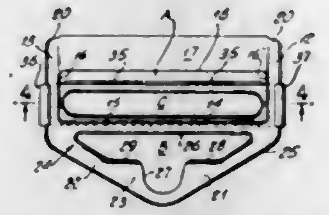
Ernest V. Amy and Julius G. Aceves, New York, N. Y., assignors to Amy, Aceves & King, Inc., New York, N. Y., a corporation of New York
Application April 4, 1942, Serial No. 437,712
9 Claims. (Cl. 250—33)



1. The combination with an antenna system of the dipole type having at least one arm divided into two branches, an insulator to which the two branches are connected to physically separate the same, of a filter comprising a housing, a magnetic core mounted therein, a coil wound about said core, a condenser in circuit with said coil, lead wires extending from said coil externally of said housing for connection respectively to the branches of said antenna arm, and means for closing said housing.

2,422,459
SLIDE LOOP BUCKLE

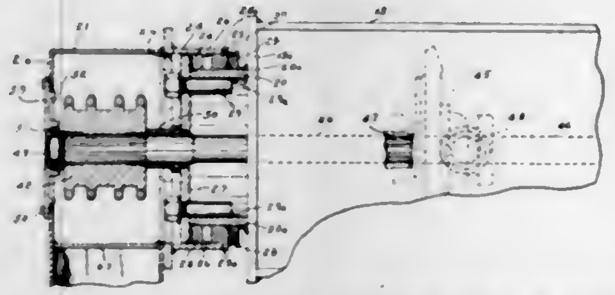
Carl E. Anderson, East Orange, N. J., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J., a corporation of New Jersey
Application November 13, 1945, Serial No. 628,015
4 Claims. (Cl. 24—195)



2. A slide fastener comprising a frame member composed of parallel side channels, and a transverse channel connecting the parallel side channels, the transverse channel having a bottom defining a transverse reinforcing bar, all of the said channels having an inner wall and an outer wall, the side channel having free outer ends, a plate connecting the inner walls of the side channels and being angularly disposed towards the free outer ends of the side channels, the latter having extended arm portions converging forwardly to a medially recessed apex, a complemental slide member adapted to interfit with the frame member, the said slide member having a substantially flat slide body provided with marginally curled end portions slidably engaging said frame, the said slide body including an elongated medial aperture, a rear portion of the slide body defining a flange substantially perpendicular to the slide body, the said flange having a plurality of spaced series of teeth adapted to exert a clamping action with the angularly disposed plate of the frame member when said parts are closely juxtaposed, the said flange defining flat portions intermediate each series of teeth, whereby the teeth of the flange are adapted to clamp a strip of fabric inserted between the teeth and the angularly disposed plate at spaced intervals.

2,422,460
TANDEM AXLE CONSTRUCTION

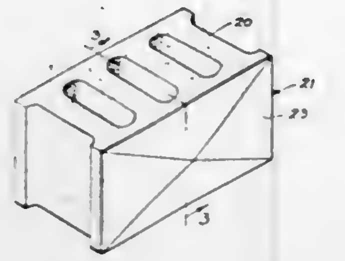
Raymond Q. Armington, Shaker Heights, Ohio, assignor to The Euclid Road Machinery Co., Euclid, Ohio, a corporation of Ohio
Application August 13, 1945, Serial No. 610,611
2 Claims. (Cl. 180—22)



1. In wheeled vehicle construction wherein a rigid axle housing has a drum which oscillatably supports a rocker housing at an intermediate portion of the latter and wheels are carried at opposite ends of said rocker housing, means for mounting said rocker housing on its associated drum comprising a bearing sleeve rigid with said rocker housing and surrounding and radially spaced from said drum, a bearing ring between said bearing sleeve and said drum and substantially fixed against movement axially of said sleeve, and a thrust collar engaging said ring and substantially fixed against movement axially of said drum.

2,422,461
METHOD FOR MANUFACTURING FACED BUILDING UNITS

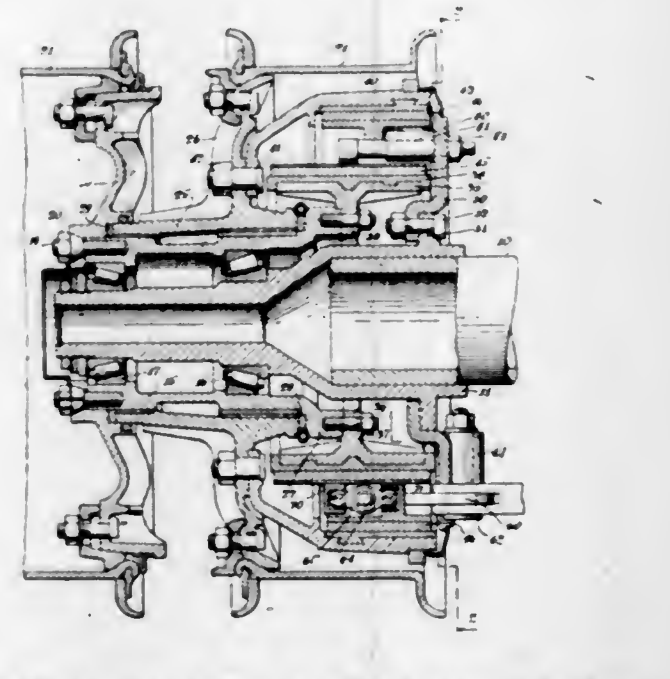
Earl E. Arquette, Milton, Mass.
Application December 13, 1944, Serial No. 568,002
1 Claim. (Cl. 18—59)



A method for manufacturing a faced building unit, consisting in attaching a protective covering on the outer face of a facing for a building unit so that its edge portions project from the edge portions of said facing, placing said protected facing into a building unit mold having grooves with the protective covering engaging one side of said mold and with the projecting edge portions of said protective covering engaging into said grooves for holding the facing in position, packing said mold with the material which is to form the body of the building unit, stripping said faced building unit from said mold, and removing said protective covering from the outer face of said building unit.

2,422,462
DUAL WHEEL BRAKE

Charles S. Ash, Milford, Mich.
Application January 17, 1945, Serial No. 573,226
4 Claims. (Cl. 188—18)



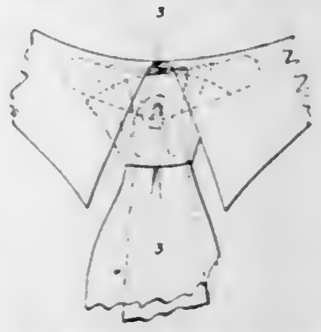
1. Braking means for a wheel assembly having a pair of independently rotatable wheels comprising, in combination, a cylindrical element secured to each wheel for rotation there-

with said elements being arranged in coaxial overlapping relationship with each other, and means movable to frictionally engage cylindrical braking surfaces of said elements, said braking surfaces being of substantially equal area.

2,422,463

NECKTIE KNOT HOLDER

Severin B. Bankson, San Francisco, Calif.
Application November 3, 1945, Serial No. 626,537
1 Claim. (Cl. 2—153)

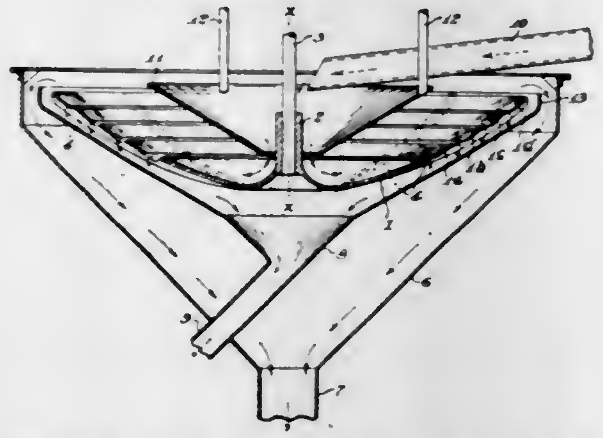


A neck tie knot holder comprising a blank having divergent wing portions and a bifurcated portion extending therefrom, said bifurcated portion being folded upon the middle portion of the wing portion, said middle portion being offset laterally with respect to the folded bifurcated portion, and said bifurcated portion having its ends curved to underly said middle portion of the blank when the same is in wearing position.

2,422,464

METHOD AND APPARATUS FOR SEPARATING LIQUID FROM SOLIDS BY ROTATABLY MOUNTED MEANS

Tracy Bartholomew, Pittsburgh, Pa.
Application September 1, 1942, Serial No. 456,907
13 Claims. (Cl. 210—1)



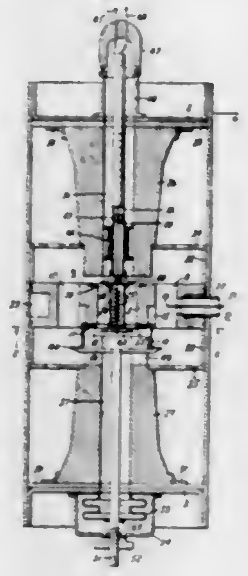
1. That method of separating liquid and solids which comprises supplying a mixture of solid particles and liquid to a rotatable series of outwardly extending surfaces that are wet by said liquid, rotating said surfaces to cause the mixture to flow thereover, and by the interfacial tension between the liquid and the surfaces causing one of the constituents of the mixture to be diverted adjacent at least one edge of said surfaces from the direction of travel of the mixture, and collecting separately the liquid and the solid particles substantially free from liquid.

2,422,465

HIGH-FREQUENCY MAGNETRONS

Ralph J. Bondley, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application February 2, 1943, Serial No. 474,426
4 Claims. (Cl. 250—27.5)

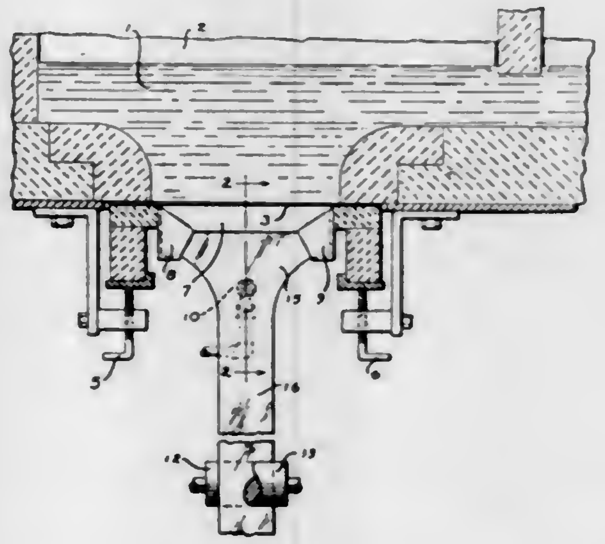
1. An ultra high frequency electric discharge device of the magnetron type comprising a plurality of cooperating electrodes including a cathode and an annular anode structure having a central opening through which said cathode extends and providing a plurality of cavity resonators, a pair of magnetic pole pieces longitudinally displaced from said anode structure and each having therein a longitudinal channel, means mounted in the channel of one pole piece supporting said cathode and constituting a heating current lead, an adjustable tuning member extending into said anode structure, means defining a transverse slot in the pole face of the other pole piece, a transverse rod supporting said tuning member and positioned in the transverse slot in the face of said other pole piece, and means supporting said transverse rod and said tuning member comprising a longitudinal rod located within the channel of said other pole piece.



2,422,466

SHEET GLASS FORMING APPARATUS

Donald N. Brown, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application November 4, 1944, Serial No. 561,931
4 Claims. (Cl. 49—55)

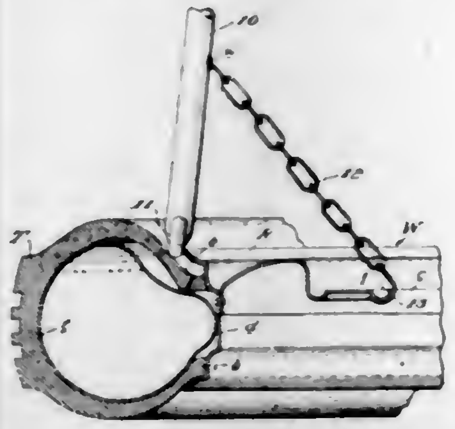


1. In an apparatus for drawing sheet glass, a drawing die having an opening for supplying glass to the root of the drawn sheet, said opening being in the form of a relatively long narrow slot and said die having depending hollow ends along the inner sides of which the ends of said slot extend.

2,422,467

TIRE LOOSENING TOOL

William Riley Carroll, Washington, D. C.
Application January 6, 1945, Serial No. 571,552
1 Claim. (Cl. 157—6)

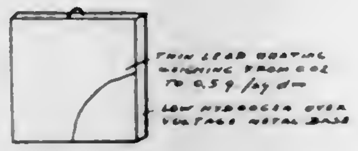


A tire bead loosening tool comprising a tire-engaging rocker in the form of a relatively long arcuate cylindrical rod providing a smooth convex tire-engaging surface throughout the length thereof, a relatively long cylindrical bar having one end thereof rigidly secured to the concave side of the rod with its axis disposed at right angles to a plane tangent to the convex side of the bar centrally of the length thereof, and a flexible guy member having a wheel-engaging hook at one end thereof and having its opposite end connected to the bar substantially remote from the rocker and at a point in that axial plane of the bar which bisects the rocker transversely whereby the flexible member provides a balanced support for the bar and rocker.

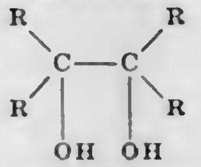
2,422,468

ELECTROLYTIC PRODUCTION OF PINACOLS

Thomas S. Chambers, Newark, and Ober C. Slotterbeck, Rahway, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application July 4, 1942, Serial No. 449,718
6 Claims. (Cl. 204—77)

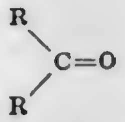

THIN LEAD COATING WEIGHING FROM 0.02 TO 0.5 g./sq dm
LOW HYDROGEN OVER VOLTAGE METAL BASE

1. In the process of producing glycols corresponding to the general formula



$$\begin{matrix} R & & & & R \\ & \diagdown & & \diagup & \\ & & C{-}C & & \\ & \diagup & | \quad | & \diagdown & \\ R & & OH \quad OH & & R \end{matrix}$$

wherein R stands for a member of the group consisting of alkyl and aryl radicals and substituted alkyl and aryl radicals by the electrolytic reduction of an aqueous acid solution of a ketone of the formula



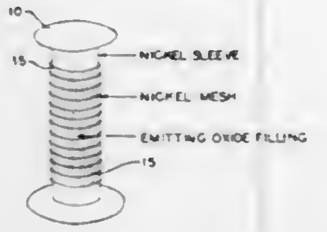
$$R_2C{=}O$$

wherein R stands for a member of the group consisting of alkyl and aryl radicals and alkyl and aryl radicals substituted by a group which is not reducible under the reaction conditions employed, the improvement which comprises effecting said reduction at a temperature below about 25° C. and at a current density of between about 0.1 and about 4 amps./sq. dm. in a diaphragm cell in contact with a cathode comprising a sheet of copper, completely covered with a thin, electrodeposited layer of lead weighing from about 0.02 to about 0.5 gram/sq. dm.

2,422,469

ELECTRON EMITTING CATHODE

Edward A. Coomes, Cambridge, Mass., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War
Application July 9, 1945, Serial No. 604,012
1 Claim. (Cl. 250—27.5)

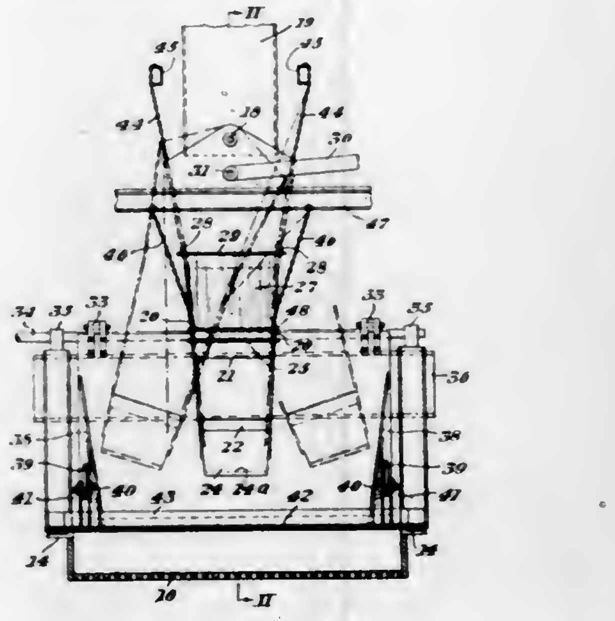


A cathode comprising a metallic, unperforated tube, an uncoated metallic mesh surrounding the tube and metallically integrated therewith and comprising straight wires disposed at right angles to define rectangular spaces around the tube, electron emissive material at the bottom of each space and in contact with the metallic tube and the wires, the latter extending exposed beyond the outer surfaces of the electron-emissive material.

2,422,470

SWINGING SPOUT FOR SINTERING MACHINES

Martin L. Cover, Allen Park, Mich., assignor to National Steel Corporation, a corporation of Delaware
Application June 20, 1944, Serial No. 541,251
16 Claims. (Cl. 193—2)



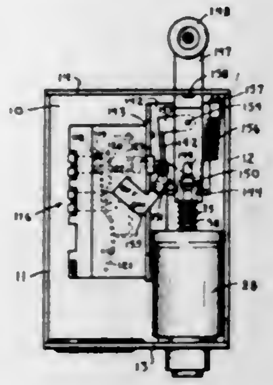
1. A spout for delivering granular material to a traveling bed, comprising a depending box generally rectangular in section and having front, side and rear walls, said box being pivotally supported for swinging movement transversely above the bed, a deflector plate between said side walls sloping downwardly toward the front wall, said rear wall terminating above said plate, and a curtain depending from said rear wall toward said plate.

2,422,471
SAFETY MECHANISM

Benjamin Cyr, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application April 26, 1941, Serial No. 390,571

14 Claims. (Cl. 200—87)



2. In combination, a switch biased to closed position, a controlling element effective upon pressure thereon to maintain said switch in open position, electromagnetic holding means including an electromagnet element and an armature element, lever means adapted to bear against said controlling element, a movable actuator member pivotally connected to said lever means, means controlled by said electromagnet means for holding said lever means in a position such that said switch can assume closed position, said lever means being effective when said armature and electromagnet are separated to move about said actuator member as a pivot and apply pressure on said controlling element to move said switch to open position, said movable actuator member being effective when moved in one direction to cause said lever means to move said armature and electromagnet together while maintaining said controlling element in its switch open position.

2,422,472
GLASS ARTICLE

Robert H. Dalton, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

No Drawing. Original application March 31, 1941, Serial No. 386,190. Divided and this application September 10, 1942, Serial No. 457,884

3 Claims. (Cl. 49—92)

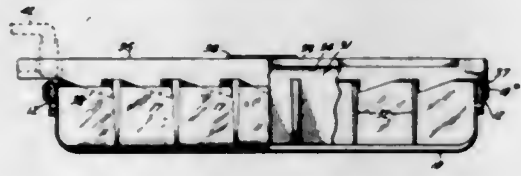
1. An article composed throughout of a single glass containing copper equivalent to at least .05% Cu_2O and having a heat stable picture exhibiting photographic detail formed in the glass in various shades of color of one hue.

2,422,473
FREEZING TRAY

William Dalton, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 23, 1937, Serial No. 122,054

9 Claims. (Cl. 62—108.5)



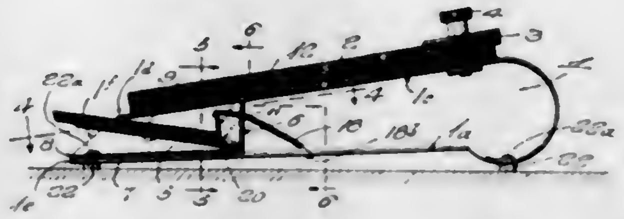
5. A removable divider for freezing trays comprising a plurality of partition elements adapted to cooperate with a freezing tray to form ice block compartments, and means for forcing ice blocks from said compartments, said means including an elongated element slidably carried by the top of said divider and extending longitudinally of said divider over a plurality of said compartments.

2,422,474
CALENDAR STAND WITH MEMORANDA PAPER SUPPLY

Harold G. Davis, Brooklyn, N. Y.

Application August 24, 1945, Serial No. 612,412

5 Claims. (Cl. 312—62)



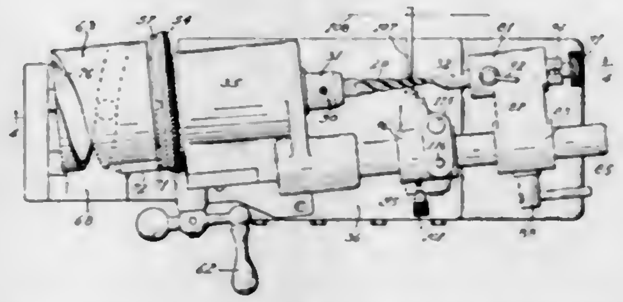
1. A flat sheet dispenser comprising a frame structure open at one end thereof, an open-ended compartment formed in the open end of said frame structure, said compartment including a pair of plate members extending at an angle to each other with a junction therebetween, an angularly shiftable shelf member having a pair of lugs extending therefrom into pivotal engagement with the junction of said plate members and angularly rockable through the open end of said compartment, means on said angularly shiftable shelf member for retaining a stack of flat sheets in superimposed relation, and spring means interconnecting said last mentioned means and said frame structure for urging said angularly shiftable shelf member to a position successively clamping the stack of flat sheets against a wall of said compartment.

2,422,475
METHOD OF AND MACHINE FOR GRINDING

Charles B. De Vlieg, Birmingham, Mich., assignor to Vane Wheel Company, Cleveland, Ohio, a corporation of Michigan

Application May 11, 1944, Serial No. 535,035

18 Claims. (Cl. 51—225)



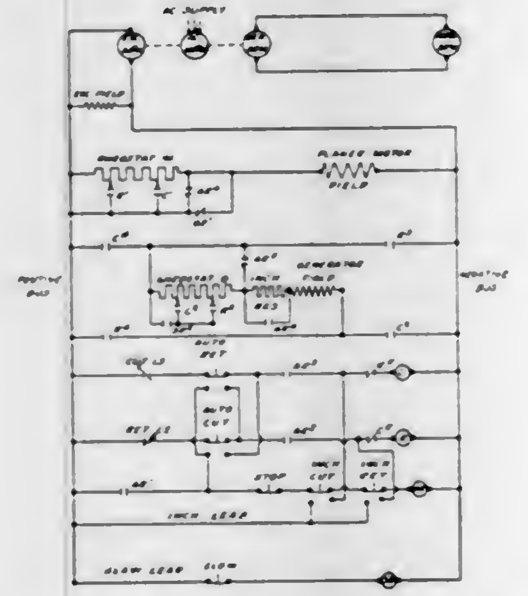
1. A machine for grinding a fluted tapered cutter having a variable lead and a constant face angle, comprising a rotating grinding wheel, and means for traversing the cutter lengthwise across the grinding wheel with the plane of the tapered side of the cutter parallel with the axis of rotation of the grinding wheel and for simultaneously rotating the cutter including a rotary cam drum coaxial and fixed with relation to the cutter and having a cam face shaped to control said lengthwise traverse of the cutter to grind a constant face angle from end to end of each blade and to accurately present each similar face of each blade in identical grinding relation to the grinding wheel, and including indexing means operative between the grinding wheel and the spindle to index the spindle and the cutter with relation to the grinding wheel to accurately present each similar face of a cutter blade in identical grinding relation to the grinding wheel, and means to locate the cutter in predetermined relation to said cam drum and said indexing means including a locating finger engageable with a tooth face of the cutter while the cutter is free for rotative positioning of the cutter in the spindle to obtain said predetermined relationship.

2,422,476
ELECTRIC CONTROL FOR PLANERS AND THE LIKE

John E. Doran, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a corporation of Ohio

Application June 21, 1945, Serial No. 600,715

6 Claims. (Cl. 172—239)



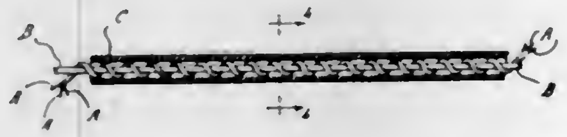
1. In a control for a variable speed reversing drive for a machine tool including a direct current source, said drive including a machine tool motor and an automatic reversing drive set of connections and circuit control, means for starting automatic operation; manual switch means constantly biased toward inactive position for causing slow operation coupled with electro-magnetic means and switch means for by-passing the normal automatic reversing drive connections whereby the same may remain in effect during the operation of the manual means.

2,422,477
LOW-TEMPERATURE HEATING ELEMENT

Wilbur B. Driver, East Orange, N. J., assignor to Wilbur B. Driver Company, Newark, N. J., a corporation of New Jersey

Application November 1, 1944, Serial No. 561,391

3 Claims. (Cl. 201—64)



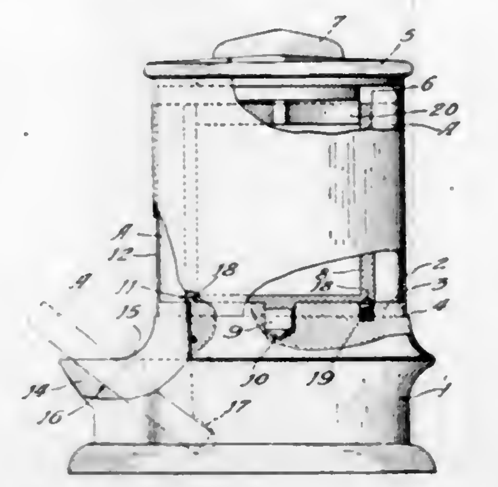
1. A flexible electrical resistance element for low temperature service use below about 300° F., said element consisting of at least one small diameter conductor composed of a beryllium-copper alloy of the cold workable-precipitation hardenable type, said alloy being in the solution-annealed condition.

2,422,478
CIGARETTE RECEPTACLE

Joseph J. Geller and Carl E. Swanson, Chicago, Ill.

Application March 17, 1945, Serial No. 583,226

3 Claims. (Cl. 312—84)



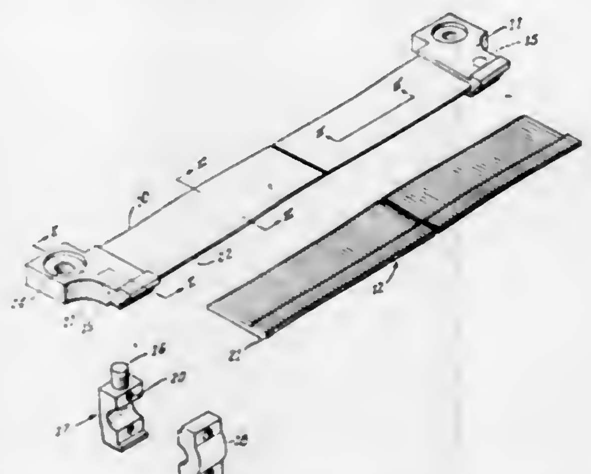
1. A cigarette receptacle comprising a casing having a base and a cylindrical shell rising therefrom, a drum slightly smaller in diameter than the shell arranged within the latter and having peripheral longitudinal grooves each adapted to contain a cigarette resting on the base, the shell containing a vertical slot wider than the diameter of a cigarette that opens through its lower edge and rises above the base a distance much less than the length of a cigarette, the base having in the top in registration with said slot a deep well to permit a cigarette to drop down only about far enough to clear the upper bounding edge of the slot before touching the bottom of the well, and means to turn the drum to bring the grooves and their cigarettes, one at a time, into registration with the slot and the well.

2,422,479
SINKER HEAD FOR FULL-FASHIONED KNITTING MACHINES

Walter M. Golaszewski and Anthony Kaczor, Philadelphia, Pa.

Application January 19, 1946, Serial No. 642,372

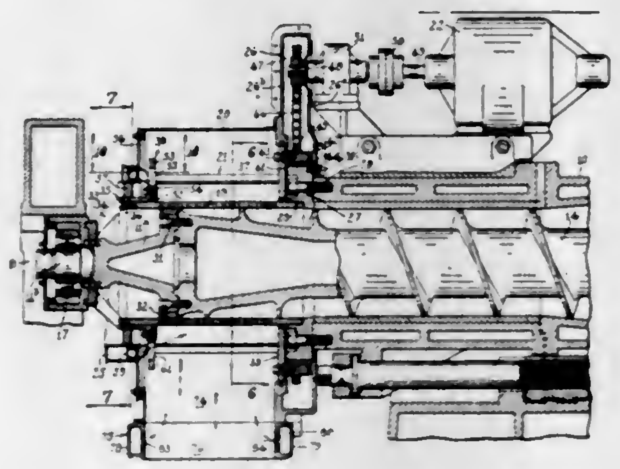
1 Claim. (Cl. 66—110)



A sinker head including end portions having apertures therein for receiving fastening means for securing said head to the bedplate of a knitting machine, and an intermediate body portion of a reduced thickness, a separate bar secured by metal fusion to one face of said body portion and having grooves for guiding the sinkers of the knitting machine, there being apertures in said end portions, pendant bearing members for engaging the trunnions of a knock-over bit forming part of the knitting machine, and pins carried by said bearing members and secured by metal fusion in said recesses to secure said bearing members to said end portions.

2,422,480
MEANS FOR TREATING RUBBER

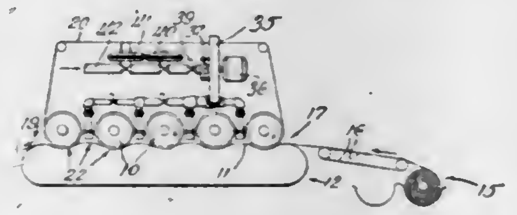
William A. Gordon, Shelton, Conn., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a corporation of Connecticut
Application June 29, 1945, Serial No. 602,245
7 Claims. (Cl. 18—12)



1. In a rubber-treating machine, a rotor portion, a surrounding cylindrical shell having a multiplicity of peripheral perforations, means on the rotor for forcing rubber out of said perforations, a casing enclosing the shell into which the emerging rubber enters and having a body portion substantially concentric with the rotor and also having a substantially radial and downward extension below the rotor forming a discharge throat, means external to the casing and at one end thereof for supplying powder into the casing in a plurality of streams converging toward the periphery of the shell, and revolving cutting means in said casing for cutting off the rubber emerging from said perforations, a blower for supplying powder-containing air under pressure to said supply means, and means in association with said discharge throat for recovering free powder associated with the discharging pellets and returning it to said blower.

2,422,481
MEANS FOR AND METHOD OF APPLYING HEAT TO IRONING MACHINES

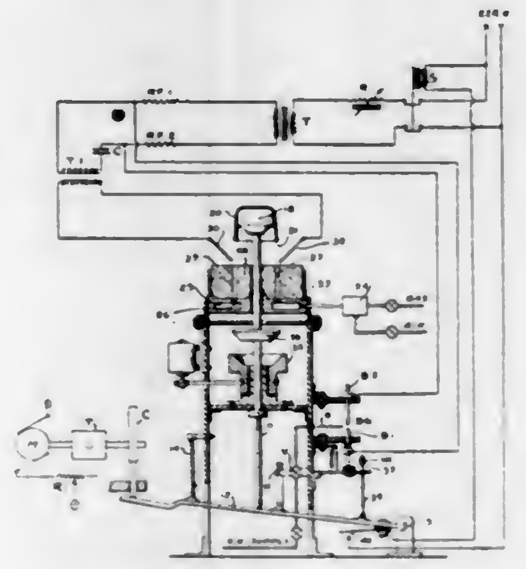
Frederick W. Grantham, Glencoe, Ill.
Application August 12, 1943, Serial No. 498,311
3 Claims. (Cl. 38—56)



1. The method of applying heat to work being ironed in an ironer in which the work enters wet, passes through the ironer, and emerges dry, which comprises directing infra-red rays onto the work being ironed to a relatively great extent at the entrance of the ironer where the work enters wet and the moisture content is greatest, and to a progressively lesser extent at successive points along the ironer so that the work is subjected to progressively less heat as it passes through the ironer and the moisture content of the work decreases.

2,422,482
APPARATUS FOR FIRE-POLISHING GLASS ARTICLES

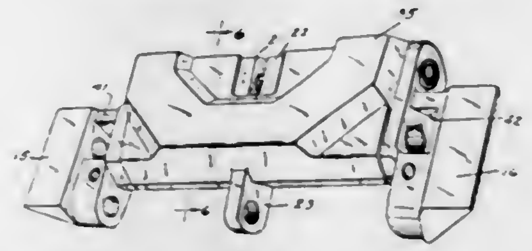
Edwin M. Guyer, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application September 4, 1943, Serial No. 501,299
12 Claims. (Cl. 219—19)



12. In an electric glass working device, a pair of spaced electrodes arranged in operative position adjacent a glass article, an electric power circuit connected to said electrodes, a control device movable to energize said power circuit, means in said power circuit for varying the electrical characteristics thereof including an adjustable spark gap and means under the control of said control device for increasing the breakdown voltage of said gap after said power circuit has been energized.

2,422,483
ENDLESS TRACK CONSTRUCTION

Fred L. Haushalter, Akron, Ohio
Application August 29, 1944, Serial No. 551,684
6 Claims. (Cl. 305—10)



1. A fabricated section for a single pin track laying vehicle comprising parallel end members and a central member, tubular means interconnecting the respective members and making a rigid frame, the end members having openings therein for engagement with the teeth of a driving sprocket wheel, the central member having one end thereof apertured and having an apertured bifurcation at the other end adapted for receiving the end of a similarly formed central member on an adjacent section, and a pivot pin anchored to the end members and extending through the apertured bifurcation for interlinking the section to an adjacent section.

2,422,484
STABILIZED XYLIDINE

Walter A. Herbst, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 30, 1943, Serial No. 508,372
2 Claims. (Cl. 260—578)

1. A xylidine stabilized against discoloration during storage by having added thereto about 0.2% of parathiocresol.

2,422,485
PRODUCTION OF XYLIDINE AND TOLUENE

Ralph M. Hill, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 14, 1943, Serial No. 494,711
3 Claims. (Cl. 260—580)

1. The continuous process of simultaneously producing toluene and xylidine which comprises charging a naphthenic naphtha containing between 60 and 70% of naphthenes including methyl cyclohexane to a reforming zone together with hydrogen and nitroxylene, permitting the mixture to contact a reforming catalyst at temperatures between 850° and 950° F. and under a pressure between 200 and 300 lbs. p. s. i. g. and pressure whereby the methyl cyclohexane is converted to toluene and the nitroxylene is converted to xylidine, withdrawing the reaction products from reaction zone, fractionally distilling the products to recover toluene, xylene and xylidine, separately conducting a portion of the xylene to a reaction zone where it is subjected to nitration, and recycling the thus nitrated xylene to the reforming zone.

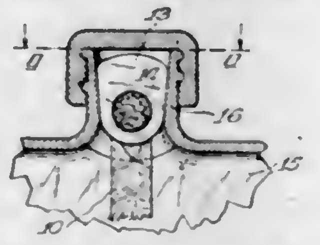
2,422,486
EMULSIFYING AND WHIPPING AGENTS

Norman F. Johnston, Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application May 24, 1945, Serial No. 595,663
4 Claims. (Cl. 252—308)

1. A composition consisting essentially of about 24 parts by weight of a condensation product of sorbitan mono stearate and ethylene oxide in molar ratio of about 1:4 and about 6 parts by weight of a condensation product of sorbitan mono stearate and ethylene oxide in molar ratio of about 1:20 emulsified in water.

2,422,487
EVAPORATOR

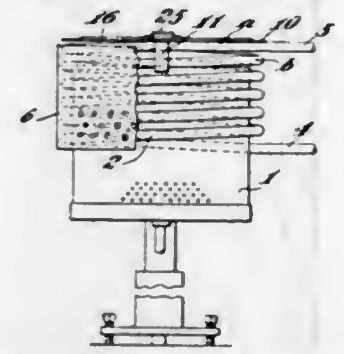
Melville Keim, Chicago, Ill.
Application July 14, 1944, Serial No. 544,978
1 Claim. (Cl. 299—20)



The combination with a container having a downwardly tapering mouth; a plate member downwardly tapering in form and of a size to enter said tapering mouth completely and then interlock with said mouth to prevent further insertion; said plate member having an opening in its lower part; a wick looped through said opening; and said wick having a double thickness extending into said container.

2,422,488
BAFFLE ATTACHMENT FOR A HEATING COIL SURROUNDING A COMBUSTION TUBE BURNER

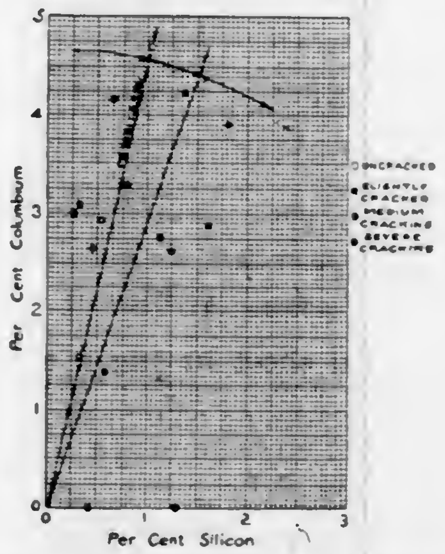
Marie Andersen Kenrick, South Yarmouth, Mass.
Application July 18, 1945, Serial No. 605,814
5 Claims. (Cl. 126—44)



1. A baffle attachment for a heating coil circumposed about a burner, comprising an annular member having a plurality of circumferentially spaced clips adapted to grip the upper convolution of said heating coil so as to anchor the annular member at the top of said coil in substantially horizontal position, and a baffle member supported by said annular member and including an upper circular plate having a diameter exceeding the inner diameter of said annular member so as to rest on said annular member, a lower circular plate having a diameter substantially less than the inner diameter of said annular member so as to fit within said annular member, and spacing means connecting the two circular plates so as to maintain them in predetermined spaced parallel relation.

2,422,489
WELDING ELECTRODE

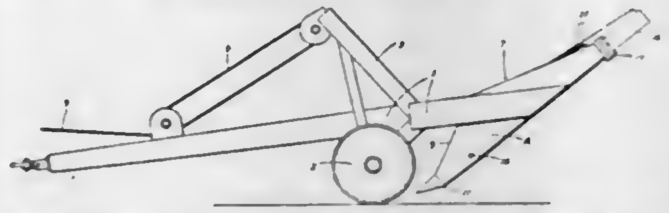
Theodore E. Kihlgren, Scotch Plains, and Charles E. Lacy, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application June 30, 1945, Serial No. 602,498
In Canada June 2, 1945
5 Claims. (Cl. 219—8)



3. An electric arc welding electrode adapted for forming weld deposits substantially devoid of hot cracks comprising a core wire containing at least 75% nickel, 10% chromium and minor proportions of silicon and a flux coating enclosing said core wire, said electrode containing columbium in such quantities that the residual columbium content in said weld deposit will be at least four and one-half times the residual content of silicon in said deposit.

2,422,490
ROOTER

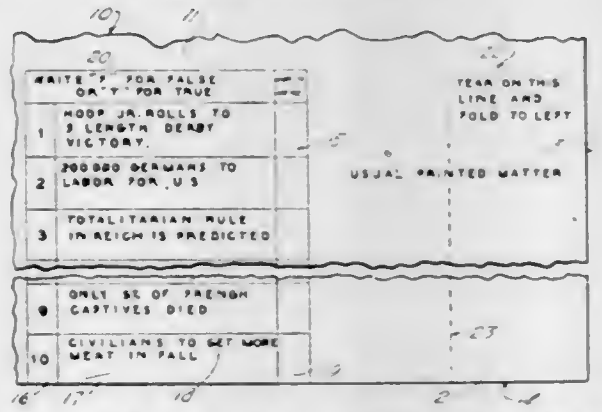
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc.
Application August 20, 1945, Serial No. 611,576
3 Claims. (Cl. 262—8)



1. A rooter comprising a longitudinal rigid main frame, a hitch at one end of the frame for connecting such frame to a draft means, a cross axle on the main frame, a swing frame pivoted on said cross axle, wheels journaled on the swing frame and operable to engage the ground and lift the main frame when the swing frame is moved in one direction and to move away from the ground and lower the main frame when the wing frame is moved in the opposite direction, a rooter unit fixed at the rear end of the main frame and rigid therewith, such rooter unit being in the form of a generally tapering body projecting downwardly and forwardly from the main frame and terminating at its forward end in a digging point, such point being separate from the body but connected thereto for relative reciprocating movement with respect thereto, and power means mounted in connection with such rooter unit and operable to impart such movement to the point, the rooter unit including said body and point being operable to be submerged below the ground level upon the main frame being pulled forward with a concurrent lifting of the wheels.

2,422,491
SELF-QUIZ DEVICE

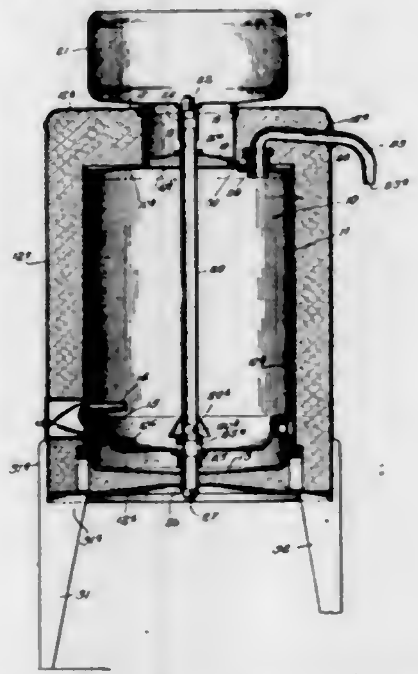
Charles Lorber, Louisville, Ky.
Application July 2, 1945, Serial No. 602,853
7 Claims. (Cl. 35—48)


10
11
20
21
WRITE "F" FOR FALSE OR "T" FOR TRUE
TEAR ON THIS LINE AND FOLD TO LEFT
1
HOOP JR. ROLLS TO 3 LENGTH DERBY VICTORY.
2
200,000 GERMANS TO LABOR FOR U.S
USUAL PRINTED MATTER
3
TOTALITARIAN RULE IN REICH IS PREDICTED
9
ONLY 5% OF FRENCH CAPTIVES DIED
10
CIVILIANS TO GET MORE MEAT IN FALL
23
16
17
18
2
4

1. A periodical sheet having a obverse and a reverse side, the obverse side of said sheet bearing a portion including a columnar series of problems spaced from an edge of the sheet, the sheet bearing at an edge a rectangular portion defined from the remainder of the sheet by a tear line perpendicular to said edge and a fold line parallel to the edge, said portion having one edge coinciding with an edge of the first portion, when torn on the tear line and folded on the fold line, said rectangular portion having on the reverse side a column of answers to said problems said tear lines and fold lines being so positioned and arranged that upon tearing on the tear line and folding on the fold line the problem and answer portions of the sheet will be juxtaposed and the series of problems and answers in alignment for comparison.

2,422,492
DISPLACEMENT-TYPE ELECTRIC WATER HEATER

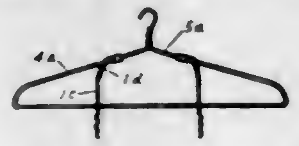
Eugene W. Losee, Hebron, Ill., assignor to Losee Products Co., a corporation of Illinois
Application December 15, 1944, Serial No. 568,233
12 Claims. (Cl. 219—38)



1. A water heater of the displacement type, including: an inner tank having an opening of substantial area in the top thereof; a heat-insulating enclosure for said tank, the enclosure having a well registering with said opening; a readily-removable closure member adapted to be received in said well and to make sealing engagement with said tank to close said opening; and water supply means including a pipe passing through said closure member and extending to near the bottom of the tank and provided with an opening for discharging water thereinto.

2,422,493
GARMENT HANGER

John F. May, Erie, Pa.
Application February 2, 1945, Serial No. 575,760
3 Claims. (Cl. 223—96)

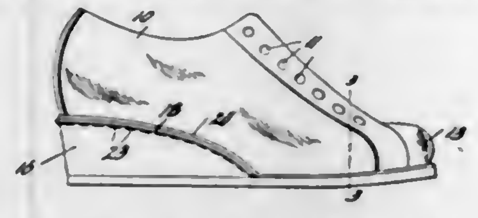


1. In a hanger for men's suits, the combination with a substantially triangular wire frame having oppositely diverging inclined upper arms and a lower cross piece connecting them, a pair of spring arms having coiled ends wrapped around each of said inclined arms with a sliding fit, the free ends of the spring arms projecting below the cross piece and flexing in the direction thereof, said flexing serving to cant the coiled portions to lock them in their adjusted positions on the inclined arms.

2,422,494
WELT SHOE

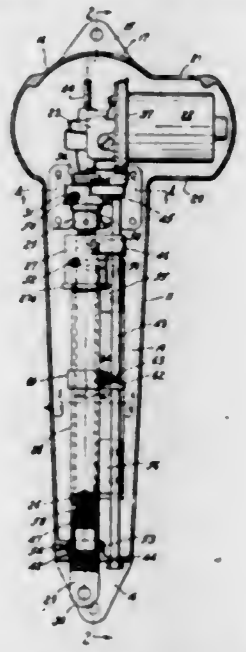
David Morein, New York, N. Y.
Application August 9, 1946, Serial No. 689,379
3 Claims. (Cl. 36—17)

1. In a shoe having an upper, an insole, a wedge heel, and a flat outer sole; the combination of a covering for said wedge having a laterally outwardly extending portion along the upper edge of said wedge and a welt strip sewed to the upper and insole along its full length, to the outsole along its forward part and to the said portion of the wedge covering along its rear part.



2,422,495
ELECTRIC PISTON

Clarence H. Morrow, Shaker Heights, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application August 18, 1943, Serial No. 499,093
11 Claims. (Cl. 74—424.8)

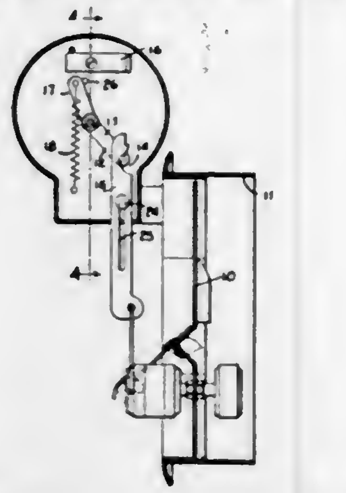


1. A device of the character described, comprising a chambered casing having a support rigidly mounted therein, a coupling member mounted in an opening of said support to rotate on a fixed axis, motor means mounted in the casing at one end of the coupling member and including a driving shaft generally coaxial with the coupling axis, a threaded shaft on the other end of the coupling member and also generally alined with its axis, operating connections between the coupling member and said two shafts, and a tubular plunger extending to the outside of the casing and operated by said threaded shaft.

2,422,496
CONTROL DEVICE FOR DRAFT REGULATORS

Clarence H. Morrow, Shaker Heights, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application January 4, 1945, Serial No. 571,239
3 Claims. (Cl. 236—45)

2. Furnace damper control mechanism of the character described, comprising, in combination, a damper, an operating device movable back and forth and having a disconnectible connection to said damper, an electric motor, speed reducing gearing driven thereby and including a slow running shaft, and a coil spring surrounding and closely fitting said shaft, one end of said spring being free and the other end being fastened to said operating device and power means effective directly upon said operating device and tending to move it reversely to its movement by the motor, said spring serving as a one-way clutch for establishing driving connection through it between the motor and operating device.



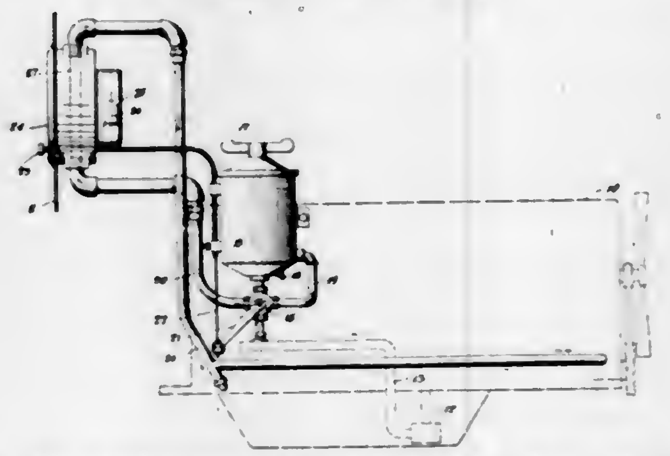
2,422,497
DENTAL IMPRESSION COMPOSITION

Stanley E. Noyes, Los Angeles, Calif.
No Drawing. Application December 22, 1945, Serial No. 637,089
14 Claims. (Cl. 18—47)

7. A composition of matter comprising a water soluble alginate, a fluosilicate, a water soluble phosphate, a filler, lead silicate and calcium sulphate.

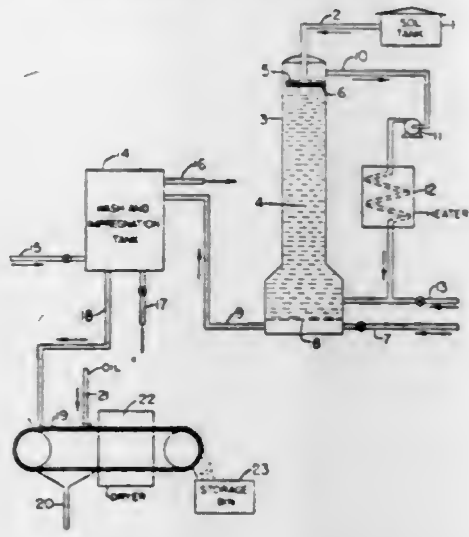
2,422,498
LUBRICANT PURIFYING APPARATUS AND INDICATOR

Samuel Donald Perlman, Washington, D. C.
Application April 25, 1944, Serial No. 532,690
2 Claims. (Cl. 184—6)



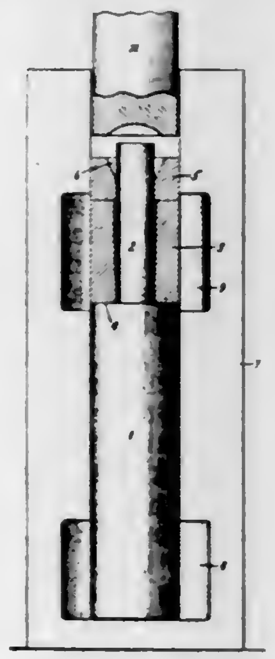
1. An apparatus of the character described for connection to the lubricating system of a motor and which system includes an oil-supplying line, an oil-delivering line and means for inducing a flow of oil through said lines, said apparatus including a transparent tube connected to said delivering line and disposed at a point where the passage of lubricant therethrough may be observed by the operator of the motor, an oil purifying unit formed with an inlet and an outlet, a single "four-way" valve and casing therefor, lines for connecting said valve with the oil-supplying line of said system, the inlet and outlet of the purifying unit and said transparent tube and means for shifting said valve whereby oil may be caused to flow from the line connectable with the oil-supplying line through said valve, thence through the purifying unit and the transparent tube and under an additional shifting of said valve, may be caused to flow directly from the line connected with the oil-supplying line through the valve to said transparent tube.

2,422,499
ALUMINA GEL
Jerry A. Pierce and Charles N. Kimberlin, Jr., Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application February 16, 1944, Serial No. 522,564
4 Claims. (Cl. 23—143)



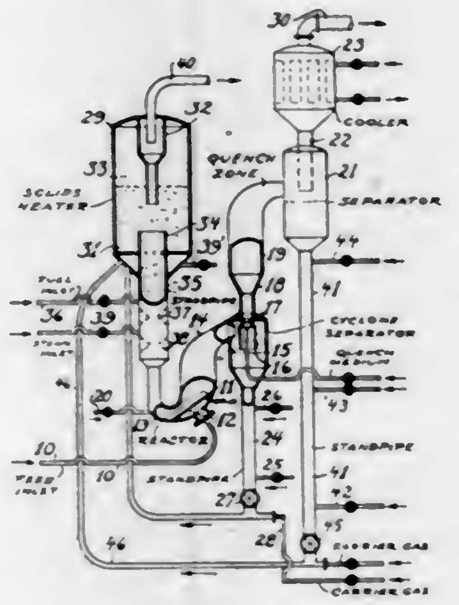
1. An improved process for producing substantially spherical particles of alumina gel which comprises preparing an alumina sol, suspending droplets of the alumina sol of the desired size in a viscous organic water-immiscible inert liquid having dissolved therein an organic base nonreactive with said liquid and in sufficient quantities to change pH and induce gelation and maintaining the droplets in a relatively quiescent state in suspension and out of direct contact with each other for a period of time until the alumina sol has set to a hydrogel, then separating the hydrogel particles from viscous liquid, washing the particles and drying the same.

2,422,500
METHOD OF MAKING MANDRELS
Steven D. Poliacek, Detroit, Mich., assignor to Carboloy Company, Inc., Detroit, Mich., a corporation of New York
Application July 19, 1945, Serial No. 606,002
3 Claims. (Cl. 76—101)



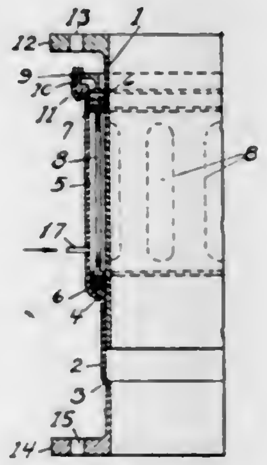
1. The method of making a tube drawing mandrel consisting of a steel shank, a cemented carbide wear ring and an annealed steel cap which comprises providing the steel shank with an integral reduced extension or stud, positioning said ring and cap in that order on said stud, said ring and cap each having tapered inner surfaces, the degree of taper on said cap being substantially greater than the degree of taper on said ring, heating said stud to an elevated temperature and forging it to thereby force the metal therein into intimate contact with said wear ring and cap.

2,422,501
APPARATUS FOR CARRYING OUT CHEMICAL REACTIONS IN THE PRESENCE OF FINELY-DIVIDED POWDER
Bruno E. Roetheli, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 8, 1944, Serial No. 567,277
4 Claims. (Cl. 23—262)



1. An apparatus for processing gaseous material at high temperatures for short reaction periods comprising a vertical reaction chamber, a conduit connected with one end of said chamber for introducing the gases to be reacted, means including a separate conduit for introducing a stream of hot powder into said reaction chamber, a third conduit in open communication with the end of said reaction chamber opposite said first-named end for withdrawing a mixture of powder and gaseous reaction products from said chamber, means immediately adjacent the last-named end of said chamber for separating powder from said gaseous reaction products, means for injecting a cooling medium into said gaseous reaction products immediately following separation of the powder therefrom, a separate heating chamber adapted to heat the powder to a temperature materially above the temperature maintained in said reaction chamber, means for transferring powder separated from said gaseous reaction products to said heating chamber, said first-named separate conduit being in open communication with said heating chamber and adapted to effect transfer of heated powder from said heating chamber directly to said reaction chamber, a plurality of fixed orifices arranged at spaced points within said separate conduit adapted to restrict the passage of powder between said heating chamber and said reaction chamber, and means for introducing a sealing gas between said orifices.

2,422,502
EXPANSION JOINT
Leo W. Schrader, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 15, 1943, Serial No. 502,439
1 Claim. (Cl. 285—162)



An expansion pipe joint for temperatures between about 700° F. and 1400° F. comprising a casing and a sliding member therefor, an annular chamber between portions of said casing and said sliding member, compressible heat-resistant packing at each end of said chamber separated by a lantern ring, said lantern ring having terminal flanged ends with circumferential knoblike projections as spacer elements thereon between rim of said flanged ends and inner wall of said annular chamber, said lantern ring also having an intermediate open web portion, and a compression member at one end of said annular chamber for compacting said packing material between opposite ends of said annular chamber and said terminal flanged ends of said lantern ring, and means for injecting a cooling fluid within said annular chamber.

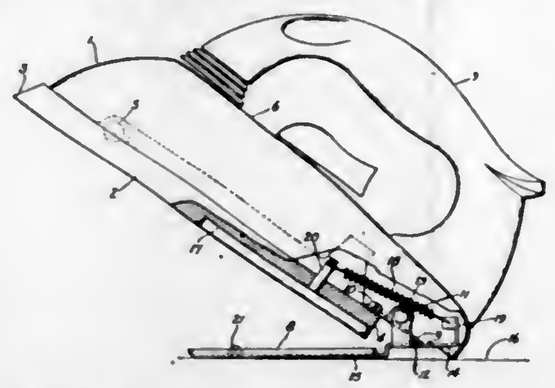
2,422,503
STABILIZED ALKARYL AMINE AND PROCESS FOR PREPARING
Robert K. Smith, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 28, 1943, Serial No. 515,987
5 Claims. (Cl. 260—578)

1. A composition comprising an alkaryl amine and a small but stabilizing amount of boric acid.

2,422,504
RECOVERY OF LOWER ALIPHATIC ACIDS FROM DILUTE AQUEOUS SOLUTION
Oswald Spence, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware
Application February 5, 1944, Serial No. 521,211
4 Claims. (Cl. 260—540)

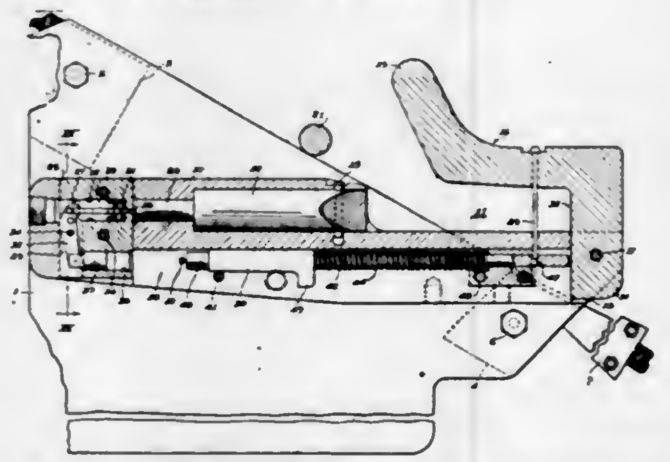
1. The process of recovering lower fatty acids from a dilute aqueous solution, which comprises passing the solution through activated carbon whereby fatty acids and water are retained by the carbon in a higher state of acid concentration, subjecting the carbon to vacuum distillation at a temperature of about 100° C. until the water is substantially all removed, recovering the concentrated acid from the carbon by extraction with an organic solvent, and separating the acids from the organic solvent.

2,422,505
FLATIRON HAVING A RETRACTABLE SUPPORT
William H. Tangeman and James R. Campbell, Ontario, Calif., assignors to General Electric Company, a corporation of New York
Application September 19, 1944, Serial No. 554,736
5 Claims. (Cl. 38—96)



1. A flatiron comprising an ironing body, a support attached to said body for movement from a retracted position to an extended position in order to support said body in an elevated position with reference to the ironing work surface, power means connected to said support for biasing it to said extended position, said power means normally being ineffective to bias said support to said extended position when the iron is in its ironing position on the work surface and the support is in said retracted position, and an element controlling said power means to render it effective to bias said support to said extended position operating responsively to the engagement of said element with said work surface as said iron body is tilted upwardly with reference to said work surface about a predetermined axis.

2,422,506
MINE ANCHOR-LINE CUTTER
Robert Temple, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del., a corporation of Delaware
Application November 6, 1945, Serial No. 626,969
9 Claims. (Cl. 114—221)



1. A mine anchor-line cutter comprising a frame, a cutting member carried by the frame and having a cutting end, a guide member having an anvil portion disposed in the path of the cutting member, said guide being shaped to direct a mine line into a position between the cutting end of the cutter and said anvil portion of the guide, breakable means connecting said guide member to the frame, and explosive means carried by the frame for driving the cutter through said line and then against said anvil portion with sufficient force to cause said breakable means to break and release the guide member from the frame.

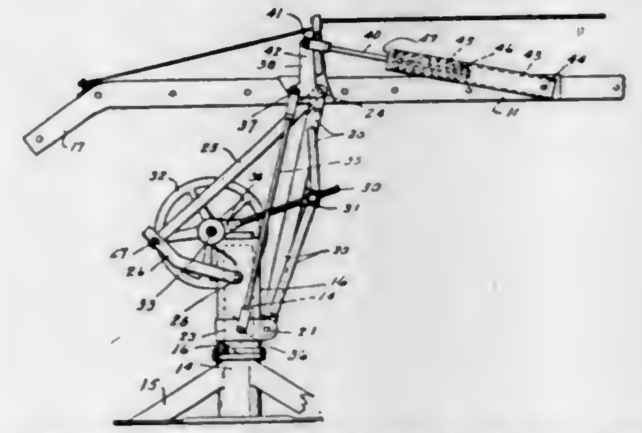
2,422,507

LADDER COUNTERBALANCING APPARATUS

Herman J. Troche, Cleveland Heights, and Alvin J. Farrar, Cleveland, Ohio, assignors to The American Coach & Body Company, Cleveland, Ohio, a corporation of Ohio

Application May 3, 1945, Serial No. 591,756

8 Claims. (Cl. 228—13)



1. In combination, a vehicle, a ladder, means for mounting the ladder for tilting movement on the vehicle, said means comprising a column rigidly attached to the vehicle, a sleeve supported by the column, and counterbalancing means connecting the sleeve and ladder, said last-mentioned means including a preloaded plunger pivotally connected to the ladder, and means for connecting the other end of the plunger to said sleeve, said last-named means including a system of parallel links one end of each link being pivotally connected to the sleeve, the other end of one link being pivotally connected with the ladder, and with a lever, a pivotal connection between the other link and the lever and a pivotal connection between the preloaded plunger and said lever.

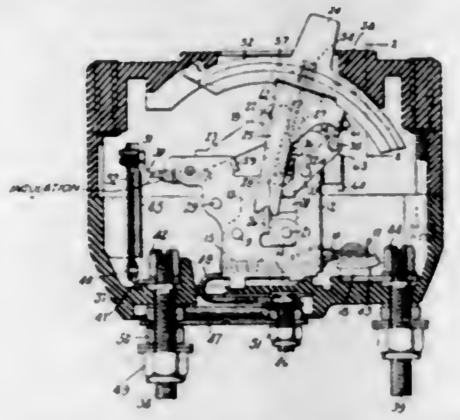
2,422,508

CIRCUIT BREAKER

Fred G. von Hoorn, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application June 25, 1943, Serial No. 492,284

3 Claims. (Cl. 201—48)



1. The combination in a circuit breaker provided with an enclosing casing made of insulating material and with switch contacts, operating mechanism therefor, and current responsive tripping means for said contacts inside said casing, of first and second conductors mounted in a wall of said casing and extending therethrough for the external connection of said circuit breaker in a predetermined circuit, an intermediate conductor mounted in a wall of said casing and extending therethrough, electric connections inside said casing including said current responsive means between said first conductor and said intermediate conductor, a current calibrated shunt conductor on the exterior of said casing electrically connected between said first conductor and said intermediate conductor, and an electric connection inside said casing from said intermediate conductor through said contacts to said second conductor.

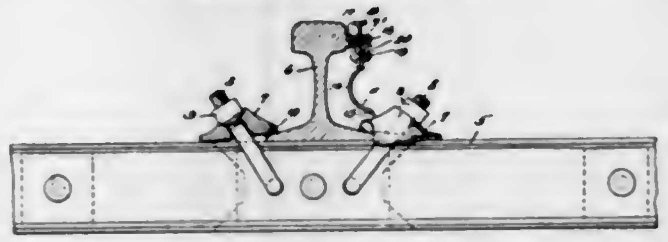
2,422,509

THIRD RAIL SUPPORT

Willis F. Walker, Seisholtzville, Pa.

Application January 4, 1944, Serial No. 516,960

2 Claims. (Cl. 191—32)



1. A ready attachable third rail support for attachment to railway rails having rail fasteners, comprising a vertically extending body constructed of a length of spring steel material having a convoluted lower end adapted to be fitted over the base of a railway rail and clamped in position under the rail fastener thereof, and having an enlarged convolution intermediate the ends of the body, the latter convolution being extended in the direction of the rail with which it is used, a third rail clamp on the upper end of the body adapted to rest against one side of the head of a railway rail with which the third rail support is used, and said third rail support being so constructed, arranged and supported that the third rail moves substantially vertically under the weight of an object moving thereover, and in contact with the side of the head of the rail during such movement.

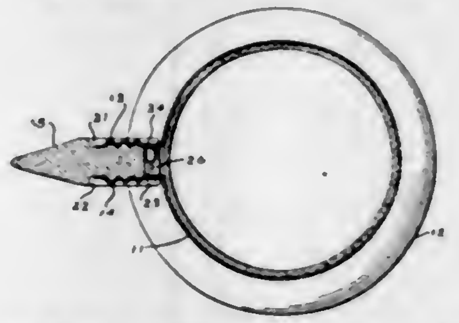
2,422,510

VESSEL HANDLE ASSEMBLY

John B. Ward, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application August 21, 1945, Serial No. 611,777

4 Claims. (Cl. 294—27)



1. In a handle assembly, a thin sheet metal band shaped to embrace a vertically disposed side wall portion of a vessel and having its opposite ends terminating in clamping arms which extend outwardly from one side of the embraced vessel, each of said arms having corrugations which run transverse to the arms and which have walls sloping toward and away from one another, a handle having a portion to be received between said arms, said portion having recesses in its sides whose walls correspond in outline to the corrugations of said arms, and a clamping element located between the ends of said arms and the vessel side wall adapted to clamp said arms to said handle portion and to cause walls of said recesses to intimately engage walls of the corrugations in the arms, said arms having apertures and said handle portion having a recess through which said clamping element passes.

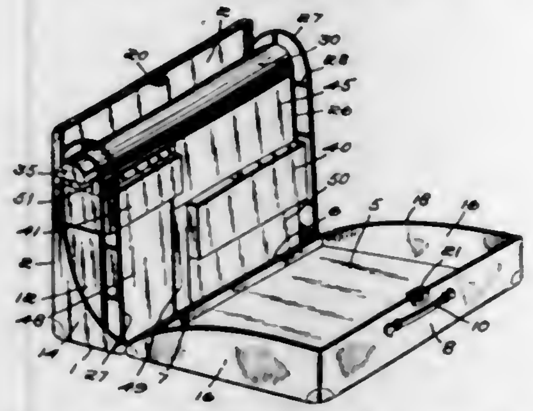
2,422,511

REMOVABLE DRAPING AND STORAGE FRAME FOR LUGGAGE

Karl V. Wolsey, Medford, Mass.

Application July 16, 1945, Serial No. 605,222

2 Claims. (Cl. 190—51)



1. Improved luggage of the kind described, comprising an outer covering and a removable inner unit, said inner unit consisting in a wire-like framework, having a convex top portion and a plurality of removable box-like compartments fitted beneath the convex top, in combination with a supporting base and a pair of end frames, said end frames being united with the convex top, together with a plurality of bracing elements to support selected compartments.

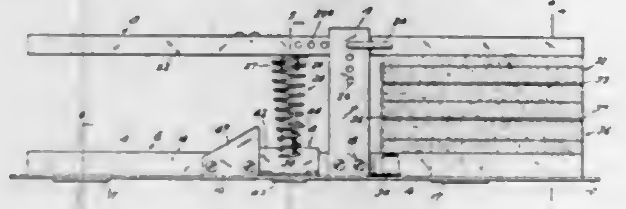
2,422,512

OIL GAUGE WIPER

Hubert B. Wright, Nashville, Tenn.

Application April 14, 1945, Serial No. 588,374

6 Claims. (Cl. 15—210)



1. An oil gauge wiper of the class described comprising an elongated relatively stationary unit provided at one end with a wiper element, a companion correspondingly elongated unit opposed to the first-named unit, a wiper element on the outer end thereof coacting with the first-named wiper element, said first-named unit being provided with a pair of fixedly mounted parallel arms, said arms being provided with selectively usable hinge pin holes, the intermediate portions of the second-named unit being provided with coacting hinge pin selectively usable holes, and a removable hinge pin passing through selected holes in the arms and said second-named unit to pivotally and detachably mount the said unit between said arms and spring means interposed between and connected with said units.

2,422,513

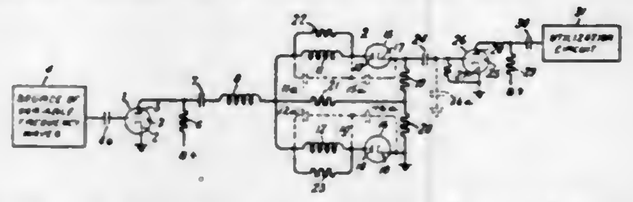
FREQUENCY RESPONSIVE NETWORK

Ralph S. Yeandle, Schoharie, N. Y., assignor to General Electric Company, a corporation of New York

Application December 7, 1944, Serial No. 567,110

7 Claims. (Cl. 250—27)

1. A wide band frequency discriminating circuit comprising a source of electric oscillations variable in frequency over a predetermined band of frequencies, a pair of series resonant circuits connected to said source and including a common inductive impedance and a pair of separate inductive impedances, said series resonant circuits being oppositely mistuned with respect to a predetermined mean frequency within said band of frequencies, and a pair of opposed rectifying circuits connected across said separate inductive impedances and including separate load resistors having a common terminal.



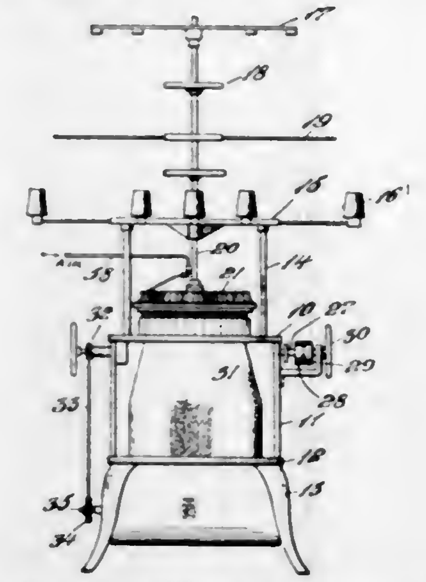
2,422,514

APPARATUS FOR CLEANING KNITTING MACHINES

John L. Allen, New Bedford, Mass.

Application August 21, 1946, Serial No. 691,946

5 Claims. (Cl. 66—168)



1. Apparatus for cleaning a knitting machine of the type having a stationary part and a cylinder rotating relative to the same, comprising a hollow supporting rod within said cylinder, a chamber rotatably mounted on said rod, a nozzle carried by said chamber and rotatable therewith, means on said chamber to engage a rotatable part of said machine for rotation of said chamber, a conduit from said hollow rod to said chamber and a conduit from said rod to some external part of the machine for conducting air to said hollow rod.

2,422,515

PREVENTION OF CORROSION IN FERROUS METAL PIPE LINES CARRYING REFINED PETROLEUM DISTILLATES

Albert A. Anderson, Hobart, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

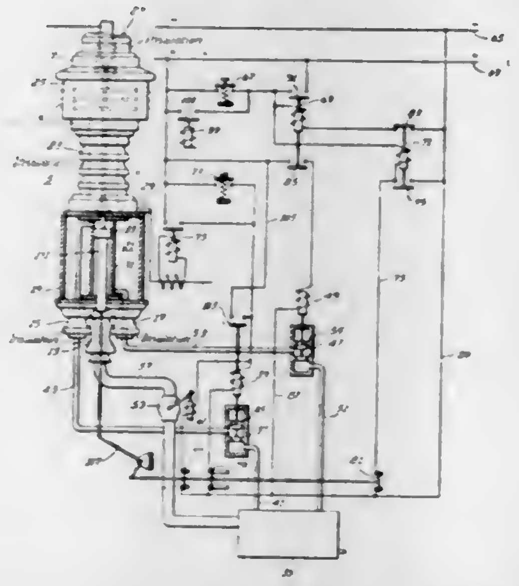
No Drawing. Application September 15, 1943, Serial No. 502,541

9 Claims. (Cl. 44—72)

1. The method of controlling the internal corrosion of a ferrous metal pipe line conducting a refined petroleum distillate containing dissolved water, said corrosion resulting from the combined action of said distillate and a water phase separated therefrom within said line, said method comprising introducing into the stream of distillate flowing thru said line an aqueous solution of an alkali amide in which the amount of amide is not more than about 5 pounds per thousand barrels of distillate.

2,422,516
FLUID PRESSURE OPERATED CIRCUIT BREAKER

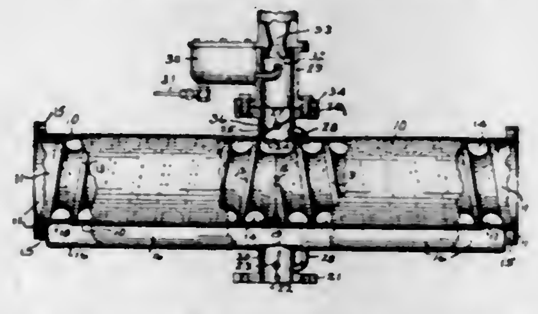
Benjamin P. Baker, Turtle Creek, and Herbert James Webb, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 7, 1944, Serial No. 517,304
2 Claims. (Cl. 200—82)



1. In an operating system for an electric circuit breaker comprising relatively movable contacts, operating means for moving said contacts to both open and closed circuit positions comprising a single cylinder, a single piston in said cylinder and a rod connected to the movable contact and extending into one end of the cylinder and connected to the piston at one side thereof, a source of fluid under pressure, a tripping valve for controlling flow of fluid under pressure to said one side of said piston for effecting opening of said circuit breaker, a closing valve for controlling flow of fluid under pressure to the opposite side of said piston for effecting closing of said breaker, a follower on said last mentioned opposite side of said piston extending slidably through the other end of said cylinder, said follower being of relatively larger cross section than said contact rod so that the fluid pressure reactive area on the opening side of said piston is considerably larger than the effective fluid pressure reactive area of the closing side of said piston whereby quick opening operation of the circuit breaker will occur in response to opening of said opening valve even though said closing valve may be open and full fluid pressure applied to the closing side of the piston.

2,422,517
GAS ENGINE FUEL INDUCTION MEANS

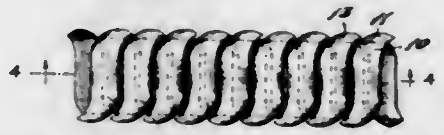
Erwin G. Baker, Indianapolis, Ind.
Application December 21, 1944, Serial No. 569,250
3 Claims. (Cl. 123—122)



1. In gas engine fuel induction means, the combination with a fuel atomizer, of an open ended housing tube; an open ended heat transfer tube within the housing tube; a spiral rib around the transfer tube in intimate contact with the wall of said housing tube, the wall of the transfer tube being depressed between adjacent crests of the rib to form a spiral passageway around the transfer tube bounded thereby and the housing tube thereacross; said housing tube having an entry port over said passageway; conduit means interconnecting said port with said atomizing means; said housing tube having a discharge port toward the end of said passageway leading from said entry port; and conducting means leading from said discharge port; said transfer tube being gas sealed from said housing tube; a valve in said conduit means; a second valve in said conducting means; and a by-pass conduit leading from said conducting means outside of the second valve and to said conduit means between said valve and said housing tube.

2,422,518
MOLDED BRACELET

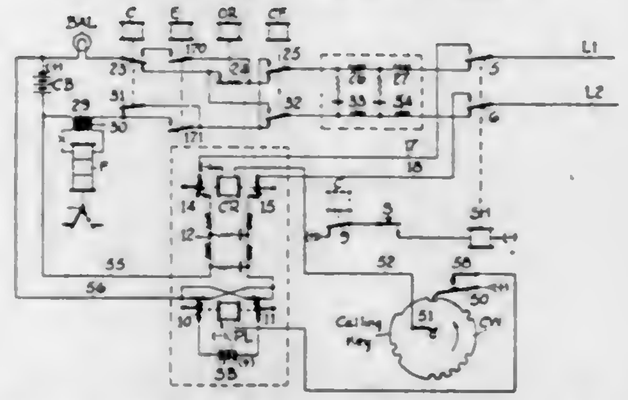
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application March 16, 1944, Serial No. 526,778
1 Claim. (Cl. 63—5)



An extensible bracelet comprising a set of a plurality of members arranged in parallel relation and a second set of members connecting the first set by each second set member being attached to one first set member at one edge of the set and attached to the next member at the other edge of the set there being sufficient flexibility at said connections to permit extendibility of the members as a whole, said members being of a material and of a size to provide relative rigidity in the individual members.

2,422,519
CODE COMMUNICATION SYSTEM FOR RAILROADS

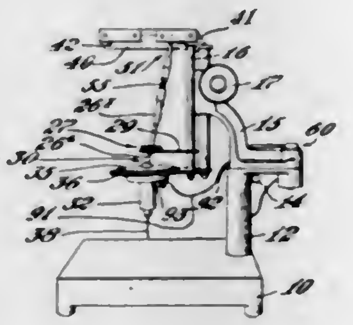
William M. Barker, Greece, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application July 21, 1944, Serial No. 545,973
7 Claims. (Cl. 177—353)



5. In a code communication system for railroads, a pair of line wires connecting a control office and a plurality of field stations, code transmitting means at each field station including a polar line relay and operable only when said line relay is energized with a particular polarity to govern the energization of said line wires for transmission of a field start condition to the control office, a mechanical selector bridged across said line wires with a coupling condenser and responsive to the number of changes in the energization of said line wires during a selector code, said selector requiring for its operation changes in the level of energization of said line wires equivalent to pulses of a certain voltage and alternate polarities, coding equipment at the central office normally energizing said line wires with a predetermined voltage of said particular polarity to maintain said line relays energized to permit an automatic field start, and manually operable means in the control office including a selector calling key for intermittently energizing said line wires with pulses of the same polarity opposite to said particular polarity in accordance with a selector code, said intermittent energization of said line wires being at a voltage higher than said predetermined voltage and substantially double said certain voltage required for selector operation by alternate polarities, said higher voltage acting by charging and discharging said coupling condenser at a high energy level to cause operation of said selector substantially the same as in response to pulses of said certain voltage and of alternate polarity.

2,422,520
INSTRUMENT FOR MEASURING CUTANEOUS SENSITIVITY

Samuel Howard Bartley, Hanover, N. H.
Application September 17, 1946, Serial No. 697,594
12 Claims. (Cl. 128—2)

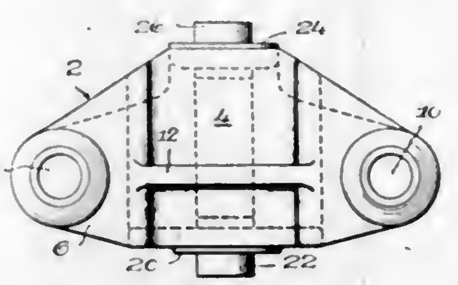


1. Apparatus for measuring cutaneous sensitivity comprising base means, fulcrum means mounted on said base means, template means having a pattern of fastening means mounted on one side of said fulcrum means, a probe base mounted on the other side of said fulcrum means, and a lever pivoted on said fulcrum, said lever having on one side means for engaging said fastening means and on the other side probe means adapted to be guided on said probe base.

2,422,521
PIVOTED MEMBER

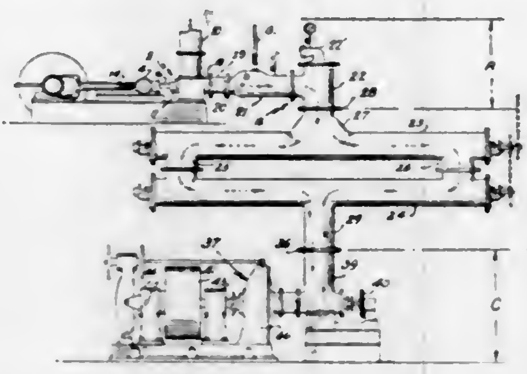
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Original application June 12, 1944, Serial No. 539,885. Divided and this application April 23, 1945, Serial No. 589,816
8 Claims. (Cl. 74—469)

1. A brake lever support block comprising a substantially rectangular body portion, a pair of spaced lugs at each side of said block projecting laterally from said portion at the top and bottom thereof respectively, each pair of said lugs comprising vertically aligned pivot means for an associated brake lever, coaxial pivot means integrally formed with said block at opposite ends thereof, and a substantially horizontal transverse slot extending through said block and communicating with the space between each pair of lugs, said block comprising top and bottom bearing pads integrally formed thereon within said slot.



2,422,522
METHOD FOR THE PRODUCTION OF PULP FROM CELLULOSIC MATERIAL

James Brookes Beveridge, Westmount, Quebec, Canada, and Richard D. Kehoe, Hadlyme, Conn., assignors to Paper and Industrial Appliances, Inc., New York, N. Y., a corporation of New York
Original application August 7, 1940, Serial No. 351,670. Divided and this application April 24, 1943, Serial No. 484,444
4 Claims. (Cl. 92—6)



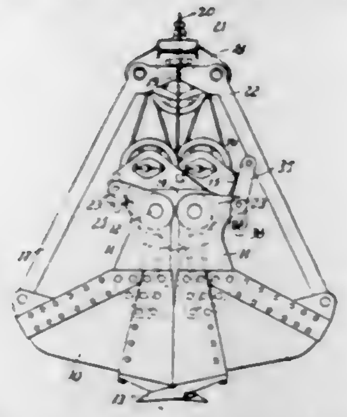
1. The steps in defibrating cellulosic material which comprise maintaining at a temperature above 212° F. and at superatmospheric pressure an ever-changing confined body of vapor, defibrating such material within said vapor body, said vapor body comprising a plurality of serially arranged zones of which the first is a feeding-in zone through which material has horizontal progression and the final one is another through which material has horizontal progression and leads to the place of defibration while an intermediate zone longer than the others extends generally downwardly, continually forcibly feeding to said feeding-in zone such material in compressed and compacted form, disintegrating such forms in said feeding-in zone, spraying onto such material at the place of such disintegration and before the forms leave the feeding-in zone a quantity of a fluid substance capable under the conditions existing in the vapor body of removing incrusting material of the cellulosic fibers, agitating the material while progressing forwardly within the intermediate zone as well as agitating the material while progressing forwardly within the final zone for controlling the rate of progression and the time of transit of the material through the zones whereby the rate of progression minimizes degradation of its fibers while the time of transit determines the extent of incrustation loss to be substantially ten per cent or more of the input material taken on a dry weight basis.

2,422,523
BUCKET LOCKING MEANS

Henry W. Botten, Cleveland, Ohio, assignor to The Owen Bucket Company, Cleveland, Ohio, a corporation of Ohio

Application November 7, 1945, Serial No. 627,195

5 Claims. (Cl. 37—186)



1. A bucket of the character described, including head and counterweight members, bucket members pivoted to the counterweight member, links connecting the head and bucket members, and cooperating latching devices mounted on the bucket members and arranged when the bucket opens to engage each other and releasably lock them in open position, said latching devices including two parts pivotally connected respectively to the two bucket members and provided with a knuckle by means of which they engage each other, said parts operating as a toggle and advancing toward dead center position of the knuckle as the bucket opens.

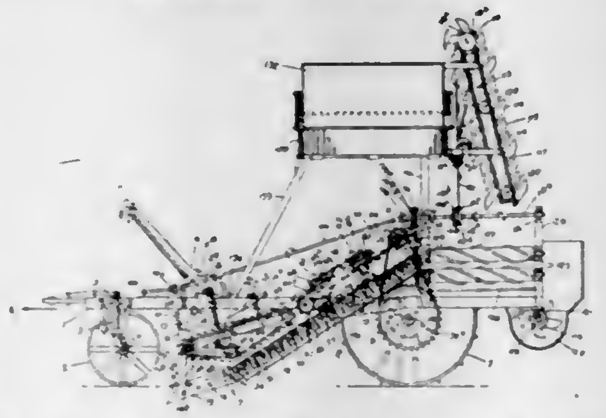
2,422,524
BEET HARVESTING, TOPPING, TRIMMING, AND CLEANING MACHINE

Frank Braun, Nobleford, Alberta, Canada

Application March 29, 1944, Serial No. 528,569

In Canada November 15, 1943

6 Claims. (Cl. 55—9)



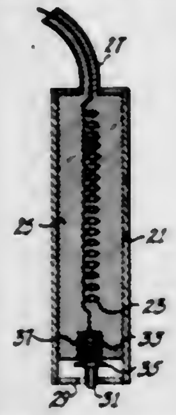
1. A mobile harvesting and topping machine of the type described comprising in combination a chassis frame; a pair of leading wheels journaled within the said frame; a pair of axle mounted rear wheels carrying the greater load of the machine; a drive sprocket on one of said rear wheels; a chain and sprocket combination driven from said rear wheel sprocket; a countershaft driven by said chain and sprocket; a hand manipulated clutch between said chain and sprocket and said countershaft; a twin-bladed beet digging and lifting shovel at the leading end of said machine for transference of the beets from the ground to the machine and slotted for shedding dirt; means to adjust the height of said shovel for digging operations; a symmetrically disposed and operated sprocket driven and sprocket guided twin-type endless chain beet conveyor in rear of said shovel to receive beets therefrom, said drive sprockets being driven by crown wheels and shafts from said countershaft; an interiorly mounted height adjustable frame rearwardly pivoted on and swingable arcuately from the axle of said rear wheels and supporting said conveyor with said shovel attached; an endless chain-and-spike beet directing unit supported by and driven through sprockets mounted on the arms comprising said interior frame; a rotatable self adjusting beet-top slicing disc mounted above said conveyor on said interior frame; spirally ridged beet cleaning rollers receiving therebetween topped and trimmed beets from said conveyor; and a bucket elevator for delivery of cleaned beets to an elevated bin for disposal.

2,422,525
RADIO-FREQUENCY ELECTRIC FIELD BONDING APPARATUS

George H. Brown, Haddonfield, and Rudolph A. Bierwirth, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application July 31, 1942, Serial No. 453,134

9 Claims. (Cl. 219—47)



1. In heating apparatus employing high frequency electrical energy for activating a dielectric bonding adhesive interposed between two adjacent sheets of laminations, the combination of an outer, disc-like, annular electrode disposed in a plane, an inner electrode concentric with said outer electrode and spaced radially therefrom, the end of said inner electrode terminating at a point in proximity to said plane and said inner electrode having a cross sectional area which is small compared to that of said outer electrode, common supporting means for both said electrodes, said annular electrode having connection with said common supporting means only at at least a portion of its periphery, one of said electrodes normally extending beyond the other of said electrodes and being yieldable relative thereto whereby when said one electrode is brought up against the outer surface of one of said sheets and pressure is applied thereto, said one electrode will yield to permit also bringing said other electrode into engagement with said surface, and means connected to said electrodes for connecting said electrodes to a source of high frequency electric energy to thereby establish between said electrodes a high frequency electric field having a stray component for activating said adhesive.

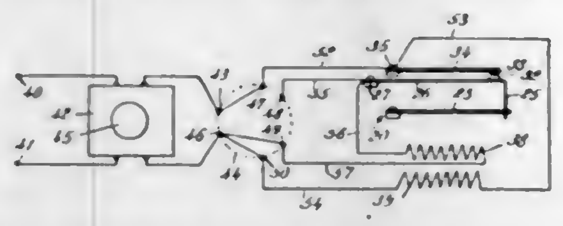
2,422,526
HEATING SYSTEM

Lyndon Walkup Burch, Bronxville, N. Y., assignor to The Wilcolator Company, Newark, N. J., a corporation of Delaware

Application June 20, 1941, Serial No. 398,920

17 Claims. (Cl. 219—20)

4. An oven heating system comprising a broiling element and a baking element in the oven, means for electrically connecting said elements to a current source to energize the elements simultaneously, said means including a switch in the broiling element circuit having an operative position for energizing the broiling element and an inoperative position for de-energizing at least a part of the broiling element, said switch having an oven-temperature-responsive means tending to open the switch and an oven-circuit-current-responsive means tending to neutralize the effect of the first means only while energized, whereby said switch is maintained in its operative position during the initial heating of the oven by the broiling and baking circuits but is maintained in its inoperative position following initial de-energizing of said circuits.

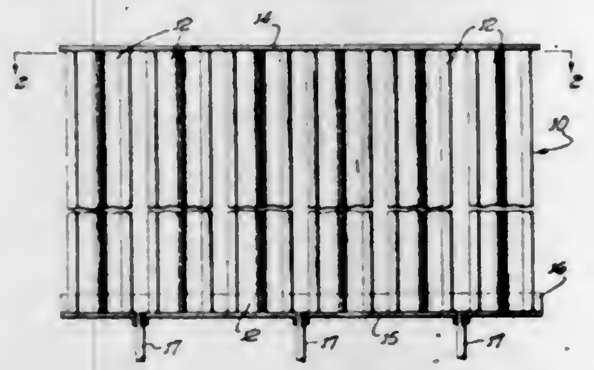


2,422,527
GAS SEPARATOR

Julian A. Campbell, Long Beach, Calif.

Application October 7, 1944, Serial No. 557,621

3 Claims. (Cl. 183—77)



1. A separator comprising a vertically extending baffle having a gas-impinged surface curved concavely in the direction of the gas flow, said baffle having an inwardly turned outer edge portion curved throughout substantially 360 degrees and extending in the direction of said concave surface and in spaced relation thereto to form a narrow convergent throat through which liquid entrainment particles centrifugally deposited on said concave surface by the gas sweep toward said edge portion are displaced into a vertically extending zone isolated within said turned portion from the gas stream, the minimum spacing of said turned portion and concave surface within said throat being restricted to a gap capable of passing deposited liquid entrainment into said zone but sufficiently narrow to prevent gas flow into and out of said zone through the throat at any appreciable velocity.

2,422,528
TETRACHLOR SUCCINONITRILE AND PROCESS OF PRODUCING IT

Oliver W. Cass and Harry B. Copelin, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 21, 1944, Serial No. 559,834

14 Claims. (Cl. 260—464)

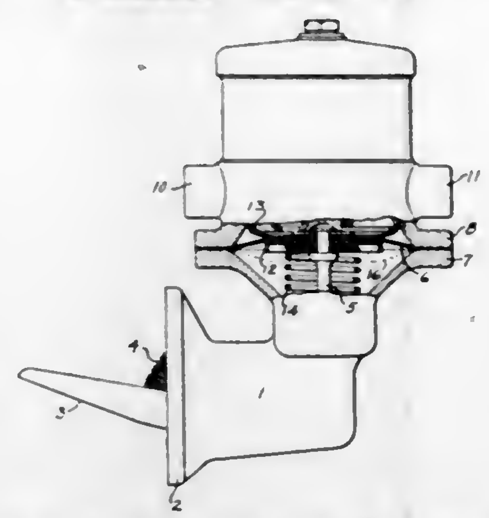
14. Tetrachlorosuccinonitrile.

2,422,529
METHOD OF MAKING DIAPHRAGMS

Irven E. Coffey, Normandy, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Original application June 15, 1944, Serial No. 540,464. Divided and this application September 13, 1945, Serial No. 616,137

5 Claims. (Cl. 28—74)



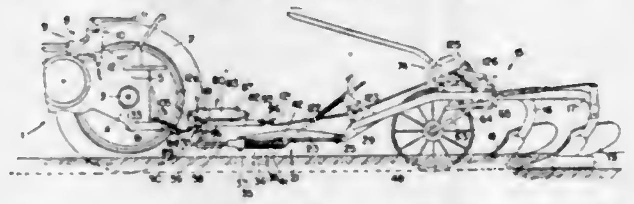
1. The method of making diaphragms which comprises weaving a cloth with unequal tension on the warp and weft, impregnating and coating the cloth with a plastic material by passing the cloth between rolls to which the plastic material is supplied, and adjusting the position of the cloth so that it passes through the rolls in the direction of the looser threads so as to equalize the tension of the warp and weft.

2,422,530
RELEASABLE POWER-OPERATED TRACTOR AND TRAILING PLOW CONNECTIONS

Frank T. Court, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application July 1, 1943, Serial No. 493,144

11 Claims. (Cl. 97—50)



1. The combination with a tractor, of an implement having a part to be adjusted, releasable cushioning means connecting said implement with the tractor, adjusting means carried by the tractor and including a support releasable from the tractor with the implement and means operated by power derived from the tractor, mechanism releasably supporting said power operated means on said support, said power operated means being releasable from said support when said support is released from the tractor, a connection from said power operated means to said implement part for adjusting the position of the latter, and means for releasing said power operated means from its supporting mechanism when the implement and said support are released from the tractor.

2,422,531
APPARATUS FOR CUTTING BARS, TUBES, AND THE LIKE

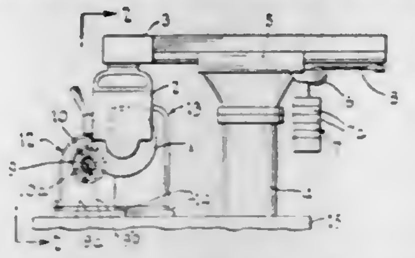
Gilbert L. Dannehower, Westfield, and Winfield B. Heinz, Bound Brook, N. J.

Application July 20, 1943, Serial No. 495,470

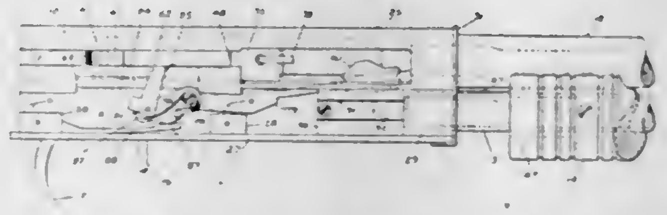
8 Claims. (Cl. 51—105)

8. In a cutoff machine for cutting off bars, rods, tubes and the like, an abrasive cutting wheel,

means to rotate the cutting wheel, means to move the cutting wheel and the work relative to each other to cause the cutting wheel to move into the work, means to continuously oscillate the work during the cutting operation to continuously present new surfaces of the work to the cutting wheel, and means giving floating movement of the cutting wheel relative to the work during said oscillation of the work comprising a weight, cord and pulleys floatingly feeding the cutting wheel into the work with a constant uniform pressure.



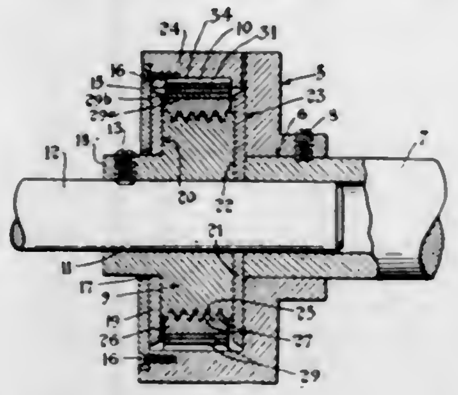
2,422,532
BOLT-ACTUATED CARTRIDGE FEEDING MEANS FOR RIFLES
Edward Dehm, Klamath Falls, Oreg., assignor to Edward Dehm and Bertha R. Smith, as joint tenants
Application December 11, 1943, Serial No. 513,944
5 Claims. (Cl. 42—17)



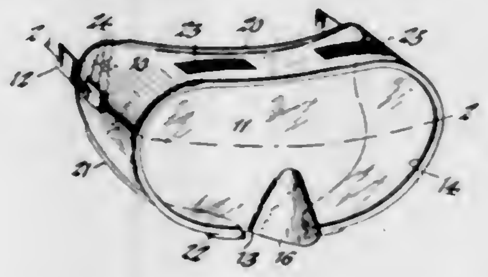
1. In a bolt action rifle, a barrel, a barrel breech extension forming a cylindrical bolt chamber, the barrel receiving a cartridge from said chamber, a bolt slidably mounted in the chamber and including an axially turnable collar, a guide slot extending longitudinally of the bolt chamber and having a shoulder at its forward end, a locking rib carried by the collar and having sliding movement in the guide slot and adapted to be turned with the collar for engagement against said shoulder when the bolt is in its forward position to lock the bolt, a reciprocable member supported forwardly of the barrel extension, and an operative coupling between the reciprocable member and the bolt collar which is so constructed and arranged that upon forward movement the bolt will be shifted forwardly and the collar will be turned to secure the bolt rib against said shoulder and upon rearward movement the collar will be turned to disengage the bolt rib from said shoulder, means for feeding cartridges into position beneath the chamber, the chamber having a bottom opening, means for receiving and lifting a cartridge upwardly through said bottom opening into the chamber, and means engaged by the locking rib during its movement forwardly in the guide slot, and coupled with said cartridge receiving and lifting means, for actuating the cartridge receiving and lifting means.

2,422,533
CLUTCH
John M. Dodwell, Shawbridge, Quebec, Canada
Application June 21, 1944, Serial No. 541,309
In Canada April 19, 1944
21 Claims. (Cl. 192—41)

1. An over-running clutch comprising a rotatably mounted clutch member, shoe means arranged around said clutch member in frictional contact therewith, a second rotatably mounted clutch member, and torque transmitting band means overlying said shoe means and connected to the second clutch member, the arrangement being such that the band means is tensioned around the underlying shoe means by predetermined relative rotation of said clutch members and is thereby caused to exert radial pressure on the shoe means to increase the contact pressure between the shoe means and the first mentioned clutch member sufficiently to cause the two clutch members to be rotated as a unit by the torque transmitted from the driving clutch member to the driven clutch member through the agency of said shoe and band means.



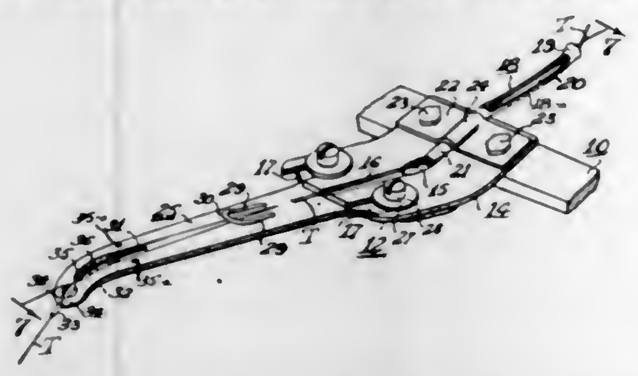
2,422,534
EYESHIELD
Joseph E. Du Bois, Buffalo, N. Y.; Virginia I. Du Bois, executrix of said Joseph E. Du Bois, deceased, assignor to Virginia I. Du Bois, Rita C. Sterne, Eileen Silbert, and Florence E. Taylor, all of Buffalo, and Lauriene T. Holzworth, North Tonawanda, N. Y.
Application January 12, 1944, Serial No. 517,947
7 Claims. (Cl. 2—14)



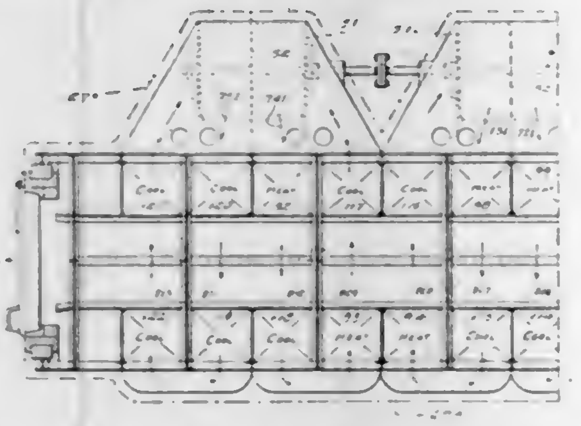
1. An eye shield of the character described, comprising a relatively thin, flexible rim member of substantial width having the inner edge thereof shaped to fit the contour of the wearer's face in the vicinity of the eyes and having the front edge thereof convexly curved, and a lens member fitted in and following the convexly-curved contour of the front edge of said rim member, the bottom side of the latter being open to accommodate the nose and the lens member being shaped to engage the nose.

2,422,535
YARN GUIDE
Ernest A. Feustel, Hasbrouck Heights, N. J., assignor to Ernest A. Feustel, Inc., East Rutherford, N. J., a corporation of New Jersey
Application April 18, 1946, Serial No. 663,166
7 Claims. (Cl. 66—126)

1. A yarn-carrier including a base, a replaceable yarn-guide tube having an axially-curved portion and adapted to be mounted at said base, a tube-retaining plate, and bolts securing said plate to said base so as clampingly to hold a portion of said tube for quick attachment and detachment between said plate and said base.



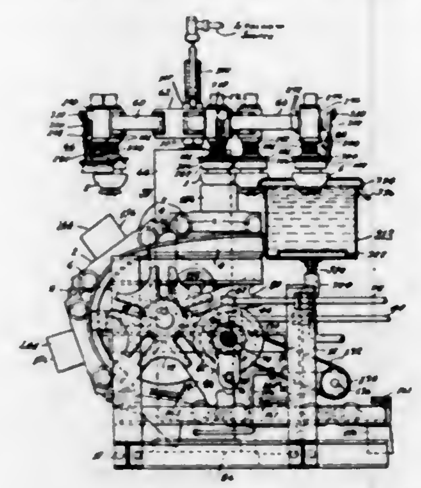
2,422,536
APPARATUS FOR TREATMENT OF FOODS BY DEHYDRATION OR REFRIGERATION COMPRISING TRUCKS AND A TREATING INCLOSURE
William J. Finnegan, Jacksonville Beach, Fla.
Application January 11, 1943, Serial No. 472,023
5 Claims. (Cl. 34—77)



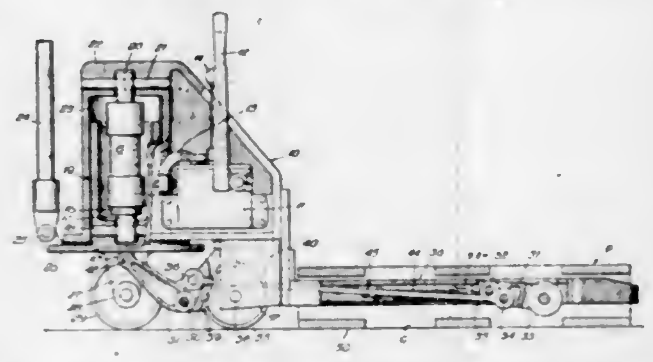
1. Apparatus of the class described comprising a relatively air-tight housing provided with an entrance and an exit, closure means for the entrance and the exit, laterally spaced rows of temperature changing units forming a path between them, baffles in said temperature changing units disposed transversely with respect to said path, trucks to move the material for treatment along the said path, said trucks having vertical baffles intermediate their ends disposed transversely with respect to said path and which align successively with the first-mentioned baffles on opposite sides thereof at the progressive positions of the trucks during movement through the apparatus to form transverse air compartments, blower means, and conduit means coacting with said baffles for circulation of air in a tortuous course through the said compartments.

2,422,537
MACHINE FOR COATING INSULATORS
Eugene H. Fischer, Derry, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application July 31, 1940, Serial No. 348,804. Divided and this application September 28, 1943, Serial No. 504,126
3 Claims. (Cl. 91—46)

1. Coating apparatus comprising a rotatable member, a support therefor, a plurality of angularly displaced means on said member for holding articles to be coated, means for intermittently rotating said rotatable member to successively bring each of said holding means to each of a pair of predetermined stationary positions with one of said holding means at each of said positions at each stop, means for moving an article to a position under a holding means at the first said predetermined position, a receptacle for holding liquid coating material to a predetermined depth under a holding means at the second said predetermined position, means for automatically lowering said rotatable member a predetermined amount while in each of its stationary positions to cause the holding means in said first predetermined position to contact and grip an article and the holding means in said second position to dip an article thereon to a predetermined depth in said receptacle.



2,422,538
PALLET TRUCK
Herbert J. Framhein, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application October 12, 1943, Serial No. 505,920
5 Claims. (Cl. 280—44)

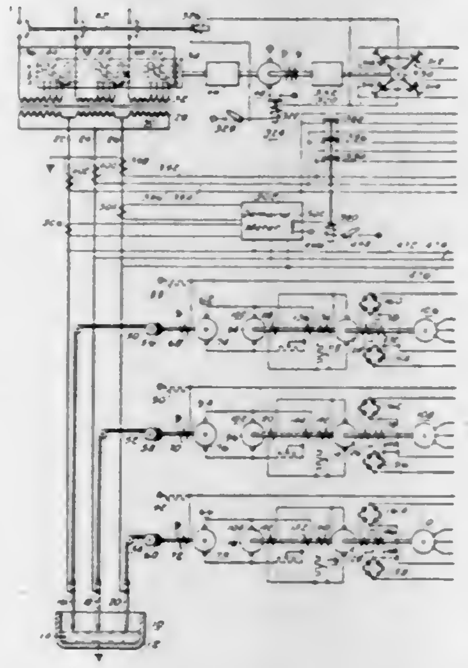


1. In a truck of the class described, an elevating platform, a forward lifting wheel, bearing means formed on said elevating platform mounting said forward lifting wheel for vertical sliding movement on the forward end of said elevating platform, lifting means for imparting downward vertical movement to said forward lifting wheel on said bearing means relatively to said elevating platform and thereby to elevate said elevating platform relatively to the ground, rear lifting wheels, means mounting said rear lifting wheels on the rear end of said elevating platform for vertical lifting movement relatively to said elevating platform, means of connection between said forward lifting wheel and said rear lifting wheels whereby downward vertical movement of said forward lifting wheel relatively to said elevating platform imparts downward vertical movement to said rear lifting wheels relatively to said elevating platform to lift the forward and rear ends of said elevating platform, intermediate wheels on said elevating platform adapted to contact the ground when said elevating platform is in its

lowered position relatively to said forward lifting wheel and the ground, and the said means of connection holding said rear lifting wheels spaced upwardly from the ground when said elevating platform is in said lowered position.

2,422,539
CONTROL SYSTEM

Ralph A. Geiselman and James P. Houck, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 21, 1945, Serial No. 589,663
18 Claims. (Cl. 314—75)

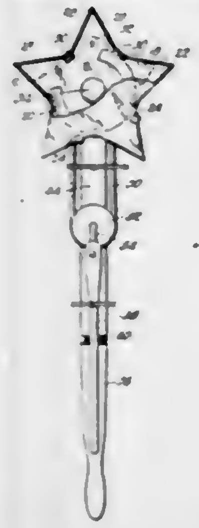


1. In a control system for regulating the feeding of an electrode for producing and maintaining an electric arc, the combination comprising, a motor disposed for raising and lowering the electrode, a generator connected to control the operation of the motor, the generator having two opposed field windings, a control transformer connected to be energized in accordance with the current flowing through the electrode arc, the control transformer being associated with one of the opposed field windings and disposed to be connected in circuit therewith to effect the energization thereof, switching means responsive to predetermined electrical conditions of the electrode circuit for effecting a change in the connections of the control transformer to effect an increase in the energization of the one of the opposed field windings, the other of the opposed field windings being disposed to be energized in accordance with the potentional across the electrode arc, the opposed field windings cooperating to control the excitation of the generator and the positioning of the electrode.

2,422,540
ANIMATED ILLUMINATED APPARATUS

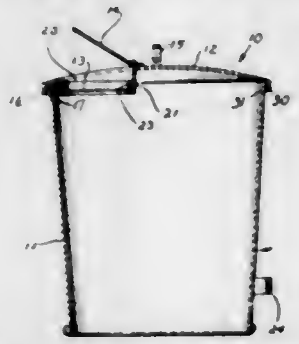
Joseph Golba, Gardner, Kans.
Application January 1, 1945, Serial No. 570,966
1 Claim. (Cl. 240—10.1)

In apparatus of the character described, a portable staff; a hollow body having illuminating means therein rotatably mounted on the staff at one end thereof; a manually manipulable crank journalled in the staff at the opposite end thereof; a sheave on the crank; a pulley on the body; a belt passing over the pulley and sheave; a length extending section removably secured to the said opposite end of the staff; and a bar mounted on the said section for longitudinal reciprocation and rocking movement, said bar being connected to the crank to operate the same as the bar is manually reciprocated and rocked whereby the body is rotated when the extending length is in place.



2,422,541
MILK PAIL

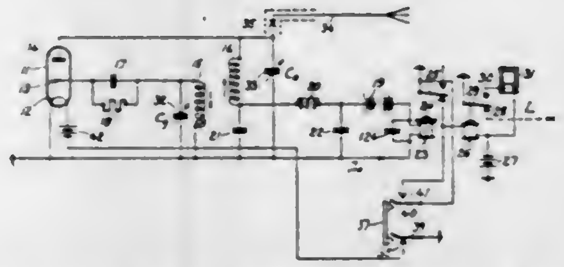
Robert James Gooden, North Kansas City, Mo.
Application January 24, 1945, Serial No. 574,381
2 Claims. (Cl. 31—50)



1. A milk pail, a convex top therefor having an opening therein, a strainer removably mounted in said opening, a bail hinged to said top, and a lid for the opening, said lid being hinged to the top and adapted, when in open position, to lie upon said bail when the latter is disposed in horizontal position on the lid.

2,422,542
ELECTRICAL ALARM SYSTEM

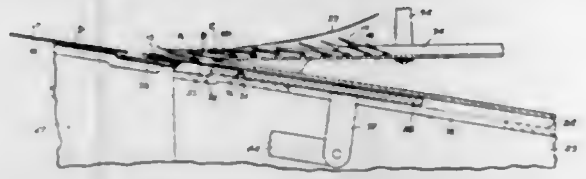
Gotthard Viktor Arnold Gustafsson, Akeshov, Sweden
Application April 11, 1944, Serial No. 530,467
In Sweden May 22, 1943
1 Claim. (Cl. 177—352)



An electrical alarm system comprising in combination, an inductive coupling including a vacuum tube provided with a cathode, a grid, an anode and the necessary current sources connected thereto for its operation, two oscillation circuits connected to the grid and anode, each including a single induction coil, an antenna coupled to one of the said oscillation circuits, and signal means in series with the anode circuit, said inductance coils being so connected that their mutual inductance is of a polarity to partially neutralize the coupling caused by connection to the grid and plate of the tube, circuits in which the coils are connected being coupled to ground and so dimensioned, tuned and loosely coupled to each other, that the characteristic of the anode current is substantially steep and continuous in the operating region whereby undesired external disturbances fail to affect the coupling but any variation of the capacity of the antenna to ground by an object coming into the neighborhood of the antenna effects a variation in the anode current along the steep part of said characteristic to control said signal means.

2,422,543
TICKET APPLYING MACHINE

Elmer C. Hake, Covington, Ky., assignor, by mesne assignments, to Spray-Omatic Products Company, Cincinnati, Ohio, a corporation of Ohio
Application February 1, 1943, Serial No. 474,376
10 Claims. (Cl. 93—88)



9. In combination in a machine for applying connected accordion folded tickets each of which includes a fold line and a pair of legs extending in a common direction from the fold line, said legs being receptive of a flat object to be advanced therebetween to the fold line of the ticket, cutting means normally held stationary between the foremost ticket and a subsequent ticket of a group as the flat object is so advanced, to sever the connection between the foremost ticket and the next adjacent ticket upon continued advancement of the flat object in the direction of the ticket fold line, and means for normally retracting the cutting means after removal of the flat object and the severed ticket, to permit replacement of said ticket by a subsequent ticket of the group.

2,422,544
N-(2-HYDROXY-ETHYL)-ETHYLENEDIAMINE DISALT OF 2.6-DINITRO-4-CYCLOHEXYL-PHENOL

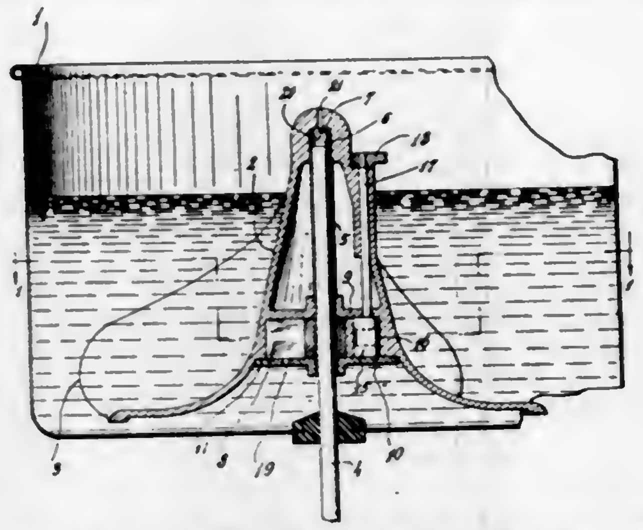
John N. Hansen, Albert Lea, Minn., and Frank B. Smith, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application September 10, 1945, Serial No. 615,508
1 Claim. (Cl. 260—567.5)

N-(2-hydroxy-ethyl)-ethylenediamine disalt of 2.6-dinitro-4-cyclohexyl-phenol.

2,422,545
REGULATING MEANS FOR WASHING MACHINE AGITATORS

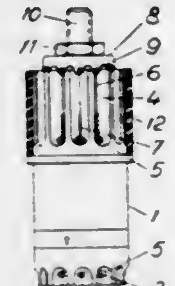
Veb Hanson, Fairfield, Conn., assignor of two-thirds to John N. Ledbetter, Jr., New York, N. Y.
Application June 26, 1944, Serial No. 542,088
2 Claims. (Cl. 68—133)

1. An agitator for a washing machine having a hollow hub with vanes thereon, a drive shaft on which the hub is mounted, a tube surrounding the shaft and secured at its upper end to the shaft, the hub having a chamber surrounding the tube near its lower end, means forming an abutment at one side of the hub in said chamber, a piston affixed to the tube in the chamber, said abutment having a passage therethrough, valve means for controlling the size of the passage, and a valve actuating member connected to said valve means and extending through the hub to a point adjacent the upper part of the agitator, the chamber having an inlet for liquid and means for venting air therefrom.



2,422,546
LEADING-THROUGH INSULATOR

Bror Hansson, Stockholm, and Ture Ljungberg, Alvsjo, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application January 23, 1945, Serial No. 574,088
In Sweden October 29, 1943
4 Claims. (Cl. 174—145)



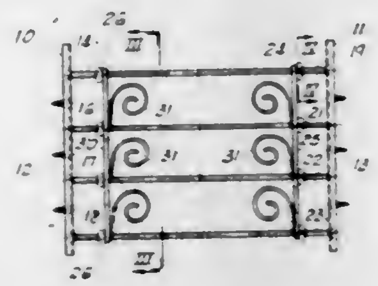
1. A leading-through insulator for electrical apparatus comprising a ceramic body, orifices in the body, leading-through leads solidly fixed at the orifices, a fusible agent binding each lead to the ceramic body, said leads being well insulated from each other on the ceramic body outside the orifices, a common connecting arrangement mounted on the insulator and to which the said leads are fixed, and axial grooves in the ceramic body, each lead being laid in one of said grooves in the upper part of the insulator between an orifice and the connecting arrangement.

2,422,547
BURGLAR BAR

Floyd L. Hawkins and William D. Phillips, Birmingham, Ala.
Application October 6, 1945, Serial No. 620,742
8 Claims. (Cl. 160—223)

1. A burglar bar assembly for a window opening comprising a plurality of pairs of overlapping

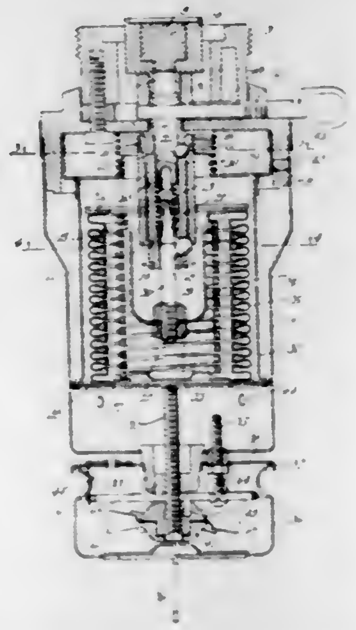
horizontal bars oppositely disposed, relatively stationary side members to which the respective remote ends of the pairs of bars are secured, means for holding the free end of each of the bars in overlapping slidable relation with its associated bar, and securing means accessible only from inside the window opening for holding the pairs of bars against relative lateral movement.



2,422,548

DETONATING MECHANISM

Hugh Charles Hebard, Northwood, England
Application March 16, 1943, Serial No. 479,366
In Great Britain October 6, 1941
11 Claims. (Cl. 102—70)



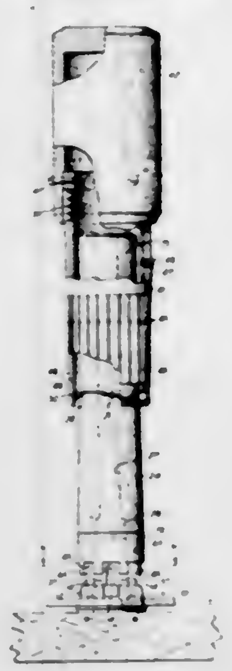
1. A detonating device for an aerial bomb, pyrotechnic device or the like, comprising a casing, a metallic bellows device responsive to changes in atmospheric pressure with altitude disposed in said casing, a striker, movably mounted tapered sleeve means normally restraining said striker from movement, wind vane actuated means for rendering said bellows device operative by flight of the bomb or the like after it has been discharged, mechanical means actuated by said bellows device under atmospheric pressure changes to release the restraining means from said striker, and a spring for operating said striker after its release.

2,422,549

ASSEMBLING TOOL

Philip E. Hogin, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 8, 1944, Serial No. 517,571
5 Claims. (Cl. 29—235)

1. A tool for assembling a split resilient cylindrical corrugated retaining ring, with flutes whose rise and fall are parallel with the axis of the ring, in a groove of an article comprising a mandrel adapted to receive the retaining ring on one end thereof and direct it to the said groove, means movable relative to the mandrel for moving the retaining ring longitudinally of the mandrel to a position adjacent the said groove and compress the retaining ring to partially flatten the flutes thereof, whereby the ring may be subsequently disposed in the groove, and means to apply pressure laterally to the compressed retaining ring to force it into the said groove.

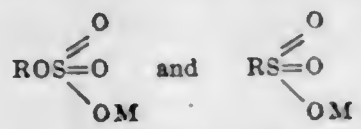


2,422,550

POLYMERIZATION OF VINYL COMPOUNDS WITH RUBBER

Ralph A. Jacobson, Landenburg, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 20, 1942, Serial No. 462,751
18 Claims. (Cl. 260—4)

1. A process for the copolymerization of a natural rubber with a polymerizable, monoethylenically-unsaturated compound which comprises polymerizing at temperatures ranging from 0° C. to 100° C. the polymerizable components of an aqueous emulsion of a natural rubber admixed with from 70–95% by weight, based on the weight of the rubber and polymerizable monomer present, of a polymerizable, monoethylenically-unsaturated compound containing a terminal methylene group attached by an ethylenic double bond to a carbon atom which, in turn, is attached to a negative group selected from the class consisting of aryl, halogen, acyloxy, carboalkoxy, acyl, and cyano, said aqueous medium having a ratio of aqueous to non-aqueous phase of from 10:1 to 1:1 and containing from .1% to 10%, based on the weight of the monomer present, of a dissolved salt of perdisulfuric acid and from .2% to 5%, based on the weight of the aqueous medium, of a dispersing agent selected from the group consisting of



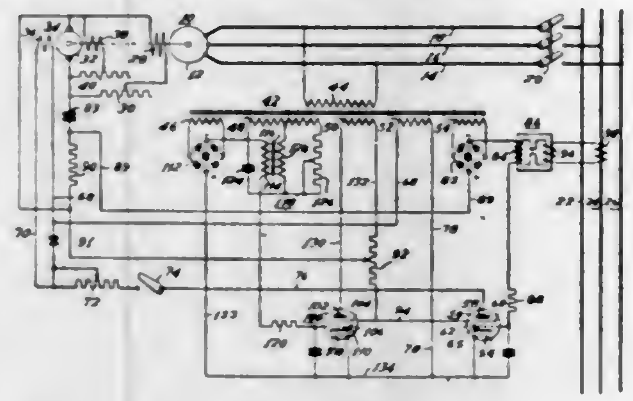
$$\mathrm{RO}\overset{\displaystyle O}{\overset{\|}{S}}(=O)\mathrm{OM} \quad \text{and} \quad \mathrm{R}\overset{\displaystyle O}{\overset{\|}{S}}(=O)\mathrm{OM}$$

wherein R is an acyclic hydrocarbon of 12 to 18 carbon atoms and M is an alkali metal.

2,422,551

REGULATING SYSTEM

Harold C. Jenks, Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1944, Serial No. 554,909
5 Claims. (Cl. 172—246)

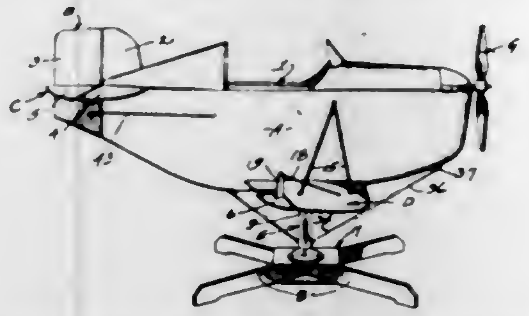


1. In a system for regulating the power factor of a synchronous motor connected to a load system, in combination, a dynamo-electric machine connected to control the excitation of the synchronous motor, the dynamo-electric machine having opposed field windings, one of the field windings being disposed to be energized to control operation of the dynamo-electric machine to increase the excitation of the motor, the other of the field windings functioning when energized to effect a decrease in the excitation of the motor, means including an electric valve disposed to connect the other field winding to a source of power, the electric valve having a grid to be utilized for controlling the conductivity thereof, means for applying a negative bias to the grid, means for rendering the grid positive in response to the phase angle of the system to control the energization of the other field winding, the positive biasing means including an impulse transformer connected to be responsive to the flow of current in the load system, and means responsive to a predetermined phase angle disposed to cooperate in the grid circuit of the electric valve to maintain the valve non-conducting under predetermined power factor conditions.

2,422,552

PREFLIGHT PILOT TRAINING AIRCRAFT APPARATUS

Volmer S. Jensen, Glendale, Calif., assignor to California Aero Glider Co., Inc., a corporation of California
Application August 16, 1943, Serial No. 498,757
6 Claims. (Cl. 35—12)

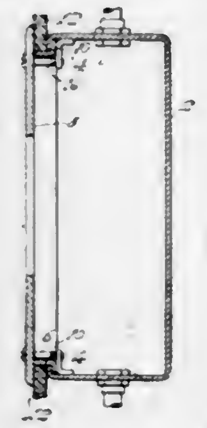


5. A pre-flight airplane pilot training apparatus comprising: a stationary standard, a fuselage supported thereon at a single point for rolling, pitching and yawing motion of the fuselage, said standard extending into said fuselage, means within and attached to the fuselage for supporting the fuselage on the standard, a motor mounted in the nose of the fuselage, a propeller drivingly connected with the motor, a rudder on the tail of the fuselage, and pilot operated members operably connecting and for correspondingly adjusting the angles of the propeller and rudder simultaneously for changing the yaw of the fuselage on the standard.

2,422,553

SWITCH BOX MOUNTING

Ernest G. Johansson, Belmont, Mass., and Arthur A. Young, Manchester, N. H., assignors to Anchor Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Original application December 5, 1941, Serial No. 421,786. Divided and this application August 19, 1944, Serial No. 550,154
2 Claims. (Cl. 220—3.6)

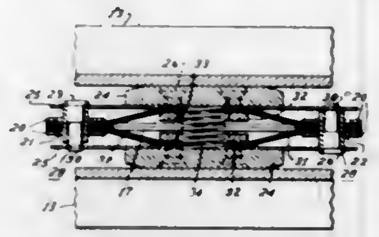


1. In an electrical installation device suitable for flush or projection mounting, a receptacle having a rectangular opening in the front thereof with its edges turned inwardly thereabout to form a flat perimetral surface for projection mounting, a plurality of angle members designed to fit about said opening with a first side fitted against the inner side of said edges and the second side projecting outwardly therefrom to present a perimetral edge surface for flush mounting, at least some of said angle members including means for releasably clamping them in assembled position, a cover having dimensions exceeding those of the opening in said receptacle for closing said opening irrespective of whether said angle members are assembled thereon.

2,422,554

CURRENT COLLECTOR

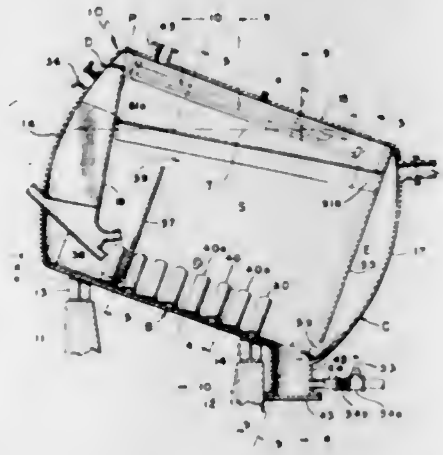
Maurice F. Jones, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 14, 1943, Serial No. 506,199
8 Claims. (Cl. 191—49)



1. A current collector comprising, a pair of spaced current collector shoes for engaging the adjacent surfaces of a pair of spaced conductors, means biasing the shoes apart, a pair of drag plates secured one to each shoe, means operatively connecting the drag plates adjacent the ends, and a support having portions thereof positioned between the drag plates with openings for loosely receiving the connecting means.

2,422,555
DRUM-SHAPED OIL SEPARATOR DIVIDED BY PARTITIONS INTO INLET, INTERMEDIATE, AND OUTLET SECTIONS

Charles B. Karlson, Westport, Conn., Spence G. Benham, Brooklyn, N. Y., and William A. Gehle, Arlington, N. J.; said Karlson and said Benham assignors to said Gehle
Application April 20, 1945, Serial No. 589,376
6 Claims. (Cl. 210—56)



1. A drum shaped oil separator unit comprising a feed inlet end section, a discharge end section for separated water, and a cylindrical section intermediate said end sections to form a chamber for the separation therein of oil from water and having oil outlet means for the separated oil, said inlet section representing an assembly unit comprising an end wall, a feed box at the inside of said wall and unitary therewith, feed inlet means at the upper end of said feed box and feet outlet means at the lower end of said feed box leading into said chamber, said discharge section representing an assembly unit comprising an end wall portion, a transverse wall portion unitary with said end wall portion to form therewith a discharge chamber for the separated water, said discharge chamber having an inflow passage at the lower end thereof and outlet means provided on said end wall portion for separated water.

2,422,556
SOLVENT FOR DEGREASING IRON AND ALUMINUM

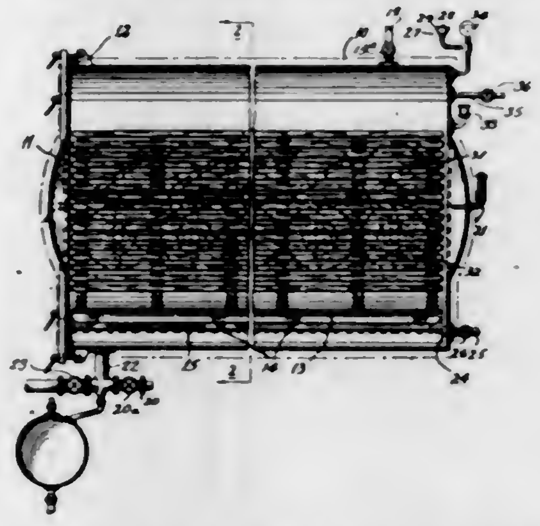
Walter Klabunde, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1945, Serial No. 612,551
1 Claim. (Cl. 252—171)

A solvent adapted for degreasing iron and aluminum comprising trichlorethylene containing, as a stabilizer against condensation reactions of trichlorethylene catalyzed by the aforesaid metals, 0.02 to 1% by weight of vinyl cyanide.

2,422,557
PROCESS FOR SEASONING TIMBER

Adolf Martin Kobiolke, Gilderoy, Victoria, Australia
Application October 16, 1943, Serial No. 506,549
In Australia November 27, 1942
7 Claims. (Cl. 34—9.5)

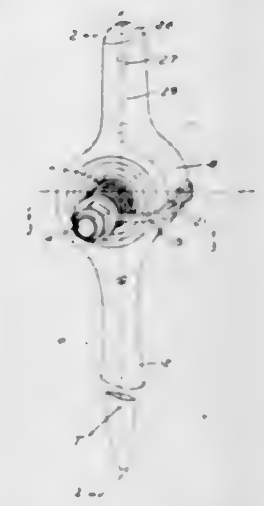
1. A process for seasoning timber stacked in open arrangement in a closed chamber, comprising the steps of creating a vacuum in the chamber and passing heated fluid through tubular elements in the chamber to heat to a predetermined degree the interior of said chamber, maintaining the vacuum and admitting sufficient water to the chamber to submerge the timber, increasing the vacuum and the temperature to boil the water turbulently for a predetermined period, breaking down the vacuum in the chamber and admitting air or gas thereto until atmospheric pressure is reached to cause the water to penetrate the cells of the timber, re-heating the water and restoring the vacuum to again boil the water turbulently until the tannic salts in said cells are diluted breaking down the vacuum in the chamber, discharging the water therefrom and restoring the vacuum in said chamber to cause turbulent boiling of the liquid in said cells, passing cooling fluid through the tubular elements to cool the interior of the chamber, breaking down the vacuum in said chamber and discharging liquid therefrom, and circulating the vapors evolved by the timber to pass over and between the lengths of the same, introducing live steam into the chamber to raise the temperature of the timber to a predetermined degree, shutting off the live steam, passing cooling fluid through said tubular elements, restoring the vacuum in the chamber and circulating vapor to pass over and between the lengths of timber, again heating the timber to a predetermined degree by passing heated fluid through the tubular elements, increasing vacuum until the liquid in said cells boils violently, circulating the resulting vapors over and between the lengths of timber, breaking down the vacuum in the chamber and passing and circulating a preheated gaseous medium through the chamber to dry the timber, reducing the pressure in the chamber, and cooling said chamber by passing cooling fluid through said tubular elements.



2,422,558
ADJUSTABLE PITCH PROPELLER

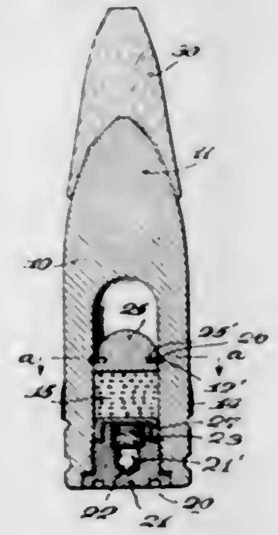
Walter H. Korff, Burbank, Calif.
Application September 15, 1941, Serial No. 410,920
9 Claims. (Cl. 170—162)

1. In a propeller having a hub and blade adapted to be driven by a propeller shaft, an automatic pitch changing mechanism comprising an inner sleeve member coaxial and rotatable with said propeller shaft, a blade adjustment means mounted in said hub comprising an outer sleeve member pivoted to said inner sleeve member, said outer sleeve member being pivotally connected to said hub, stop means to limit the movement of said inner sleeve member, a support member carried by and rotatable with said propeller shaft, said support member having pivot means connecting said support member with said blade to permit said blade to rotate about said pivot means, and resilient means to control longitudinal motion of said sleeve with respect to said shaft whereby the blade pitch varies in respect to the thrust forces on said blade.



2,422,559
PROJECTILE

Harry J. Nichols, New York, N. Y.
Application May 7, 1943, Serial No. 486,055
9 Claims. (Cl. 102—52)

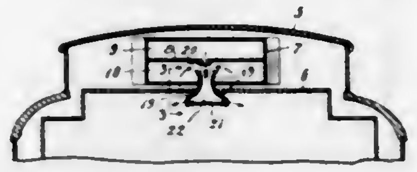


1. An armor piercing projectile having an integral hollow body made of hard metal, such as alloy steel, comprising a massive hardened head and a hollow cylindrical portion having an axial main cavity of substantially uniform diameter, a piston member mounted for forward movement therein and dividing said cavity into two substantially equal chambers, an expellable plug fitted in the base end of said body and closing said cavity, a charge of detonating explosive positioned intermediate said piston member and said plug, and means in said plug for detonating said explosive charge on impact of said projectile with a highly resistant target.

2,422,560
COLD AIR AND RECIRCULATED AIR MIXING AND DISTRIBUTING MEANS IN AN OVERHEAD AIR CONDITIONING DUCT SYSTEM

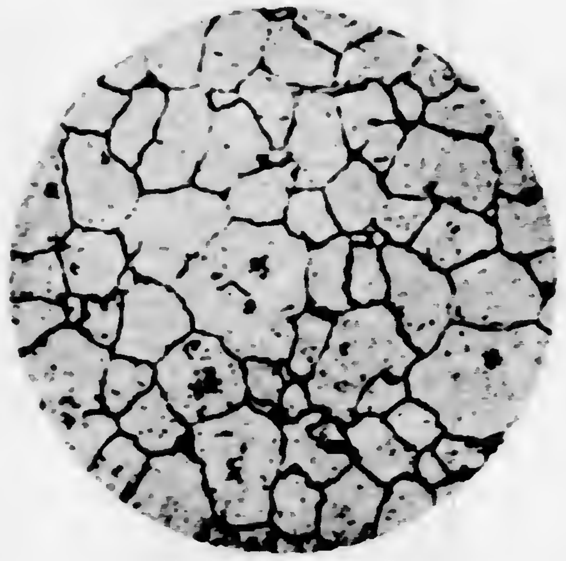
Robert T. Palmer, Sharon, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application August 19, 1944, Serial No. 550,140
2 Claims. (Cl. 98—10)

1. An air conditioning system comprising means forming two aligned air passages overhead the space to be served with conditioned air, means for supplying chilled air under pressure, into one of said passages at one end thereof, means including a fan for supplying air recirculated from said space, under pressure, into the other of said passages at the opposite end thereof, means for supplying air from one of said passages into the other of said passages, and means for supplying air from said last mentioned passage into said space.



2,422,561
SAW BLADE

Harry A. Pavitt, Fitchburg, Mass., assignor to Simonds Saw and Steel Co., Fitchburg, Mass., a corporation of Massachusetts
Original application July 26, 1940, Serial No. 347,666. Divided and this application May 8, 1943, Serial No. 486,476
3 Claims. (Cl. 143—133)



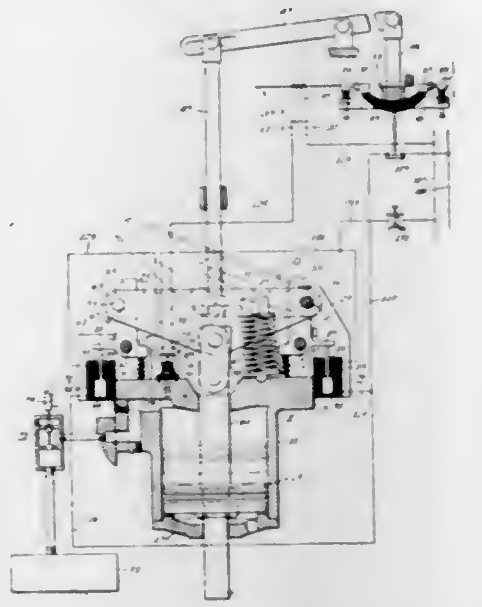
2. A saw blade formed of "high speed tool steel" and having teeth which are uniformly hard throughout all portions thereof, free from grain coarsening such as occurs when such steel is held above the critical temperature for a substantial length of time, and substantially free from undissolved carbides; and a less hard portion of the blade joined to the teeth.

2,422,562
CIRCUIT BREAKER

Henry L. Peek, Edgewood, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 15, 1942, Serial No. 443,040
6 Claims. (Cl. 200—82)

1. In combination, a circuit breaker, closing means for closing said breaker, trip-free tripping means for effecting opening of said breaker irrespective of the energized condition of said closing means, non-trip-free tripping means for effecting opening of said breaker only when said closing means is deenergized, means for operating said tripping means, and a device effective whenever the breaker is in closed position to prevent opera-

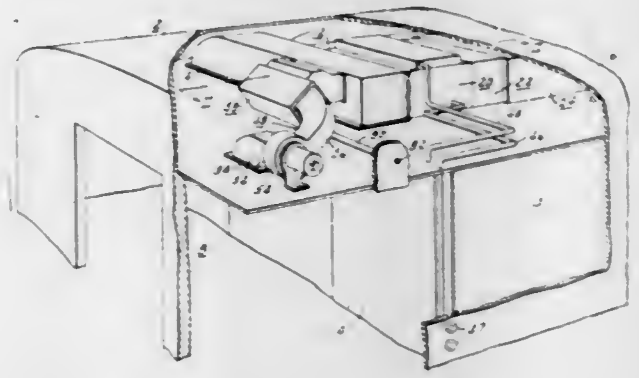
tion of said trip-free tripping means, said device being mechanically operated by the breaker upon



closing movement of said breaker to permit operation of said trip-free tripping means.

2,422,563
VEHICLE AIR CONDITIONING

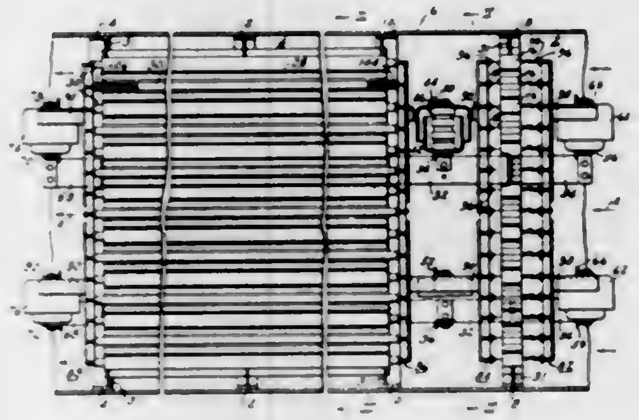
Edward H. R. Pegg, Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 6, 1945, Serial No. 603,511
7 Claims. (Cl. 183—7)



1. An air-conditioning system applied to a railroad car having a passenger compartment, said system comprising, in combination, an air-conditioning duct inside the car having blower means and an intake and an outlet opening exposed in said passenger compartment, said air-conditioning duct including an upstream mixing chamber followed by a downstream electrostatic dust-precipitator and a blower, said electrostatic dust-precipitator comprising a dust-charging means and a dust-precipitating means including a plurality of relatively closely spaced upstanding plates, branch conduit means inside the car for supplying outside atmospheric air to said mixing chamber, said outside air constituting a minor part of the air flowing in the duct, said branch conduit means comprising an intake passage in a wall of said railroad car for outside atmospheric air, an upstream blower, a mechanical air-cleaner having a plurality of sets of upstanding concentric tubes for centrifugally cleaning the air flowing in said branch conduit system, each set comprising an inner tube and an outer tube, with the ends of the inner tube above those of the outer tube, an air-delivering duct extending from the top of said inner tube to said mixing chamber, a chamber receiving the lower ends of said outer tubes, and a scavenging pipe extending from the last said chamber to an opening in a side wall of the railroad car whereby the mechanically removed dirt is continually discharged into the surrounding atmosphere.

2,422,564
ELECTRICAL DUST-PRECIPITATOR

Edward H. R. Pegg, Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 9, 1945, Serial No. 603,930
4 Claims. (Cl. 183—7)

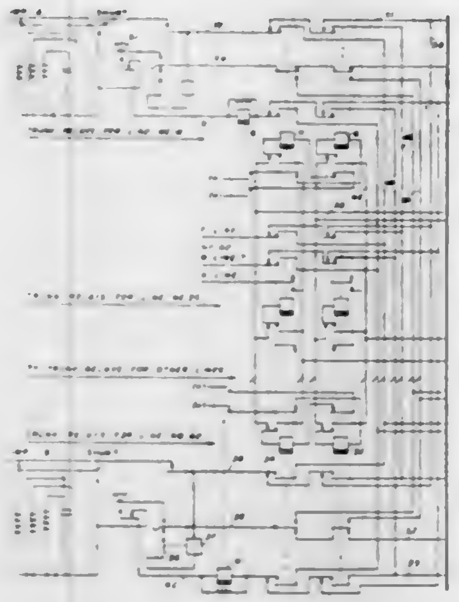


1. Electrostatic equipment of a type described adapted to treat a gas flowing longitudinally, comprising a hollow cylindrical gas-duct, electrode-means comprising a first group and a second group of substantially coextensive juxtaposed hexagonal tubes, the tubes of each group being secured together inside said cylindrical gas-duct, sealing means for closing the space between each of said groups of tubes and said cylindrical gas-duct, said sealing means being secured to each of said groups of tubes and to said cylindrical gas-duct, a plurality of bar members carried by said cylindrical gas-duct, and extending transversely across it at the ends of said tubes, a plurality of insulators carried by said bar members, the insulators between said groups of tubes having longitudinal bars secured thereto, transverse grating means carried by the insulators at the far ends of said tubes, transverse grating means carried at each end of said longitudinal bars, and electrodes carried by said grating means axially passing through said tubes, in insulated spaced relation thereto.

2,422,565
INTERCOMMUNICATING TELEPHONE SYSTEM

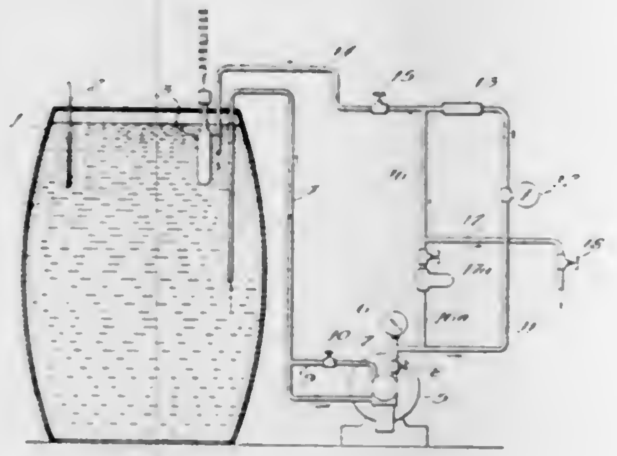
Winfred T. Powell, Rochester, N. Y., assignor to Stromberg-Carlson Company, Rochester, N. Y., a corporation of New York
Application August 24, 1944, Serial No. 551,004
10 Claims. (Cl. 179—17)

1. In a telephone system, a plurality of telephone lines having their talking-conductors permanently connected together in common, an impulse sending device provided on each telephone line, a series of sequentially operated relays common to said lines and operated in various combinations responsive to the number of impulses transmitted by a given sending device, a ringing circuit completed to a wanted telephone line, said ringing circuit being completed for a period determined by said last-mentioned sending device together with certain of said relays.



2,422,566
HYDROCARBON FUELS

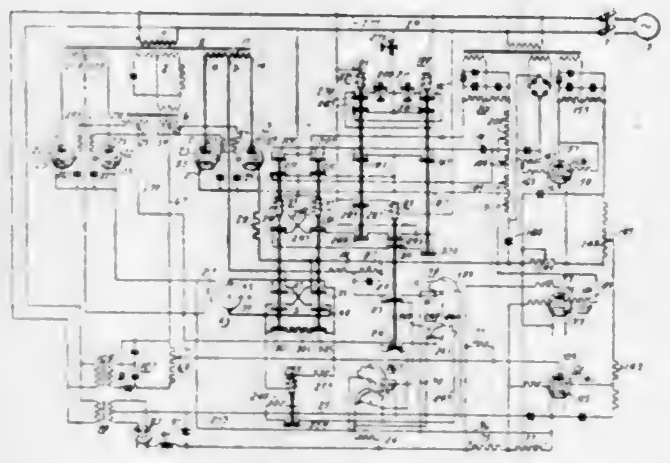
Wayne A. Proell, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application March 27, 1944, Serial No. 528,234
12 Claims. (Cl. 44—66)



1. A substantially non-clogging fuel oil composition comprising a normally liquid hydrocarbon fuel normally susceptible to cause clogging containing in combination therewith from about 0.001% to about 0.1% of an oil-soluble polyvalent metal soap and from about 0.005% to about 0.05% of a condensation product selected from the class consisting of (1) the reaction product of a polyalkylene compound having at least 3 amino nitrogen atoms, at least two of which are primary nitrogen atoms, with a carbonyl compound selected from the group consisting of aromatic aldehydes, aromatic ketones, aliphatic aldehydes, aliphatic ketones, alicyclic aldehydes, alicyclic ketones, heterocyclic aldehydes, and heterocyclic ketones, and (2) the reaction product of an hydroxylamine and a phenolic compound selected from the group consisting of ortho hydroxy aromatic aldehydes and ortho hydroxy aromatic ketones.

2,422,567
ELECTRONIC CONTROL FOR MOTORS

Konstanty P. Puchlowski, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 24, 1943, Serial No. 495,993
22 Claims. (Cl. 172—239)



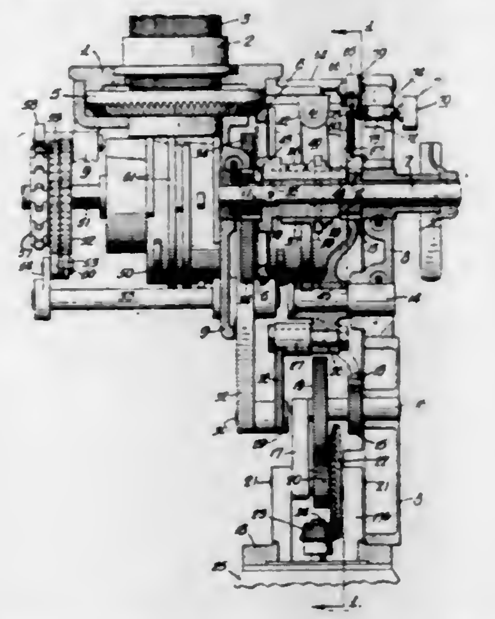
1. A control system for a direct-current motor having an armature, comprising means adapted to function as a source of alternating potential connected to said armature, an electric discharge valve of the arc-like type interposed in circuit between said source and armature, control means for said valve to render it conductive in a positive half-period of said source potential when a potential more positive than a predetermined critical value is impressed on said control means, means for impressing on said control means an alternating potential of the same frequency but displaced in phase relative to said source, and means for also impressing on said control means a control potential of a selected magnitude corresponding to a desired motor speed, said last-named means including means for producing an auxiliary potential which varies in accordance with variations in both the current through said armature and the voltage across said armature and means for amplifying said auxiliary potential to produce said control potential with the variations in said auxiliary potential causing the speed of said motor to be maintained substantially constant regardless of variations in the load of said motor.

2,422,568
ELECTRONICALLY CONTROLLED KNITTING MACHINE

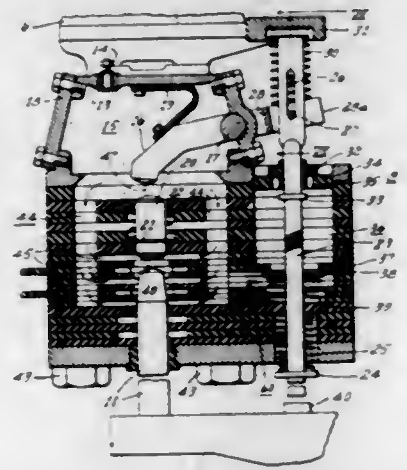
Walter Larkin, Norristown, Pa., assignor, by mesne assignments, to Fidelity Machine Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application October 3, 1945, Serial No. 620,114
12 Claims. (Cl. 66—56)

1. A circular knitting machine comprising an individual electric driving motor, pattern mechanism for governing predetermined operations of said machine, an electronic speed control circuit for and including said motor, a variable control unit for said circuit, and means coordinated with said pattern mechanism for operat-

ing said variable control unit for varying the speed of said motor in accordance with changes in the operations of said machine as prescribed by said pattern mechanism.



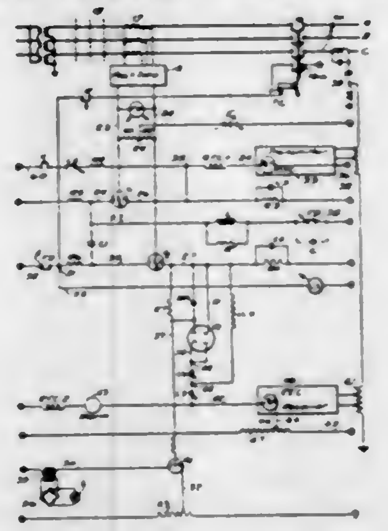
2,422,569
CIRCUIT INTERRUPTER
Winthrop M. Leeds, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 28, 1943, Serial No. 488,847
20 Claims. (Cl. 200—150)



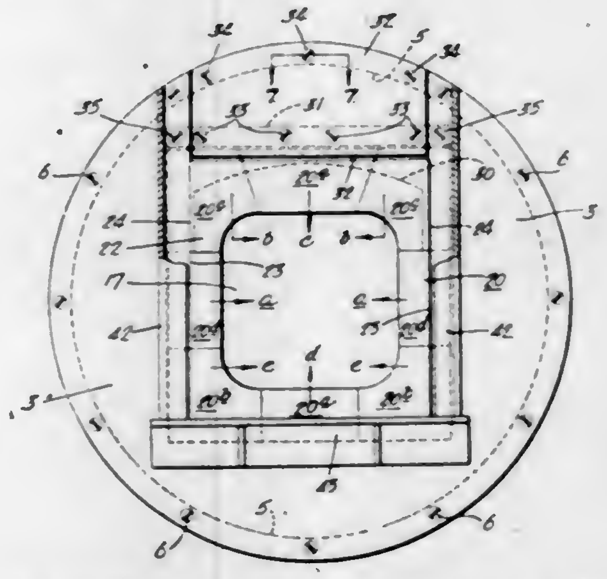
1. In a circuit interrupter, means for establishing and lengthening a pressure generating arc, means for establishing an interrupting arc, the pressure generating arc forcing fluid under pressure toward the interrupting arc to facilitate the latter's extinction, a piston chamber, and valve means disposed at the entrance to the piston chamber and responsive to a predetermined pressure created in part by the pressure generating arc to prevent the first-mentioned means from lengthening the pressure generating arc.

2,422,570
CARRIER CURRENT PROTECTIVE SYSTEM
Herbert W. Lensner, East Orange, and James F. Chapman, Madison, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 9, 1945, Serial No. 581,874
5 Claims. (Cl. 175—294)

1. Terminal equipment for a pilot-channel phase-angle-detecting relaying-system adapted to protect an alternating-current transmission-line against faults, comprising fault-detector means having make-contacts and back-contacts, said fault-detector means being responsive to line-conditions at said terminal, means operative to develop a single-phase control-voltage having a phase which is responsive to the line-current at said terminal, pilot-channel means operative to transmit a succession of restraining impulses and to make them effective at another line-terminal or terminals in response to positive half-cycles of said control-voltage, local control-means operative to develop a succession of operating impulses in response to negative half-cycles of said control-voltage, means for making said pilot-channel means ineffectual in response to a closed position of back-contacts of said fault-detector means, means for making said local control-means ineffectual in response to an open position of make-contacts of said fault-detector means, and phase-angle-detecting relay-means operative to respond to said operating impulses when they are not effectively opposed by restraining impulses received from a distant line-terminal.



2,422,571
FURNACE WALL CONSTRUCTION
Sylvan N. Levy and William B. Levy, Wilmington, Del.
Application December 22, 1942, Serial No. 469,838
5 Claims. (Cl. 110—181)



1. A furnace comprising a substantially vertical front wall provided with a through passage affording access to the interior of said furnace, a face plate of predetermined thickness on the exterior of said wall and provided with an opening of greater width than said passage with the inner edges of said opening extending horizontally beneath said passage and vertically at opposite

sides respectively thereof a substantial distance above the passage to the top edge of said face plate, a separate plate section of substantially the same thickness as said face plate and of normally lesser width than said opening located in said opening above said passage in the plane of said face plate, securing screws of greater overall length than the thickness of said plate section passing through said plate section to secure said plate section in said position within said opening, said screws including counter-sunk heads seated in counter-sunk openings formed in said plate section and threaded shanks of predetermined diameter passing through plain bores of relatively larger diameter formed in said plate section in axial alignment respectively with said counter-sunk openings, and means having threaded bores embedded in said wall to receive the threaded shanks of said screws to secure said plate section in position.

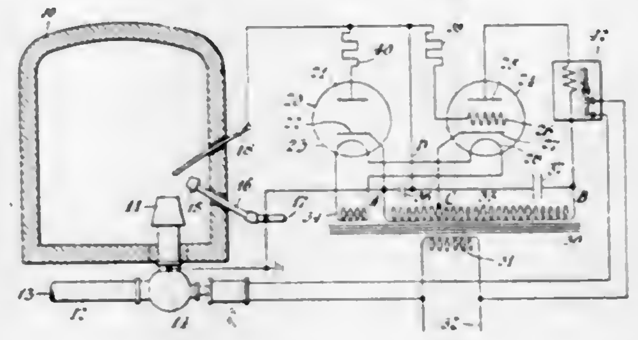
2,422,572
DRESSING FIBROUS AND TEXTILE MATERIALS
Leon Lilienfeld, deceased, late of Vienna, Germany, by Antonie Lilienfeld, administratrix, Winchester, Mass., assignor to Lilienfeld Patents, Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application December 22, 1942, Serial No. 469,839. In Great Britain September 7, 1937
39 Claims. (Cl. 117—166)

1. A process of finishing a textile material which comprises applying thereto a dispersion in an aqueous caustic alkali solution, of a degraded cellulose derivative which is at least partially soluble in such caustic alkali solution, but insoluble in water, and in aqueous alcohol, and which degraded cellulose derivative has a solution viscosity less than one-tenth of that of the corresponding substantially undegraded film-forming cellulose derivative having the same ratio of the same substituent radical, under like conditions, and coagulating said degraded cellulose derivative on said textile material in the form of discrete particles, the cellulose derivative being one selected from the group consisting of cellulose ethers, cellulose esters, cellulose ether-esters and cellulose thiourethanes, said degraded cellulose derivative being so far degraded as to be incapable of forming a coherent film which does not disintegrate when a thin layer of the alkaline solution thereof is subjected to the series of steps, coagulating, washing and drying.

2,422,573
XANTHATED CELLULOSE DERIVATIVE AND PROCESS OF COATING WITH SAME
Leon Lilienfeld, deceased, late of Vienna, Germany, by Antonie Lilienfeld, administratrix, Winchester, Mass., assignor to Lilienfeld Patents, Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application December 22, 1942, Serial No. 469,841. In Great Britain September 7, 1937
19 Claims. (Cl. 117—166)

1. A process of treating a textile material which comprises mixing with a caustic alkali solution, a xanthate of a degraded cellulose ether, which ether in the unxanthated state is insoluble in water but which at least is partially soluble in dilute caustic alkali solution, and which degraded cellulose ether is of substantially the same degree of degradation as the herein described product obtained by mixing a cellulose ether of a low degree of etherification with 20 to 30 times its weight of hydrochloric acid solution of 0.5% strength and heating the mixture to 50° to 100° C., for between half an hour and four hours, dressing the textile material with a fluent composition containing the xanthated product, and thereafter treating the so dressed textile material with a coagulating agent.

2,422,574
CONDUCTANCE-RESPONSIVE ELECTRON TUBE SYSTEM
Fred B. MacLaren, Jr., United States Army, and Francis H. Shepard, Jr., Madison, N. J., assignors to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application August 5, 1942, Serial No. 453,670
6 Claims. (Cl. 250—27)

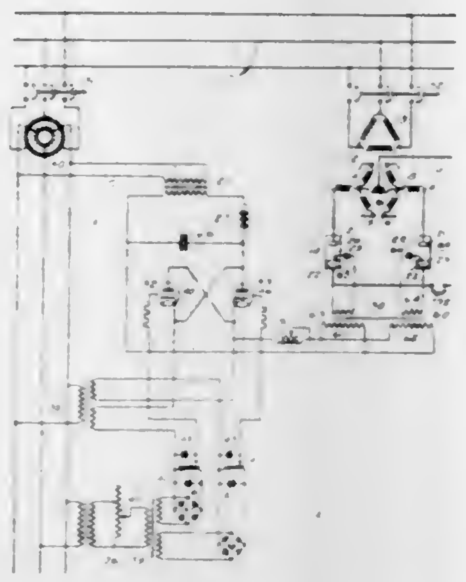


1. A conductance-responsive system comprising an electron discharge device responsive to ionization currents in a given path, said device having a cathode, an anode, and a control electrode, and means for affecting said control electrode to modify the flow of electrons between said cathode and anode in one sense when the ionic conductance of said path is within a given range and in another sense when said conductance is above or below said range, said means comprising a diode, means for supplying an alternating potential to the anode and cathode of said diode, a capacitor connected to said anode and to said means for supplying alternating potential, and means for connecting the anode and cathode of said diode with said path whereby said diode is placed in parallel with said path.

2,422,575
VAPOR ELECTRIC DEVICE
Francis E. Marsh and Louis A. Casanova, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 14, 1944, Serial No. 518,236
20 Claims. (Cl. 315—141)

1. In combination, an alternating current circuit, a load circuit, electric translating apparatus connected between said circuits and comprising a pair of electric valve means each having an anode, a cathode, and a make-alive electrode for forming a cathode spot, a source of alternating current, a capacitor, means for connecting said capacitor with said source to establish a charging circuit therefor, a pair of circuits each including the make-alive circuit of one of said electric valve means, each of said circuits also including means for rendering said circuits selectively responsive to impulses of voltage of opposite polarity, a pair

of inversely connected electric valves, control means for said inversely connected valves, means connecting said inversely connected valves across said capacitance to establish a discharge circuit therefor, said inversely connected valves being operable during a predetermined portion of each half cycle of voltage of said source to transmit impulses of current from said capacitor to the pair of circuits including the make-alive electrodes of said electric valve means selectively during half cycles of voltage of opposite polarity of said source.



2,422,576

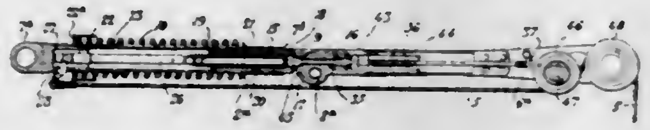
MECHANISM FOR RETRACTING AND AUTOMATICALLY LOCKING UNDERCARRIAGES OF AIRCRAFT

James Martin, Higher Denham, near Uxbridge, England

Application June 25, 1943, Serial No. 492,286

In Great Britain July 15, 1942

1 Claim. (Cl. 244—102)



In an aircraft retractable undercarriage, the combination of, a leg having a wheel rotatably mounted on one end and having the other end adapted to be pivotally mounted on an aircraft, a straight foldable strut having one end attached to said leg and the other end adapted to be attached to the aircraft, said strut comprising two arms connected by means of a joint, spring-actuated means mounted on said strut for forcing the arms of said strut into co-axial alignment a spring loaded pin slidably mounted in one of said arms and positioned to be projected by said spring across said joint, a recess in said other arm positioned to receive said pin to lock said joint when said arms are in coaxial alignment, the other end of said plunger being connected to a lever and the opposite end of said lever being connected to a cable arranged and positioned to fold said strut, whereby when tension is applied to said cable, said pin will be withdrawn and the joint unlocked just prior to the folding of said strut.

2,422,577

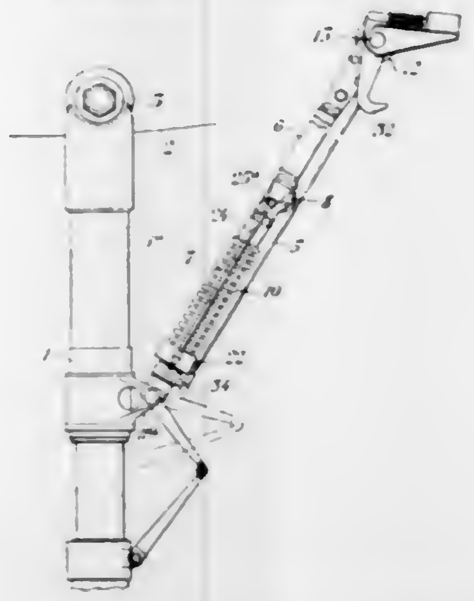
RETRACTABLE UNDERCARRIAGE FOR AIRCRAFT

James Martin, Higher Denham, near Uxbridge, England

Application June 25, 1943, Serial No. 492,287

In Great Britain July 15, 1942

4 Claims. (Cl. 244—102)



2. In an aircraft retractable undercarriage, the combination of, a leg having a wheel rotatably mounted on one end and having the other end adapted to be pivotally mounted on an aircraft, a straight foldable strut having one end attached to said leg and the other end attached to the aircraft, said strut comprising two arms connected by means of a joint the pivotal axis of which is offset from the longitudinal axis of said strut, a coiled compression spring surrounding one of said arms, said other arm having a forked end the prongs of which extend beyond said joint, a sliding abutment on one end of said spring, a pair of tie rods positioned parallel to said arm and pivoted at one end to said sliding abutment, and pivoted at the other end to the prongs of said other arm at point between said joint and said abutment whereby said spring urges said arms into co-axial alignment, and remote controlled means for folding said strut.

2,422,578

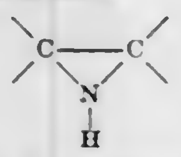
REACTION PRODUCT OF ALKYLENEIMINE WITH AMMONIUM DITHIOCARBAMATE

Roger A. Mathes, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 9, 1943, Serial No. 490,219

5 Claims. (Cl. 260—239)

1. The chemical products obtained by reacting from 1 to 8 molecular proportions of an alkyleneimine having the structure



with one molecular proportion of ammonium dithiocarbamate at a temperature below about 50° C. in the presence of a liquid diluent inert to the reactants with the liberation of substantially one molecular proportion of ammonia, the said products being stable at room temperature and at temperatures as high as 80 to 120° C., and being active as accelerators for the vulcanization of rubber.

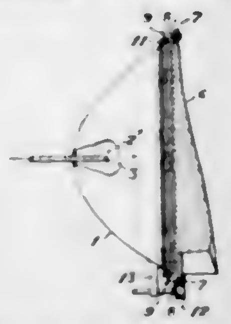
2,422,579

REFLECTOR FOR ELECTROMAGNETIC RADIATION

Cyril E. McClellan, Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 26, 1942, Serial No. 456,211

4 Claims. (Cl. 250—11)



1. In combination with a reflector having the form of a paraboloid of revolution, a source of radiant energy positioned substantially at the focal point of said reflector, and an element of dielectric material positioned to intercept the path of all radiation emitted by said source and incident upon said reflector, the thickness of said dielectric along the path traversed by radiation having the value

$$\frac{K}{n-1}(1+\sin A \cos B)$$

where n is the dielectric constant of the dielectric, K is a constant, A is the angle made by the radiant path with the reflector axis, and B is the angle made by the radiant path relative to a plane passing through the axis of the reflector.

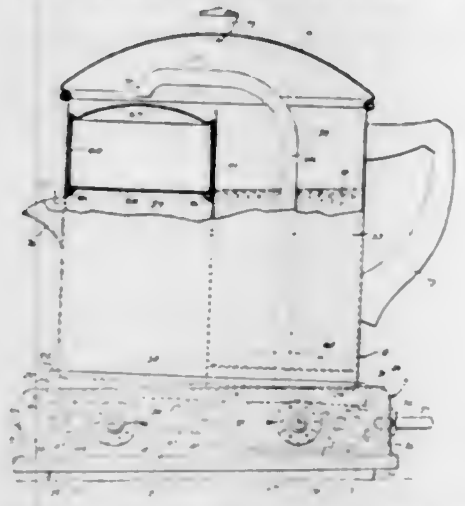
2,422,580

ELECTRICAL APPLIANCE FOR MAKING COFFEE

Julian C. Meier, Detroit, Mich.

Application June 15, 1945, Serial No. 599,724

8 Claims. (Cl. 219—43)



2. An apparatus for making coffee, comprising a base, a rockable platform mounted on said base, a high temperature electric heating element mounted on one side of the rock axis of the platform, a low temperature electric heating element mounted on the other side of the rock axis of said platform, a source of electric energy, switch means controlled by the rocking movement of said platform for alternately connecting said source of electric energy to said high and low temperature electric heating elements, a coffee making receptacle mounted on the rockable platform having a liquid compartment disposed above the high temperature electric heating element and a coffee compartment disposed above the low temperature electric heating element, means in said coffee-making receptacle for transferring liquid from said liquid compartment to said coffee compartment whereby said rockable platform will be tilted to de-energize the high temperature electric heating element and energize the low temperature heating element, and a rheostat in circuit with the low temperature heating element and source of electric energy to facilitate adjustment of said heating element to a predetermined temperature to maintain the contents in the coffee compartment at a preset temperature.

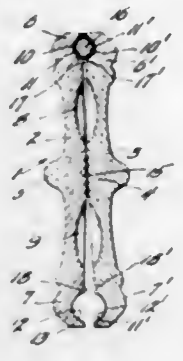
2,422,581

POLISHING INSTRUMENT FOR METAL MUSICAL STRINGS

Jules Miller, Atlantic City, N. J.

Application June 6, 1946, Serial No. 674,792

3 Claims. (Cl. 51—205)



1. In a vest-pocket size polisher for metal musical strings, comprising a body formed of two plates permanently secured to each other, like elongated pairs of jaws at the opposite ends of the polisher, said pairs of jaws having grooves extending throughout their length and the jaws normally slightly spaced from each other, the said grooves provided with an abrasive, the jaws being inherently flexible and capable of being compressed between the fingers to encase a metal string whereby the string may be polished by a movement of the polisher along said string.

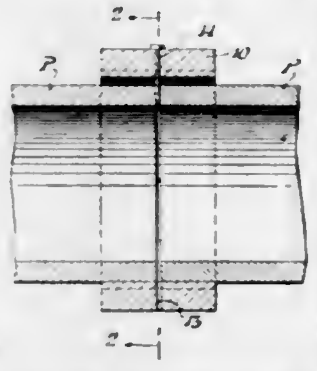
2,422,582

SPACER COLLAR AND PIPE

Edward C. Milliken, Bowerston, Ohio, assignor to The Bowerston Shale Company, Bowerston, Ohio, a corporation of Ohio

Application July 17, 1945, Serial No. 605,592

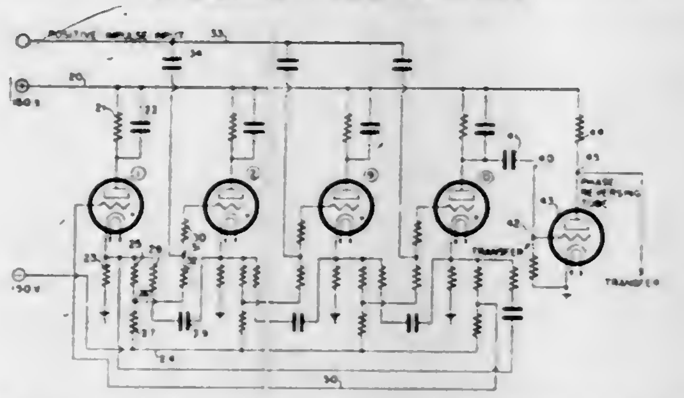
11 Claims. (Cl. 61—10)



1. A pipe combination comprising a pipe, a collar carried upon the pipe having a bore free of longitudinal obstructions to pass the end of another pipe into the end thereof, and a socket carried by the collar adapted to receive spacer means extending into the bore against which the end of the other pipe may abut to keep the ends thereof spaced from each other to permit drainage therebetween.

2,422,583
ELECTRONIC DEVICE

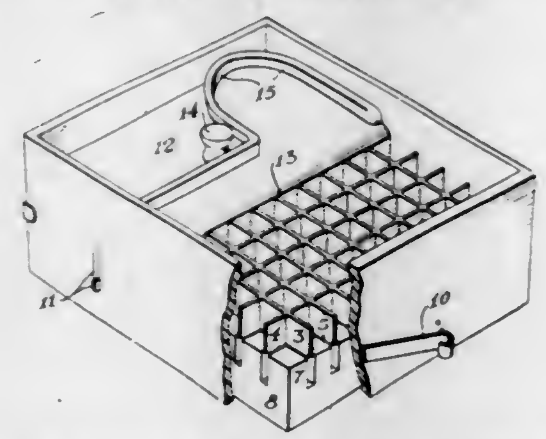
Robert E. Mumma, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application January 27, 1944, Serial No. 519,851
4 Claims. (Cl. 250—27)



4. In combination, a plurality of gaseous discharge electron tubes each having at least an anode, a cathode, and a control grid; means connecting the anode of each tube to a source of anode potential through a resistance shunted by a capacitor; a potentiometer for each cathode connected on one side to a source of negative potential and supplying each associated cathode with operating potential; means connecting the grid of a tube to a point in the cathode potentiometer of another tube of the plurality between the cathode and the source of negative potential to form an endless operating chain of tubes; means coupling the cathodes of each two adjacent tubes of the ring electrostatically; means electrostatically coupling each grid separately to a common conductor for input impulses; an output conductor; means coupling said output conductor electrostatically to the anode of one of the tubes of the ring; and a phase reversing means comprising a normally conducting grid controlled high vacuum electron tube to whose grid the output conductor is connected, the anode of said vacuum tube being connected through a resistance to a source of anode potential, and also connected with a second output conductor, so that the second output conductor receives a positive impulse when the vacuum tube is rendered non-conducting.

2,422,584
COUNTING DEVICE

Glenn Rickard, Jr., Flint, Mich.
Application April 13, 1946, Serial No. 662,051
3 Claims. (Cl. 235—1)



3. In a counting device of the class described the combination of a container; a grille dividing the container horizontally into an upper and a lower compartment; said grille formed of cells of depth greater than the height of the articles to be counted; a set of upwardly projecting article-supporting parts having upper end portions adjustable therein; and stop means adapted to adjustably support such projecting parts at predetermined heights in said cells.

2,422,585
LUBRICANT

Thomas H. Rogers, Roger W. Watson, and James W. Starrett, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application May 8, 1944, Serial No. 534,690
19 Claims. (Cl. 252—32.7)

1. An oleaginous composition comprising a major proportion of a hydrocarbon oil and in combination therewith from about 0.01% to about 5% by weight of a sulfurized terpene and from about 0.001% to about 10% by weight of the neutralized reaction product of a phosphorus sulfide and a hydrocarbon.

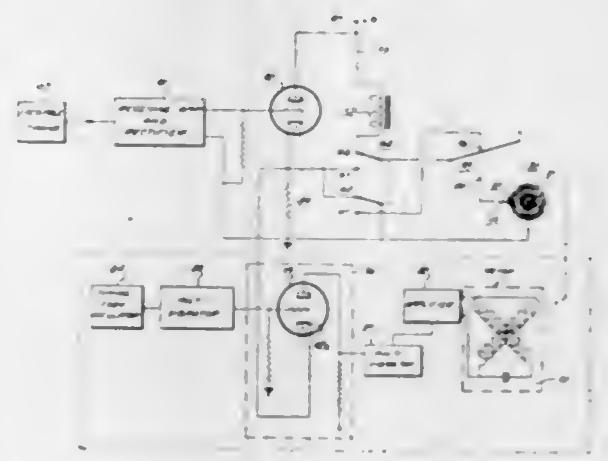
2,422,586
DYEING NITROGENOUS FIBERS WITH PREMETALLIZED DYES AND ALDEHYDES

George Lewis Royer, North Plainfield, and Chester Albert Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 29, 1944, Serial No. 556,482
10 Claims. (Cl. 8—43)

1. A method of dyeing basic nitrogeneous fibers with metallized acid monazo dyes containing an amino group and a hydroxy group ortho to the azo group which comprises effecting dyeing in the presence of an effective amount of a substance which, on contact with the dyebath, introduces therein aliphatic aldehydes having less than 6 carbon atoms.

2,422,587
FACSIMILE SCANNING AND CONTROL SYSTEM

Arthur C. Rustad, Floral Park, N. Y., assignor to Press Wireless, Inc., New York, N. Y., a corporation of Delaware
Application July 31, 1946, Serial No. 687,481
12 Claims. (Cl. 178—69.5)



12. A facsimile synchronizing and phasing system comprising a facsimile receiving drum to be phased with a distant transmitter under control of received phasing impulses, a first grid-controlled tube having a load resistor across which a D. C. voltage is developed in response to received phasing impulses, a second grid-controlled tube having its grid arranged to be biased by the voltage developed across said load resistor, a commutator rotatable with said drum, and means responsive to the coaction of the received phasing impulses and said commutator for short-circuiting said load resistor when said drum is in phase with the transmitter.

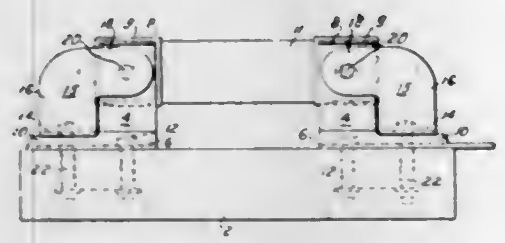
2,422,588
MANUFACTURE OF DRIED CITRUS FRUIT PASTE

Zdenka Samisch, Rehoboth, Palestine
No Drawing. Application September 9, 1944, Serial No. 553,471. In Palestine April 28, 1944
8 Claims. (Cl. 99—206)

1. A process of manufacturing leather-like sheets of dehydrated citrus fruit paste containing substantially all the ingredients of the fresh fruit except the bulk of the ethereal oils, comprising removing from fresh citrus fruit at least the major part of the flavedo, comminuting the remainder of the fruit, adjusting the acidity of the mass to a pH value of between about 2.5 and 4.5 by the addition of citrus fruit of higher acidity, boiling it under atmospheric pressure until it forms a highly viscous mass, adding thereto sugar, spreading the mass in a thin layer and drying it.

2,422,589
REINFORCED CONTACT CLIP

John W. Samzelius, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 28, 1943, Serial No. 496,412
6 Claims. (Cl. 200—134)



3. In apparatus of the type described, a support, a contact clip mounted on said support and adapted to receive electrical conducting means extending from one side thereof, reinforcing means for said clip comprising resilient reinforcing members mounted on said support at the opposite side of said clip and extending into engagement with the sides of said clip, respectively, in the region of said conducting means when the latter is received in said clip.

2,422,590
PRODUCTION OF FLUORINE

Walter C. Schumb, Milton, and Arthur J. Stevens, Holliston, Mass., assignors, by mesne assignments, to United States of America, as represented by the Director, Office of Scientific Research and Development
No Drawing. Application January 21, 1943, Serial No. 473,090
6 Claims. (Cl. 204—60)

1. An electrolyte for the production of elemental fluorine consisting of about 81.7% by weight of potassium bi-fluoride, about 14.3% by weight of hydrogen fluoride and about 4% by weight of lithium fluoride.

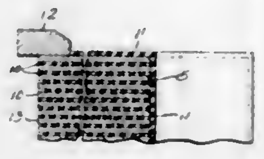
2,422,591
MAGNETIZABLE CORE

Frank J. Sigmund and William S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation, a corporation of Ohio
Application April 12, 1943, Serial No. 482,710
3 Claims. (Cl. 171—252)

1. In the dynamo-electric machine, a magnetizable core with a plurality of slots, said core having a skin coating of fluid-tight insulating material, same material covering the surface of the slots with a skin coating and forming fluid-tight insulating sleeves, said coating comprising an inner layer and an outer layer, said inner layer having a filler of high heat resistance material to improve the mechanical properties of the coating, and said outer layer comprising substantially the pure fluid-tight insulating material.

2,422,592
PREFORMED COATING FOR MAGNETIZABLE CORE

Frank J. Sigmund and William S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation, a corporation of Ohio
Application May 24, 1943, Serial No. 488,170
1 Claim. (Cl. 171—252)



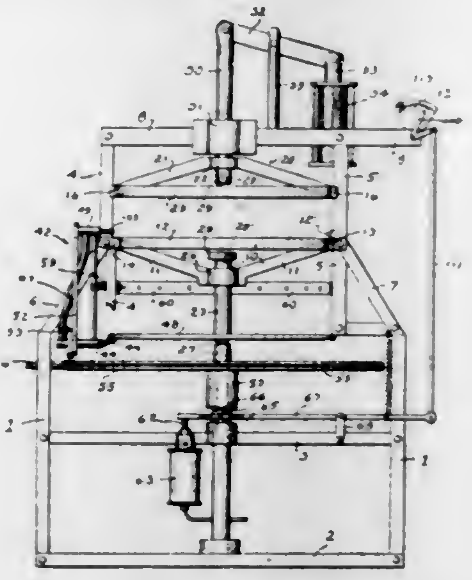
In a dynamoelectric machine having a magnetizable core of laminated sheets with a plurality of teeth and winding slots extending from one end of the core to the other, the provision of a one-piece slip-on cover for the surfaces of the ends of the core and the teeth and winding slots, said slip-on cover being stretchably resilient to permit the cover to be stretched to slip upon the core and contract to fit snugly upon the surfaces of the ends and the teeth and the winding slots of the core and provide a cover for all said surfaces, and thin pliable resilient layers between the said laminated sheets, said cover being anchored to the layers between the laminated sheets.

2,422,593
WHEEL SPOKE NUT DRIVING MACHINE

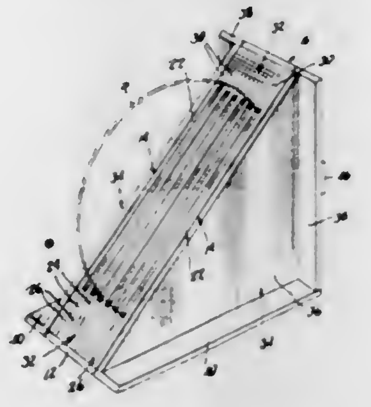
Leon A. Smith, Shelby, Ohio, assignor to The Shelby Cycle Company, Shelby, Ohio, a corporation of Ohio
Application August 24, 1944, Serial No. 550,944
3 Claims. (Cl. 157—1.5)

1. In a machine for tightening spoke nuts on cycle type wheels, a circular arrangement of rotary chuck-carrying frames, means individually guiding and supporting the frames so that the chucks carried thereby can move substantially along the axes of the respective spokes to turn

nuts thereon, a single power operated means for moving the guiding and supporting means to cause the chucks to make driving, follow-up contact with the nuts, and means operated by said power operated means simultaneously to effect turning movement of the chucks.



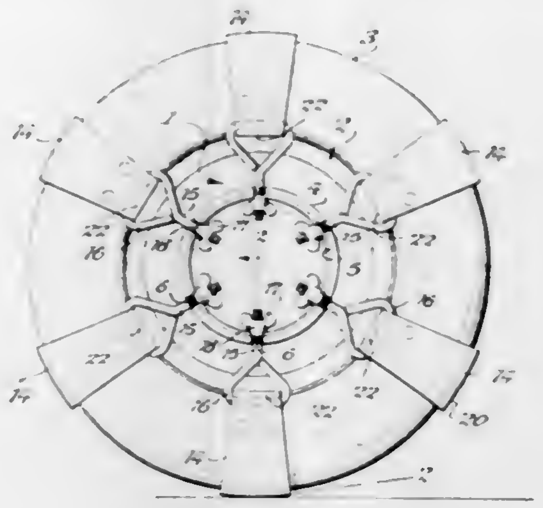
2,422,594
CONTAINER WITH INCLINED FRONT OPENING AND CLOSURE MEANS THEREFOR
Jon Stengren, Forest Hills, N. Y.
Application January 17, 1945, Serial No. 573,197
4 Claims. (Cl. 312—10)



2. A container comprising a body defining a receptacle having a bottom, an end wall and laterally spaced side walls, each of said side walls being in the form of an isosceles triangle with a right angle between the bottom and end wall of said body, said receptacle having an opening in a plane disposed transversely of said side walls, said opening lying in a plane inclined upwardly and rearwardly from the front end of said body, and triangular shaped planar parts having sides coextensive with said side walls, respectively, and hinged to said side walls, respectively, along an edge which is the hypotenuse of the triangular side wall and of the part hinged thereto and movable from retracted positions laterally of said side walls, respectively, to positions in which said parts extend forwardly of said edges of the companion side walls, respectively, and form with said companion side walls rectangular planar members at the opposite sides of the container, said movable parts having lateral portions which abut each other in said last mentioned positions of said parts for covering said opening of the receptacle body.

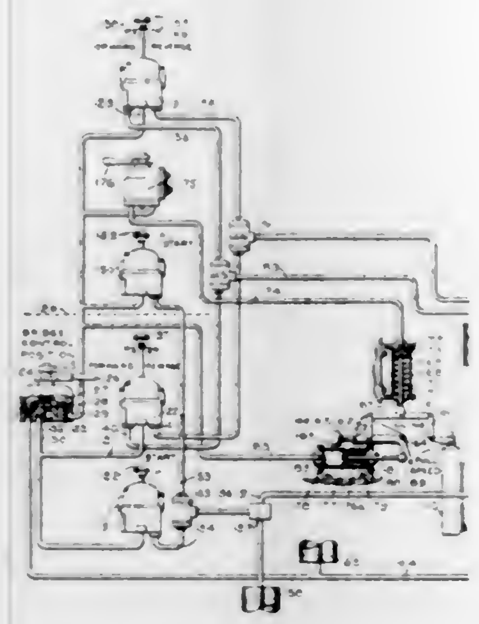
2,422,595
ANTISKID DEVICE
Adolph K. Stevens, Buffalo, N. Y.
Application April 25, 1946, Serial No. 664,898
4 Claims. (Cl. 152—241)

4. In a traction-increasing attachment for a vehicle wheel, of the type having two separate, closed loop members each of smaller diameter across the loops than the diameter of said wheel, and entirely separate from the wheel, and a plurality of cross elements connecting the members at spaced intervals along said members, that improvement in one of said members, which comprises an annular ring, U-shaped in a transverse cross section with the base of the U forming the outer periphery of that member, apertures in the bottom of the channel at intervals along the ring, and each of a width in a direction peripherally of the ring substantially less than the crosswise width of the channel, a threaded rod passing through each aperture in a direction radially of the ring and having a loop at its outer end for attachment to one of the cross elements, a nut threaded on the inner end of the rod within the ring and having on the end face engaging in the channel, a cylindrical portion of greater diameter than the aperture through which the threaded rod passes, but less than the width of the channel, whereby the nut may be rotated while its cylindrical portion remains in the channel, said ring having notches in a side wall leading to each aperture and of the same width as the diameter of the apertures, whereby each threaded rod may be passed into its aperture in a direction laterally of the ring and held against disengagement by the engagement of the cylindrical end of the nut in the channel.

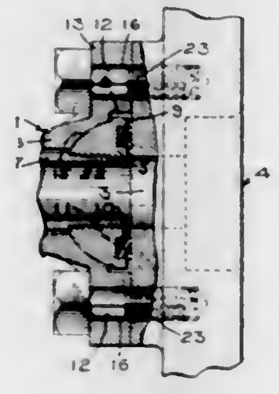


2,422,596
DUAL PNEUMATIC POWER CONTROL
Roy R. Stevens, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 28, 1942, Serial No. 432,776
24 Claims. (Cl. 192—.01)

1. In combination, a device to be operated, a motor controlled by fluid under pressure for controlling operation of said device, a source of fluid under pressure, a manual control device operative when connected with said source of fluid under pressure to control operation of said motor, another manual control device operative when connected with said source of fluid under pressure to control operation of said motor, and a selector valve device having one position for connecting one of said manual control devices to said source of fluid under pressure and for disconnecting the other manual control device from said source of fluid under pressure and having another position for connecting said other manual control device with said source of fluid under pressure and disconnecting said one manual control device from said source of fluid under pressure.



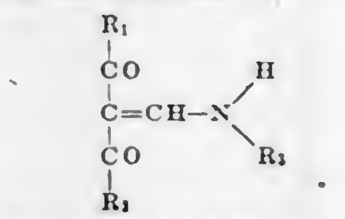
2,422,597
PIPE FITTING
Carlton D. Stewart, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application November 25, 1944, Serial No. 565,080
8 Claims. (Cl. 285—25)



1. In combination with an element having a fluid conducting conduit, a hollow flange member secured to said element, a pipe encircled by said flange member and being in open communication with said fluid conducting conduit, means rigidly attached to said pipe and slidably engaging said flange member to establish a pivotal connection between said pipe and flange member to permit angular movement of said pipe relative to said flange member, a support for said pipe carried by said flange member yieldable to the angular movement of said pipe, and resilient means interposed between and engaging said means and element for maintaining a yieldable fluid tight connection between said pipe and conduit.

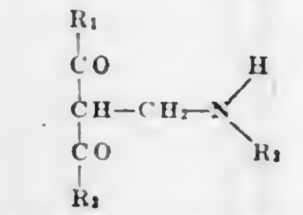
2,422,598
COMPOUNDS CONTAINING AN ACTIVE METHYLENE GROUP, AND PROCESS OF PREPARING THE SAME
Eric T. Stiller, Fanwood, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Original application December 16, 1939, Serial No. 309,574. Divided and this application December 24, 1942, Serial No. 470,096
8 Claims. (Cl. 260—558)

1. The process that comprises catalytically hydrogenating the olefinic bond in a compound represented by the formula:



$$R_1{-}CO{-}\underset{\underset{R_2}{|}}{\underset{CO}{|}}{C}{=}CH{-}N\begin{array}{l}\diagup H\\ \diagdown R_3\end{array}$$

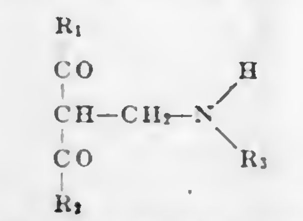
wherein R_1 and R_2 are substituents selected from the class consisting of alkyl and alkoxyalkyl groups and R_3 is a substituent selected from the class consisting of hydrogen and acyl groups, to produce a substance represented by the formula:



$$R_1{-}CO{-}\underset{\underset{R_2}{|}}{\underset{CO}{|}}{CH}{-}CH_2{-}N\begin{array}{l}\diagup H\\ \diagdown R_3\end{array}$$

wherein R_1 and R_2 are substituents selected from the class consisting of alkyl and alkoxyalkyl groups; and R_3 is a substituent selected from the class consisting of hydrogen and acyl groups.

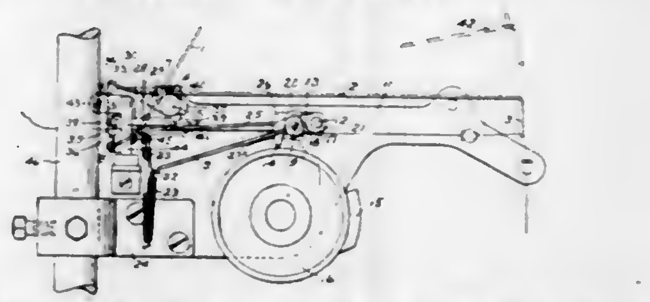
2. A composition of matter represented by the formula:



$$R_1{-}CO{-}\underset{\underset{R_2}{|}}{\underset{CO}{|}}{CH}{-}CH_2{-}N\begin{array}{l}\diagup H\\ \diagdown R_3\end{array}$$

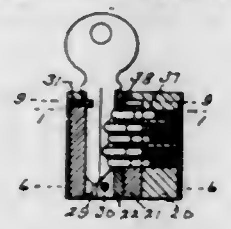
wherein R_1 and R_2 are substituents selected from the class consisting of alkyl, and alkoxyalkyl groups; and R_3 is a substituent selected from the class consisting of hydrogen and acyl groups.

2,422,599
YARN TAKE-UP
Eugene St. Pierre, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application March 20, 1945, Serial No. 583,721
8 Claims. (Cl. 66—146)



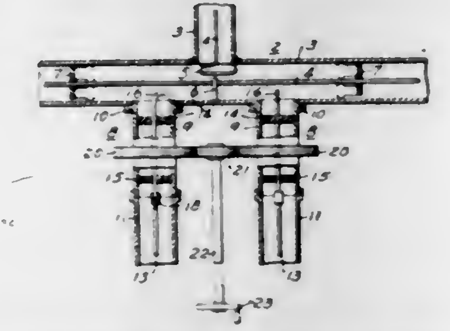
1. A yarn take-up for a knitting machine which includes an arm, one end of which is supported by a horizontal pivot so that it is swingable in a vertical plane, an extension of said arm, a lever associated therewith for swinging said arm upwardly and means associated with said lever for energizing said lever.

2,422,600
MASTER KEY CYLINDER LOCK
Gunnar E. Swanson, New Britain, Conn.
Application October 5, 1945, Serial No. 620,501
6 Claims. (Cl. 70—340)



1. A cylinder lock which has a casing, a barrel rotatable in the casing, and a cylinder rotatable in the barrel, said casing having a plurality of rows of tumbler pins, said barrel having a similar number of rows of tumbler pins, each row of barrel pins being adapted to be aligned with each row of casing pins, and said cylinder having a single row of tumbler pins adapted to be aligned with each row of barrel pins, said cylinder also having a single key slot aligned with the cylinder pins.

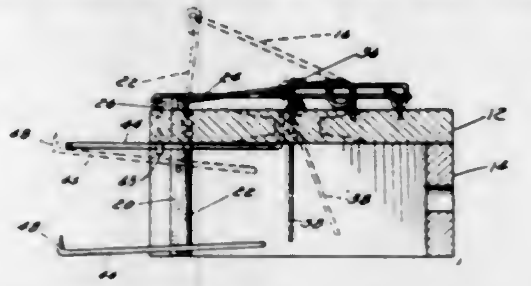
2,422,601
ULTRA HIGH FREQUENCY COUPLING CIRCUIT
David R. Tashjian, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1943, Serial No. 487,753
5 Claims. (Cl. 178—44)



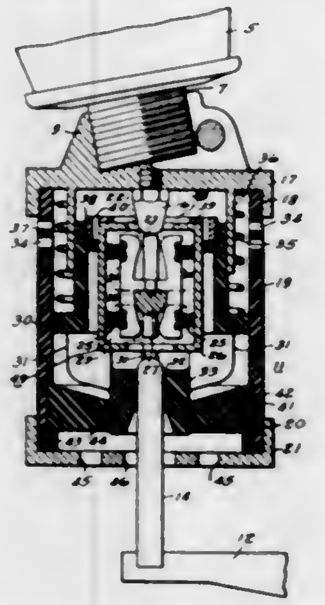
1. In a coupling circuit for ultra high frequency energy transmission, an energy transfer junction comprising a coaxial transmission line, a main coaxial feeder and a pair of auxiliary coaxial feeders terminating in said line, a fixed coupling between said feeder and said line comprising a loop oriented for maximum energy transfer, a variable coupling between each of said auxiliary feeders and said line comprising individual loops for each of said last mentioned feeders, and means for simultaneously orienting said loops in alternate order and in opposition effecting orientation for maximum coupling in one of said feeders and oriented for minimum coupling of the other of said feeders.

2,422,602
ANIMAL TRAP
John L. Vallely, Los Angeles, Calif.
Application April 10, 1944, Serial No. 530,377
3 Claims. (Cl. 43—85)

1. A rodent trap comprising a housing having side walls, a rear wall and a top, a spring-pressed yoke mounted on the top, a loop connected to the yoke and moving in grooves in the inner faces of the side walls, an extension in the loop, a member co-operating with said extension, said member mounted in the top of the trap, a trigger pivotally mounted in the top of the trap, and a trigger bar and connected leverage bars connecting the trigger to the yoke, said leverage bars including a bar pivoted at the front end of the trap and passing over the yoke and extending rearwardly, and another bar pivoted at one side of the rear end of the top and crossing the first leverage bar and adapted to be moved rearwardly and forwardly thereover for tension adjustments.

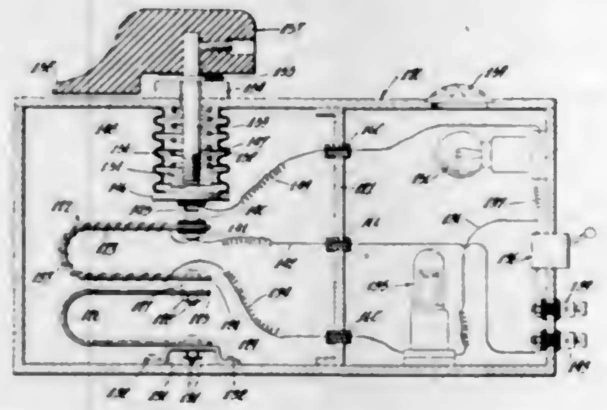


2,422,603
CIRCUIT INTERRUPTER
Roswell C. Van Sickle, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 20, 1944, Serial No. 545,758
6 Claims. (Cl. 200—150)



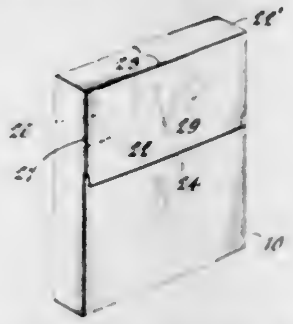
1. In a circuit interrupter, means defining a confined chamber, a pair of contacts separable to establish an arc within the confined chamber, a third contact separable from one contact of said pair of contacts to establish a second serially related arc, means for causing opening movement of the third contact, a piston member operatively connected to and movable with said one contact, means biasing said one contact and the piston member to move and follow the third contact during the initial portion of the opening operation, venting means at the side of the piston member which permits movement against its biasing means, passage means extending between the other side of the piston member and the arc established between the said pair of contacts so that the pressure generated will act on said piston member and stop said one contact from following in contacting engagement with the third contact after the pressure is sufficient to overcome the biasing action exerted by the biasing means and thereby cause separation between the third contact and said one contact, and said passage means also extending from the arc established between said pair of contacts to the arc drawn by separation of the third contact from said one contact to extinguish it by a blast of fluid.

2,422,604
GAS PURITY TESTING DEVICE
Earl J. Weber, Cleveland, Ohio, assignor to American Gas Association, Inc., Cleveland, Ohio, a corporation of New York
Application May 28, 1943, Serial No. 488,947
6 Claims. (Cl. 177—311)



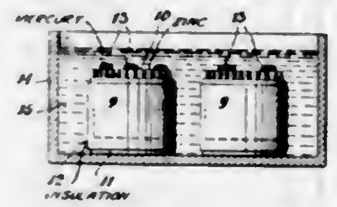
1. Means for testing a gas, comprising: relatively movable contacts; means, responsive to the purity of the gas to be tested, constructed and arranged to move one of said contacts relatively to the other to a position dependent upon the purity of said gas; means for adjusting the other of said contacts to engage said one of said contacts at said position; means for indicating when said contacts come into such engagement; and means, including a scale, for indicating the purity of said gas by the position of said adjusting means with respect to said scale.

2,422,605
DISPENSING PACKAGE
William John Wells, Buffalo, N. Y., assignor to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware
Application December 28, 1943, Serial No. 515,953
5 Claims. (Cl. 229—7)



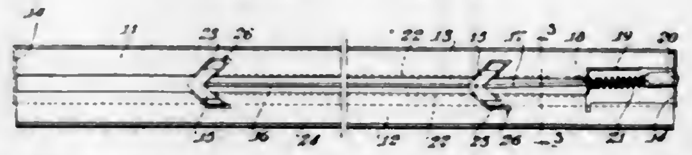
1. A carton for a multiplicity of articles, said carton having a filling opening and having an article-receiving compartment with a front and back positioned respectively at opposite sides of the articles within said compartment and normally maintaining said articles substantially in a single layer, said front being of resilient sheet material with a transverse slot forming an area susceptible of inward yielding flexing by external pressure so as to cause said inwardly flexed front to urge certain of said articles in said compartment against said back thus to hold them from moving into dispensing position while another article is being dispensed, said inwardly flexing area having a discharge outlet of a size to dispense the article, said transverse slot being positioned intermediate the bounds of said carton front so as to locate said flexing area to parts of said front having said outlet, a tab connected to said carton for closing said outlet, means to hold the tab temporarily in closed position, and a cover arranged to be superposed on said tab and to enter said slot to be interlocked therewith.

2,422,606
METHOD OF MAKING ZINC ROLL ANODE FOR PRIMARY CELLS
Fred D. Williams, Jr., New Rochelle, N. Y., assignor to Samuel Ruben, New Rochelle, N. Y.
Application December 10, 1943, Serial No. 513,818
11 Claims. (Cl. 136—130)



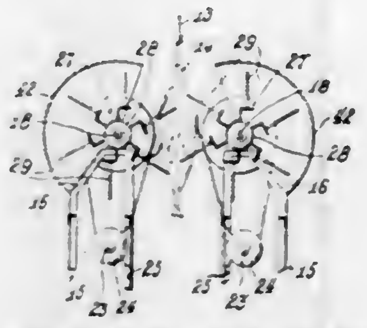
1. The method of making an anode-spacer assembly for a primary cell which comprises rolling together a strip of anode metal foil and porous sheet spacer material in offset relation whereby the foil projects from one end of the roll, impregnating the roll with electrolyte and then amalgamating said foil by bringing mercury into contact with the projecting edge of said foil, and maintaining said contact until mercury has spread over the entire foil surface.

2,422,607
SELF-OPERATING DRAUGHT EXCLUDER
Frederick Charles Wynne, Hounslow, England
Application January 3, 1944, Serial No. 516,825
In Great Britain January 23, 1943
3 Claims. (Cl. 20—68)



1. A draught-excluder for a door, comprising a fixed bar adapted to be mounted on the door, a movable bar, a plurality of chevron-shaped cam members supporting said movable bar from said fixed bar by engagement with correspondingly chevron-shaped recesses in the fixed and movable bars respectively, a rod of rigid material connecting said cam members to provide joint simultaneous action thereof, and a push rod pivotally connected to one of said cam members and actuated by the closing of the door to impart movement to said cam members, whereby the cams partially recede from the said recesses in the fixed and movable bars thus moving the movable bar downwardly into a draught-excluding position.

2,422,608
APPARATUS FOR PLUCKING FEATHERS
Edward J. Albright, Chicago, Ill., assignor to E. J. Albright & Co., Chicago, Ill., a copartnership
Application April 9, 1945, Serial No. 587,262
10 Claims. (Cl. 17—11.1)



9. A rotor for feather plucking apparatus comprising, in combination, a rotatable elongated body, spaced external radial webs carried on the

periphery of said body and extending a substantial portion of the length thereof, flanges on the free edges of said webs, said flanges having spaced openings therein, and outwardly extending radial fingers detachably mounted one in each opening.

2,422,609
PRODUCTION OF METALLIC SURFACE LAYERS

Max Auwärter, Hanau-on-the-Main, Germany; vested in the Attorney General of the United States

No Drawing. Application April 19, 1937, Serial No. 137,892. Renewed December 14, 1938. In Germany December 10, 1936

Sections 3 and 14, Public Law 690, August 8, 1946.

Patent expires December 10, 1956

4 Claims. (Cl. 91—70.1)

1. The method of producing metallic surface layers, which comprises heating a metal sheet in a vacuum of at least 10^{-3} mm. Hg, to a temperature below the melting point of the metal sheet, the metal to be deposited being in the form of broad bands having a great surface arranged opposite the surface to be coated, and the metal sheet being directly heated by electric current whereby the use of a carrier for the metal sheet is not required and contamination by the substances of the carrier are excluded, to effect sublimation of metal from the metal sheet, and condensing sublimed metal upon an article having the surface to be coated and located at a predetermined distance.

3. The method of producing metallic coatings according to claim 1, in which the metal of the sheet from which metal is sublimed is selected from a group of metals consisting of metals of the seventh and eighth groups of the periodic system.

2,422,610
ENGINE WITH STRATIFIED MIXTURE

Albert Bagnulo, Rome, Italy; vested in the Attorney General of the United States

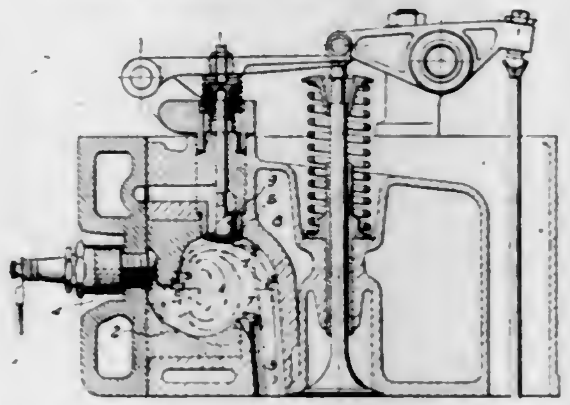
Application October 26, 1938, Serial No. 236,981

In France October 27, 1937

Sections 3 and 14, Public Law 690, August 8, 1946.

Patent expires October 27, 1957

3 Claims. (Cl. 123—32)



2. An internal combustion engine comprising at least one cylinder with piston, means to draw air into the said cylinder, a hot bulb of a generally ovoidal shape separated from the cylinder and interconnected therewith through a restricted passage opening tangentially with respect to the walls of the larger end of said bulb, means to introduce fuel into the said hot bulb in order to form therein, together with the air displaced by the piston through the passage, a combustible mixture, the said means comprising an injector the axis of which extends in a direction substantially perpendicular, to the major axis of the ovoidal chamber, a sparking plug mounted at the smaller end of the said ovoidal chamber, and a projection located ahead of the sparking plug in order to protect same against the direct projections of fuel, the said projection having the form of a tongue, in a direction substantially perpendicular to the major axis of the said hot bulb, extending substantially as far as the said axis and having a mass sufficiently small to maintain, by radiation of its heat, a very hot atmosphere in the neighbourhood of the sparking plug.

2,422,611
MEASURING TABLE

Helmut Becker and Heinrich Broschke, Wetzlar, Germany; vested in the Attorney General of the United States

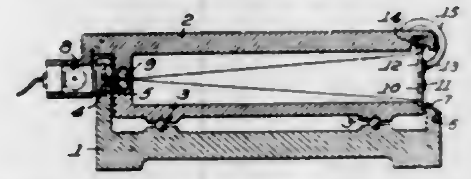
Application January 18, 1940, Serial No. 314,412

In Germany January 5, 1939

Sections 3 and 14, Public Law 690, August 8, 1946.

Patent expires January 5, 1959

8 Claims. (Cl. 88—24)



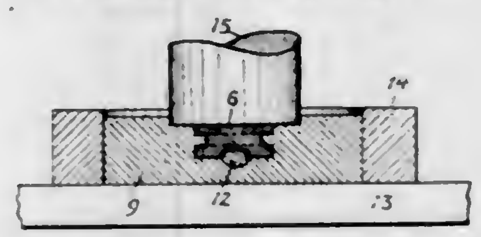
1. A measuring table as described comprising a base, a measuring stage movably supported thereon, two identical main scales carried by said base in exact measuring parallel alinement, one of said scales being non-descriptive, the other of said scales having descriptive numbers identifying the divisions on said other scale, two relatively movable ground glass rules carried by said stage and mounted in the same plane, said rules bearing identical subdivision scales of said main scales, one of said ground glass subdivision scales being non-descriptive, means for moving one of said subdivision scale rules relative to the other subdivision scale rule and optical means for projecting the magnified image of an interval on said non-descriptive main scale upon the said ground glass rules.

2,422,612
METHOD FOR MAKING WIRE DRAWING DIES

Noah Borne, Fort Wayne, Ind., assignor to Fort Wayne Wire Die Company, a corporation of Indiana

Application August 17, 1945, Serial No. 610,953

3 Claims. (Cl. 76—107)



1. The method of forming a wire drawing die consisting of emplacement of a refractory die body in a chambered metallic block, insertion into the chamber of the block a metallic investment plug having a peripheral annular recess located between its ends, the top thereof being substantially flush with that of the block, heating the encasement to a plastic state, then forcefully applying a ram against the top of the plug and a substantial encompassing portion of said block, whereby to firmly imbed the die body between the plug and adjacent wall of the block and extrude the wall of the block into said recess to interlock the investment plug and block.

2,422,613
NORMAL SECONDARY TRIDECYL SULPHATES

Emil E. Dreger, Summit, and John Ross, Ramsey, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Original application July 9, 1937, Serial No. 152,852. Divided and this application February 19, 1943, Serial No. 476,466

4 Claims. (Cl. 260—459)

1. A normal, secondary, tridecyl sulphate.

2,422,614
DEVICE FOR THE SPEED REGULATION OF ELECTRIC COMMUTATOR MACHINES

Placido Flury, Novara, Italy; vested in the Attorney General of the United States

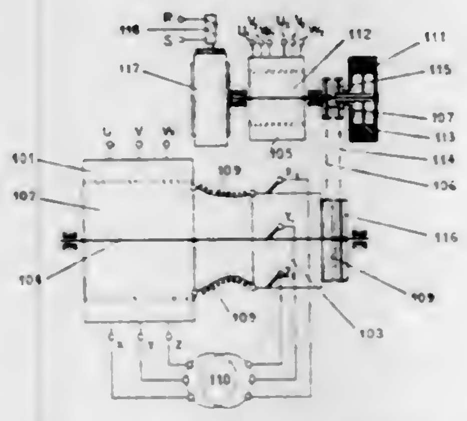
Application June 13, 1939, Serial No. 278,941

In Italy June 25, 1938

Sections 3 and 14, Public Law 690, August 8, 1946.

Patent expires June 25, 1958

10 Claims. (Cl. 172—274)



1. In a speed regulation system for electric commutator machines of either shunt or series wound type, the combination of a stator with stator winding and a rotor with rotor winding for the said main machine; a commutator system embodying a commutator electrically connected to one of said windings, and a set of brushes for said commutator, the brush set and commutator being movably disposed relative to each other, for varying the speed of the machine; a pilot device for automatically and continuously controlling the displacements of one member of the commutator system relative to the other, in order to maintain the speed of the machine corresponding to the speed of the pilot device; a suitable transmission system connecting said pilot device to said one member of the commutator system, flexible conductors connecting said one member to the corresponding winding, and a damping device for avoiding hunting of the machine, said damping device having an element rotatable with the rotor of the machine and a second element movable relatively to the first element thereof and rotatable with the movable member of the commutator and means frictionally connecting said elements.

2,422,615
ROTARY COMPRESSOR

Frank Bernard Halford, Edgware, England, assignor to The De Havilland Aircraft Company Limited, Edgware, England, a British company

Application July 20, 1943, Serial No. 495,519

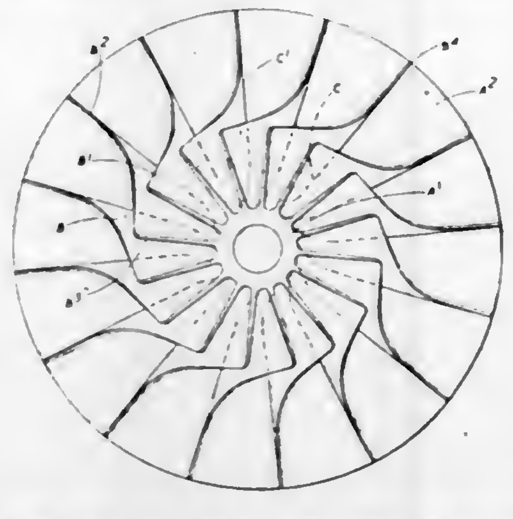
In Great Britain November 21, 1941

Section 1, Public Law 690, August 8, 1946.

Patent expires November 21, 1961

1 Claim. (Cl. 230—134)

An impeller for a compressor giving an essentially radial flow, said impeller having a hub which comprises a boss at the entering end that is smoothly flared to a disk at the delivery end and a plurality of blades carried thereby, each of said blades having a substantially flat delivery portion which lies in a plane containing and thus radial with the impeller axis and a leading portion smoothly continuous throughout and integral with the delivery portion and having a helical form from its leading edge to its junction with said flat portion so that any section of said leading portion in a plane normal to the impeller axis is truly radial with respect to said axis, each of said blades including its helical portion springing throughout its width in the axial direction from said boss and disk and being formed integrally therewith and each blade having at the eye of the impeller a radial measurement not exceeding .75 of the radial measurement at the delivery end of the blade.



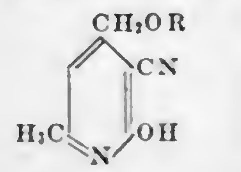
2,422,616
VITAMIN B_6 INTERMEDIATES AND PROCESS OF PREPARING THE SAME

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 22, 1943, Serial No. 495,772

12 Claims. (Cl. 260—297)

11. Compounds represented by the formula:



wherein R is a radical selected from the class consisting of alkyl and aryl groups.

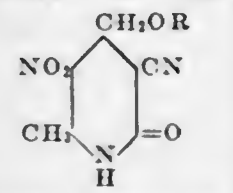
2,422,617
VITAMIN B_6 INTERMEDIATES

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 11, 1944, Serial No. 544,471

18 Claims. (Cl. 260—297)

1. A compound represented by the formula:



wherein R is selected from the group consisting of alkyl, aryl and aralkyl.

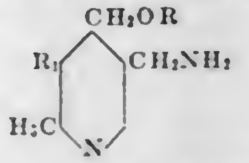
2,422,618

VITAMIN B_6 INTERMEDIATES

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 28, 1944,
Serial No. 547,103
18 Claims. (Cl. 260—296)

1. A compound of the formula:



wherein R is selected from the class consisting of alkyl, aryl and aralkyl groups, and R_1 is selected from the class consisting of amino, acylamino and diacylamino groups; and salts thereof.

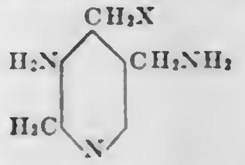
2,422,619

VITAMIN B_6 INTERMEDIATES

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 28, 1944,
Serial No. 547,104
18 Claims. (Cl. 260—296)

1. A compound of the formula:



wherein X is selected from the group consisting of halogen and hydroxyl; and salts thereof.

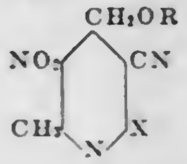
2,422,620

VITAMIN B_6 INTERMEDIATES

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 28, 1944,
Serial No. 547,105
10 Claims. (Cl. 260—297)

1. A compound represented by the formula:



wherein R is selected from the class consisting of alkyl, aryl and aralkyl groups and X is a halogen.

2,422,621

VITAMIN B_6 INTERMEDIATES

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application January 24, 1942, Serial No. 428,080, which is a division of application Serial No. 293,131, September 1, 1939. Divided and this application July 28 1944, Serial No. 547,106
3 Claims. (Cl. 260—297)

1. In the synthesis of vitamin B_6, the step which comprises heating 2-methyl-3-hydroxy-4:5-epoxydimethylpyridine hydrobromide with hydrobromic acid to form 2-methyl-3-hydroxy-4:5-di-(bromomethyl) pyridine hydrobromide.

2,422,622

SYNTHESIS OF VITAMIN B_6

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application January 24, 1942, Serial No. 428,080, which is a division of application Serial No. 293,131, September 1, 1939, now Patent No. 2,272,198, dated February 10, 1942. Divided and this application January 10, 1946, Serial No. 640,390
9 Claims. (Cl. 260—297.5)

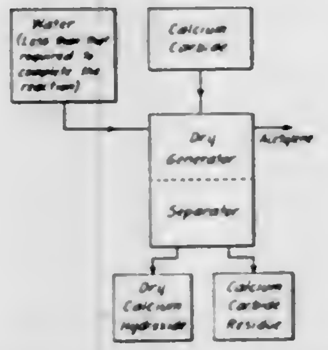
1. In the synthesis of vitamin B_6, the step which comprises treating 2-methyl-3-amino-4-hydroxymethyl- 5 -amino - methylpyridine dihydrohalide with a diazotizing agent and recovering vitamin B_6 hydrohalide.

2,422,623

PROCESS FOR THE GENERATION OF ACETYLENE FROM CALCIUM CARBIDE AND WATER

Hermann Holler, Frankfort-on-the-Main, and Otto Mues, Georgsmarienhutte, near Osnabruck, Germany; vested in the Attorney General of the United States

Application March 6, 1939, Serial No. 260,146
In Germany March 5, 1938
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires March 5, 1958
2 Claims. (Cl. 48—216)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. In a process for the production of acetylene and substantially dry calcium hydroxide by reacting calcium carbide with a limited amount of water in a dry-generator, the steps which comprise treating the carbide introduced into the dry-generator with insufficient water to completely react all of said carbide so that no excess of water occurs in the generator and so that the calcium hydroxide formed is always obtained in a substantially dry pulverulent state, separating any remaining unreacted particles of the carbide from the calcium hydroxide, removing, collecting and again introducing such remaining particles of carbide into the inlet portion of said dry-generator.

2,422,624

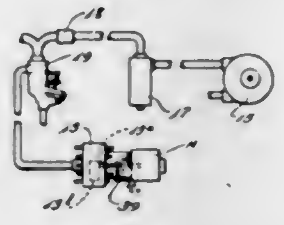
INFLATION APPARATUS FOR ICE REMOVING MECHANISM

Willson H. Hunter, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application October 14, 1943, Serial No. 506,157
9 Claims. (Cl. 244—134)

1. Apparatus for supplying air under controlled pressure to an inflatable unit, said apparatus comprising means for supplying air under pressure to said unit, means for regulating the pressure of the air so supplied at a predetermined pressure, and means to control the regulating

means for temporarily raising the pressure to a higher value, the control means including manually releasable timing means and means responsive to operation of said timing means and controlling said regulating means to return the pressure to the lower value.



2,422,625

PROCESSES FOR THE PRODUCTION OF CHROMANES

Walter John, Gottingen, Germany; vested in the Attorney General of the United States

No Drawing. Application December 12, 1939, Serial No. 308,827. In Germany June 29, 1939
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires June 29, 1959
6 Claims. (Cl. 260—333)

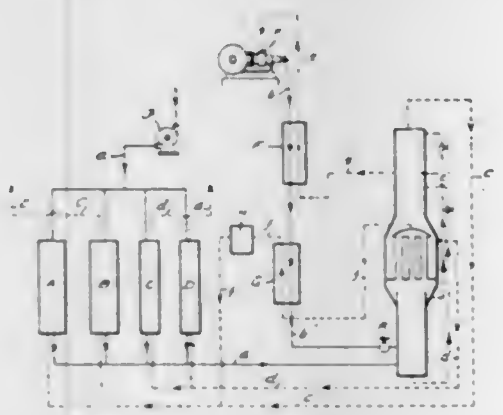
1. In a process for the production of chromanes, the step comprising heating 1-gamma-keto-butyl-trimethyl-benzohydroquinone with an alkyl magnesium halogenide.

2,422,626

RECOVERY OF NITROGEN AND OXYGEN

Franz Koehler, Leuna, Germany; vested in the Attorney General of the United States

Application August 24, 1938, Serial No. 226,597
In Germany August 28, 1937
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires August 28, 1957
2 Claims. (Cl. 62—122)



1. Process of rectifying air into its major constituents which comprises refrigerating air without liquefaction at a slightly elevated pressure, passing the refrigerated air into a rectifying column, introducing a relatively small quantity of highly compressed air into said column while releasing the pressure thereon to thereby effect rectification of the air into its major constituents, separately withdrawing said constituents, passing said constituents in heat exchange relationship to the air undergoing refrigeration, withdrawing a relatively small amount of a mixture of nitrogen and oxygen from said rectifier, utilizing its low heat content and recycling the same.

2,422,627

PROCESS OF REFINING HYDROCARBON MIXTURES

Friedrich Martin, Mulheim-Ruhr, and Wilhelm Gottschall and Hermann Velde, Oberhausen-Holten, Germany; vested in the Attorney General of the United States

No Drawing. Application June 20, 1939, Serial No. 280,055. In Germany May 8, 1939
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires May 8, 1959
11 Claims. (Cl. 196—147)

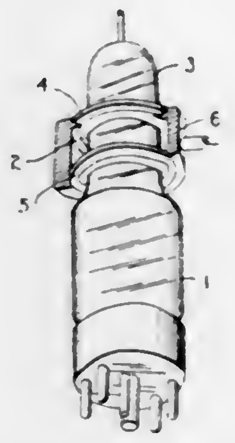
1. The process of refining hydrocarbon mixtures, which comprises contacting such hydrocarbon mixture, for the removal of impurities, at a temperature ranging between about 100 and 160° C. with an adsorbent catalytic material which had already been used in the treatment of a similar olefine-containing hydrocarbon mixture at a temperature between about 150 and 400° C. until its capacity of increasing the octane number of this mixture was substantially exhausted.

2,422,628

GLASS TO METAL SEAL

Henry J. McCarthy, Danvers, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application June 12, 1943, Serial No. 490,702
2 Claims. (Cl. 117—53)



1. In the method of preparing a copper disk for a glass to metal seal, the steps of: thoroughly cleaning said disk; etching said disk with nitric acid; cleaning in water and ammonium carbonate; drying in a centrifuge; precipitating on said disk a coating of dry borax; and thereafter placing said disk in a radio frequency field to flash heat the disk to oxidizing temperature for a few seconds only, to oxidize the metal without glazing the borax coating.

2,422,629

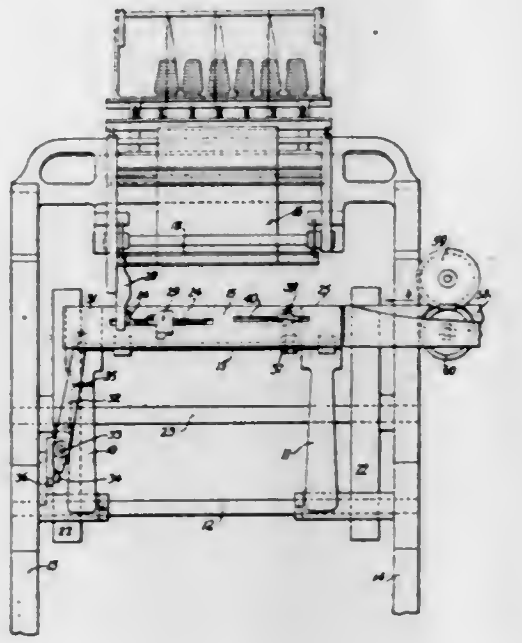
PAPER SHEET HANDLING METHOD AND MECHANISM

Oskar Müller and Oskar Kleinschmit, Leipzig, Germany; vested in the Attorney General of the United States

Application June 28, 1939, Serial No. 281,752
In Germany July 9, 1938
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires July 9, 1958
18 Claims. (Cl. 112—21)

1. The method of registering paper sheets or signatures in book-stitching machines which comprises the steps of engaging the tail end of the sheet or signature disposed upon a feed table

to move it so as to bring its head end into engagement with a sheet fixing stop upon said table thereby to register the sheet, clamping said head end in such registered position upon said feed table, disengaging the tail end of said sheet and then conveying the sheet while clamped upon said feed table to the stitching position and stitching it.



2,422,630
PREPARATION OF LUBRICANTS

John M. Musselman, South Euclid, and Herman P. Lankelma, Shaker Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application April 12, 1946, Serial No. 661,878

13 Claims. (Cl. 252—32.7)

1. A process of preparing a product suitable for use as a lubricant and as an addition agent to improve lubricating oils, which comprises heating an organic thiophosphate reaction product of a phosphorus sulfide and an aliphatic oxygen-containing organic compound to a temperature above 275° F. for a length of time to form a separable sludge containing phosphorus, and a desired decomposition product having a phosphorus content of less than half that of the thiophosphate starting material and most of the sulfur content thereof, and separating said desired decomposition product from the sludge so formed during the heating. .

2,422,631
MANUFACTURE OF ALIPHATIC AMINES AND ACID AMIDES

John F. Olin and Thomas E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware

No Drawing. Application November 7, 1944, Serial No. 562,381

9 Claims. (Cl. 260—583)

1. The process of manufacturing aliphatic amines which comprises mixing together an olefin, an oxide of carbon, hydrogen and an aminating agent chosen from the class consisting of ammonia and primary and secondary amines, and passing said mixture over a heated hydrogenation-dehydration catalyst to form the desired amine.

2,422,632
MANUFACTURE OF ALIPHATIC AMINES AND ACID AMIDES

John F. Olin and Thomas E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware

No Drawing. Application November 7, 1944, Serial No. 562,382

8 Claims. (Cl. 260—561)

1. The process of manufacturing aliphatic amides which comprises mixing together an olefin, carbon monoxide and an aminating agent chosen from the class consisting of ammonia and primary and secondary amines, and passing the resulting mixture over a heated dehydration catalyst to form the desired amide.

2,422,633
DISPERSIONS

Boerge Petersen, Juelsminde, Denmark; vested in the Attorney General of the United States

No Drawing. Application August 16, 1937, Serial No. 159,323. In Great Britain August 18, 1936

Sections 3 and 14, Public Law 690, August 8, 1946.

Patent expires August 18, 1956

17 Claims. (Cl. 99—123)

1. A margarine dispersion including an aqueous disperse phase and a continuous phase consisting of edible fatty acid glyceride, and having included therein a proportion of a condensation product of higher fatty acid and polysaccharide of the second order, said condensation product having at least one hydroxy group of said polysaccharide of the second order free.

13. A dispersion improving substance, consisting of a solution of a condensation product of higher fatty acid and sugar dissimilar polysaccharide in an oleaginous substance, said condensation product having at least one hydroxy group of said polysaccharide free.

2,422,634
MICROHARDNESS TESTING INSTRUMENT

Hermann Riepert and Heinrich Broschke, Wetzlar, Germany; vested in the Attorney General of the United States

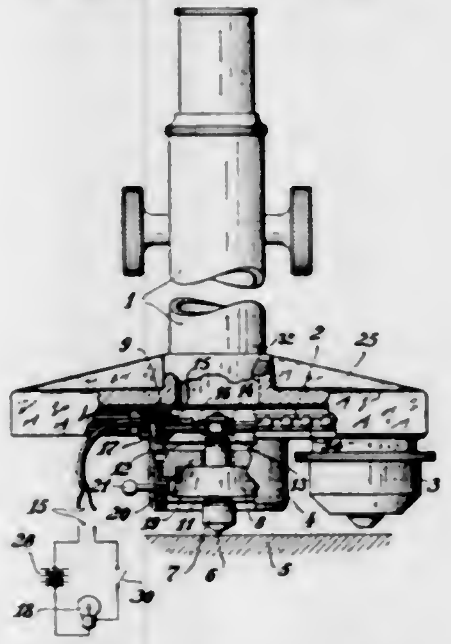
Application March 10, 1939, Serial No. 260,905

In Germany April 26, 1938

Sections 3 and 14, Public Law 690, August 8, 1946.

Patent expires April 26, 1958

1 Claim. (Cl. 265—12)



In a microhardness testing instrument as described, a microscope having a microscope tube, an objective and a testing device including a testing element, a bracket upon the lower end of said tube having a centrally extending vertical bore in alinement with said tube, horizontally disposed guiding means in said bracket at the bottom of and intersecting said bore, a slidable member supported in said guiding means, means for supporting said testing device and said objective upon said slidable member for horizontal slidable movement to selectively bring the testing device or the objective into vertical alinement with the microscope tube, said testing device supporting means including means for supporting the testing element in a normal gravity actuated non-testing position from which said testing element is automatically moved upon being brought into contact under its own weight with an object to be tested and which said element automatically reassumes upon removal from the object, means for increasing the weight of the element during the testing operation and electrically operated signalling means actuated by said element to indicate its respective said positions.

2,422,635
CINEMATOGRAPH CAMERA

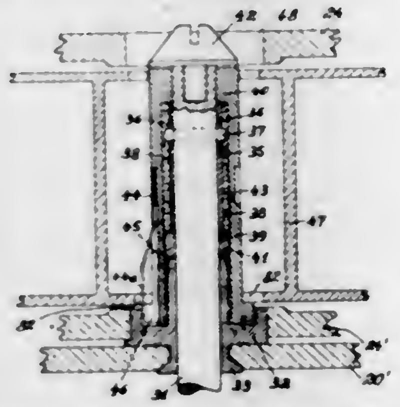
Otto Steiner, Berlin-Spandau, Germany; vested in the Attorney General of the United States

Original application February 20, 1937, Serial No. 126,870. Divided and this application December 28, 1938, Serial No. 248,046. In Germany February 22, 1936

Sections 3 and 14, Public Law 690, August 8, 1946.

Patent expires February 22, 1956

5 Claims. (Cl. 242—55)



1. In a cinematograph camera for the selective use of magazines having spools for single-row films and magazines having double-width spools for double-row films, the combination of take-up drive means comprising a driving shaft arranged so as to pass through the spool of an inserted magazine, a sleeve disposed coaxially on said driving shaft, frictional coupling means operatively interposed between said driving shaft and said sleeve, and coupling means arranged on said sleeve and being resiliently movable relative to said sleeve so as to have the tendency to remain in operative coupling position, said coupling means having a limited axial extent so as to be prevented from establishing a driving connection of said sleeve with more than one of said single-row film spools at a time.

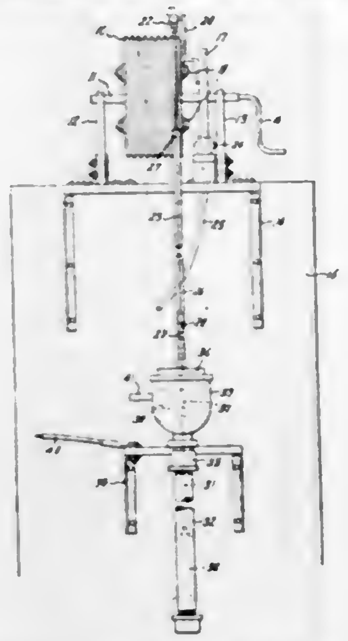
2,422,636
METHOD OF MAKING CEMENTED CARBIDE ARTICLE

George F. Taylor, Grosse Pointe Woods, Mich., assignor to Carboloy Company, Inc., a corporation of New York

Application November 24, 1943, Serial No. 511,634

2 Claims. (Cl. 219—3)

1. A method for bending a cemented carbide wire which comprises attaching one end of the wire to a drum, applying tension to the wire, supplying external heat to said wire at a point adjacent said drum, thereafter heating other portions of said wire and finally bending the heated wire on said drum.



2,422,637
RESINOUS CONDENSATION PRODUCT OF PHENOL AND STYRENE OXIDE

Charles A. Thomas, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 14, 1943, Serial No. 506,265

4 Claims. (Cl. 260—18)

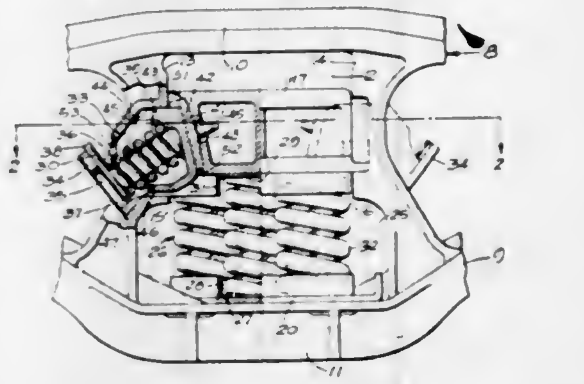
2. The resinous condensation product formed by heating phenol together with from 50% to 200% by weight thereof of styrene oxide.

2,422,638
STABILIZING MECHANISM FOR RAILWAY TRUCKS AND THE LIKE

Herbert E. Tucker, Chicago, Ill., assignor to James R. Cardwell, Chicago, Ill.

Application September 18, 1944, Serial No. 554,647

6 Claims. (Cl. 105—197)



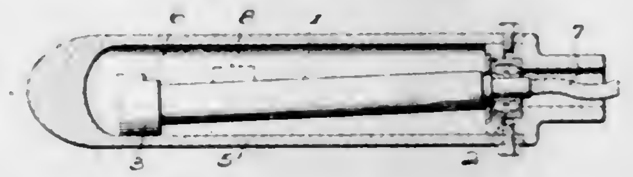
1. In a railway truck, a side frame having a bolster opening with two pockets at opposite sides of the opening, respectively, each of said pockets having an interior downwardly facing upper surface of substantial width and an interior upwardly facing lower surface of substantial width, a bolster extending into said opening with opposite side surfaces in the region of said pockets respectively, said opposite side surfaces being inclined in downward convergence, a spring assembly for supporting said bolster from said frame, hollow shoes lying against said bolster side surfaces respectively for frictional cooperation

therewith, each of said shoes being smaller in vertical dimension than the vertical spacing between said two interior surfaces of the corresponding pocket, each of said shoes having an upper wall of substantial width for contact with said upper pocket surface and a lower wall of substantial width for contact with said lower pocket surface, and an inclined auxiliary spring in each of said pockets extending into the interior of the corresponding friction shoe to act under compression against the friction shoe, each of said pockets having an inclined support for the lower end of the corresponding spring.

2,422,639

VIBRATING DEVICE

Harald Svenning Wenander, Riksby, Stockholm, Sweden, assignor to Vibro-Plus Corporation, Wilmington, Del., a corporation of Delaware
Application December 16, 1944, Serial No. 568,504
In Sweden November 17, 1943
4 Claims. (Cl. 259—1)

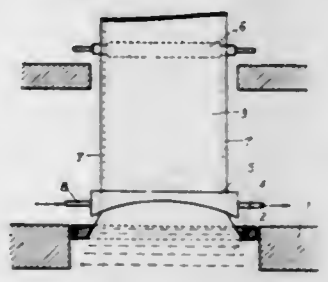


1. In a vibrating device, a vibratory member, a rotatable shaft having a weighted member adjacent one end thereof, a bearing for the other end of said shaft carried by said vibratory member, said weighted member having a surface of revolution contacting with a surface of revolution fixed relatively to said vibratory member, said bearing and shaft being so constructed and arranged that said weighted member forms the outer end of a conical pendulum rotatable about the axis of said shaft and movable circularly relative to the vibratory member, the mass of said conical pendulum being eccentric relative to the axis of said shaft, the eccentricity of said mass being of such magnitude that, when the shaft is rotated at approximately normal speed, sufficient centrifugal force is exerted on said pendulum to move the surface of revolution of said weighted member out of stable sliding contact, and into rolling contact, with the surface of revolution of said vibratory member.

2,422,640

APPARATUS FOR MANUFACTURING STRAINLESS GLASS SHEETS

Hideo Yamamoto, Yokohama, Japan; vested in the Attorney General of the United States
Application December 12, 1938, Serial No. 245,285
In Japan March 9, 1938
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires March 9, 1958
3 Claims. (Cl. 49—17)

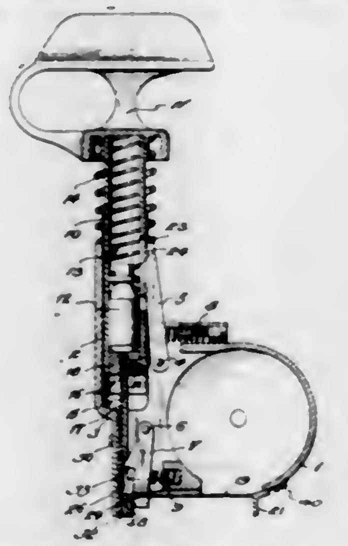


1. Apparatus for manufacturing strainless glass sheets by vertically drawing the molten glass out of a drawing kiln, comprising coolers disposed on both sides of the sheet drawing position and above and adjacent to the normal glass level of the kiln, each of said coolers extending the full width of the glass sheet, each cooler diminishing in vertical extent from the ends thereof toward the middle to provide reduced cooling effect towards the middle of the sheet from both side edges, and each cooler being so positioned that the middle portion thereof is spaced farther from the normal glass level of the kiln than the ends.

2,422,641

APPARATUS FOR BENDING AND DRIVING IN STAPLES

Reurt Cornelius Hazewinkel, Zuilen-Utrecht, Netherlands
Application January 31, 1939, Serial No. 253,931
In the Netherlands February 28, 1938
Section 3, Public Law 690, August 8, 1946.
Patent expires February 28, 1958
4 Claims. (Cl. 1—48)

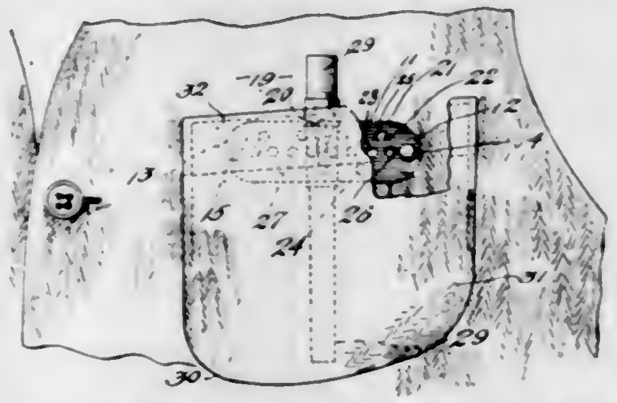


1. In an apparatus for bending and driving staples formed from a flat band of staple material, an anvil, a strip having prongs for bending the staples over said anvil, a hollow shaft connected with said strip, a hammer, a spring interposed between the hammer and one end of said shaft, a pawl for retaining said hammer, a strip for severing staples and hammering said staples when the pawl holding the hammer is released, means to release said pawl at the end of the stroke of the bending strip, means for guiding said strips in said hollow shaft, and means for feeding the staple material.

2,422,642

PEN AND PENCIL RETAINER

Frank E. Hornbeck, Forest City, Pa.
Application June 13, 1945, Serial No. 599,215
1 Claim. (Cl. 2—250)

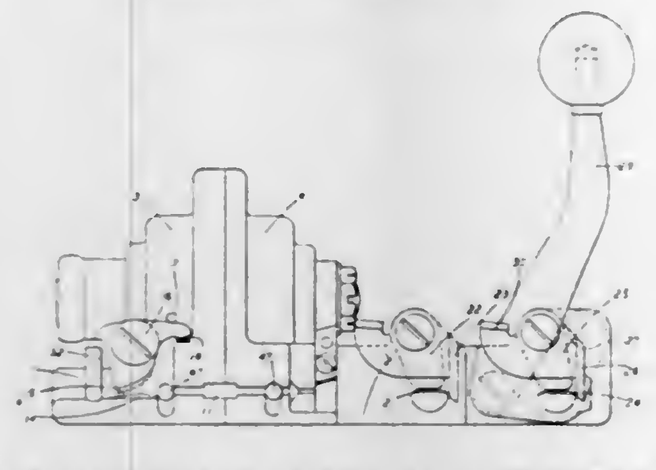


In combination with a garment having a pocket, an article retainer mounted within said pocket and upon the wall thereof in concealed position, said retainer comprising a transversely elongated strip, fastening means at the ends of said strip for detachably securing the same to said wall of said pocket and a plurality of vertically spaced, horizontal rows of apertures in said strip for detachable selective engagement by an article retaining clip, the apertures of adjacent rows being staggered, said strip being arcuately curved transverse to its longitudinal axis in conformity with the contour of the person of the user.

2,422,643

STRAPPING MACHINE

Andrew Mathis Kamper and Stanley Parkes, Brentford, England, assignors to Gerrard Industries Limited, Brentford, England
Application July 13, 1942, Serial No. 450,828
In Great Britain August 6, 1941
Section 3, Public Law 690, August 8, 1946.
Patent expires August 6, 1961
5 Claims. (Cl. 140—93)

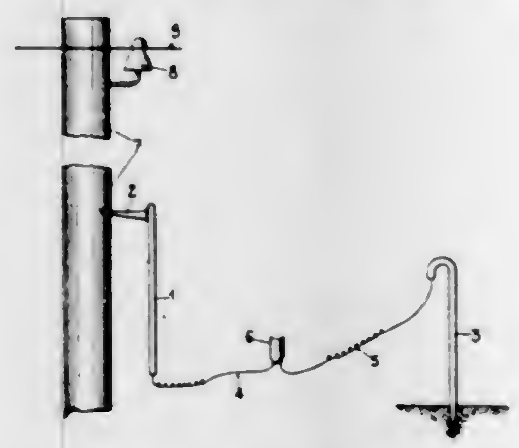


1. In a strapping machine an oscillatable handle, wire twisting means, means responsive to movement of the handle in one direction to operate the twisting means, knot-ejecting means, and means responsive to movement of the handle in the opposite direction to operate the knob-ejecting means.

2,422,644

APPARATUS FOR DETECTING DEFECTS IN ELECTRICAL SYSTEMS

Louis Martenet, Neuchatel, Switzerland; vested in the Attorney General of the United States
Application June 6, 1939, Serial No. 277,649
In Switzerland June 11, 1938
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires June 11, 1958
2 Claims. (Cl. 175—183)

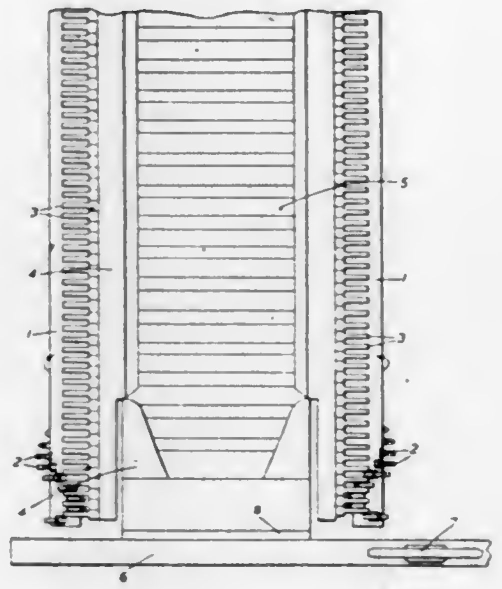


1. Apparatus for detecting defects in insulation in electric lines strung on wooden posts, comprising a neon lamp responsive to very low intensity values; means for observing the luminosity of said lamp; means for connecting the two electrodes of said lamp to two dead points, respectively, of the line to be verified, between which points a defect in insulation of the line would produce a slight difference of potential; and a resistance, formed by a part of one of the wooden posts, inserted in the measuring circuit.

2,422,645

MINING MACHINE

Matthew Smith Moore, Malvern, England, assignor of one-half to The Mining Engineering Company Limited, Worcester, England
Application July 15, 1943, Serial No. 494,824
In Great Britain July 25, 1942
Section 3, Public Law 690, August 8, 1946.
Patent expires July 25, 1962
3 Claims. (Cl. 262—30)



1. In a mining machine, the combination of a transverse conveyor, a transverse rotatable bar on each side of the conveyor, cutter picks and bursting members carried by the bar on the forward side of the conveyor, a loader comb cooperating with the said picks to load back material as it is cut by the picks on to the conveyor, and members carried by the bar on the rear side of the conveyor and positioned between the positions occupied by the picks and bursting members on the forward side of the conveyor.

2,422,646

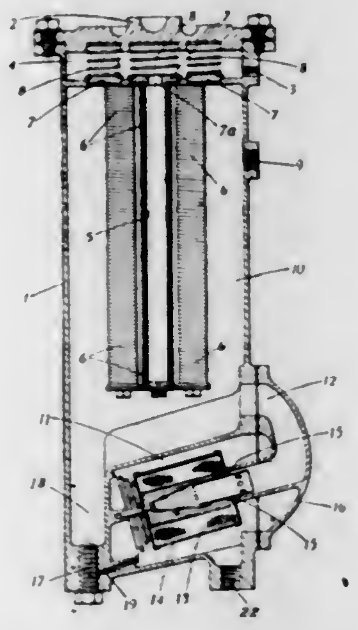
AQUEOUS EMULSIONS AND A PROCESS OF PREPARING THEM

Werner Starck, Hofheim, Taunus, and Heinrich Freudenberger, Frankfort-on-the-Main-Nied, Germany; vested in the Attorney General of the United States
No Drawing. Application January 14, 1939, Serial No. 251,044. In Germany January 20, 1938
Sections 3 and 14, Public Law 690, August 8, 1946.
Patent expires January 20, 1958
2 Claims. (Cl. 260—32)

1. The process which comprises polymerizing an emulsion of a mixture of vinyl acetate and vinyl butoxy-acetate in an aqueous solution of polyvinyl alcohol, said solution having a viscosity of about 80 centipoises and containing hydrogen peroxide as a catalyst.

2,422,647
FILTER

Cecil Gordon Vokes, London, England, assignor to Vokes Limited, Guilford, Surrey, England
Application July 9, 1940, Serial No. 344,583
In Great Britain July 19, 1939
Section 3, Public Law 690, Aug. 8, 1946.
Patent expires July 19, 1959
5 Claims. (Cl. 210—184)



1. A filter, including a casing formed to provide a first chamber and a second chamber, an inlet leading to the first chamber, an outlet from the first chamber, an outlet leading from the second chamber, a fine filtering means in the first chamber, a channel between the first and second chambers, a less fine filtering means in the second chamber normally filtering all fluid reaching the second chamber through the channel between the first and second chambers, and a valve in said channel normally closed while the less fine filtering means is functioning as a filter, said valve opening under fluid pressure incident to choking of the less-fine filtering means to bypass the fluid around the less-fine filtering means and establish direct connection between said channel and the second chamber.

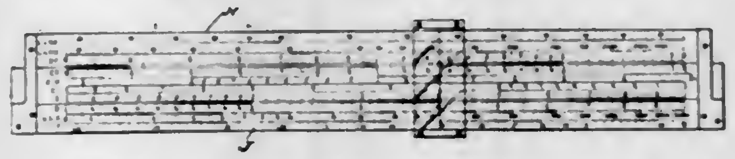
2,422,648
DIHYDROPYRAN COMPOUNDS AND THEIR PREPARATION

Paul H. Williams, Berkeley, and Seaver A. Ballard, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware.
No Drawing. Application October 24, 1944, Serial No. 560,206
11 Claims. (Cl. 260—333)

9. A process for the production of a pyran compound which comprises reacting a ketone with an unsaturated alcohol containing an unsaturated tertiary carbon atom linked directly by a single bond to a saturated carbon atom which is directly attached to the carbinol carbon atom, in the presence of an acidic condensation catalyst at a temperature above about 50° C. but not substantially above the temperature of dehydration of the alcohol.

2,422,649
SLIDE RULE

James R. Bland, Eastport, Md., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application October 17, 1944, Serial No. 559,020
6 Claims. (Cl. 235—70)



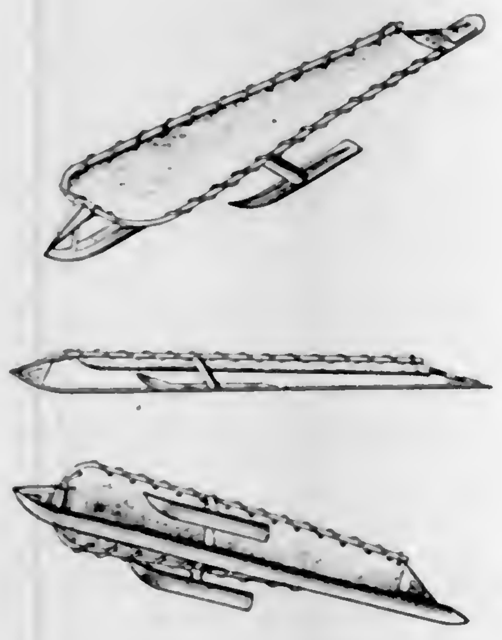
1. A slide rule comprising a body member and a slide member, a scale of unit length on said slide member graduated in accordance with the logarithms of numbers from 1 to 10, a cooperating corresponding scale of unit length on said body member graduated in accordance with the logarithms of numbers from 1 to 10, said scales constituting the basic scales of the rule, a scale on said body member graduated in accordance with the logarithms of the logarithms of numbers greater than unity and indexed at the base of the natural logarithms, a scale on said body member graduated in accordance with the logarithms of the co-logarithms of numbers less than unity and indexed at the reciprocal of the base of the natural logarithms, the two last-named scales being each composed of at least one section having the same unit length as said basic scales for direct association with said basic scales.

DESIGNS

JUNE 17, 1947

146,934
DESIGN FOR A SLED

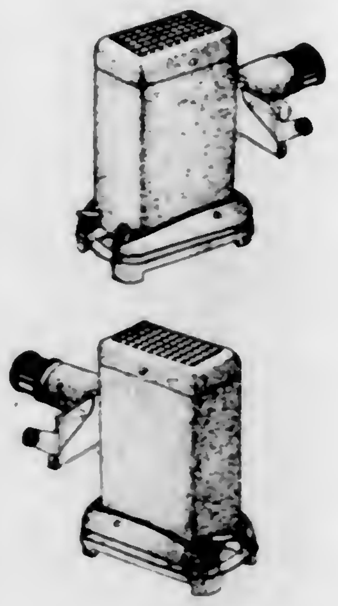
Howard J. Barrett, Philadelphia, Pa.
Application March 8, 1946, Serial No. 127,213
Term of patent 14 years
(Cl. D34—15)



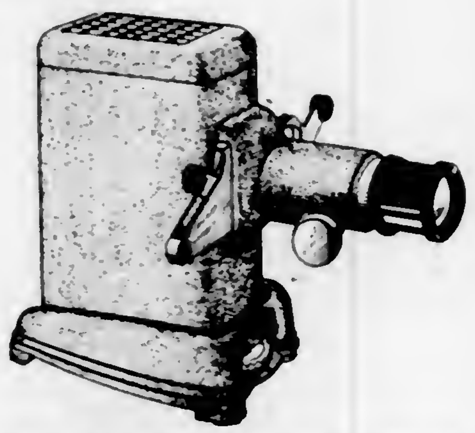
The ornamental design for a sled, as shown.

146,935
DESIGN FOR A PICTURE PROJECTOR

Arthur J. Bradford, Wilmette, Ill., assignor to Motion Picture Engineering Corporation, Chicago, Ill., a corporation of Illinois
Application February 12, 1946, Serial No. 126,489
Term of patent 14 years
(Cl. D61—1)



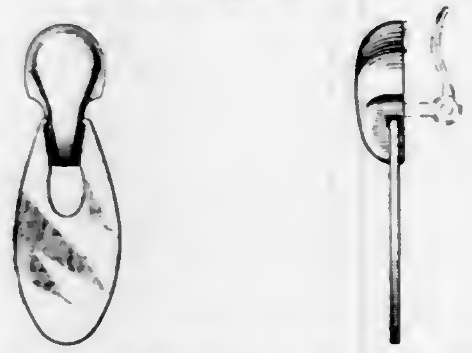
146,935—Continued



The ornamental design for a picture projector, substantially as shown.

146,936
DESIGN FOR AN EARRING OR SIMILAR ARTICLE

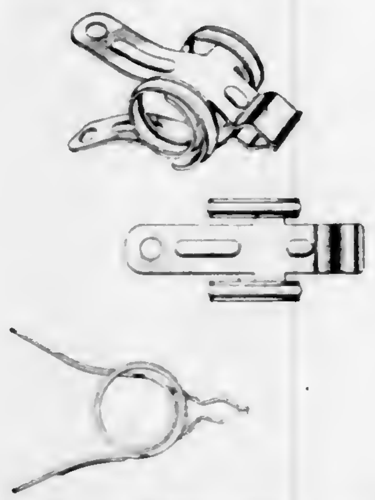
Michael Chernow, New York, N. Y.
Application May 29, 1946, Serial No. 130,211
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown.

146,937
DESIGN FOR A CLOTHESPIN OR SIMILAR ARTICLE

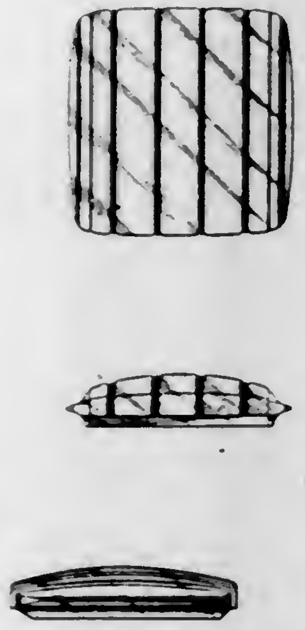
Virgil Kenneth Cooper, North Hollywood, Calif.
Application May 27, 1946, Serial No. 130,132
Term of patent 14 years
(Cl. D17—6)



The ornamental design for a clothespin or similar article, substantially as shown.

146,938
DESIGN FOR A COMPACT

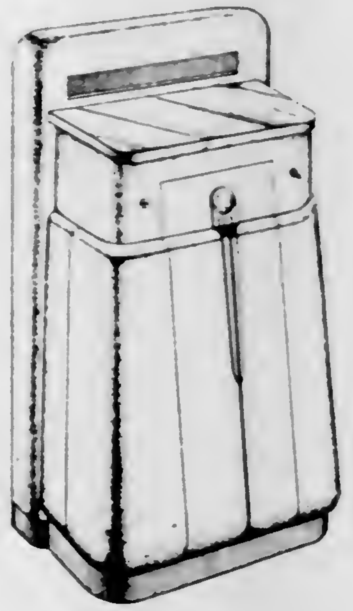
Walton B. Crane, Beverly Hills, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a corporation of California
Application April 1, 1946, Serial No. 128,147
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a compact, substantially as shown.

146,939
DESIGN FOR A SERVICE STATION WRITE-UP DESK OR SIMILAR ARTICLE

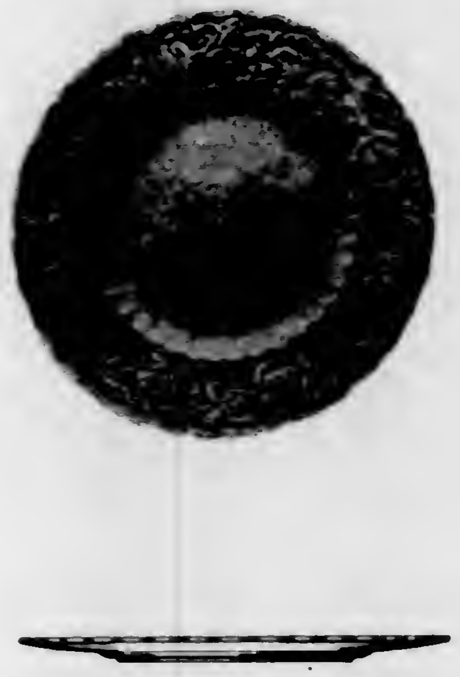
Erling G. Fossum and Francis Lawrence Ayres, Chicago, Ill., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 2, 1946, Serial No. 127,041
Term of patent 14 years
(Cl. D33—7)



The ornamental design for a service station write-up desk or similar article, substantially as shown, and described.

146,940
DESIGN FOR A DINNER PLATE

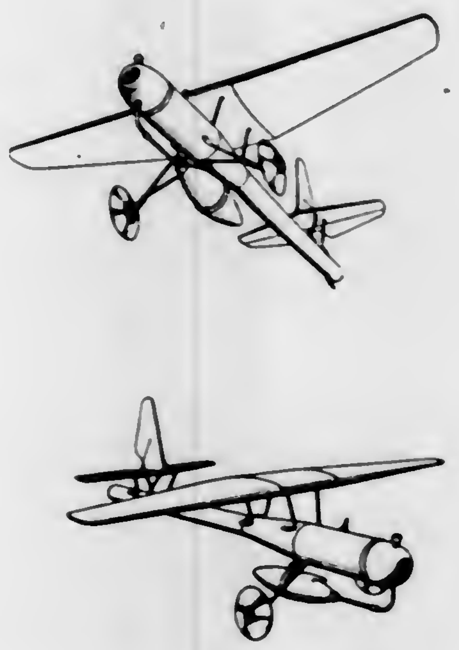
Joseph Hackley, Stoke-on-Trent, England
Application July 18, 1946, Serial No. 131,669
In Great Britain April 16, 1946
Term of patent 7 years
(Cl. D44—15)



The ornamental design for a dinner plate, as shown.

146,941
DESIGN FOR A MODEL AIRPLANE

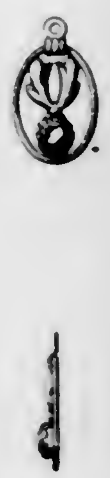
Alfred Julius Klose, Rolling Hills, Calif., assignor to G. M. Giannini & Co. Inc., New York, N. Y., a corporation of New York
Application March 18, 1946, Serial No. 127,619
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a model airplane, as shown.

146,942
DESIGN FOR A PENDANT

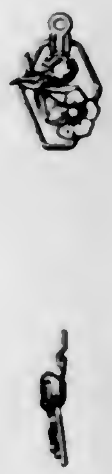
George J. Lederer, Providence, R. I.
Application February 12, 1946, Serial No. 126,503
Term of patent 3½ years
(Cl. D45—15)



The ornamental design for a pendant, as shown.

146,943
DESIGN FOR A PENDANT

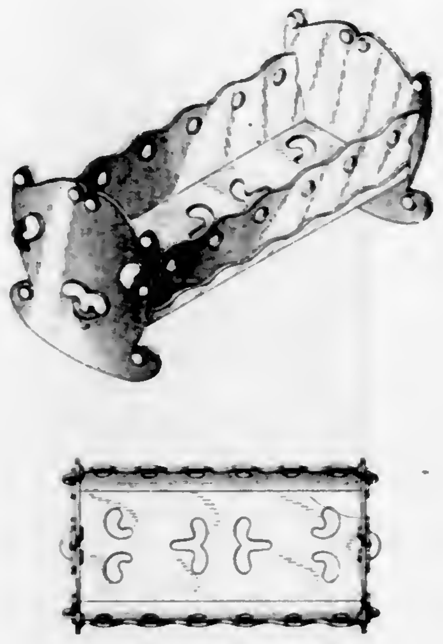
George J. Lederer, Providence, R. I.
Application February 12, 1946, Serial No. 126,507
Term of patent 3½ years
(Cl. D45—15)



The ornamental design for a pendant, as shown.

146,944
DESIGN FOR A DOLL'S CRADLE

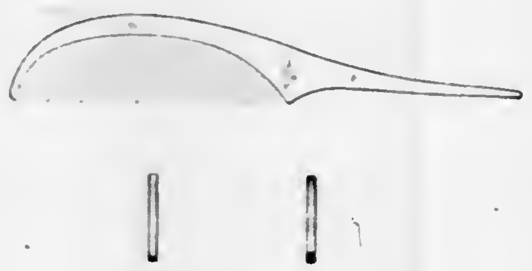
Frank A. Lisi, Philadelphia, Pa.
Application January 17, 1946, Serial No. 125,668
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a doll's cradle, substantially as shown and described.

146,945
DESIGN FOR A COMB WITH HANDLE

Eugene J. Lux, New York, N. Y., assignor to Columbia Protektosite Company, Inc., Carlstadt, N. J., a corporation of New Jersey
Application May 18, 1946, Serial No. 129,968
Term of patent 7 years
(Cl. D86—8)

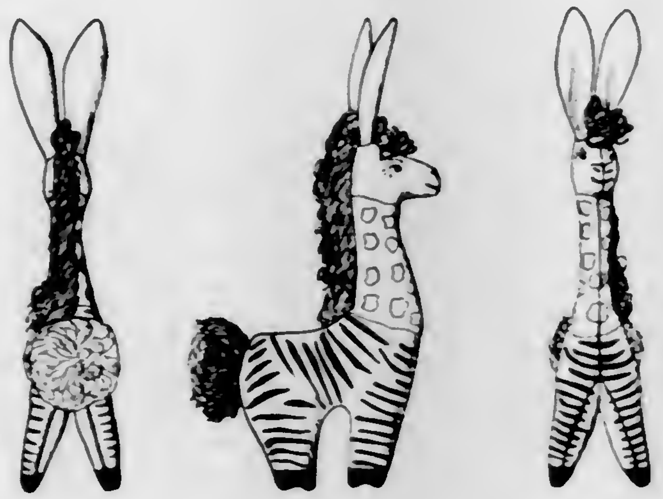


The ornamental design for a comb with handle, substantially as shown and described.

146,946

DESIGN FOR A FIGURE TOY

Jeanette F. Mitchell and Susan S. Brown,
Portsmouth, Va.
Application October 28, 1946, Serial No. 134,320
Term of patent 3½ years
(Cl. D34—2)

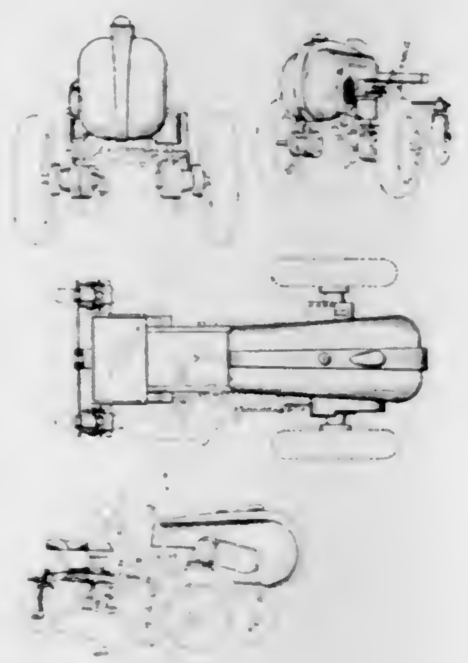


The ornamental design for a figure toy, substantially as shown.

146,947

DESIGN FOR A TRACTOR

Herbert C. Roths, Alpena, Mich.
Application August 24, 1945, Serial No. 124,956
Term of patent 14 years
(Cl. D14—3)

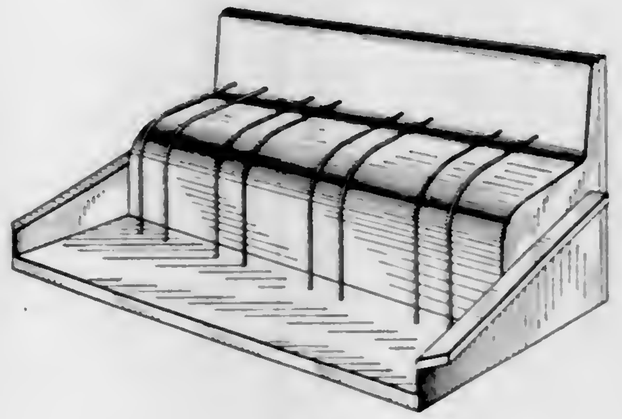


The ornamental design for a tractor, as shown and described.

146,948

DESIGN FOR A CARD FILE

Frank H. Saltz, La Crosse, Wis.
Application July 2, 1946, Serial No. 131,283
Term of patent 14 years
(Cl. D74—2)

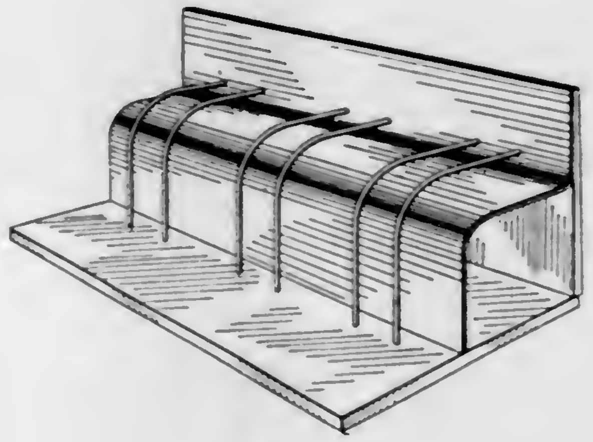


The ornamental design for a card file, as shown.

146,949

DESIGN FOR A CARD FILE

Frank H. Saltz, La Crosse, Wis.
Application July 11, 1946, Serial No. 131,477
Term of patent 14 years
(Cl. D74—2)

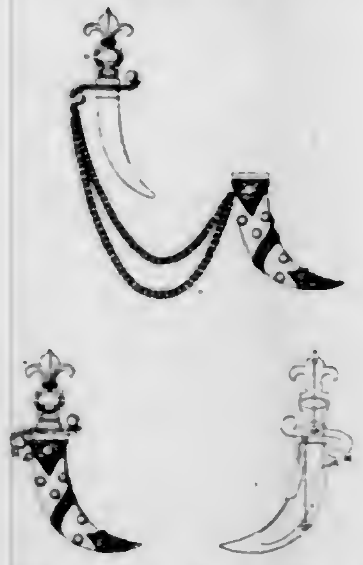


The ornamental design for a card file, as shown.

146,950

DESIGN FOR A PIN OR SIMILAR ARTICLE

Murray Slater, Brooklyn, N. Y.
Application June 14, 1946, Serial No. 130,711
Term of patent 3½ years
(Cl. D45—19)

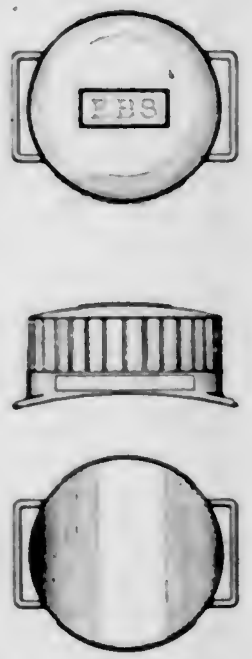


The ornamental design for a pin or similar article, as shown and described.

146,951

DESIGN FOR A BATHER'S COSMETICS BOX OR SIMILAR ARTICLE

Ervin B. Steinberg, Wilwaukee, Wis.
Application July 6, 1946, Serial No. 131,348
Term of patent 7 years
(Cl. D86—10)

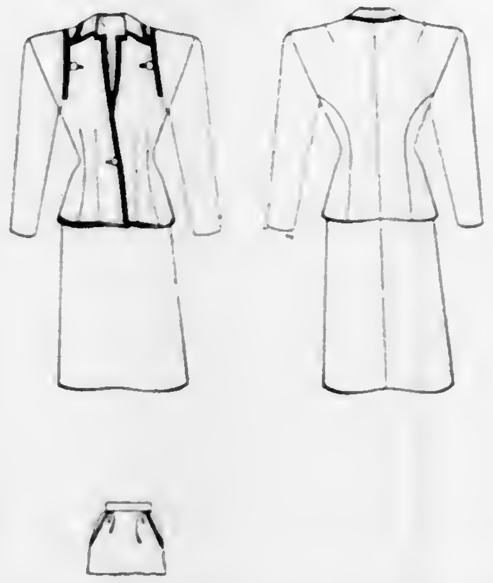


The ornamental design for a bather's cosmetics box or similar article, substantially as shown and described.

146,952

DESIGN FOR A SUIT

Jane Walker, New York, N. Y.
Application November 20, 1946, Serial No. 134,930
Term of patent 3½ years
(Cl. D3—4)

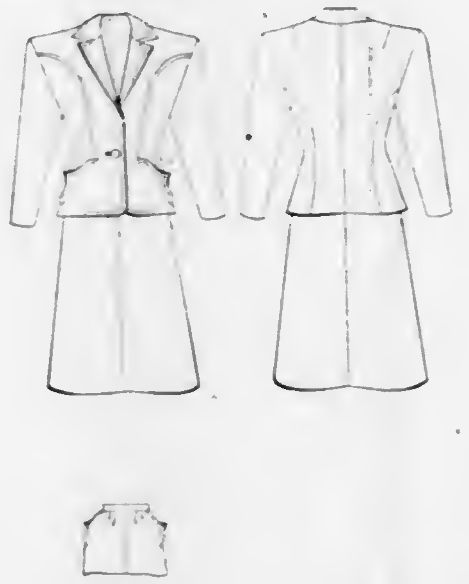


The ornamental design for a suit, substantially as shown and described.

146,953

DESIGN FOR A SUIT

Jane Walker, New York, N. Y.
Application November 20, 1946, Serial No. 134,934
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown and described.

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
W. AVERELL HARRIMAN, *Secretary*

U. S. Patent Office
CASPER W. OOMS, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

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Reissues	3—No.	22,891 to No.	22,893, inclusive
Patents	426—No.	2,422,650 to No.	2,423,075, inclusive
Designs	48—No.	146,954 to No.	147,001, inclusive
Total	712		

Patents expiring: Patent Numbers 1,765,359 to 1,768,532 inclusive, issued June 24, 1930, expire June 24, 1947

Condition of Applications Under Examination at Close of Business June 6, 1947

(Total number of applications awaiting action, excluding Trade-Mark Division, 146,305; Trade-Mark Division, 13,385. Oldest new case, August 13, 1945; oldest amended, August 3, 1945.)

(The dates given are 1946 except where * indicates 1945 and † indicates 1947.)

DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	*Oct. 8	*Nov. 30	2,917
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	*Oct. 23	*Oct. 26	3,550
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus)	Jan. 15	*Dec. 29	1,732
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying, and Ice Harvesting.	Jan. 8	Feb. 2	3,059
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	*Aug. 13	*Aug. 3	3,803
6. SURLE, H., Carbon Chemistry (part)	May 17	Apr. 11	1,883
7. HANLIN, GEORGE, Optics, Photography	June 12	June 17	2,002
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	*Dec. 10	Jan. 14	3,788
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	*Nov. 1	*Nov. 10	2,135
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Jan. 11	Jan. 31	1,400
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Sept. 5	Aug. 24	815
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Jan. 15	Jan. 12	2,693
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	*Oct. 6	*Oct. 10	2,235
14. FREEHOF, H. B., Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Mar. 26	Apr. 1	1,363
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	*Sept. 19	*Sept. 11	1,997
16. LOVEWELL, N. N., Telegraphy; Telephony	Mar. 27	Apr. 8	1,292
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Jan. 29	Jan. 24	1,355
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	*Oct. 13	*Oct. 9	1,669
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Mar. 22	Apr. 2	1,741
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	*Oct. 31	*Nov. 7	2,286
21. THOMPSON, T. J., Textiles	July 22	Sept. 23	902
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	*Dec. 18	*Dec. 19	1,851
23. LEWIS, J. B., Cash Registers; Calculators (part)	*Dec. 13	*Dec. 17	1,087
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Oct. 15	Oct. 22	1,663
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Jan. 8	Jan. 11	1,787
26. YOUNG, R. R., Electricity—Generation and Motive Power	*Dec. 6	*Dec. 3	2,210
27. JAMES, S., Brushing, Scrubbing; Fluid Treatment of Textiles (Apparatus); Liquid Treatment of Solids; General Cleaning; Ironing; Brush, Broom and Mop Making.	Jan. 25	Jan. 10	2,494
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons.	*Nov. 1	*Oct. 31	1,240
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	Jan. 16	Jan. 16	2,685
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Feb. 13	Feb. 12	2,531
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons; Halogenated Hydrocarbons; Hydrogenation of Carbon Oxides.	July 18	July 9	978
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Jan. 5	*Dec. 27	2,467
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.	*Nov. 14	*Nov. 8	3,256
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	Jan. 5	Jan. 25	1,356
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Jan. 14	Feb. 27	2,344
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	*Nov. 7	*Nov. 16	1,879
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 6	Mar. 26	1,609
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions; Rubber; Ornamentation	May 4	Apr. 2	1,372
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	*Sept. 25	*Sept. 17	2,688
40. DRUMMOND, E. J., Receptacles (part); Packages	*Dec. 6	Jan. 18	2,815
41. HERTZ, M., Typewriting Machines; Recorders; Counters, Calculators (part); Check-Controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles.	*Dec. 18	Feb. 1	781
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	June 11	July 17	1,060
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	May 6	July 8	1,077
44. HARVEY, L. P., Refrigeration; Preserving	*Oct. 31	*Oct. 8	1,417
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	*Dec. 1	*Dec. 6	2,396
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Feb. 20	Mar. 18	1,814
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Feb. 18	Mar. 8	2,959
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	*Nov. 19	*Nov. 23	1,878
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Feb. 23	Feb. 25	1,534
50. LEVIN, SAMUEL, Synthetic Resins	Apr. 12	Apr. 13	2,630
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	Jan. 23	Jan. 25	2,078
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Mar. 11	Mar. 26	3,407
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	*Dec. 3	*Nov. 6	3,966
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	Mar. 4	Mar. 5	2,149
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	*Nov. 19	*Dec. 3	1,951
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Acetylene; Gas Mixing	Apr. 25	Apr. 10	1,423
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	*Nov. 7	Jan. 5	3,224
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Mar. 30	Apr. 25	1,336
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	*Nov. 3	*Oct. 19	2,164
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	*Nov. 28	Apr. 17	2,039
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Boats, Buoys, Ships and Marine Propulsion.	*Dec. 29	Jan. 7	2,851
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	*Oct. 1	Sept. 13	4,117
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Feb. 5	Jan. 8	2,128
64. NASH, P. M., Compositions—Coating or Plastic (part), Fuel and Miscellaneous	May 4	Apr. 2	1,635
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	*Oct. 25	*Oct. 25	2,283
TRADE-MARKS: MERCHANT, J. H.	Aug. 9	Nov. 20	13,385
DESIGNS: BREHM, G. L. (Acting)	Mar. 6	†Jan. 4	9,059

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Druggists Syndicate, Inc., Long Island City, N. Y. Applicators. Serial No. 513,868; June 24. Class 44.

American Enka Corporation, Enka, N. C. Rayon yarns. Serial No. 507,792; June 24. Class 43.

Anaconda Wire and Cable Company, New York N. Y. Electric wires and cables. Serial No. 513,373; June 24. Class 21.

Andrews, Mildred H., doing business as Pixie Potters, Los Angeles, Calif. Ceramic figurines. Serial No. 500,046; June 24. Class 30.

Auto-Electric Supply Co., Inc., Tuckerman, Ark. Replacement terminals for electric automobile starters. Serial No. 513,604; June 24. Class 21.

Automatic Toy Company, Staten Island, N. Y. Plunger operated game. Serial No. 493,160; June 24. Class 22.

Avon Products, Inc., New York, N. Y. Lipstick, rouge and nail polish. Serial No. 508,777; June 24. Class 6.

A-Zee-O Products: *See*—
  Greenstein, Richard M.

B. and B. Publishing Company, San Francisco, Calif. Monthly periodical. Serial No. 506,913; June 24. Class 38.

B & W Coffee Company, Mobile, Ala. Coffee. Serial No. 511,135; June 24. Class 46.

Botany Worsted Mills, Passaic, N. J. Woolen piece goods. Serial No. 510,062; June 24. Class 42.

Brown-Bassman Co., New York, N. Y. Emulsified plastic coating composition. Serial No. 504,029; June 24. Class 16.

Buena Vista Vineyards, assignee: *See*—
  Inglenook Vineyard Co.

Burdsal, A., Company, The, Indianapolis, Ind. Ready-mixed paints. Serial No. 503,346; June 24. Class 16.

Burndy Engineering Company, Inc., New York, N. Y. Mixture containing metal particles. Serial No. 513,235; June 24. Class 21.

California Canners Associates, Los Angeles, Calif. Canned fruit juices. Serial No. 506,006; June 24. Class 46.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Periodical publications. Serial No. 503,866; June 24. Class 38.

Clearust: *See*—
  Johns Winthrop A.

Cleveland Steel Products Corporation, Cleveland, Ohio. Oil-burning heaters. Serial No. 516,397; June 24. Class 34.

Continental Laboratories, Chicago, Ill. Insecticides. Serial No. 508,513; June 24. Class 6.

Continental Products Company, New York, N. Y. Electric storage batteries. Serial No. 513,500; June 24. Class 21.

Couplings Incorporated, Baltimore, Md. Flexible gear shaft couplings. Serial No. 510, 426; June 24. Class 23.

Crucible Steel Company of America, New York, N. Y. High speed cutting tools, intermediate alloy steel cutting tools, drill rods, etc. Serial No. 500,288; June 24. Class 23.

Daumit, Kay, assignor, by mesne assignments, to Kathryn, Inc., Chicago, Ill. Perfume. Serial No. 489,716; June 24. Class 6.

Dodge & Olcott, Inc., New York, N. Y. Insectifuges. Serial No. 508,516; June 24. Class 6.

Dowd, E. Frederick, doing business as Golden Gate Remedies, Oakland, Calif. Corn eradicator preparation. Serial No. 484,395; June 24. Class 6.

Drug Products Co., Inc., Inc., The, New York and Long Island City, N. Y. Medicinal ointment preparation. Serial No. 508,032; June 24. Class 6.

Durabilt Mfg. Co. Aurora, Ill. Steel lockers; storage, wardrobe and filing cabinets, etc. Serial Nos. 476,834–5; June 24. Class 32.

Duriron Company, Inc., The, Dayton, Ohio. Pumps, steam ejectors, factory equipment, etc. Serial No. 480,745; June 24. Class 23.

Durite Corporation, Detroit, Mich. Hair tonics, hand lotions, tooth cleansing pastes, etc. Serial No. 491,248; June 24. Class 6.

Duro-Test Corporation, North Bergen, N. J. and elsewhere. Electrical space heating apparatus. Serial No. 489,504; June 24. Class 21.

Electra Manufacturing Company, Kansas City, Mo. Voltage regulators, head light relays, horn relays, etc. Serial No. 513,559; June 24. Class 21.

Fleissig, Gustav, doing business as Fly-Sig Toy Company, Long Beach, Calif. Floating fish-like toys. Serial No. 515,397; June 24. Class 22.

Fly-Sig Toy Company: *See*—
  Fleissig, Gustav.

Foreman Fabrics Corp., New York, N. Y. Woven textile fabrics. Serial Nos. 507,389–10; June 24. Class 42.

Foster, Benjamin, Company, Philadelphia, Pa. Ready mixed paints and paint primers. Serial No. 503,510; June 24. Class 16.

General Looms Co.: *See*—
  Zook, Nathan.

Golden Gate Remedies: *See*—
  Dowd, E. Frederick.

Grand Products Co., Chicago, Ill. Perfume dispensers. Serial Nos. 513,883–4; June 24. Class 28.

Greenstein, Richard M., doing business as A-Zee-O Products, Folcroft, Pa. Ointment. Serial No. 508,377; June 24. Class 6.

Haack Laboratories Inc., Portland, Oreg. Prophylactic tablets. Serial No. 506,868; June 24. Class 6.

Hemisphere Fabrics Corporation, New York, N. Y. Piece goods of silk, wool, cotton etc. Serial No. 496,705; June 24. Class 42.

Hiles, M. F., doing business as Hiles Plating and Art Metal Works Co., Kansas City, Mo. Oxidizing fluid. Serial No. 503,203; June 24. Class 6.

Hiles Plating and Art Metal Works Co.: *See*—
  Hiles, M. F.

Hospital Accessories Company, Brooklyn, N. Y. Hypodermic needles, hypodermic syringes, surgical blades, etc. Serial No. 513,247; June 24. Class 44.

Hudnut, Richard, New York, N. Y. Cleansing creams, sachet powder, leg makeup, etc. Serial No. 493,598; June 24. Class 6.

Inglenook Vineyard Co., Rutherford, assignor to Buena Vista Vineyards, Sonamo, Calif. Wines. Serial Nos. 508,531–2; June 24. Class 47.

Inhalatum Chemical Co.: *See*—
  Onufrock, Mildred J.

Instant Products Company, Inc., Buffalo, N. Y. Liquid polishes. Serial No. 499,952; June 24. Class 16.

Joell Mfg. Co.: *See*—
  Stalin, Joseph.

Johns, Winthrop A., doing business as Clearust, North Plainfield, N. J. Chemical for removing, and for inhibiting the formation of, rust and scale. Serial No. 503,453; June 24. Class 6.

Kathryn, Inc.: *See*—
  Daumit, Kay.

Kerr Dental Manufacturing Company, Detroit, Mich., now by change of name to Kerr Manufacturing Company. Investment compounds of ceramic nature. Serial No. 491,482; June 24. Class 1.

Kerr Manufacturing Company: *See*—
  Kerr Dental Manufacturing Company.

Kinney, G. R., Co. Inc., New York, N. Y. Men's work shoes. Serial No. 497,940; June 24. Class 39.

Kirker Chemical Company, Paterson, N. J. Lacquers, alkyd enamels and varnishes. Serial No. 504,619; June 24. Class 16.

Lamos, Lloyd A., doing business as Mid-West Food Products Company, Grand Rapids, Mich. Skim-milk chocolate base product. Serial No. 509,944; June 24. Class 46.

Les Laboratoires de la Jeunesse S. A. R. L., Paris, France. Skin lotion, bath salts, leg make-up, etc. Serial No. 500,671; June 24. Class 6.

Les Parfums Verchere (Parfums Jerome) Societe à Responsabilitee Limitee, Paris, France. Perfumes, toilet waters, and eau de cologne. Serial No. 502,645; June 24. Class 6.

Lewis, Mary G., Philadelphia, Pa. Lamp shades. Serial No. 495,246; June 24. Class 34.

Likins, P. F., doing business as P. F. Likins Co., Chula Vista, Calif. Fresh vegetables. Serial No. 510,848; June 24. Class 46.

Likins, P. F., Co.: *See*—
  Likins, P. F.

Lion Cleaners, Englewood, N. J., Moth crystals. Serial No. 503,165; June 24. Class 6.

MB Manufacturing Company, Inc., The, New Haven, Conn. Engine mounts. Serial No. 511,750; June 24. Class 23.

Maas & Waldstein Company, Newark, N. J. Coating compositions. Serial No. 499,906; June 24. Class 16.

Marco Importing Co., Chicago, Ill. Whiskeys. Serial No. 468,525; June 24. Class 49.

Markle Brothers Limited, Toronto, Ontario, Canada. Hand knitting yarns. Serial No. 505,116; June 24. Class 43.

Martin, Harold L., doing business as Styl-O-Matic Co., Culver City, Calif. Fountain pens. Serial No. 508,663; June 24. Class 37.

Metallizing Engineering Co. Inc., Long Island City, N. Y. Electrical apparatus. Serial No. 513,832; June 24. Class 21.

Mid-West Food Products Company: *See*—
  Lamos, Lloyd A.

Mohawk Marine Motors, Inc., Garfield, N. J. Marine motors and parts thereof. Serial No. 511,492; June 24. Class 23.

Monsanto Chemical Company, St. Louis, Mo. Chemical toxicants. Serial No. 505,974; June 24. Class 6.

National Rifle Association of America, Washington, D. C. Pamphlets. Serial No. 506,336; June 24. Class 38.

Nebraska Consolidated Mills Co., Omaha, Nebr. Wheat flour. Serial No. 506,468; June 24. Class 46.

New York Quinine and Chemical Works, Inc., Brooklyn, N. Y. Fungicide preparation. Serial No. 502,764; June 24. Class 6.

Nicolet, Pierre, Tremelan-Dessus, Switzerland. Watches and parts of watches. Serial No. 514,667; June 24. Class 27.

North American Products Company, Inc., Wayne, Mich. Fish bait casting rods. Serial No. 515,674; June 24. Class 22.

Oakite Products, Inc., New York, N. Y. Non-saponaceous cleaning preparation. Serial No. 507,687; June 24. Class 4.

Onufrock, Mildred J., doing business as Inhalatum Chemical Co., Colorado Springs, Colo. Inhalant. Serial No. 497,266; June 24. Class 6.

Owens Yacht Company, Baltimore, Md. Paints, varnishes, lacquers, etc. Serial No. 486,866; June 24. Class 16.

Perfumes Habana, S. A., Habana, Cuba. Perfumes, eau de cologne, rouges, etc. Serial No. 483,447; June 24. Class 6.

Perfumes Habana, S. A., Habana, Cuba. Perfumes, eau de cologne, face and bath powders, etc. Serial No. 485,541; June 24. Class 6.

Phillips, Frank, doing business as Frank Phillips Company, New York, N. Y. Worsted knitted fabrics. Serial No. 507,689; June 24. Class 42.

Phillips, Frank, Company: *See*—
Phillips, Frank.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 513,217; June 24. Class 46.

Pixie Potters: *See*—
Andrews, Mildred H.

Pond's Extract Company, New York, N. Y., and elsewhere. Toilet and cosmetic products. Serial No. 480,378; June 24. Class 6.

Powell, Jake C., doing business as Pure Paint Producers, Greenville, Tex. Ready mixed paints. Serial No. 505,232; June 24. Class 16.

Products Development & Manufacturing Co., The, Cleveland, Ohio. Fishing rods. Serial No. 516,866; June 24. Class 22.

Pure Paint Producers: *See*—
Powell, Jake C.

Ray, Anne B., Raleigh, N. C. Liquid furniture polish, liquid automobile polisher and cleaner, and floor polishing oil. Serial No. 500,572; June 24. Class 16.

Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic organic chemicals. Serial No. 507,693; June 24. Class 6.

Rit Products Corporation, Chicago, Ill. Shampooing preparations. Serial No. 488,973; June 24. Class 6.

Robeson Rochester Corporation, Rochester, N. Y. Various electrical appliances. Serial No. 510,404; June 24. Class 21.

Rosens, Edmond, Paris, France. Perfumes, toilet waters, rouge, etc. Serial No. 504,454; June 24. Class 6.

Ross & Roberts, Inc., West Haven, Conn. Transparent or translucent vinyl plastic film. Serial No. 499,077; June 24. Class 42.

Schaper, William H., Robbinsdale, Minn. Games played with dice, etc. Serial No. 479,992; June 24. Class 22.

Sealy, Incorporated, Chicago, Ill. Mattresses and box springs. Serial No. 509,958; June 24. Class 32.

Sebel, D., & Co., Ltd., London, England. Mechanical toys. Serial No. 497,822; June 24. Class 22.

Seco Products Company, Toledo, Ohio. Washing and general cleaning powder. Serial No. 498,563; June 24. Class 4.

Societe des Usines Chimiques, Rhone-Poulenc, Saint-Fons, France. Pharmaceutical and veterinary products. Serial Nos. 458,480–1; June 24. Class 6.

Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris, France. Perfumes. Serial No. 506,843; June 24. Class 6.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Wax polishing compositions. Serial No. 500,141; June 24. Class 16.

Southeastern Chemical Company, Inc., Atlanta, Ga. Cream furniture polish, automobile polish, floor oil, etc. Serial No. 504,005; June 24. Class 16.

Southon Laboratories Limited, London, England. Ointment. Serial No. 497,825; June 24. Class 6.

Stalin, Joseph, doing business as Joeil Mfg. Co., Seattle, Wash. Garden rakes. Serial No. 509,964; June 24. Class 23.

Stewart-Warner Corporation, Chicago, Ill. Radio receivers. Serial No. 513,222; June 24. Class 21.

Styl-O-Matic Co.: *See*—
Martin, Harold L.

Sun Oil Company, Philadelphia, Pa. Plasticizer. Serial No. 508,625; June 24. Class 6.

Sunray Electric, Inc., Warren, Pa. Electric dry batteries, electric fluorescent lamps, electric fluorescent starters, etc. Serial No. 507,550; June 24. Class 21.

Suzanne Golding, New York, N. Y. Wrinkle inhibitors. Serial No. 503,899; June 24. Class 44.

Thonet Brothers, Inc., New York, N. Y. Barbers' armchairs, bedroom suites, bedsteads, etc. Serial No. 503,773; June 24. Class 32.

Tiscione, Anthony, Brooklyn, N. Y. Electric lamp sockets and electrically illuminated artificial Christmas trees. Serial No. 513,348; June 24. Class 21.

Tranm, David, Company, Incorporated, New York, N. Y. Electric irons. Serial No. 512,053; June 24. Class 21.

Tudor Metal Products Corporation, Brooklyn, N. Y. Toy banks. Serial No. 517,217; June 24. Class 22.

Vitalic Battery Company, Inc., Dallas, Tex. Storage batteries. Serial No. 513,078; June 24. Class 21.

Warner, William R., & Co., Inc., New York, N. Y. Medicinal preparation. Serial No. 507,950; June 24. Class 6.

Waterman Products Company, Incorporated, Philadelphia, Pa. Radio and electronic sound, recording, transcribing, and transmitting apparatus. Serial No. 503,961; June 24. Class 21.

Wenzel, H., Tent & Duck Co., assignor to H. Wenzel Tent & Duck Co., St. Louis, Mo. Tarpaulins. Serial No. 500,502; June 24. Class 50.

White, H. Kirk, and Company, Oconomowoc, Wis. Copper paints. Serial No. 503,406; June 24. Class 16.

Wilbur & Williams Paint Corporation, The, Boston, Mass. Ready-mixed paints, paint enamels, and paint wall finish. Serial No. 469,801; June 24. Class 16.

Zane, Ernest, doing business as Zane Mfg. Co., Cambridge, Mass. Fluorescent lighting fixture. Serial No. 511,719; June 24. Class 21.

Zane Mfg. Co.: *See*—
Zane, Ernest.

Zenith Radio Corporation, Chicago, Ill. Radio receiving sets and parts thereof. Serial No. 513,599; June 24. Class 21.

Zook, Nathan, doing business as General Looms Co., New York, N. Y. Window curtains, draperies, bedspreads, etc. Serial No. 504,817; June 24. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Measuring tools. 430,741; June 24; Serial No. 493,877; published Apr. 8, 1947. Class 26.

All Aluminum Door Company, Chicago, Ill. Garage doors. 430,833; June 24; Serial No. 510,923; published Apr. 8, 1947. Class 12.

Alpha Chemical Company, to Alpha Chemical Co. Inc., Baltimore, Md. Liquid cleaning compound. 223,234; renewed Jan. 25, 1947. O. G. June 24, 1947. Class 4.

Alpha Chemical Co. Inc.: *See*—
Alpha Chemical Company.

Alymp-Ol Soap & Chemical Co., Taunton, Mass. Furniture polish. 430,858; June 24. Class 16.

American Bitumuls Company, Wilmington, Del., and San Francisco, Calif. Periodical publications. 430,737; June 24; Serial No. 493,035; published Mar. 11, 1947. Class 38.

American Cyanamid Company, New York, N. Y. Natural Florida phosphate. 430,768; June 24; Serial No. 501,225; published Mar. 25, 1947. Class 10.

American Industrial Chemical Co., Inc., Indianapolis, Ind. Soapless cleaning compounds. 430,731; June 24; Serial No. 491,306; published Apr. 1, 1947. Class 4.

American Pictorial Service, Inc., Newark, N. J. Photographic prints. 430,754; June 24; Serial No. 497,766; published Mar. 18, 1947. Class 38.

Anaconda Wire and Cable Company, New York, N. Y. Lead and lead alloy sheaths and sleeves. 430,828; June 24; Serial No. 508,831; published Apr. 8, 1947. Class 21.

Anheuser-Busch Brewing Association, to Anheuser-Busch, Inc., St. Louis, Mo. Beer. 64,125; re-renewed July 23, 1947. O. G. June 24. Class 48.

Anheuser-Busch, Inc.: *See*—
Anheuser-Busch Brewing Assocation.

Applebaum, Milton, doing business as Safecover Company, New York, N. Y. Gas range burner valve controls. 430,761; June 24; Serial No. 499,189; published Mar. 11, 1947. Class 34.

Archer Rubber Company, Milford, Mass. Rubber fabric in the piece. 226,275; renewed Apr. 5, 1947. O. G. June 24. Classes 50 and 42.

Argus Manufacturing Company, Chicago, Ill. Ventilating equipment. 430,837; June 24; Serial No. 512,953; published Apr. 1, 1947. Class 34.

Armstrong Cork Company, Manheim Township, Pa. Hard surfaced floor covering. 430,803; June 24; Serial No. 504,732; published Mar. 25, 1947. Class 20.

Associated Products, Inc., Chicago, Ill. Manicure implement sets, manicure scissors, nail files, etc. 430,756; June 24; Serial No. 498,483; published Apr. 8, 1947. Class 44.

Autographic Register Company, Hoboken, N. J. Plain, lithographed, and printed paper strips, leaves, and sheets. 221,578; renewed Dec. 7, 1946. O. G. June 24. Class 37.

Autographic Register Company, Hoboken, N. J. Plain, lithographed, and printed paper strips, leaves, and sheets. 221,601; renewed Dec. 7, 1946. O. G. June 24. Class 37.

Babcock & Wilcox Company, The, New York, N. Y. Firebrick, insulating firebrick, and refractory materials. 430,739; June 24; Serial No. 493,474; published Mar. 25, 1947. Class 12.

Bamberger, L., & Co., Newark, N. J. Window curtains, drapes, and fabric upholstery coverings in the piece. 430,751; June 24; Serial No. 497,363; published Apr. 8, 1947. Class 42.

Beatrice Creamery Company, Chicago, Ill., now by change of name to Beatrice Foods Co., Dover, Del. Eggs. 430,713; June 24; Serial No. 477,051; published Apr. 8, 1947. Class 46.

Beatrice Foods Co.: *See*—
Beatrice Creamery Company.

Bergman, Jack H., New York, N. Y. Phonograph records and phonograph record blanks. 430,717; June 24; Serial No. 483,016; published Sept. 11, 1945. Class 36.

Betz, Incorporated, Seattle, Wash. Seasonal-topic transparent prints. 430,796; June 24; Serial No. 503,862; published Apr. 1, 1947. Class 38.

Bird and Bottle Limited, The, Phillipstown and Garrison, N. Y. Coffee. 430,816; June 24; Serial No. 506,575; published Apr. 8, 1947. Class 46.

Blum's, San Francisco, assignor to Blum's, San Francisco, Calif. Candies, cakes, pastries, and ice cream. 430,851; June 24. Class 46.

Blum's, San Francisco, assignor to Blum's, San Francisco, Calif. Candies. 430,852–4; June 24. Class 46.

Bomze, Jacob, Detroit, Mich. Bowling balls. 430,876; June 24. Class 22.

Brown & Bigelow, St. Paul, Minn. Art prints and publications. 430,724; June 24; Serial No. 487,763; published Mar. 25, 1947. Class 38.

Brown, Frank R., El Centro, Calif. Melons. 430,805; June 24; Serial No. 504,879; published Apr. 8, 1947. Class 46.

Bryant Heater Company: *See*—
Bryant Heater & Manufacturing Company, The.

Bryant Heater & Manufacturing Company, The, to Bryant Heater Company, Cleveland, Ohio. Water heaters, boilers, and warm-air furnaces. 221,622; renewed Dec. 7, 1946. O. G. June 24. Class 34.

Bryce Plastic Industries: *See*—
Bryce, Ruth F.

Bryce, Ruth F., doing business as Bryce Plastic Industries, Los Angeles, Calif. Plastic merchandise display fixtures, plastic merchandise display racks, etc. 430,855; June 24. Class 32.

Business News Publishing Company, Detroit, Mich. Printed books. 430,752; June 24; Serial No. 497,449; published Apr. 1, 1947. Class 38.

Calcutta Club Products, Inc., New York, N. Y. Canned onion soup. 430,857; June 24. Class 46.

Calder, Caesar A., doing business as Time Savers, Montclair, N. J. Devices for the laundry. 430,726; June 24; Serial No. 489,791; published Mar. 4, 1947. Class 24.

Canadian Forest Products Limited, New Westminster, British Columbia, Canada. Veneer for making plywood and plywood made of laminated veneers. 430,815; June 24; Serial No. 505,936; published Apr. 8, 1947. Class 12.

Carfa A. G. Fabrik Chemisch-Technischer Bureaumaterialien, Bern, Switzerland. Carbon papers and typewriter ribbons. 430,763; June 24; Serial No. 500,143; published Apr. 8, 1947. Class 11.

Chapman & Smith Company, Chicago, Ill. Almond paste, pie filling, food flavoring extracts, etc. 430,706; June 24; Serial No. 434,553; published May 21, 1946. Class 46.

Cinatol Co., The: *See*—
Hacker, Edward C.

Clark, D. L., Company, The, Pittsburgh, Pa. Candies. 430,806; June 24; Serial No. 505,184; published Apr. 8, 1947. Class 46.

Consolidated Textile Co., Inc.: *See*—
Consolidated Textile Corporation.

Consolidated Textile Corporation to Consolidated Textile Co., Inc., New York, N. Y. Plain white or dyed cotton printed piece goods. 223,814; renewed Feb. 8, 1947. O. G. June 24. Class 42.

Cook, H. C., Company, The, Ansonia, Conn. Finger-nail clippers. 62,067; re-renewed Apr. 16, 1947. O. G. June 24. Class 44.

Corona Mfg. Co.: *See*—
Elias, Senta.

Cudahy Packing Company, The, Chicago, Ill., and South Omaha, Nebr., to The Cudahy Packing Company, Chicago, Ill. Soap-powder. 59,183; re-renewed Jan. 1, 1947. O. G. June 24. Class 4.

Day & Night Manufacturing Company, Monrovia, Calif. Gas consuming space heaters. 430,718; June 24; Serial No. 483,364; published Apr. 1, 1947. Class 34.

De Kurowski, Juljan B., London, England. Clocks. 430,809; June 24; Serial No. 505,288; published Mar. 25, 1947. Class 27.

De Lisser Manufacturing Corp., New Rochelle, N. Y. Electric household appliances. 430,821; June 24; Serial No. 507,101; published Apr. 8, 1947. Class 21.

Demain Foods Incorporated, Ayden, N. C. Bottled pickles, bottled pimentos, and bottled dill chips. 430,863; June 24. Class 46.

Diehl Research Laboratories, Ltd., Los Angeles, Calif. Vaginal syringes. 430,762; June 24; Serial No. 499,324; published Apr. 8, 1947. Class 44.

Diversey Corporation, The, assignee: *See*—
Trojan Products & Mfg. Co.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Crucibles and furnace covers. 430,835; June 24; Serial No. 511,802; published Apr. 8, 1947. Class 34.

Dorzar Toy Studios Inc., New York, N. Y. Toy luminous animals. 430,755; June 24; Serial No. 498,275; published Apr. 8, 1947. Class 22.

Dow Corning Corporation, Midland, Mich. Organosilicon insulating materials of high dielectric strength. 430,825; June 24; Serial No. 508,583; published Apr. 1, 1947. Class 21.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Fertilizers. 430,778; June 24; Serial No. 502,503; published Mar. 25, 1947. Class 10.

Duriron Company, Inc., The, Dayton, Ohio. Nickel alloys and unfinished articles. 430,747; June 24; Serial No. 496,215; published Apr. 8, 1947. Class 14.

Eagle Lock Company, The, Terryville, Conn. and Chicago, Ill. Cabinet locks. 430,722; June 24; Serial No. 485,632; published Mar. 18, 1947. Class 25.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Electric illuminator for transparencies. 430,748; June 24; Serial No. 496,769; published Apr. 8, 1947. Class 21.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquer. 225,590; renewed Mar. 22, 1947. O. G. June 24. Class 16.

Elias, Senta, doing business as Corona Mfg. Co., New York, N. Y. Simulated pearls and costume jewelry. 430,820; June 24; Serial No. 506,742; published Mar. 25, 1947. Class 28.

Engelhardt, A. L., Company, Los Angeles, Calif. Dental gold solder. 430,832; June 24; Serial No. 510,240; published Apr. 8, 1947. Class 44.

Eureka Fire Hose Company, Jersey City, N. J., to United States Rubber Company, New York, N. Y. Fabric hose. 58,237–8; re-renewed Dec. 11, 1946. O. G. June 24. Class 35.

Euston Lead Company, Scranton, Pa., to The Glidden Company, Cleveland, Ohio. Ready-mixed and prepared paints. 222,982; renewed Jan. 11, 1847. O. G. June 24. Class 16.

Farmers Feed & Produce, Council Bluffs, Iowa. Poultry, cattle and hog feeds composed of egg mash. 430,766; June 24; Serial No. 500,533; published Apr. 8, 1947. Class 46.

Farquhar Furnace Company, The, Wilmington, Ohio. Coal, oil, and gas burning furnaces. 430,824; June 24; Serial No. 508,278; published Mar. 25, 1947. Class 34.

Fergusson, Alexander C., Philadelphia, Pa. Liquid soap. 226,499; renewed Apr. 12, 1947. O. G. June 24. Class 4.

Fessler, Albert L., doing business as Klee Laboratories, Indianapolis, Ind. Eyeglass cleaner. 430,839; June 24; Serial No. 515,982; published Apr. 8, 1947. Class 4.

Formetal Company, Alliance, Ohio, now by change of name The Taylor Corporation. Domestic clothes washing machine. 430,861; June 24. Class 24.

Foundry Rubber Compounds Corporation, Washington, D. C. Paint in ready mixed form. 430,842; June 24. Class 16.

Frost Paint & Oil Corporation, Minneapolis, Minn. Printing ink vehicle. 430,764; June 24; Serial No. 500,169; published Apr. 1, 1947. Class 11.

Gale, Harvey T., doing business as Gaylin Jewelry, New York, N. Y. Finger rings, bracelets, brooches, etc. 430,869; June 24. Class 28.

Game Creations, Inc., New York, N. Y. Board game. 430,840; June 24; Serial No. 516,124; published Apr. 8, 1947. Class 22.

Gaylin Jewelry: *See*—
Gale, Harvey T.

General Utilities Corporation, Philadelphia, Pa. Fuel oil-burning boilers and burners, and pumps and tanks. 430,817; June 24; Serial No. 506,596; published Mar. 25, 1947. Class 34.

General Utilities Corporation, Philadelphia, Pa. Oil burners, oil boilers, oil furnaces, etc. 430,818; June 24; Serial No. 506,597; published Mar. 25, 1947. Class 34.

Genero, Leon C., doing business as Genero Machine Works, Long Beach, Calif. Toy sewing machines. 430,779; June 24; Serial No. 502,512; published Apr. 8, 1947. Class 22.

Genero Machine Works: *See*—
Genero, Leon C.

Gilliam Candy Company, Paducah, Ky. Candy. 430,801; June 24; Serial No. 504,550; published Mar. 11, 1947. Class 46.

Glidden Company, The: *See*—
Euston Lead Company.

Golden Nugget Sweets, to Golden Nugget Sweets Ltd., San Francisco, Calif. Fudge and nougat. 226,721; renewed Apr. 19, 1947. O. G. June 24. Class 46.

Golden Nugget Sweets Ltd.: *See*—
Golden Nugget Sweets.

Goodwins, Inc., Los Angeles, Calif. Men's shoes, slippers, and sport shoes. 430,814; June 24; Serial No. 505,644; published Mar. 25, 1947. Class 39.

Goodyear Tire & Rubber Company, The: *See*—
Marathon Rubber Company, Inc.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires and tubes. 225,965; renewed Mar. 29, 1947. O. G. June 24. Class 35.

Hacker, Donald E.: *See*—
Hacker, Edward C.

Hacker, Edward C., doing business as The Cinatol Co., Hartford, to D. E. Hacker, Milwaukee, Wis. Medicinal compound. 223,613; renewed Feb. 8, 1947. O. G. June 24. Class 6.

Hammel-Dahl Company, Providence, R. I. Apparatus and equipment and parts thereof. 430,715; June 24; Serial No. 478,953; published Apr. 8, 1947. Class 26.

Hastings Wool Boot Company, Hastings, Mich., to United States Rubber Company, New York, N. Y. All-wool boots. 29,344; re-renewed Dec. 29, 1946. O. G. June 24. Class 39.

Hawthorne Laboratories: *See*—
Wagner, Raymond T.

Helfer & Co., Chicago, Ill. Finger rings and mountings therefor. 430,774; June 24; Serial No. 501,846; published Mar. 25, 1947. Class 28.

Help, Inc., Chicago, Ill. Sudsing cleaner, cleanser, and detergent. 430,773; June 24; Serial No. 501,738; published Apr. 1, 1947. Class 4.

Hercules Powder Company: *See*—
Laflin & Rand Powder Company.

Heywood-Wakefield Company, Gardner, Mass. Household and summer furniture both wood and upholstered, etc. 430,864; June 24. Class 32.

Higgins, Inc., New Orleans, La. Lumber. 430,807; June 24; Serial No. 505,200; published Mar. 18, 1947. Class 12.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically operated saws. 430,780; June 24; Serial No. 502,581; published Apr. 8, 1947. Class 21.

Hofford, Ellis J., doing business as Hofford Paint & Varnish Co., Carlstadt, N. J. Varnish-like material. 430,847; June 24. Class 16.

Hofford Paint & Varnish Co.: *See*—
Hofford, Ellis J.

Homasote Company, Inc., Fernwood, Ewing Township, Mercer County, N. J. Panels of composition fibrous material. 430,826; June 24; Serial No. 508,601; published Mar. 18, 1947. Class 12.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 227,029; renewed Apr. 26, 1947. O. G. June 24. Class 6.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Thermostat wafers, thermostat valves and thermometers. 430,874; June 24. Class 26.

Illinois Nut Produ[illegible] Co., to McGarry Nut Products Ltd., Chicago, Ill. Fr[illegible] nut meats. 227,003; renewed Apr. 26, 1947. O. G. June 24. Class 46.

Jackson, J., & Son, Brisbane, Australia. Toy native bears. 430,730; June 24; Serial No. 491,265; published Apr. 8, 1947. Class 22.

Jandor, Incorporated, Dayton, Ohio. Spotlights for use in scientific and medical laboratories. 430,808; June 24; Serial No. 505,206; published Apr. 8, 1947. Class 26.

Janney, Semple, Hill & Co., Minneapolis, Minn. Oil base paint. 430,871; June 24. Class 16.

King and Stallkamp, Delphos, Ohio. Preparation for the skin. 226,480; renewed Apr. 12, 1947. O. G. June 24. Class 6.

Klee Laboratories: *See*—
Fessler, Albert L.

Knoblock, Sebastian W., Los Angeles, Calif. Storage batteries. 430,732; June 24; Serial No. 491,577; published Apr. 8, 1947. Class 21.

Kroehler Mfg. Co., Naperville, Ill. Upholstered living room furniture. 430,860; June 24. Class 32.

L & N Plastic Co., New York, N. Y. Occasional tables, end tables, coffee tables, etc. 430,870; June 24. Class 32.

Laflin & Rand Powder Company, New York, N. Y., to Hercules Powder Company, Wilmington, Del. All kinds of powder used for shotgun, rifle, and small arms. 61,981–2; re-renewed Apr. 16, 1947. O. G. June 24. Class 9.

Laflin & Rand Powder Company, New York, N. Y., to Hercules Powder Company, Wilmington, Del. All kinds of powder used for shotgun, rifle, and small-arms. 61,984; re-renewed Apr. 16, 1947. O. G. June 24. Class 9.

Laflin & Rand Powder Company, New York, N. Y., to Hercules Powder Company, Wilmington, Del. All kinds of powder used for shotgun, rifle, and small-arms. 61,988; re-renewed Apr. 16, 1947. O. G. June 24. Class 9.

La Mode Chez Tappe, Inc., New York, N. Y. After-shaving lotion, toilet water, eau de cologne, etc. 430,845; June 24. Class 6.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Soap. 430,721; June 24; Serial No. 484,306; published Apr. 1, 1947. Class 4.

Lee, H. D., Company, Incorporated, The, Kansas City, Mo. Waistband overalls. 430,728; June 24; Serial No. 491,205; published Mar. 11, 1947. Class 39.

Lee, H. D., Company, Incorporated, The, Kansas City, Mo. Bib overalls, waistband overalls, jackets, etc. 430,729; June 24; Serial No. 491,206; published Mar. 11, 1947. Class 39.

Levey, Fred'k H., Co. Inc., New York, N. Y. Inks. 430,776; June 24; Serial No. 502,380; published Apr. 1, 1947. Class 11.

Levy, Victor H., Los Angeles, Calif. Veiling. 430,775; June 24; Serial No. 501,945; published Apr. 8, 1947. Class 42.

Lewis Knitting Company, Janesville, Wis. Athletic union suits and knitted fabric. 225,215; renewed Mar. 15, 1947. O. G. June 24. Class 39.

Libby Electric Company: *See*—
Libby, Jules L.

Libby, Jules L., doing business as Libby Electric Company, Elgin, Ill. Lighting fixtures and electric lamps. 430,794; June 24; Serial No. 503,820; published Apr. 8, 1947. Class 21.

Limoneira Company, Santa Paula, Calif. Fresh citrus fruits. 430,822; June 24; Serial No. 507,200; published Apr. 8, 1947. Class 46.

Lincoln, Ned, New York, N. Y. Dolls. 430,743; June 24; Serial No. 494,688; published Apr. 8, 1947. Class 22.

Lorenz Publishing Company, Dayton, Ohio. Monthly magazine. 226,682; renewed Apr. 19, 1947. O. G. June 24. Class 38.

Lorenz Publishing Company, Dayton, Ohio. Monthly magazine. 226,709–10; renewed Apr. 19, 1947. O. G. June 24. Class 38.

Lorenz Publishing Company, Dayton, Ohio. Monthly magazine. 226,802; renewed Apr. 19, 1947. O. G. June 24. Class 38.

Lowe, E. S., Company, Inc., New York, N. Y. Chess boards and chessmen. 430,759; June 24; Serial No. 498,784; published Apr. 8, 1947. Class 22.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections and syrups, or liquid concentrates. 430,810–13; June 24; Serial Nos. 505,421–4; published Apr. 8, 1947. Class 46.

Manhattan Soap Company, Inc., New York, N. Y. Soapless detergent. 430,787; June 24; Serial No. 503,302; published Apr. 1, 1947. Class 4.

Marandola, Antonio, doing business as Maria Pearl Novelty Co., Providence, R. I. Pearl necklaces; and brooches, earrings, etc. 430,846; June 24. Class 28.

Marathon Rubber Company, Inc., to The Goodyear Tire & Rubber Company, Akron, Ohio. Vehicle tires and tubes. 224,549; renewed Mar. 1, 1947. O. G. June 24. Class 35.

Marathon Rubber Company, Inc., to The Goodyear Tire & Rubber Company, Akron, Ohio. Soles and heels. 226,055; renewed Mar. 29, 1947. O. G. June 24. Class 39.

Maria Pearl Novelty Co.: *See*—
Marandola, Antonio.

Marquette Paper Co., Chicago, Ill. Bond paper and ledger paper. 227,106; renewed Apr. 26, 1947. O. G. June 24. Class 37.

Master Electric Company, The, Dayton, Ohio. Electric motors and parts thereof, and electric generators and parts thereof. 430,841; June 24; Serial No. 520,851. Class 21.

Maybrown, Leon, Woodmere, Long Island, N. Y. Toy wagons. 430,757; June 24; Serial No. 498,644; published Apr. 8, 1947. Class 22.

McCabe Paint & Varnish Co., Irvington, N. J. Paints and varnishes. 430,844; June 24. Class 16.

McCutcheon, James, & Company, New York, N. Y. Convertible davenport beds. 430,872; June 24. Class 32.

McGarry Nut Products Ltd.: *See*—
Illinois Nut Products Co.

McGill, Homer T., Houston, Tex. Putty. 430,829; June 24; Serial No. 509,021; published Mar. 18, 1947. Class 12.

Metalite, Inc., Meriden, Conn. Friction pyrophoric and catalytic cigar, cigarette, and pipe lighters, and parts for such lighters. 430,831; June 24; Serial No. 509,433; published Mar. 25, 1947. Class 34.

Mustee, E. L., & Sons, Cleveland, Ohio. Gas water heaters. 430,727; June 24; Serial No. 490,506; published Mar. 11, 1947. Class 34.

Myers, D. E., doing business as Earle Myers Co., Oceano, Calif. Fresh vegetables. 430,769; June 24; Serial No. 501,262; published Apr. 1, 1947. Class 46.

Myers, Earle, Co.: *See*—
Myers, D. E.

National Gypsum Company, Buffalo, N. Y. Rockwool. 430,708–10; June 24; Serial Nos. 459,960–2; published Apr. 18, 1944. Class 12.

National Music Publishing Corp., New York, N. Y. Sheet music. 430,788; June 24; Serial No. 503,313; published Mar. 18, 1947. Class 38.

New Haven Clock Company, The, assignor to New Haven Clock and Watch Company, New Haven, Conn. Clocks, watches, and parts thereof. 430,770; June 24; Serial No. 501,268; published Mar. 18, 1947. Class 27.

New Haven Clock Company, The, assignor to New Haven Clock and Watch Company, New Haven, Conn. Clocks, watches, and parts thereof. 430,771; June 24; Serial No. 501,269; published Mar. 25, 1947. Class 27.

New Haven Clock and Watch Company, assignee: *See*—
New Haven Clock Company.

Norris Inc., Atlanta, Ga. Candies. 430,783; June 24; Serial No. 502,833; published Apr. 8, 1947. Class 46.

Northeastern Engineering, Inc., Manchester, N. H. Radio receiving sets. 430,753; June 24; Serial No. 497,490; published Apr. 8, 1947. Class 21.

Northwest Packing Co., Portland, Oreg. Frozen and canned vegetables and fruits. 430,873; June 24. Class 46.

Oakes & Company, assignor to Oakes & Company, Chicago, Ill. Living room, dining room, bedroom, etc., furniture. 430,850; June 24. Class 32.

Oktul Specialty Company: *See*—
Wheeler, Norton L.

Organic Chemical Co., Providence, R. I. Detergent soaps. 430,765; June 24; Serial No. 500,319; published Apr. 1, 1947. Class 4.

Packaging Institute, Inc., New York, N .Y. Periodical publication. 430,789; June 24; Serial No. 503,528; published Apr. 1, 1947. Class 38.

Packers Tar Soap, Inc., Mystic, Conn., and New York, N. Y. Soap. 430,785–6; June 24; Serial Nos. 503,215–16; published Apr. 8, 1947. Class 4.

Packers Tar Soap, Inc., Mystic, Conn., and New York, N. Y. Soap. 430,792; June 24; Serial No. 503,660; published Apr. 8, 1947. Class 4.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Washing powder. 430,777; June 24; Serial No. 502,405; published Apr. 1, 1947. Class 4.

Perkins Soap Company, Springfield, Mass. Liquid soap. 226,800; renewed Apr. 19, 1947. O. G. June 24. Class 4.

Perkins Soap Company, Springfield, Mass. Textile oil. 227,032; renewed Apr. 26, 1947. O. G. June 24. Class 6.

Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal preparations. 226,545; renewed Apr. 12, 1947. O. G. June 24. Class 6.

Phelps Dodge Copper Products Corporation, New York, N. Y. Insulated wire. 430,782; June 24; Serial No. 502,787; published Apr. 8, 1947. Class 21.

Phoenix Woolen Co., Stafford, Conn., to Swift River Woolen Co., Westerly, R. I. Woolen fabrics in the piece. 61,931; re-renewed Apr. 9, 1947. O. G. June 24. Class 42.

Plumbing Products Co., Boston, Mass. Angle and straight thermometers, gauges. 430,712; June 24; Serial No. 465,691; published Apr. 8, 1947. Class 26.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Dolls, toys. 430,725; June 24; Serial No. 488,424; published Apr. 8, 1947. Class 22.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Clothes washing and ironing machines. 430,802; June 24; Serial No. 504,694; published Mar. 18, 1947. Class 24.

Polk Miller Products Corp., Richmond, Va. Disinfectant for general use, flea powder, mange medicine, etc. 223,439; renewed Feb. 1, 1947. O. G. June 24. Class 6.

Polk Miller Products Corp., Richmond, Va. Soap. 223,870; renewed Feb. 15, 1947. O. G. June 24. Class 4.

Polk Miller Products Corp., Richmond, Va. Capsules and a liquid preparation for dogs. 226,819; renewed Apr. 19, 1947. O. G. June 24. Class 6.

Pompeian Mfg. Co., The, Cleveland, Ohio, to Pompeian Olive Oil Corporation, Baltimore, Md. Salve, ointment, and cream. 59,202; re-renewed Jan. 1, 1947. O. G. June 24. Class 6.

Pompeian Mfg. Co., The, Cleveland, Ohio, to Pompeian Olive Oil Corporation, Baltimore, Md. Soap. 61,061; re-renewed Mar. 5, 1947. O. G. June 24. Class 4.

Pompeian Olive Oil Corporation: *See*—
Pompeian Mfg. Co., The.

Pottruff, Morgan, doing business as Morgan Pottruff Company, Brantford, Ontario, Canada. Greeting cards. 430,758; June 24; Serial No. 498,712; published Mar. 18, 1947. Class 38.

Pottruff, Morgan, Company: *See*—
Pottruff, Morgan.

Primex Equipment Company, Chicago, Ill. X-ray equipment. 430,746; June 24; Serial No. 494,864; published Apr. 8, 1947. Class 44.

Providence Journal Company, Providence, R. I. Newspaper. 430,799–800; June 24; Serial Nos. 504,291–2; published Mar. 18, 1947. Class 38.

Pye Limited, Cambridge, England. Electric telecommunication apparatus. 430,720; June 24; Serial No. 484,062; published Apr. 8, 1947. Class 21.

Quiztick Manufacturing Co., St. Louis, Mo. Question and answer game. 430,711; June 24; Serial No. 465,486; published Apr. 8, 1947. Class 22.

Reed, Minnie A., Hutchinson, Kans. Salad dressing. 430,875; June 24. Class 46.

Refresh-Aire Ozonizer Corp., New York, N. Y. Electrical home ozonizing apparatus. 430,865; June 24. Class 21.

Revere Rubber Company, Boston, Mass., to United States Rubber Company, New York, N. Y. Belting, hose and machinery packings. 57,005; re-renewed Oct. 30, 1946. O. G. June 24. Class 35.

Revere Rubber Company, Boston, Mass., to United States Rubber Company, New York, N. Y. Belting, hose and machinery-packings. 57,252; re-renewed Nov. 6, 1946. O. G. June 24. Class 35.

Revere Rubber Company, Boston, Mass., to United States Rubber Company, New York, N. Y. Belting, hose, and machinery packings. 57,388; re-renewed Nov. 13, 1946. O. G. June 24. Class 35.

Reynolds, Harry E., Detroit, Mich. Driers in the nature of a rack. 430,798; June 24; Serial No. 504,069; published Apr. 1, 1947. Class 24.

Rice, C. H., Company, Bangor, Maine. Canned beans and pork, canned mincemeat, bulk mincemeat, etc. 220,167; renewed Nov. 2, 1946. O. G. June 24. Class 46.

Ries, Jacob, to Jacob Ries Bottling Works, Inc., Shakopee, Minn. Table-waters. 62,027; re-renewed Apr. 16, 1947. O. G. June 24. Class 45.

Ries, Jacob, Bottling Works, Inc.: *See*—
Ries, Jacob.

Roberts, Inc., Cleveland, Ohio. Designed merchandising displays constructed of wood and masonite. 430,867; June 24. Class 32.

Robins, G. S., & Company, St. Louis, Mo. Covers for steam presses. 430,738; June 24; Serial No. 493,145; published Mar. 18, 1947. Class 24.

Rogen, Martin, New York, N. Y. Children's sewing and stuffing kits. 430,735; June 24; Serial No. 492,956; published Apr. 8, 1947. Class 22.

Romeo, Sebastiano, Swedesboro, N. J. Fresh sweet potatoes. 430,716; June 24; Serial No. 480,999; published Apr. 8, 1947. Class 46.

S & S Heating Company, Detroit, Mich. Gas burners for space heaters. 430,767; June 24; Serial No. 500,830; published Mar. 25, 1947. Class 34.

Safecover Company: *See*—
Applebaum, Milton.

Safety Fumigant Company, Boston, Mass. Fumigant briquettes. 225,155; renewed Mar. 15, 1947. O. G. June 24. Class 6.

Sawyer, A. Neil, doing business as A. Neil Sawyer Co., New York, N. Y. Magazine published periodically. 430,734; June 24; Serial No. 492,741; published Mar. 4, 1947. Class 38.

Sawyer, A. Neil, Co.: *See*—
Sawyer, A. Neil.

Schalk Chemical Company, Los Angeles, Calif. Paint brush cleaner. 430,868; June 24. Class 16.

Sealtite Comfort Dental Pad Company: *See*—
Willis, George H.

Selform Arch Co., Inc., Boston, Mass. Arch supports. 430,878; June 24. Class 44.

Seneca Printing Company, Chicago, Ill. Daily publication. 430,797; June 24; Serial No. 503,947; published Mar. 18, 1947. Class 38.

Sheldon, E. H., & Company, Muskegon, Mich. Hard pressed fibrous composition sheets. 430,827; June 24; Serial No. 508,745; published Mar. 18, 1947. Class 12.

Shepard, Thomas J., doing business as Shepard's Ice Cream Store, Watseka and Kankakee, Ill. Ice cream. 430,866; June 24. Class 46.

Shepard's Ice Cream Store: *See*—
Shepard, Thomas J.

Sherwood Brothers Incorporated, Baltimore, Md. Gasoline. 225,591; renewed Mar. 22, 1947. O. G. June 24. Class 15.

Siduna A/S, Copenhagen, Denmark. Watches, watch parts, watch chains and watch bracelets. 430,750; June 24; Serial No. 496,927; published Apr. 1, 1947. Class 27.

Skipper, Roscoe, Inc., Avon Park, Fla. Oranges, fresh grapefruit, and fresh tangerines. 430,742; June 24; Serial No. 494,464; published Sept. 10, 1946. Class 46.

Skookum Packers Association, Wenatchee, Wash. Fresh apples. 226,961; renewed Apr. 26, 1947. O. G. June 24. Class 46.

Somis Lemon Association, Oxnard, Calif. Fresh citrus fruits. 430,791; June 24; Serial No. 503,607; published Apr. 8, 1947. Class 46.

Southern Switch and Signal Company, Inc., Shreveport, La. Electrical vehicular and pedestrial street traffic signal lights and controllers; pedestals, brackets, etc. 430,772; June 24; Serial No. 501,543; published Apr. 8, 1947. Class 21.

Spalding, A. G., & Bros., New York, N. Y., to A. G. Spalding & Bros., Inc., Chicopee, Mass. Golf-balls. 62,085; re-renewed Apr. 16, 1947. O. G. June 24. Class 22.

Spalding, A. G., & Bros., Inc.: *See*—
Spalding, A. G., & Bros.

Sperry Gyroscope Company, The, Brooklyn, to Sperry Gyroscope Company, Inc., Great Neck, N. Y. Navigational apparatus. 226,684; renewed Apr. 19, 1947. O. G. June 24. Class 26.

Sperry Gyroscope Company, Inc.: *See*—
Sperry Gyroscope Company, The.

Splain & Lloyd, Inc., Milford, Ohio. Applicators. 430,838; June 24; Serial No. 514,726; published Apr. 8, 1947. Class 44.

Spring Tool and Machine Co., New York, N. Y. Pyrophoric cigarette lighter. 430,733; June 24; Serial No. 492,665; published May 14, 1946. Class 34.

Standard Silica Company, to Standard Silica Corporation, Chicago, Ill. Sand suitable for use in steel molding, etc. 222,916; renewed Jan. 11, 1947. O. G. June 24. Class 1.

Standard Silica Corporation: *See*—
Standard Silica Company.

Stanley Home Products, Inc., Westfield, Mass. Furniture cream, automobile polish, and floor wax. 430,843; June 24. Class 16.

Stansbury, A. A.: *See*—
Stansbury Drug Co., The.

Stansbury Drug Co., The, to A. A. Stansbury, doing business as Stansbury's Wholesale Drugs, Middleport, Ohio. Cough sirup, quinolax cold tablets, arnica lotion, etc. 224,860; renewed Mar. 8, 1947. O. G. June 24. Class 6.

Stansbury's Wholesale Drugs: *See*—
Stansbury Drug Co., The.

Steinam, A., Company, Inc., New York, N. Y. All nylon fabric, sold in the piece. 430,793; June 24; Serial No. 503,767; published Apr. 8, 1947. Class 42.

Street, R. R., & Co., Inc., Chicago, Ill. Wet-cleaning solution. 225,966; renewed Mar. 29, 1947. O. G. June 24. Class 4.

Stylecraft Sales Corp., New York, N. Y. Women's hosiery. 430,707; June 24; Serial No. 458,375; published July 11, 1944. Class 39.

Sun-Maid Raisin Growers of California, Fresno, Calif. Baking powder. 226,774; renewed Apr. 19, 1947. O. G. June 24. Class 46.

Supplee-Biddle Company: *See*—
Supplee-Biddle Hardware Company.

Supplee-Biddle Hardware Company, to Supplee-Biddle Company, Philadelphia, Pa. Bicycles. 226,734; renewed Apr. 19, 1947; O. G. June 24. Class 19.

Swift River Woolen Co.: *See*—
Phoenix Woolen Co.

Taylor Corporation, The: *See*—
Formetal Company.

Temple Products Company, The, Washington, D. C. Brushless shaving cream. 430,834; June 24; Serial No. 511,705; published Apr. 1, 1947. Class 4.

Time Savers: *See*—
Calder, Caesar A.

Toomey's Mills, Newcastle, Wyo. White flour made from wheat. 430,848; June 24. Class 46.

Trojan Products & Mfg. Co., assignor to The Diversey Corporation, Chicago, Ill. Hand soap, polish (having water softening properties), etc. 430,719; June 24; Serial No. 483,703; published Oct. 29, 1946. Class 4.

Union Carbide and Carbon Corporation, New York, N. Y. Acetylene flood lights and acetylene generators. 430,804; June 24; Serial No. 504,802; published Apr. 8, 1947. Class 34.

Union Fork & Hoe Company, The, Columbus, Ohio. Artificial fish baits, fish lures, fishing rod reels, etc. 430,836; June 24; Serial No. 511,910; published Apr. 8, 1947. Class 22.

Union Metal Manufacturing Company, The, Canton, Ohio. Metal traffic light standards; ornamental metal street, bridge and flood lighting equipment, etc. 430,819; June 24; Serial No. 506,710; published Apr. 8, 1947. Class 12.

U. S. Line Company: *See*—
United States Whip Company.

United States News Publishing Corporation, Washington, D. C. Section of periodical publications. 430,781; June 24; Serial No. 502,672; published Dec. 31, 1946. Class 38.

United States Rubber Company: *See*—
Eureka Fire Hose Company.
Hastings Wool Boot Company.
Revere Rubber Company.

United States Whip Company, doing busines as U. S. Line Company, Westfield, Mass. Fishing lines. 227,073; renewed Apr. 26, 1947. O. G. June 24. Class 22.

Vacu-Dry Company, Oakland, Calif. Dehydrated apples in pieces. 430,736; June 24; Serial No. 492,974; published Apr. 8, 1947. Class 46.

Vent-Axia Limited, London, England. Ventilating apparatus. 430,749; June 24; Serial No. 496,879; published Mar. 18, 1947. Class 34.

Visioneering Co. Inc., The, Cleveland, Ohio. Specially designed appliances to serve as models. 430,760; June 24; Serial No. 499,026; published Mar. 18, 1947. Class 26.

Wagner, Raymond T., doing business as Hawthorne Laboratories, Louisville, Ky. Fertilizers. 430,784; June 24; Serial No. 502,862; published Apr. 1, 1947. Class 10.

Walhimer, Morris, New Haven, Conn., and New York, N. Y. Bath mits. 430,714; June 24; Serial No. 478,098; published Apr. 1, 1947. Class 29.

Washougal Woolen Mills, doing business under the name West Coast Woolen Mills, Ltd., Washougal, Wash. Woolen fabrics. 430,856; June 24. Class 42.

Watchemoket Optical Co. Inc., Providence, R. I. Eye masks. 430,862; June 24. Class 44.

Waterman, L. E., Company, New York, N. Y. Fountain-pens, fountain-pen feeds, fountain-pen caps, etc. 59,703; re-renewed Jan. 15, 1947. O. G. June 24. Class 37.

Webster Electric Company, Racine, Wis. Inter-communicating sound amplifying and transmitting systems, inter-connecting circuits, and energizing devices. 430,830; June 24; Serial No. 509,059; published Apr. 8, 1947. Class 21.

West Coast Woolen Mills, Ltd.: *See*—
Washougal Woolen Mills.

Wheeler, Norton L., doing business as Oktul Specialty Company, Tulsa, Okla. Dental compound. 430,859; June 24. Class 44.

Wholesale Grovers Exchange, Inc., Richmond, Va. Canned fruits, canned vegetables, tomato catchup, tea, etc. 221,052–4; renewed Nov. 23, 1946. O. G. June 24. Class 46.

Wiggle-Me Toys, Inc., Lynbrook, N. Y. Jointed toy figures. 430,849; June 24. Class 22.

Willis, George H., doing business as Sealtite Comfort Dental Pad Company, Kansas City, Mo. Pads for use between alveolar ridges of edentulous persons. 430,877; June 24. Class 44.

Wolf, Jacques, & Co., Clifton, N. J. Mixture of vinylite compounds and higher polyalcohols. 430,795; June 24; Serial No. 503,854; published Mar. 4, 1947. Class 6.

Wolfe, Michael, doing business as Michael Wolfe Co., New York, N. Y. Electric table lamps. 430,823; June 24; Serial No. 507,561; published Apr. 8, 1947. Class 21.

Wolfe, Michael, Co.: *See*—
Wolfe, Michael.

Wonder Window Co., Fitchburg, Mass. Combination storm and screen sash. 430,740; June 24; Serial No. 493,865; published Apr. 1, 1947. Class 12.

Working, K. C., Chemical Co., Los Angeles, Calif. Granulated soap. 430,790; June 24; Serial No. 503,575; published Apr. 1, 1947. Class 4.

Worthington Ball Company, The, Elyria, Ohio. Golf balls. 430,723; June 24; Serial No. 487,403; published Feb. 26, 1946. Class 22.

Young, J. W., & Sons, Redditch, England. Fishing reels. 430,744–5; June 24; Serial Nos. 494,732–3; published Apr. 8, 1947. Class 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Sand suitable for use in steel molding, etc. Standard Silica Company. 222,916; renewed Jan. 11, 1947. O. G. June 24.

CLASS 4

Cleaner, cleanser, and detergent, Sudsing. Help, Inc. 430,773; June 24; Serial No. 501,738; published Apr. 1, 1947.

Cleaning compound, Liquid. Alpha Chemical Company. 223,234; renewed Jan. 25, 1947. O. G. June 24.

Cleaner, Eyeglass. A. L. Fessler. 430,839; June 24; Serial No. 515,982; published Apr. 8, 1947.

Shaving cream, Brushless. Temple Products Company. 430,834; June 24; Serial No. 511,705; published Apr. 1, 1947.

Soap. Lanman & Kemp-Barclay & Co. Incorporated. 430,721; June 24; Serial No. 484,306; published Apr. 1, 1947.

Soap. Packers Tar Soap, Inc. 430,785–6; June 24; Serial Nos. 503,215–16; published Apr. 8, 1947.

Soap. Packers Tar Soap, Inc. 430,792; June 24; Serial No. 503,660; published Apr. 8, 1947.

Soap. Polk Miller Products Corp. 223,870; renewed Feb. 15, 1947. O. G. June 24.

Soap. Pompeian Mfg. Co. 61,081; re-renewed Mar. 5, 1947. O. G. June 24.

Soap, Granulated. K. C. Working Chemical Co. 430,790; June 24; Serial No. 503,575; published Apr. 1, 1947.

Soap, Liquid. A. C. Fergusson. 226,499; renewed Apr. 12, 1947. O. G. June 24.

Soap, Liquid. Perkins Soap Company. 226,800; renewed Apr. 19, 1947. O. G. June 24.

Soap, polish (having water softening properties), etc., Hand. Trojan Products & Mfg. Co. 430,719; June 24; Serial No. 483,703; published Oct. 29, 1946.

Soap-powder. Cudahy Packing Company. 59,183; re-renewed Jan. 1, 1947. O. G. June 24.

Soapless cleaning compounds. American Industrial Chemical Co., Inc. 430,731; June 24; Serial No. 491,306; published Apr. 1, 1947.

Soapless detergent. Manhattan Soap Company, Inc. 430,787; June 24; Serial No. 503,302; published Apr. 1, 1947.

Soaps, Detergent. Organic Chemical Co. 430,765; June 24; Serial No. 500,319; published Apr. 1, 1947.

Washing powder. Pennsylvania Salt Manufacturing Company. 430,777; June 24; Serial No. 502,405; published Apr. 1, 1947.

Wet-cleaning solution. R. R. Street & Co., Inc. 225,966; renewed Mar. 29, 1947. O. G. June 24.

CLASS 6

Briquettes. Fumigant. Safety Fumigant Company. 225,155; renewed Mar. 15, 1947. O. G. June 24.

Capsules and a liquid preparation for dogs. Polk Miller Products Corp. 226,819; renewed Apr. 19, 1947. O. G. June 24.

Cough sirup, quinolax cold tablets, arnica lotion, etc. Stansbury Drug Co. 224,860; renewed Mar. 8, 1947. O. G. June 24.

Disinfectant for general use, flea powder, mange medicine, etc. Polk Miller Products Corp. 223,439; renewed Feb. 1, 1947. O. G. June 24.

Lotion, toilet water, eau de cologne, etc., After-shaving. La Mode Chez Tappe, Inc. 430,845; June 24.

Medicinal compound. E. C. Hacker. 223,613; renewed Feb. 8, 1947 O. G. June 24.

Medicinal preparations. S Pfeiffer Mfg. Co. 226,545; renewed Apr. 12, 1947. O. G. June 24.

Oil, Textile. Perkins Soap Company. 227,032; renewed Apr. 26, 1947. O. G. June 24.

Perfume, toilet water, face powder, etc. Houbigant, Inc. 227,029; renewed Apr. 26, 1947. O. G. June 24.

Preparation for the skin. King and Stallkamp. 226,480; renewed Apr. 12, 1947. O. G. June 24.

Salve, ointment, and cream. Pompeian Mfg. Co. 59,202; re-renewed Jan. 1, 1947. O. G. June 24.

Vinylite compounds and higher polyalcohols, Mixture of. Jacques Wolf & Co. 430,795; June 24; Serial No. 503,854; published Mar. 4, 1947.

CLASS 9

Powder used for shotgun, rifle, and small arms. All kinds of. Laflin & Rand Powder Company. 61,981–2; re-renewed Apr. 16, 1947. O. G. June 24.

Powder used for shotgun, rifle, and small-arms. All kinds of. Laflin & Rand Powder Company. 61,984; re-renewed Apr. 16, 1947. O. G. June 24.

Powder used for shotgun, rifle, and small-arms. All kinds of. Laflin & Rand Powder Company. 61,988; re-renewed Apr. 16, 1947. O. G. June 24.

CLASS 10

Fertilizers. E. I. Du Pont de Nemours and Company. 430,778; June 24; Serial No. 502,503; published Mar. 25, 1947.

Fertilizers. R. T. Wagner. 430,784; June 24; Serial No. 502,862; published Apr. 1, 1947.

Phosphate, Natural Florida. American Cyanamid Company. 430,768; June 24; Serial No. 501,225; published Mar. 25, 1947.

CLASS 11

Carbon papers and typewriter ribbons. Carfa A. G. Fabrik Chemisch-Technischer Bureaumaterialien. 430,763; June 24; Serial No. 500.143; published Apr. 8, 1947.

Ink vehicle, Printing. Frost Paint & Oil Corporation. 430,764; June 24; Serial No. 500,169; published Apr. 1, 1947.

Inks. Fred'k H. Levey Co. Inc. 430,776; June 24; Serial No. 502,380; published Apr. 1, 1947.

CLASS 12

Doors, Garage. All Aluminum Door Company. 430,833; June 24; Serial No. 510,923; published Apr. 8, 1947.

Firebrick; insulating firebrick; and refractory materials. Babcock & Wilcox Company. 430,739; June 24; Serial No. 493,474; published Mar. 25, 1947.

Fibrous composition sheets, Hard pressed. E. H. Sheldon & Company. 430,827; June 24; Serial No. 508,745; published Mar. 18, 1947.

Light standards; ornamental metal street, bridge, and flood lighting equipment, etc., Metal traffic. Union Metal Manufacturing Company. 430,819; June 24; Serial No. 506,710; published Apr. 8, 1947.

Lumber. Higgins, Inc. 430,807; June 24; Serial No. 505,200; published Mar. 18, 1947.

Panels of composition fibrous material. Homasote Company, Inc. 430,826; June 24; Serial No. 508,601; published Mar. 18, 1947.

Putty. H. T. McGill. 430,829; June 24; Serial No. 509,021; published Mar. 18, 1947.

Rockwool. National Gypsum Company. 430,708–10; June 24; Serial No. 459,960–2; published Apr. 18, 1944.

Sash, Combination storm and screen. Wonder Window Co. 430,740; June 24; Serial No. 493,865; published Apr. 1, 1947.

Veneer for making plywood and plywood made of laminated veneers. Canadian Forest Products Limited. 430,815; June 24; Serial No. 505,936; published Apr. 8, 1947.

CLASS 14

Nickel alloys and unfinished articles. Duriron Company, Inc. 430,747; June 24; Serial No. 496,215; published Apr. 8, 1947.

CLASS 15

Gasoline. Sherwood Brothers Incorporated. 225,591; renewed Mar. 22, 1947. O. G. June 24.

CLASS 16

Cleaner, Paint brush. Schalk Chemical Company. 430,868; June 24.

Cream, automobile polish and floor wax, Furniture. Stanley Home Products, Inc. 430,843; June 24.

Lacquer. Egyptian Lacquer Manufacturing Company. 225,590; renewed Mar. 22, 1947. O. G. June 24.

Paint in ready mixed form. Foundry Rubber Compounds Corporation. 430,842; June 24.

Paint, Oil base. Janney, Semple, Hill & Co. 430,871; June 24.

Paints and varnishes. McCabe Paint & Varnish Co. 430,844; June 24.

Paints, Ready-mixed and prepared. Euston Lead Company. 222,982; renewed Jan. 11. O. G. June 24.

Polish, Furniture. Alymp-Ol Soap & Chemical Co. 430,858; June 24.

Varnish-like material. E. J. Hofford. 430,847; June 24.

CLASS 19

Bicycles. Supplee-Biddle Hardware Company. 226,734; renewed Apr. 19, 1947. O. G. June 24.

CLASS 20

Floor covering, Hard surfaced. Armstrong Cork Company. 430,803; June 24; Serial No. 504,732; published Mar. 25, 1947.

CLASS 21

Batteries, Storage. S. W. Knoblock. 430,732; June 24; Serial No. 491,577; published Apr. 8, 1947.

Electrical home ozonizing apparatus. Refresh-Aire Ozonizer Corp. 430,865; June 24.

Electrical vehicular and pedestrian street traffic signal lights and controllers, pedestals, brackets, etc. Southern Switch and Signal Company, Inc. 430,772; June 24; Serial No. 501,543; published Apr. 8, 1947.

Electrically operated saws. Hobart Manufacturing Company. 430,780; June 24; Serial No. 502,581; published Apr. 8, 1947.

Household appliances, Electric. De Lisser Manufacturing Corp. 430,821; June 24; Serial No. 507,101; published Apr. 8, 1947.

Illuminator for transparencies, Electric. Eastman Kodak Company. 430,748; June 24; Serial No. 496,769; published Apr. 8, 1947.

Insulating materials of high dielectric strength, Organo-silicon. Dow Corning Corporation. 430,825; June 24; Serial No. 508,583; published Apr. 1, 1947.

Lamps, Electric table. M. Wolfe. 430,823; June 24; Serial No. 507,561; published Apr. 8, 1947.

Lead and lead alloy sheaths and sleeves. Anaconda Wire and Cable Company. 430,828; June 24; Serial No. 508,831; published Apr. 8, 1947.

Lighting fixtures and electric lamps. J. L. Libby. 430,794; June 24; Serial No. 503,820; published Apr. 8, 1947.

Motors and parts thereof and electric generators and parts thereof, Electric. Master Electric Company. 430,841; June 24; Serial No. 520,851.

Radio receiving sets. Northeastern Engineering, Inc. 430,753; June 24; Serial No. 497,490; published Apr. 8, 1947.

Telecommunication apparatus, Electric. Pye Limited. 430,720; June 24; Serial No. 484,062; published Apr. 8, 1947.

Transmitting systems, inter-connecting circuits, and energizing devices, Inter-communicating sound amplifying, and. Webster Electric Company. 430,830; June 24; Serial No. 509,059; published Apr. 8, 1947.

Wire, Insulated. Phelps Dodge Copper Products Corporation. 430,782; June 24; Serial No. 502,767; published Apr. 8, 1947.

CLASS 22

Bowling balls. J. Bomze. 430,876; June 24.

Chess boards and chess men. E. S. Lowe Company, Inc. 430,759; June 24; Serial No. 498,784; published Apr. 8, 1947.

Dolls. N. Lincoln. 430,743; June 24; Serial No. 494,688; published Apr. 8, 1947.

Dolls, toys. Plymouth Wholesale Dry Goods Corporation. 430,725; June 24; Serial No. 488,424; published Apr. 8, 1947.

Fish baits, fish lures, fishing rod reels, etc., Artificial. Union Fork & Hoe Company, The. 430,836; June 24; Serial No. 511,910; published Apr. 8, 1947.

Fishing lines. United States Whip Company. 227,073; renewed Apr. 26, 1947. O. G. June 24.

Fishing reels. J. W. Young & Sons. 430,744–5; June 24; Serial Nos. 494,732–3; published Apr. 8, 1947.

Game, Board. Game Creations, Inc. 430,840; June 24; Serial No. 516,124; published Apr. 8, 1947.

Game, Question and answer. Quiztick Manufacturing Co. 430,711; June 24; Serial No. 465,486; published Apr. 8, 1947.

Golf-balls. A. G. Spalding & Bros. 62,085; re-renewed Apr. 16, 1947. O. G. June 24.

Golf balls. Worthington Ball Company. 430,723; June 24; Serial No. 487,403; published Feb. 26, 1946.

Kits, Children's sewing and stuffing. M. Rogen. 430,735; June 24; Serial No. 492,956; published Apr. 8, 1947.

Toy figures, Jointed. Wiggle-Me Toys, Inc. 430,849; June 24.

Toy luminous animals. Dorzar Toy Studios Inc. 430,755; June 24; Serial No. 498,275; published Apr. 8, 1947.

Toy native bears. J. Jackson & Son. 430,730; June 24; Serial No. 491,265; published Apr. 8, 1947.

Toy sewing machines. L. C. Genero. 430,779; June 24; Serial No. 502,512; published Apr. 8, 1947.

Toy wagons. L. Maybrown. 430,757; June 24; Serial No. 498,644; published Apr. 8, 1947.

CLASS 24

Covers for steam presses. G. S. Robins & Company. 430,738; June 24; Serial No. 493,145; published Mar. 18, 1947.

Devices for the laundry. C. A. Calder. 430,726; June 24; Serial No. 489,791; published Mar. 4, 1947.

Driers in the nature of a rack. H. E. Reynolds. 430,798; June 24; Serial No. 504,069; published Apr. 1, 1947.

Washing and ironing machines, Clothes. Plymouth Wholesale Dry Goods Corporation. 430,802; June 24; Serial No. 504,694; published Mar. 18, 1947.

Washing machine, Domestic clothes. Formetal Company. 430,861; June 24.

CLASS 25

Locks, Cabinet. Eagle Lock Company. 430,722; June 24; Serial No. 485,632; published Mar. 18, 1947.

CLASS 26

Apparatus and equipment and parts thereof. Hammel-Dahl Company. 430,715; June 24; Serial No. 478,953; published Apr. 8, 1947.

Appliances to serve as models. Specially designed. Visioneering Co. Inc. 430,760; June 24; Serial No. 499,026; published Mar. 18, 1947.

Navigational apparatus. Sperry Gyroscope Company. 226,684; renewed Apr. 19, 1947. O. G. June 24.

Spotlights for use in scientific and medical laboratories. Jandor, Incorporated. 430,808; June 24; Serial No. 505,206; published Apr. 8, 1947.

Thermometers, gauges, Angle and straight. Plumbing Products Co. 430,712; June 24; Serial No. 465,691; published Apr. 8, 1947.

Thermostat wafers, thermostat valves, and thermometers. H. D. Hudson Manufacturing Company. 430,874; June 24.

Tools, Measuring. Aktiebolaget C. E. Johansson. 430,741; June 24; Serial No. 493,877; published Apr. 8, 1947.

CLASS 27

Clocks. J. B. De Kurowski. 430,809; June 24; Serial No. 505,288; published Mar. 25, 1947.

Clocks, watches, and parts thereof. New Haven Clock Company. 430,770; June 24; Serial No. 501,268; published Mar. 18, 1947.

Clocks, watches, and parts thereof. New Haven Clock Company. 430,771; June 24; Serial No. 501,269; published Mar. 25, 1947.

Watches, watch parts, watch chains, and watch bracelets. Siduna A/S. 430,750; June 24; Serial No. 496,927; published Apr. 1, 1947.

CLASS 28

Pearl necklaces; and brooches, earrings, etc. Antonio Marandola. 430,846; June 24.

Pearls and costume jewelry, Simulated. S. Elias. 430,820; June 24; Serial No. 506,742; published Mar. 25, 1947.

Rings and mountings therefor, Finger. Helfer & Co. 430,774; June 24; Serial No. 501,846; published Mar. 25.

Rings, bracelets, brooches, etc., Finger. H. T. Gale. 430,869; June 24.

CLASS 29

Bath mits. M. Walhimer. 430,714; June 24; Serial No. 478,098; published Apr. 1, 1947.

CLASS 32

Davenport beds, Convertible. James McCutcheon & Company. 430,872; June 24.

Display fixtures, plastic merchandise display racks, etc., Plastic merchandise. R. F. Bryce. 430,855; June 24.

Displays constructed of wood and Masonite, Designed merchandising. Roberts, Inc. 430,867; June 24.

Furniture both wood and upholstered, etc., Household and summer. Heywood-Wakefield Company. 430,864; June 24.

Furniture, Living room, dining room, bedroom, etc. Oakes & Company. 430,850; June 24.

Tables, end tables, coffee tables, etc., Occasional. L & N Plastic Co. 430,870; June 24.

Upholstered living room furniture. Kroehler Mfg. Co. 430,860; June 24.

CLASS 34

Boilers and burners, and pumps and tanks, Fuel oil-burning. General Utilities Corporation. 430,817; June 24; Serial No. 506,596; published Mar. 25, 1947.

Burners for space heaters, Gas. S & S Heating Company. 430,767; June 24; Serial No. 500,830; published Mar. 25, 1947.

Burners, oil boilers, oil furnaces, etc., Oil. General Utilities Corporation. 430,818; June 24; Serial No. 506,597; published Mar. 25, 1947.

Crucibles and furnace covers. Joseph Dixon Crucible Company. 430,835; June 24; Serial No. 511,802; published Apr. 8, 1947.

Floodlights and acetylene generators, Acetylene. Union Carbide and Carbon Corporation. 430,804; June 24; Serial No. 504,802; published Apr. 8, 1947.

Furnaces, Coal, oil and gas burning. Farquhar Furnace Company. 430,824; June 24; Serial No. 508,278; published Mar. 25, 1947.

Gas range burner valve controls. M. Applebaum. 430,761; June 24; Serial No. 499,189; published Mar. 11, 1947.

Heaters, boilers, and warm-air furnaces, Water. Bryant Heater & Manufacturing Company. 221,622; renewed Dec. 7, 1946. O. G. June 24.

Heaters, Gas consuming space. Day & Night Manufacturing Company. 430,718; June 24; Serial No. 483,364; published Apr. 1, 1947.

Heaters, Gas water. E. L. Mustee & Sons. 430,727; June 24; Serial No. 490,503; published Mar. 11, 1947.

Lighters, and parts for such lighters, Friction pyrophoric and catalytic cigar, cigarette and pipe. Metalite, Inc. 430,831; June 24; Serial No. 509,433; published Mar. 25, 1947.

Pyrophoric cigarette lighters. Spring Tool and Machine Co. 430,733; June 24; Serial No. 492,665; published May 14, 1946.

Ventilating apparatus. Vent-Axia Limited. 430,749; June 24; Serial No. 496,879; published Mar. 18, 1947.

Ventilating equipment. Argus Manufacturing Company. 430,837; June 24; Serial No. 512,953; published Apr. 1, 1947.

CLASS 35

Belting, hose, and machinery packings. Revere Rubber Company. 57,005; re-renewed Oct. 30, 1946. O. G. June 24.

Belting, hose, and machinery-packings. Revere Rubber Company. 57,252; re-renewed Nov. 6, 1946. O. G. June 24.

Belting, hose, and machinery packings. Revere Rubber Company. 57,388; re-renewed Nov. 13, 1946. O. G. June 24.

Hose, Fabric. Eureka Fire Hose Company. 58,237–8; re-renewed Dec. 11, 1946. O. G. June 24.

Tires and tubes. Goodyear Tire & Rubber Company. 225,965; renewed Mar. 29, 1947. O. G. June 24.

Tires and tubes, Vehicle. Marathon Rubber Company, Inc. 224,549; renewed Mar. 1, 1947. O. G. June 24.

CLASS 36

Records and phonograph record blanks, Phonograph. J. H. Bergman. 430,717; June 24; Serial No. 483,016; published Sept. 11, 1945.

CLASS 37

Fountain-pens, fountain-pen feeds, fountain-pen caps, etc. L. E. Waterman Company. 59,703; re-renewed Jan. 15, 1947. O. G. June 24.

Paper and ledger paper, Bond. Marquette Paper Co. 227,106; renewed Apr. 26, 1947. O. G. June 24.

Paper strips, leaves, and sheets, Plain, lithographed, and printed. Autographic Register Company. 221,578; renewed Dec. 7, 1946. O. G. June 24.

Paper strips, leaves, and sheets, Plain, lithographed, and printed. Autographic Register Company. 221,601; renewed Dec. 7, 1946. O. G. June 24.

CLASS 38

Books, Printed. Business News Publishing Company. 430,752; June 24; Serial No. 497,449; published Apr. 1, 1947.

Cards, Greeting. M. Pottruff. 430,758; June 24; Serial No. 498,712; published Mar. 18, 1947.

Magazine, Monthly. Lorenz Publishing Company. 226,682; renewed Apr. 19, 1947. O. G. June 24.

Magazine, Monthly. Lorenz Publishing Company. 226,709–10; renewed Apr. 19, 1947. O. G. June 24.

Magazine, Monthly. Lorenz Publishing Company. 226,802; renewed Apr. 19, 1947. O. G. June 24.

Magazine published periodically. A. N. Sawyer. 430,734; June 24; Serial No. 492,741; published Mar. 4, 1947.

Music, Sheet. National Music Publishing Corp. 430,788; June 24; Serial No. 503,313; published Mar. 18, 1947.

Newspaper. Providence Journal Company. 430,799–800; June 24; Serial Nos. 504,291–2; published Mar. 18, 1947.

Prints and publications, Art. Brown & Bigelow. 430,724; June 24; Serial No. 487,763; published Mar. 25, 1947.

Prints, Photographic. American Pictorial Service, Inc. 430,754; June 24; Serial No. 497,760; published Mar. 18, 1947.

Prints, Seasonal-topic transparent. Betz, Incorporated. 430,796; June 24; Serial No. 503,862; published Apr. 1, 1947.

Publication, Daily. Seneca Printing Company. 430,797; June 24; Serial No. 503,947; published Mar. 18, 1947.

Publication, Periodical. Packaging Institute, Inc. 430,789; June 24; Serial No. 503,528; published Apr. 1, 1947.

Publications, Periodical. American Bitumuls Company. 430,737; June 24; Serial No. 493,035; published Mar. 11, 1947.

Section of periodical publications. United States News Publishing Corporation. 430,781; June 24; Serial No. 502,672; published Dec. 31, 1946.

CLASS 39

Boots, All-wool. Hastings Wool Boot Company. 29,344; re-renewed Dec. 29, 1946. O. G. June 24.

Hosiery, Women's. Stylecraft Sales Corp. 430,707; June 24; Serial No. 458,375; published July 11, 1944.

Overalls, Waistband. H. D. Lee Company, Incorporated. 430,728; June 24; Serial No. 491,205; published Mar. 11, 1947.

Overalls, waistband overalls, overall jackets, etc., Bib. H. D. Lee Company, Incorporated. 430,729; June 24; Serial No. 491,206; published Mar. 11, 1947.

Shoes, slippers, and sport shoes, Men's. Goodwins, Inc. 430,814; June 24; Serial No. 505,644; published Mar. 25, 1947.

Soles and heels. Marathon Rubber Company, Inc. 226,055; renewed Mar. 29, 1947. O. G. June 24.

Suits and knitted fabric, Athletic union. Lewis Knitting Company. 225,215; renewed Mar. 15, 1947. O. G. June 24.

CLASS 42

Cotton printed piece goods, Plain white or dyed. Consolidated Textile Corporation. 223,814; renewed Feb. 8, 1947. O. G. June 24.

Curtains, drapes, and fabric upholstery coverings in the piece, Window. L. Bamberger & Co. 430,751; June 24; Serial No. 497,363; published Apr. 8, 1947.

Fabric in the piece, Rubber. Archer Rubber Company. 226,275; renewed Apr. 5, 1947. O. G. June 24.

Nylon fabric, sold in the piece, All. A. Steinam Company, Inc. 430,793; June 24; Serial No. 503,767; published Apr. 8, 1947.

Veiling. V. H. Levy. 430,775; June 24; Serial No. 501,945; published Apr. 8, 1947.

Woolen fabrics. Washougal Woolen Mills. 430,856; June 24.

Woolen fabrics in the piece. Phoenix Woolen Co. 61,931; rerenewed Apr. 9, 1947. O. G. June 24.

CLASS 44

Applicators. Splain & Lloyd, Inc. 430,838; June 24; Serial No. 514,726; published Apr. 8, 1947.

Arch supports. Selform Arch Co., Inc. 430,878; June 24.

Clippers, Finger-nail. H. C. Cook Company. 62,067; re-renewed Apr. 16, 1947. O. G. June 24.

Dental compound. N. L. Wheeler. 430,859; June 24.

Manicure implement sets, manicure scissors, nail files, etc. Associated Products, Inc. 430,756; June 24; Serial No. 498,483; published Apr. 8, 1947.

Masks, Eye. Watchemoket Optical Co., Inc. 430,862; June 24.

Pads for use between alveolar ridges of edentulous persons. G. H. Willis. 430,877; June 24.

Solder, Dental gold. A. L. Engelhardt Company. 430,832; June 24; Serial No. 510,240; published Apr. 8, 1947.

Syringes, Vaginal. Diehl Research Laboratories, Ltd. 430,762; June 24; Serial No. 499,324; published Apr. 8, 1947.

X-ray equipment. Primex Equipment Company. 430,746; June 24; Serial No. 494,864; published Apr. 8, 1947.

CLASS 45

Table-waters. J. Ries. 62,027; re-renewed Apr. 16, 1947. O. G. June 24.

CLASS 46

Apples, Fresh. Skookum Packers Association. 226,961; renewed Apr. 26, 1947. O. G. June 24.

Apples in pieces, Dehydrated. Vacu-Dry Company. 430,736; June 24; Serial No. 492,974; published Apr. 8, 1947.

Baking powder. Sun-Maid Raisin Growers of California. 226,774; renewed Apr. 19, 1947. O. G. June 24.

Candies. Blum's. 430,852–4; June 24.

Candies. D. L. Clark Company. 430,806; June 24; Serial No. 505,184; published Apr. 8, 1947.

Candies. Norris Inc. 430,783; June 24; Serial No. 502,833; published Apr. 8, 1947.

Candies, cakes, pastries, and ice cream. Blum's. 430,851; June 24.

Candy. Gilliam Candy Company. 430,801; June 24; Serial No. 504,550; published Mar. 11, 1947.

Canned beans and pork, canned mincemeat, bulk mincemeat, etc. C. H. Rice Company. 220,167; renewed Nov. 2, 1946. O. G. June 24.

Canned fruits, canned vegetables, tomato catchup, tea, etc. Wholesale Grocers Exchange, Inc. 221,052–4; renewed Nov. 23, 1946. O. G. June 24.

Canned onion soup. Calcutta Club Products, Inc. 430,857; June 24.

Coffee. Bird and Bottle Limited. 430,816; June 24; Serial No. 506,575; published Apr. 8, 1947.

Confections and syrups or liquid concentrates, Frozen. Joe Lowe Corporation. 430,810–13; June 24; Serial Nos. 505,421–4; published Apr. 8, 1947.

Eggs. Beatrice Creamery Company. 430,713; June 24; Serial No. 477,051; published Apr. 8, 1947.

Flour made from wheat, White. Toomey's Mills. 430,848; June 24.

Frozen and canned vegetables and fruits. Northwest Packing Co. 430,873; June 24.

Fruits, Fresh citrus. Limoneira Company. 430,822; June 24; Serial No. 507,200; published Apr. 8, 1947.

Fruits, Fresh citrus. Somis Lemon Association. 430,791; June 24; Serial No. 503,607; published Apr. 8, 1947.

Fudge and nougat. Golden Nugget Sweets. 226,721; renewed Apr. 19, 1947. O. G. June 24.

Ice Cream. T. J. Shepard. 430,866; June 24.

Melons. F. R. Brown. 430,805; June 24; Serial No. 504,879; published Apr. 8, 1947.

Nut meats, Fresh. Illinois Nut Products Co. 227,003; renewed Apr. 26, 1947. O. G. June 24.

Oranges, fresh grapefruit, and fresh tangerines. Roscoe Skipper, Inc. 430,742; June 24; Serial No. 494,464; published Sept. 10, 1946.

Paste, pie filling, food flavoring extracts, etc., Almond. Chapman & Smith Company. 430,706; June 24; Serial No. 434,553; published May 21, 1946.

Pickles, bottled pimentos, and bottled dill chips, Bottled. Demain Foods Incorporated. 430,863; June 24.

Potatoes, Fresh sweet. S. Romeo. 430,716; June 24; Serial No. 480,999; published Apr. 8, 1947.

Poultry, cattle and hog feeds composed of egg mash. Farmers Feed & Produce. 430,766; June 24; Serial No. 500,533; published Apr. 8, 1947.

Salad dressing. M. A. Reed. 430,875; June 24.

Vegetables, Fresh. D. E. Myers. 430,769; June 24; Serial No. 501,262; published Apr. 1, 1947.

CLASS 48

Beer. Anheuser-Busch Brewing Association. 64,125; re-renewed July 23, 1947. O. G. June 24.

CLASS 50

Rubber fabric in the piece. Archer Rubber Company. 226,275; renewed Apr. 5, 1947. O. G. June 24.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Gleason Works, assignee: *See—*
Head, Ernest C.

Head, Ernest C., deceased, Detroit, Mich., by Gleason Works, assignee, Rochester, N. Y. Gear cutter. Re. 22,891; June 24.

Kesling, Elmer G., Bloomfield, Mo. Gear shifting mechanism. Re. 22,892; June 24.

Mycalex Corporation of America, assigne: *See—*
Wedlock, Albert W. H.

Wedlock, Albert W. H., Cirencester, England, assignor, by mesne assignments, to Mycalex Corporation of America, New York, N. Y. Manufacture of an improved vitreous material. Re. 22,893; June 24.

LIST OF DESIGN PATENTEES

American Bankers Association, The, assignee: *See—*
Mach, John B., Jr.

American Safety Razor Corporation, assignee: *See—*
Landwehr, Richard F.

Anemostat Corporation of America, assignee: *See—*
Phillips, Leonard R.

Bendix Aviation Corporation, assignee: *See—*
Erskine, Donal G.

Coro, Inc., assignee: *See—*
Katz, Adolph.

Erskine, Donal G., Baltimore County, assignor to Bendix Aviation Corporation, Towson, Md. Radio cabinet or the like. 146,954; June 24.

Gorham Manufacturing Company, assignee: *See—*
Price, James R.

Hill, Jesse, New York, N. Y. Trundle toy. 146,955; June 24.

Howells, Henry C., Bethesda, Md., assignor to United States Industries, Incorporated, Washington, D. C. Corkscrew. 146,956; June 24.

Kaderli, Max, Old Greenwich, Conn. Combination bottle opener and corkscrew. 146,957; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,958; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,959; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring. 146,960; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,961; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,962; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Clip or similar article. 146,963; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,964; Jnne 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,965; June 24.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,966; June 24.

Kaufman, Herman, New York, N. Y. Embroidered lace yoke. 146,967; June 24.

Kaufman, Herman, New York, N. Y. Embroidered lace yoke. 146,968; June 24.

Kaufman, Herman, New York, N. Y. Lace yoke. 146,969; June 24.

Kaufman, Herman, New York, N. Y. Embroidered appliqué. 146,970; June 24.

Kroenlein, Henry A., Jackson, Mich. Vacuum cleaner casing. 146,971; June 24.

Krohm, Fred A., Gary, Ind., assignor to Productive Inventions, Inc. Shroud for windshield wiper arm. 146,972; June 24.

Landwehr, Richard F., Laurelton, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Lighter. 146,973; June 24.

Leitner, Arthur S., Los Angeles, Calif. Boot hook. 146,974; June 24.

Lerman, Joseph, Brooklyn, N. Y. Wall lamp or similar article. 146,975; June 24.

Lesley, Oliver R., Clayton, Mo. Key holder. 146,976; June 24.

Leventhal, Leon, New York, N. Y. Jacket. 146,977; June 24.

Mack, John B., Jr., Freeport, assignor to The American Bankers Association, New York, N. Y. Advertising literature holder. 146,978; June 24.

Mangini, Norman J., Los Angeles, Calif. Condiment shaker. 146,979; June 24.

Mucci, Charles, Detroit, Mich. Bracelet. 146,980; June 24.

Noll, Josef W., Philadelphia, Pa. Love seat or similar article. 146,981; June 24.

Phillips, Leonard R., Teaneck, N. J., assignor to Anemostat Corporation of America, New York, N. Y. Combined luggage rack and light fixture. 146,982; June 24.

Phillips, Leonard R., Teaneck, N. J., assignor to Anemostat Corporation of America, New York, N. Y. Combined luggage rack and light fixture. 146,983; June 24.

Piasecki, Frank N., Lansdowne, Pa., assignor to Piasecki Helicopter Corporation. Helicopter. 146,984; June 24.

Piasecki Helicopter Corporation, assignee: *See—*
Piasecki, Frank N.

Price, James R., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Fork or other article of flatware. 146,985; June 24.

Productive Inventions, Inc., assignee: *See—*
Krohm, Fred A.
Smulski, Theodore J.

Purcell, Jeanne T., Bern Township, Berks County, Pa. Candle and flower holder. 146,986; June 24.

Reinecke, Jean O., Oak Park, Ill., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Lamp. 146,987; June 24.

Reynolds Metals Company, assignee: *See—*
Wemyss, Robert B.

Ruchman, Samuel, New York, N. Y. Dress. 146,988; June 24.

Rutan, Earl F.: *See—*
Stone, Robert L., and Rutan.

Sanders, Sanford E. A., Los Angeles, Calif., assignor to Sta-Neet Corporation. Hair cutting comb. 146,989; June 24.

Sheaffer, W. A., Pen Company, assignee: *See—*
Reinecke, Jean O.

Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Shroud for windshield wiper arm. 146,990; June 24.

Soundscriber Corporation, The, assignee: *See—*
Stone, Robert L., and Rutan.

Stahl, Harold H., New York, N. Y. Dress. 146,991; Jnne 24.

Sta-Neet Corporation, assignee: *See—*
Sanders, Sanford E. A.

Stone, Robert L., Guilford, Conn., and E. F. Rutan, New York, N. Y., assignors to The Soundscriber Corporation, New Haven, Conn. Transcriber listening device. 146,992; June 24.

Swanson, Luane E., Cherokee, Iowa. Airplane. 146,993; June 24.

Taylor, David, Great Neck, N. Y. Lapel watch frame. 146,994; June 24.

Taylor, David, Great Neck, N. Y. Lapel watch frame. 146,995; June 24.

Taylor, David, Great Neck, N. Y. Lapel watch frame. 146,996; June 24.

Townsend, Margaret H. and R. C., Fort Worth, Tex. Garment hanger. 146,997; June 24.

Townsend, Margaret H. and R. C., Fort Worth, Tex. Garment hanger. 146,998; June 24.

Townsend, Robert C.: *See—*
Townsend, Margaret H. and R. C.

United States Industries, Incorporated, assignee: *See—*
Howells, Henry C.

Wemyss, Robert B., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Tea kettle. 146,999; June 24.

Wemyss, Robert B., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Dutch oven. 147,000; June 24.

Wormer, Clarkson C., III, Detroit, Mich. Automobile top. 147,001; June 24.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adam, Frank, Electric Company, assignee: *See—*
Stieglitz, Henry M.

Adams, Douglas D., and K. Rollius, assignors to Old King Cole, Incorporated, Canton, Ohio. Making laminated corrugated articles. 2,422,998; June 24.

Agett, Albert H.: *See—*
Hull, David C., and Agett.

Agren, Per Henning W., Nynashamn, Sweden, assignor to A. Johnson & Co., New York, N. Y. Refining hydrocarbons. 2,422,875; June 24.

Air Reduction Company, Incorporated, assignee: *See—*
Klinke, Henry O.
Tyrner, Joseph M.

Alexander, Charles F., Chicago, Ill. Stamp pad. 2,422,814; June 24.

Alexander, Donald F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Peak transient meter. 2,422,766; June 24.

Allred, George W., Mayodan, N. C. Laminated abrasive tool. 2,422,876; June 24.

American Cyanamid Company, assignee: *See—*
Herkenhoff, Earl Conrad.
Holmes, Roger B., and Hill.
Thruston, Jack T.

American Dairies Incorporated, assignee, et al.: *See—*
Turner, Charles W., and Reineke.

American Machine and Metals, Inc., assignee: *See—*
Davis, Archibald H., Jr.
Hebard, George P., and Sheets.

American Optical Company, assignee: *See—*
Ellis, Charles A.

Anderson, Edward H., Chicago, Ill. Book holder. 2,422,877; June 24.

Anderson, John: *See—*
Schelling, William T., and Anderson.

Anderson, Louis A., assignor to General Motors Corporation, Dayton, Ohio. Pneumatic barrel buffer for guns. 2,422,767; June 24.

Anderson, Olaf H., assignee: *See—*
Schneider, Edgar R.

Andres Bay Trading Corporation, assignee, et al.: *See—*
Naugle, John J.

Anglo-Iranian Oil Company, assignee: *See—*
Strang, Leslie C.

Antalek, John J., assignor to The Rauland Corporation, Chicago, Ill. High level modulation system. 2,422,878; June 24.

Anthony Company, assignee: *See—*
Wachter, Lester W., and Kimber.

Armstrong, Leslie, Detroit, Mich., Typewriter alarm. 2,422,650; June 24.

Artzt, William, New Rochelle, and M. Rubinoff, assignors to Sealtag, Inc., New York, N. Y. Seal. 2,422,879; June 24.

Attorney General of the United States: *See—*
Jung, Erwin P.
Plageman, Werner.
Rodanet, Charles H. H.

Autoflight Corporation, assignee: *See—*
Giannini, Gabriel M.

Automatic Electric Laboratories, Inc., assignee: *See—*
Wood, Fredric E.

Ayers, Maurice D., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Multiple loop control. 2,422,651; June 24.

Bach, Henry M., Lawrence, assignor to Premier Crystal Laboratories, Inc., New York, N. Y. Piezoelectric device and manufacture. 2,423,061; June 24.

Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron microscope. 2,422,943; June 24.

Bacon, Thomas P., Jr., Oakland, Calif. Applying new tread material to tires. 2,422,652; June 24.

Bagley, William H., Jr., assignor of one-half to Progressive Welder Company, Detroit, Mich. Method of and apparatus for molding plastic material. 2,422,999; June 24.

Baia, Philip, Highland Park, Mich. Transition attachment for motion-picture cameras. 2,422,815; June 24.

Baia, Philip, Highland Park, Mich. Inspection projector for motion-picture film. 2,422,816; June 24.

Bailey Meter Company, assignee: *See—*
Johnson, Clarence.

Baker, Charles S., Corning, assignor to Ingersoll-Rand Company, New York, N. Y. Compressor system. 2,422,880; June 24.

Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating on shoes. 2,422,711; June 24.

Baker, Donald J., Los Angeles, Calif. Pickup head. 2,422,817; June 24.

Baker, J. T., Chemical Company, assignee: *See—*
Eisenberg, George M., and Metzendorf.

Bamberger, Julien G., Milwaukee, Wis. Hydroplane. 2,422,818; June 24.

Barber-Colman Company, assignee: *See—*
Sweger, Russell P.

Barker, Altamont S.: *See—*
Russell, Frank C., and Barker.

Barracks, William W., College Point, N. Y. Garden and lawn hand rake. 2,422,712; June 24.

Becker, George A., assignor to Eitel-McCullough, Inc., San Bruno, Calif. External anode electron tube. 2,422,819; June 24.

Bell Telephone Laboratories, Incorporated, assignee: *See—*
Bruce, Edmond.
Depew, Charles, Depp, and Luce.
Feldman, Carl B. H.
Fuller, Calvin S.
Hearn, Richard B., and Sutliff.
Hecht, George.
Mason, Warren P.
McRae, James W.
Meacham, Larned A.
Miller, Ohmer R.
Newell, Norman A.

Bendix Aviation Corporation, assignee: *See—*
Buxton, James E.
Chambers, Allan C., and Willis.
Du Bois, William H.
Goepfrich, Rudolph A., and House.
Hood, Edwin E., Christian, and Buxton.
Porter, Finley R.
Sayles, Theo C.
Sloane, Robert W.
Thomas, Thomas H., and Price.
Williams, Harry A.
Winkler, Albert H.

Bendix-Westinghouse Automatic Air Brake Company, assignee: *See—*
Eaton, Wilfred A.

Benn, George F., Greensboro, N. C., assignor to Carter Fabrics Corporation, South Boston, Va. Section spool conveyor and dispenser. 2,422,768; June 24.

Bennett Incorporated, assignee: *See—*
Eaton, Charles F.

Bennett, Tom, Droylsden, Manchester, and E. Hurst, Denton, Manchester, assignors to themselves and G. Carner & Co., Limited, Manchester, England. Water heater. 2,423,000; June 24.

Benson, Ary A., Los Angeles, Calif. Brake. 2,422,713; June 24.

Bergel, Franz, A Cohen, A. L. Morrison, and A. R. Moss, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffman-La Roche Inc., Nutley, N. J. Resolution of α-hydroxy-β : β-dimethyl α-butyrolactone. 2,423,062; June 24.

Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,422,820; June 24.

Bhoota, Baboobhai V., assignor to The Dorr Company, New York, N. Y. Liquid purifier having cation exchangers communicating selectively with anion exchangers. 2,422,821; June 24.

Bigelow, Julian H., New York, J. M. Harris, Long Island City, and M. N. Schweizer, Bayside, Long Island, assignors to Bulova Watch Company, New York, N. Y. Miniature electric meter. 2,422,714; June 24.

Bird Machine Company, assignee: *See—*
Small, Edward F.

Bird & Son, inc., assignee: *See—*
Reynolds, Frank P.

Blair, Charles M., Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Process for breaking petroleum emulsions. 2,422,822; June 24.

Blair, Charles M., Jr., St. Louis, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Lubricating oils. 2,422,881; June 24.

Blake, Edward S., and K. L. Godfrey, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo. 2,422,769; June 24.

Blake, William F., Chicago, Ill. Jar opening tool. 2,422,715; June 24.

Blowers, Arthur, Fort Plain, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread cutter for sewing machines. 2,423,001; June 24.

Blum, Chase, Cincinnati, Ohio. Door control apparatus. 2,422,770; June 24.

Blum, Chase, Cincinnati, Ohio. Door fastener. 2,422,771; June 24.

Blumenthal, Sol: *See—*
Smith, Cleveland S., Jr., and Blumenthal.

Bogoslowsky, Boris, Jackson Heights, N. Y. Apparatus for making coffee infusions. 2,422,944; June 24.

Bohn, Donald I., Pittsburgh, Pa. Ice cube dispenser. 2,422,772; June 24.

Borg-Warner Corporation, assignee: *See—*
Taylor, Clarence L.

Bramley, Arthur, Long Branch, N. J. Separation of fluids by simultaneous centrifugation and selective diffusion. 2,422,882; June 24.

Bray, Allen R., Chicago, Ill., assignor to Standard Safety Equipment Co. Protective safety garment. 2,423,002; June 24.

Breese, James L., and B. Hayter, assignors to Oil Devices, Santa Fe, N. Mex. Burning liquid hydrocarbon. 2,422,653; June 24.

Breuer Electric Mfg. Co., assignee: *See—*
Jason, John P.

Brian, William S., Owensboro, Ky., assignor, by mesne assignments, to General Electric Company. Apparatus for manufacturing electron discharge devices. 2,422,945; June 24.

Brittain, Richard J., Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Railway journal box. 2,422,946; June 24.

Broyles, Grace A., Kenosha, Wis. Hair curler. 2,422,716; June 24.

Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time measuring system. 2,422,654; June 24.

Bruderlin, Henry H., Hermosa Beach, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Method and apparatus for flanging sheet metal. 2,422,883; June 24.

Budd Company, The, assignee: *See—*
Strickland, Harold A., Jr.
Tarbox, John P.

Buegeleisen, Joseph, Detroit, Mich. Motorcycle saddle bag. 2,423,003; June 24.

Bulova Watch Company, assignee: *See—*
Bigelow, Julian H., Harris, and Schweizer.

Burgin, James, Oakland, assignor to Shell Development Company, San Francisco, Calif. Isomerizing olefins using boric oxide on alumina as catalyst. 2,422,884; June 24.

Burrows, Robert J., and A. O. Williams, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Swing link construction. 2,422,885; June 24.

Burt Manufacturing Company, The, assignee: *See—*
Rutter, Walter.

Butler, Henry E., Scotia, N. Y. Tape dispenser. 2,423,004; June 24.

Buxton, James E.: *See—*
Hood, Edwin E., Christian, and Buxton.

Buxton, James E., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Engine starter. 2,423,063; June 24.

Calderazzo, Dominick J., South Orange, N. J. Shoe. 2,422,947; June 24.

Callite Tungsten Corporation, assignee: *See—*
Kurtz, Jacob, Waldie, and Spina.

Cape, Arthur T., Columbus, and C. V. Foerster, assignors to Coast Metals, Inc., Canton, Ohio. Ferrous alloy. 2,422,948; June 24.

Cape, Arthur T., Columbus, and C. V. Foerster, assignors to Coast Metals, Inc., Canton, Ohio. Ferrous alloy. 2,422,949; June 24.

Carboloy Company, Inc., assignee: *See—*
Taylor, George F.

Carnegie-Illinois Steel Corporation, assignee: *See—*
Ayers, Maurice D.

Carner, G., & Co., assignee: *See—*
Bennett, Tom, and Hurst.

Carter Fabrics Corporation, assignee: *See—*
Benn, George F.

Carter, Ralph B., Jr., Maywood, assignor to Ralph B. Carter Company, Hackensack, N. J. Apparatus for effecting clarification of turbid liquids. 2,422,656; June 24.

Carter, Ralph B., Company, assignee: *See—*
Carter, Ralph B., Jr.

Cash, A. W., Company, assignee: *See—*
Temple, Paul C.

Cash, James, San Francisco, Calif. Electrical stove arrngement. 2,422,950; June 24.

Celanese Corporation of America, assignee: *See—*
Prichard, John, and Flitter.

Cellomold Limited, assignee: *See—*
Davies, Drury N., and Churchman.

Chaiken, Hyman F., Wilkes Barre, assignor to Samuel H. French and Co., Philadelphia, Pa. Dental impression equalizers. 2,423,005; June 24.

Chambers, Allan C., and F. B. Willis, assignors to Bendix Aviation Corporation, South Bend, Ind. Brake system. 2,423,006; June 24.

Champion Paper and Fibre Company, The, assignee: *See—*
Steffen, Raymond A.

Chittum, Melvin G., Brooklyn, N. Y. Indicator fuse plug. 2,422,886; June 24.

Christensen, Arthur R., Lockport, N. Y. Brush attachment for liquid applicators. 2,422,823; June 24.

Christian, Frank T.: *See—*
Hood, Edwin E., Christian, and Buxton.

Churchman, Frederick H.: *See—*
Davies, Drury N., and Churchman.

Clark Equipment Company, assignee: *See—*
Burrows, Robert J., and Williams.

Clauson, Gustav A., Highland Park, and R. N. Early, assignors to Electric Machinery Mfg. Company, Minneapolis, Minn. Dynamoelectric machine. 2,422,824; June 24.

Clay Products Association, assignee: *See—*
Keck, George F.

Cleaver, Richard F.: *See—*
Earp, Charles W., James, and Cleaver.

Cleveland, James A., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Hydraulic separation of stones from peas. 2,422,657; June 24.

Coast Metals, Inc., assignee: *See—*
Cape, Arthur T., and Foerster.

Cohen, Aaron: *See—*
Bergel, Franz, Cohen, Morrison, and Moss.

Coleman, Gerald H., and F. B. Smith, assignors to The Dow Chemical Company, Midland, Mich. Amine salts of dinitrophenols. 2,422,658; June 24.

Coleman, Ralph A., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Di (aryl sulfene) amides as co-accelerators. 2,423,007; June 24.

Colonial Radio Corporation, assignee: *See—*
Nicholson, Madison G., Jr.
Pifer, Marion J.
Vorie, Innokent N.

Colwill, Richard H., Chicago, Ill. Toolmaker's utility block. 2,422,773; June 24.

Commercial Solvents Corporation, assignee: *See—*
Morey, Glen H.
O'Loughlin, Walter K.

Conant, Goldsmith H., Jr., Albany, N. Y. Cold sterilizing solutions. 2,422,951; June 24.

Conner, Guy O., Bedford, Ohio. Die set. 2,422,774; June 24.

Conner, Guy O., East Cleveland, Ohio. Die set. 2,422,775; June 24.

Courtaulds Limited, assignee: *See—*
Hall, Ronald Bertram.
Tallis, Ernest E.

Crompton & Knowles Loom Works, assignee: *See—*
Keenan, Charles B.

Croney, William B., assignee: *See—*
Schara, Earl M.

Cuban Dominican Sales Corporation, assignee, et al.: *See—*
Naugle, John J.

Cunny, Walter F., and H. E. King, Jr., assignor, by mesne assignments, to Ideal Industries, Inc., Sycamore, Ill. Wire stripper. 2,422,776; June 24.

Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compound and making the same. 2,422,887; June 24.

Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds and making the same. 2,422,888; June 24.

Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds and making the same. 2,422,889; June 24.

Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds. 2,422,890; June 24.

Dakin, Guy L., Dansville, Mich. Shaping, punching, and trimming die mechanism. 2,422,952; June 24.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,422,717; June 24.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism. 2,422,718; June 24.

Daugherty, George W., Orlando, Fla. Spraying machine. 2,423,008; June 24.

Davies, Drury N. and F. H. Churchman, Feltham, assignors to Cellomold Limited, Feltham, Middlesex, England. Process and apparatus for extruding. 2,422,953; June 24.

Davis, Archibald H., Jr., Cleveland, Ohio, assignor to American Machine and Metals, Inc., East Moline, Ill. Delinting screen. 2,422,825; June 24.

Defoe, William H., Carmi, Ill. Sleeve. 2,423,009; June 24.

Depew, Charles, Oakland, N. J., W. A. Depp, Elmhurst, and A. N. Luce, Port Washington, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spark gap discharge device. 2,422,659; June 24.

Depp, Wallace A.: *See—*
Depew, Charles, Depp, and Luce.

Dickson, William F., St. Louis, Mo. Broom holder. 2,422,891; June 24.

Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Selective reflector. 2,422,954; June 24.

Domoj, John J.: *See*—
  Elder, Robert M., Domoj, Wise, and Konikoff.
Dorr Company, The, assignee: *See*—
  Bhoota, Baboobhai.
Dougherty, Charles A., Wilmington, Del. Keeper inserting tool. 2,423,010; June 24.
Douglas Aircraft Company, Inc., assignee: *See*—
  Bruderlin, Henry H.
Dow Chemical Company, The, assignee: *See*—
  Coleman, Gerald H., and Smith.
Drennan, Harry E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of pure mercaptans. 2,422,826; June 24.
Drieschman, Donald F., San Carlos, G. Shepherd, Burlingame, M. Rabinawitz, San Francisco, A. M. Newhall, Jr., Palo Alto, and H. E. Sorg, Redwood City, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Making grids. 2,422,827; June 24.
Du Bois, William H., assignor to Bendix Aviation Corporation, South Bend, Ind. Disk brake. 2,423,011; June 24.
Duffield, Charles F., Adelaide, South Australia, Australia. Core recovering device. 2,422,955; June 24.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
  Fielitz, Frederick J.
  Hoffman, William A.
  Jennings, Andrew B.
  Schroeder, Herman E., and Mighton.
  Stamatoff, Gelu S.
Early, Rupert N.: *See*—
  Clauson, Gustav A., and Early.
Earp, Charles W., I. R. J. James, and R. F. Cleaver, London, W. C. 2, assignors to Standard Telephones and Cables Limited, London, England. Radio direction finding equipment. 2,423,064; June 24.
Eastern Air Devices, Inc., assignee: *See*—
  Skrobisch, Alfred.
Eastman Kodak Company, assignee: *See*—
  Hull, David C., and Agett.
Eaton, Charles F., Methuen, assignor to Bennett Incorporated, Cambridge, Mass. Dispensing device with tipping trap chamber. 2,422,719; June 24.
Eaton, Wilfred A., assignor to Bendix-Westinghouse Automatic Air Brake Company, Elyria, Ohio. Fluid pressure control mechanism. 2,423,012; June 24.
Edwards, Miles L., Longview, Wash. Vapor separating pump and impeller. 2,422,956; June 24.
Eisenberg, George M., Philadelphia, and J. L. Metzendorf, Jenkintown, Pa., assignors to J. T. Baker Chemical Company, Phillipsburg, N. J. Producing penicillin by mold culture. 2,422,777; June 24.
Eitel-McCullough, Inc., assignee: *See*—
  Becker, George A.
  Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
  Eitel, William W., and McCullough.
  Wolfe, Martin E.
Eitel, William W., and J. A. McCullough, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Thermionic tube. 2,422,828; June 24.
Eksergian, Carolus L., Detroit, Mich., assignor, by mesne assignments, to United States of America. Rocket projectile. 2,422,720; June 24.
Elder, R. M., J. J. Domoj, and E. W. Wise, U. S. Navy, and J. J. Konikoff, U. S. Army, Philadelphia, Pa. Aircraft support for rocket projectiles. 2,422,660; June 24.
Elderfield, Robert C., Hastings-on-Hudson, and J. D. Head, New York, N. Y., assignors to the United States of America as represented by the Director of the Office of Scientific Research and Development. 1-bromo-4-(n-alkylamino)-hexanes and making them. 2,422,957; June 24.
Electric Machinery Mfg. Company, assignee: *See*—
  Clausón, Gustav A., and Early.
Electric Steel Foundry, assignee: *See*—
  Haun, Joye C.
Electro Metallurgical Company, assignee: *See*—
  Seybolt, Alan U.
Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Binocular magnifying lens holder. 2,422,661; June 24.
Embry, Alvin L., Revere, Mass., assignor to General Electric Company. Saturable reactor system. 2,422,958; June 24.
Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for contacting gases with particle form solid materials. 2,423,013; June 24.
Fahrney, Delmer S., U. S. Navy. Glider. 2,422,662; June 24.
Fairey Aviation Company Limited, The, assignee: *See*—
  MacArthur, William W., and Welham.
  Perkins, Reginald.
Farr, William W., Grosse Pointe, Mich., assignor, by mesne assignments, to United States of America. Rocket projectile. 2,422,721; June 24.
Farrell, Richard R.: *See*—
  McElhose, Robert T., and Farrell.
Featherbone, Warren, Co., The, assignee: *See*—
  Haman, Howard H., and Ritzler.
Fellbach, George I.: *See*—
  Volpe, Michael.
Feild, James W., Alexandria, Va. Liquid flow calculator. 2,422,663; June 24.
Feldman, Carl B. H., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wobbled radio carrier communication system. 2,422,664; June 24.
Fielitz, Frederick J., North Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Extrusion apparatus. 2,422,722; June 24.
Finch, William G. H., Newtown, Conn. Color facsimile system. 2,422,778; June 24.
Fisher, Albert T., Hartford, Conn. Closure fastener. 2,422,723; June 24.
Fleer, Harry H., assignor to Gem City Pattern Co., Quincy, Ill. Downdraft magazine heater. 2,422,959; June 24.
Fligel, Eleanor, New York, N. Y. Garment. 2,422,779; June 24.
Flitter, David: *See*—
  Pichard, John, and Flitter.
Foerster, Charles V.: *See*—
  Cape, Arthur T., and Foerster.
Food Machinery Corporation, assignee: *See*—
  Cleveland, James A.
Forbes, Charles F.: *See*—
  Forbes, Frederick H. and C. F.
Forbes, Frederick H., Pasadena, and C. F. Forbes, Los Angeles, Calif. Caster locking attachment. 2,422,892; June 24.
Forkner, Jesse C. and J. H., Fresno, Calif. Coconut method. 2,422,893; June 24.
Forkner, John H.: *See*—
  Forkner, Jesse C. and J. H.
Fotie, Joseph A., Kansas City, Mo. Mat welding device. 2,422,829; June 24.
Fredrickson, Russell H., Minneapolis, and H. N. Stephens, White Bear Lake, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Cementitious surface covering. 2,422,665; June 24.
French, Samuel H., and Co., assignee: *See*—
  Chaiken, Hyman F.
Friedheim, Ernst A. H., New York, N. Y. Substituted 1,3,5 - triazinyl - (6) - aminophenyl - arsenic compounds. 2,422,724; June 24.
Fuller, Calvin S., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polycarbonamides modified by chromic salts. 2,422,666; June 24.
Fulton Sylphon Company, The, assignee: *See*—
  Puster, Louis M.
Garbarino, Frank, Waltham, assignor to Lewis-Shepard Company, Watertown, Mass. Two-wheel warehouse truck. 2,423,065; June 24.
Garner, Philip J.: *See*—
  Myles, James R., and Garner.
Garrett, J. Hubert, Culver City, Calif. Book binding device. 2,422,780; June 24.
Gaw-O'Hara Envelope Company, assignee: *See*—
  Hopkins, Alfred H.
Gem City Pattern Co., assignee: *See*—
  Fleer, Harry H.
General Electric Company, assignee: *See*—
  Bachman, Charles H.
  Brian, William S.
  Embry, Alvin L.
  Hallstrand, Eric A.
  Jones, William L., Jr.
  Martin, Harold M.
  Newell, Heber L.
  Olsen, Arthur A.
  Ring, Robert C.
General Fireproofing Company, The, assignee: *See*—
  Straubel, Clarence W., and Holbrook.
General Motors Corporation, assignee: *See*—
  Alexander, Donald F.
  Anderson, Louis A.
  Brittain, Richard J., Jr.
  Jackson, George W.
  Johnson, Frederick F.
  Rady, William J., and Rice.
General Tire & Rubber Company, The, assignee: *See*—
  Kraft, Herman T.
  O'Neil, William F.
Giannini, Gabriel M., West Los Angeles, assignor to Autoflight Corporation, Burbank, Calif. Elimination of vibration errors in magnetic compasses and the like. 2,422,960; June 24.
Gibson, William T., assignor to Standard Telephones and Cables Limited, London, England. Metal-glass and the like seals. 2,423,066; June 24.
Gilfillan, Paul M., assignor to Shellmar Products Corporation, Mount Vernon, Ohio. Container and seam construction. 2,422,725; June 24.
Gilman, Webster E., assignor to Permoflux Corporation, Chicago, Ill. Pressure-equalizing housing for transducers. 2,423,014; June 24.
Gilmartin, Thomas: *See*—
  Silverman, Daniel, and Gilmartin.
Gisholt Machine Company, assignee: *See*—
  Johnson, Charles H.

Godfrey, Kenneth L.: *See*—
  Blake, Edward S., and Godfrey.
Goepfrich, Rudolph A., and B. E. House, assignors to Bendix Aviation Corporation, South Bend, Ind. Brake adjusting means. 2,423,015; June 24.
Goldacker, Edward H., Jamaica, N. Y., assignor to Michael Yundt Company, Waukesha, Wis. Bottle conveyor. 2,422,726; June 24.
Gollmar, Herbert A., Mount Lebanon, assignor to Koppers Company, Inc., Pittsburgh, Pa. Gas purification apparatus and method. 2,422,781; June 24.
Good, Robert W.: *See*—
  Struk, John, and Good.
Gooding, Francis H., Lodi, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Buoyant electrode. 2,422,727; June 24.
Goodings, Eric P., and M. A. T. Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Substituted 2,4-diaryl-pyrrole compounds and method of producing same. 2,422,667; June 24.
Goodings, Eric P., and M. A. T. Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrrole coloring matters and making same. 2,422,668; June 24.
Goodrich, B. F., Company, The, assignee: *See*—
  Gresham, Thomas L., and Shaver.
Granger, Elmer E., Reno, Nev. Electric outlet box. 2,423,016; June 24.
Grant, Gerald M. M., Los Angeles, Calif. Piston ring. 2,423,017; June 24.
Greenmun, Leo S., Johnson City, N. Y. Gear drive for window regulators and the like. 2,422,830; June 24.
Gresham, Thomas L., and F. W. Shaver, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Reaction of beta-lactone, alcohol and hydrogen halide. 2,422,728; June 24.
Griffoul, Henry M., San Jose, Calif. Rotary drum furnace. 2,423,018; June 24.
Grubb, Fred J., Marshall, Mich. Truss pad. 2,422,894; June 24.
Gygi, Helene B., McHenry, assignor to Melville Keim, Chicago, Ill. Stocking guard. 2,422,669; June 24.
Habenicht, August F., Tinley Park, Ill. Pressing apparatus. 2,422,895; June 24.
Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Selective demethylation of paraffinic hydrocarbons. 2,422,670; June 24.
Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Process for lowering the molecular weight of nonaromatic hydrocarbons. 2,422,671; June 24.
Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Selective demethylation of trimethyl pentanes to form triptane. 2,422,672; June 24.
Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of alkyl aromatic hydrocarbons. 2,422,673; June 24.
Haensel, Vladimir, Clarendon Hills, and V. N. Ipatieff, Chicago, assignors to Universal Oil Products Company, Chicago, Ill. Selected demethylation of saturated hydrocarbons. 2,422,674; June 24.
Haensel, Vladimir, Clarendon Hills, and V. N. Ipatieff, Chicago, assignors to Universal Oil Products Company, Chicago, Ill. Selected demethylation of saturated hydrocarbons. 2,422,675; June 24.
Hagy, James D.: *See*—
  McCorquodale, Wilmer E., Jr., Magill, and Hagy.
Haines, David T., Sr., Dallas, Tex. Shaker for burring small parts. 2,423,019; June 24.
Hall, Ronald B., Coventry, assignor to Courtaulds Limited, London, England. Manufacture of alginate threads. 2,423,075; June 24.
Hall, W. F., Printing Company, assignee: *See*—
  Wendt, Elmer E.
Hallstrand, Eric A., Stratford, Conn., assignor to General Electric Company. Rotating joint for concentric cables. 2,422,961; June 24.
Haman, Howard H., and J. A. Ritzler, assignor to The Warren Featherbone Co., Three Oaks, Mich. Means for producing a waterproof seam for polyvinyl resinous coated fabrics. 2,422,676; June 24.
Hans, Edmund E., Detroit, Mich. Heater. 2,422,831; June 24.
Hansen, Hans H., and C. E. Smith, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Welding apparatus. 2,423,067; June 24.
Harris, Jack M.: *See*—
  Bigelow, Julian H., Harris, and Schweizer.
Hart-Carter Company, assignee: *See*—
  Holtzman, William A.
Haun, Joye C., San Francisco, Calif., assignor to Electric Steel Foundry, Portland, Oreg. Treatment of lumber and other forest products. 2,423,020; June 24.
Hayes, Millard F., assignor to The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y. Clutch mechanism. 2,422,896; June 24.
Hayter, Bruce: *See*—
  Breese, James L., and Hayter.

Head, James D.: *See*—
  Elderfield, Robert C., and Head.
Hearn, Richard B., Hollis, N. Y., and C. B. Sutliff, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Intermediate telegraph repeater for long line spans. 2,422,677; June 27.
Hebard, George P., Davenport, Iowa, and H. E. Sheets, St. Paul, Minn., assignors to American Machine and Metals, Inc., East Moline, Ill. Cleaning fabrics. 2,422,897; June 24.
Hecht, George, Astoria, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time measuring system. 2,422,655; June 24.
Helbig, Hugo, Racine, Wis. Lawn perforating machine. 2,422,729; June 24.
Helliwells Limited, assignee: *See*—
  Ransom, Jack.
Hemming, Harold, Dedham, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Overhead air distributing duct for a vehicle having a means for mixing cold and recirculated air. 2,422,782; June 24.
Henckler, Edward, Jersey City, and H. Weber, Ridgefield Park, N. J. Resistor ballast. 2,423,021; June 24.
Hendley, James A., assignor to The Russell Manufacturing Company, Middletown, Conn. Cartridge feed belt for machine guns. 2,422,898; June 24.
Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Welding electrode cooling. 2,422,962; June 24.
Herck, John, New York, N. Y. Combination coin holder, date dial, and photo locket. 2,422,678; June 24.
Herkenhoff, Earl C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Froth flotation of silica from iron ore by anionic collectors. 2,423,022; June 24.
Hershberger, William D., Collingswood, N. J., assignor to Radio Corporation of America. Obstacle detection by radio wave. 2,423,023; June 24.
Hershberger, William D., Haddonfield, N. J., assignor to Radio Corporation of America. Radio pulse altimeter and object detector. 2,423,024; June 24.
Hershey, Naaman G., Manheim, Pa. Transplanter. 2,422,832; June 24.
Hess, Alexander McD., Jamaica, N. Y. Means for forming pleats. 2,422,963; June 24.
Hibbard, Robert L., Bellevue, assignor of one-half to W. K. Stamets, Mars, Pa., S. C. Hibbard, R. L. Hibbard, Jr., and H. M. Junkin, executors of said Robert L. Hibbard, deceased. Lathe. 2,422,964; June 24.
Hibbard, Robert L., Jr., executor, assignee, et al.: *See*—
  Hibbard, Robert L.
Hibbard, Stewart C., executor, assignee, et al.: *See*—
  Hibbard, Robert L.
Hieronymus, John W.: *See*—
  Monroe, Rollo O., and Hieronymus.
Hill, Arthur J.: *See*—
  Holmes, Roger G., and Hill.
Hirschland, Herbert E., Cranford, and S. Ricklin, Rahway, N. J., assignors to Metal & Thermit Corporation, New York, N. Y. Aluminothermic unit. 2,422,965; June 24.
Hobson, H. M., Limited, assignee: *See*—
  Stokes, Philip H.
Hoe, R., & Co., Inc., assignee: *See*—
  Horton, Albert J., and Wieking.
Hoffman, William A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Flameproofed film and process. 2,422,730; June 24.
Hoffmann-La Roche Inc., assignee: *See*—
  Bergel, Franz, Cohen, Morrison, and Moss.
  Wuest, Heinz M.
  Zentner, Margaret R.
Hogdal, Stig B., Danderyd, Sweden. Package. 2,422,899; June 24.
Holbrook, John S.: *See*—
  Straubel, Clarence W., and Holbrook.
Holmes, Roger B., South River, N. J., and A. J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkamine esters of diarylpropionic acids. 2,423,025; June 24.
Holte, John C., Edmonton, Albert, Canada. Whiffletree hook. 2,422,731; June 24.
Holtzman, William A., assignor to Hart-Carter Company, Peoria, Ill. Adjustable bar, frame thresher screen. 2,423,026; June 24.
Hood, Edwin E., F. T. Christian, and J. E. Buxton, Elmira, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,423,068; June 24.
Hoover, Walter S., Montreal, Quebec, Canada. Propeller control. 2,422,966; June 24.
Hopkins, Alfred J., River Forest, assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Express receipt holder. 2,423,027; June 24.
Horton, Albert J., White Plains, and W. C. Wieking, Woodhaven, assignors to R. Hoe & Co., Inc., New York, N. Y. Electric controller for multiunit machines. 2,423,028; June 24.
Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Producing diolefins. 2,423,029; June 24.
Houdry Process Corporation, assignee: *See*—
  Houdry, Eugene J.
House, Bryan E.: *See*—
  Goepfrich, Rudolph A., and House.

Hubalek, Arthur, Brooklyn, N. Y. Firing mechanism. 2,422,900; June 24.

Hull, David C., Oak Ridge, and A. H. Agett, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing enol esters of aldehydes. 2,422,679; June 24.

Hultsch, Ray, Melrose Park, Ill. Pants hanger. 2,422,732; June 24.

Hunter, George D., Rocky Mount, N. C. Rotary pump. 2,422,901; June 24.

Hurst, Edward: *See*—
Bennett, Tom, and Hurst.

Huston, Kenneth M., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrolytically cleaning and plating conductors consisting principally of copper. 2,422,902; June 24.

Huston, Kenneth M., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Process for electrolytically treating stainless steel articles. 2,422,903; June 24.

Ideal Industries, Inc., assignee: *See*—
Cunny, Walter F., and King.

Imperial Chemical Industries Limited, assignee: *See*—
Curd, Francis H. S., and Rose.
Goodings, Eric P., and Rogers.
Myles, James R., and Garner.

Ingersoll-Rand Company, assignee: *See*—
Baker, Charles S.
Jimerson, Francis A.

Inghram, Mark G.: *See*—
Nier, Alfred O. C., Ney, and Inghram.

Inhoffen, Hans H., Berlin-Wilmersdorf, and G. Zühlsdorff, Berlin, N 65, Germany, assignors to Schering Corporation, Bloomfield, N. J. Preparing 1,4 androstadienol-17-one-3 and its derivatives. 2,422,904; June 24.

Ipatieff, Vladimir N.: *See*—
Haensel, Vladimir, and Ipatieff.

Iron Fireman Manufacturing Company, assignee: *See*—
Webb, Ernest C.

Isbell, William T., Herculaneum, Mo., assignor to St. Joseph Lead Company, New York, N. Y. Refining of lead. 2,422,967; June 24.

I-T-E Circuit Breaker Company, assignee: *See*—
Jensen, Otto.
Pokorny, Frank J.
Scott, William M., Jr.

Jackson, George W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Control mechanism for reversible electric motors. 2,422,905; June 24.

Jacobson, Charles, New York, assignor to S. & S. Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Skip feed mechanism. 2,422,783; June 24.

James, Ivor R. J.: *See*—
Earp, Charles W., James, and Cleaver.

Jason, John P., assignor to Breuer Electric Mfg. Co., Chicago, Ill. Suction-blower device. 2,422,968; June 24.

Jennings, Andrew B., New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing hydrophilic color-former silver halide dispersions. 2,422,680; June 24.

Jensen, Otto, Malvern, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breaker. 2,422,784; June 24.

Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Speed responsive fluid motor throttling and shutoff valve means. 2,422,733; June 24.

Johns, Robert I., Brooklyn, N. Y. Decorative products comprising glass fibers. 2,422,969; June 24.

Johnson, Charles H., assignor to Gisholt Machine Company, Madison, Wis. Air chuck. 2,422,785; June 24.

Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Machine tool control. 2,422,681; June 24.

Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Machine tool control. 2,422,682; June 24.

Johnson Corporation, The, assignee: *See*—
Monroe, Rollo O., and Hieronyms.

Johnson, Frederick F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Star-delta motor controller. 2,422,906; June 24.

Johnson, James N., assignee: *See*—
McClain, Marvin P.

Johnson, John A., Brown Edge, Stoke-on-Trent, England. Elevator type means for drying ceramic ware. 2,423,030; June 24.

Johnson, Paul R., Claymont, Del., assignor to the United States of America, as represented by the Director of the Office of Scientific Research and Development. Purification of acid potassium fluorides. 2,422,907; June 24.

Johnson's Company, assignee: *See*—
Pharo, Lee C.

Jones, William L., Jr., Schenectady, N. Y., assignor to General Electric Company. Photoelectric discharge device. 2,422,970; June 24.

Jung, Erwin P., Paris, France, vested in the Attorney General of the United States. Device for regulating the temperature of electric furnaces of the resistance type. 2,422,734; June 24.

Junkin, Hays M., executor, assignee, et al.: *See*—
Hibbard, Robert L.

Kaemmerling, Gustav H., assignor to Lord Manufacturing Company, Erie, Pa. Rubber mounting. 2,422,683; June 24.

Kahn, Samuel, Bridgeport, Conn., assignor to Manning Maxwell & Moore, Incorporated, New York, N. Y. Mounting dial instruments. 2,422,908; June 24.

Kalichevsky, Vladimir A.: *See*—
Lee, Russell, Noll, and Kalichevsky.

Kamborian, Jacob S., West Newton, Mass., and W. T. Tracy, New York, N. Y., said Tracy assignor to said Kamborian. Force lasted shoe. 2,422,684; June 24.

Kangas, Oscar A., Frazee, Minn. Safety starter switch. 2,422,909; June 24.

Katinos, John, Jr., Oakmont, Pa. Apparatus for loading trucks. 2,422,910; June 24.

Keck, George F., assignor to Clay Products Association, Chicago, Ill. Radiant heating for buildings. 2,422,685; June 24.

Keefer, Walter L., assignor to Pangborn Corporation, Hagerstown, Md. Tumbling mill and method of tumbling. 2,422,786; June 24.

Keenan, Charles B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft, detector for looms. 2,422,911; June 24.

Keim, Melville, assignee: *See*—
Gygi, Helene B.

Kell, Ray D., and W. A. Tolson, Princeton, N. J., assignors to Radio Corporation of America. Heat responsive indicator. 2,422,971; June 24.

Kellogg, M. W., Company, The, assignee: *See*—
Passino, Herbert J., and Rearick.

Kimber, Arthur: *See*—
Wachter, Lester W., and Kimber.

King, Harvey E., Jr.: *See*—
Cunny, Walter F., and King.

King, Ronald D., and N. F. Wood, Portsmouth, England. Stiff nut. 2,422,833; June 24.

Kleinman, Jacob L., New York, N. Y. Shoulder pad. 2,422,834; June 24.

Kling, William F., assignor to The Murray Corporation of America, Detroit, Mich. Closure for automobile bodies of station wagon type. 2,422,912; June 24.

Klinke, Henry O., Forest Hills, N. Y., assignor to Air Reduction Company, Incorporated. Method and apparatus for trimming and butt welding the ends of metal strips, plates, and the like. 2,422,787; June 24.

Knowles, Frank W., Seattle, Wash. Winged-strap rotary compressor. 2,422,972; June 24.

Konikoff, John J.: *See*—
Elder, Robert M., Domoj, Wise, and Konikoff.

Koppers Company, Inc., assignee: *See*—
Gollmar, Herbert A.

Kosey, Elwin R., Ontonagon, Mich. Bow facing oarlock. 2,422,835; June 24.

Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Retread vulcanizing device. 2,422,788; June 24.

Kurtz, Jacob, Teaneck, N. J., J. Waldie, New York, N. Y., and J. Spina, Cliffside Park, assignors to Callite Tungsten Corporation, Union City, N. J. Fluorescent gaseous discharge lamp system and thermal starting switch. 2,423,031; June 24.

La Guardia, Louis E., New York, N. Y. Automatic cleaning means for filters. 2,422,735; June 24.

Laliberte, Albert J., Naugatuck, assignor to Safety-Fuel Incorporated, West Cheshire, Conn. Burner construction for vaporizable liquid fuel. 2,422,686; June 24.

Lambert, Clare A., Los Angeles, Calif. Fourchette toe hosiery. 2,422,736; June 24.

Larivière, Joseph A., Ste. Henedine, Quebec, Canada. Mudguard for bicycles. 2,422,836; June 24.

Larsen, Earl L.: *See*—
Hensel, Franz R., and Larsen.

Latham, Allen, Jr., Jamaica Plain, assignor to Arthur D. Little, Inc., Cambridge, Mass. Compressor-motor apparatus. 2,422,789; June 24.

Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and machine for turning the platform covers of platform shoes. 2,422,737; June 24.

Leach, John M., Port Washington, N. Y. Amusement device. 2,422,913; June 24.

Le Beau, Rèe V., Cambridge, Mass., assignor, by mesne assignments, to Midwest Rubber Reclaiming Company, East St. Louis, Ill. Reclaiming synthetic rubber with an amine. 2,423,032; June 24.

Le Beau, Rèe V., Cambridge, Mass., assignor, by mesne assignments, to Midwest Rubber Reclaiming Company, East St. Louis, Ill. Reclaiming synthetic rubbers with a fatty acid and live steam. 2,423,033; June 24.

Lee, Russell, and H. D. Noll, Wenonah, and V. A. Kalichevsky, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method of coking oils. 2,422,790; June 24.

Leffer, Frederick W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Endothermic catalytic conversion of hydrocarbons. 2,422,791; June 24.

Lehde, Henry, assignor to S. Shefsky, Brooklyn, and P. Le Rudich, New York, N. Y. Garment trimming machine. 2,422,914; June 24.

Lenke, George H., Elmhurst, assignor of one-half to J. J. Ohlis, Oak Park, Ill. Panel construction. 2,422,837; June 24.

Lentz, Jesse J., Statesville, N. C. Control for knitting machines. 2,422,738; June 24.

Le Rudich, Philip, assigne, et al.: *See*—
Lehde, Henry.

Lewis, Robert P., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Driving axle construction for independently sprung vehicle wheels. 2,422,739; June 24.

Lewis-Shepard Company, assignee: *See*—
Garbarino, Frank.

Lewis, William H., Los Angeles, Calif. Carriage means for road vehicles. 2,422,792; June 24.

Lilienthal, James R., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyrocompass amplifier circuit. 2,422,687; June 24.

Lilly, Richard C., assignee: *See*—
Tooby, George.

Lippert, Paul, Chicago, Ill. Venetian blind. 2,422,915; June 24.

Lisenbee, Rayford, Winona, Miss. Convertible music stand. 2,423,034; June 24.

Little, Arthur D., Inc., assignee: *See*—
Latham, Allen, Jr.

Lord Manufacturing Company, assignee: *See*—
Kaemmerling, Gustav H.

Lott, William A., Maplewood, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Composition comprising colloidal silver salt of sulfa drug. 2,422,688; June 24.

Luce, Alfred N.: *See*—
Depew, Charles, Depp, and Luce.

Lucero, Juan D., Mendoza, Argentina. Fruit juice concentrator. 2,423,035; June 24.

Lyon, George A., Allenhurst, N. J. Wheel cover. 2,422,689; June 24.

Lyon, George A., Allenhurst, N. J. Vehicle wheel cover. 2,422,690; June 24.

MacArthur, William W., Gerrards Cross, and G. L. F. Welham, South Ruislip, assignors to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Apparatus for flanging sheet metal strips 2,422,838; June 24.

MacCluney, William R., Dearborn, Mich. Pelican hook. 2,422,916; June 24.

Machine & Tool Designing Company, assignee: *See*—
Pecker, Joseph S.

Mageoch, Nelson H., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembling machine. 2,423,036; June 24.

Magill, Lloyd G.: *See*—
McCorquodale, Wilmer E., Jr., Magill, and Hagy.

Mahan, John E.: *See*—
Schulze, Walter A., and Mahan.

Mallory, P. R., & Co., Inc., assignee: *See*—
Hensel, Franz R., and Larsen.
Smith, Cleveland S., Jr., and Blumenthal.

Mallouf, John, Las Vegas, N. Mex. Garment press having a steaming device. 2,422,917; June 24.

Manning, Maxwell & Moore, Incorporated, assignee; *See*—
Kahn, Samuel.

Marco Chemicals, Inc., assignee: *See*—
Muskat, Irving E.

Marquis, John F., and C. T. Weibler, assignors to Operadio Manufacturing Co., St. Charles, Ill. Electrodynamic loud-speaker. 2,423,037; June 24.

Martin, Harold M., Schenectady, N. Y., assignor to General Electric Company. Rotation indicating signal system and control device. 2,422,973; June 24.

Maskey, James J., Detroit, Mich. Release coupling for parachutes. 2,422,839; June 24.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Prismatic radiating navigational system. 2,422,691; June 24.

Mattox, William J., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of a normally gaseous olefin other than ethylene to isobutane. 2,422,692; June 24.

Mawdsley's Limited, assignee: *See*—
Minchin, Cecil W. H., and Parsons.

Mayer, John L., Kansas City, Mo. Window guard. 2,422,840; June 24.

McAfee, Jerry, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of fluid hydrocarbons. 2,422,793; June 24.

McArthur, Warren, Bantam, Conn., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Attaching device. 2,422,693; June 24.

McClain, Marvin P., Richmond, Va., assignor of one-half to J. N. Johnson, Baltimore, Md. Fastening device. 2,422,841; June 24.

McCollough, Jack A.: *See*—
Eitel, William W., and McCollough.

McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Wall-mounted ram-type aircraft heater. 2,422,694; June 24.

McCollum, Thelma, executrix: *See*—
McCollum, Henry J. D.

McCroquodale, Wilmer E., Jr., Ardentown, Del., L. G. Magill, Chester, and J. D. Hagy, Wallingford, assignors to Sun Oil Company, Philadelphia, Pa. Extraction of saponifiable acids. 2,422,794; June 24.

McElhose, Robert T., and R. R. Farrell, assignors to Universal Lubricating Systems, Inc., Oakmont, Pa. Swivel attachment for couplers. 2,423,069; June 24.

McKnight, Laurence J., Lakewood, Ohio. Lock. 2,422,795; June 24.

McRae, James W., Arlington, Va., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Suppression of parasitic oscillations in high-frequency devices. 2,422,695; June 24.

Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Timing circuit. 2,422,696; June 24.

Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Viewing system. 2,422,697; June 24.

Merwin, Harry H., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembling apparatus. 2,423,038; June 24.

Metal & Thermit Corporation, assignee: *See*—
Hirschland, Herbert E., and Ricklin.

Metzendorf, Joseph L.: *See*—
Eisenberg, George M., and Metzendorf.

Midwest Rubber Reclaiming Company, assignee: *See*—
Le Beau, Rèe V.

Mighton, Charles J.: *See*—
Schroeder, Herman E., and Mighton.

Miller, Lauritz N., Eugene, Oreg. Differential convertable gasoline-Diesel engine. 2,423,039; June 24.

Miller, Ohmer R., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time measuring system. 2,422,698; June 24.

Mills, Herbert E., assignor to The Murray Corporation of America, Detroit, Mich. Burner grid. 2,422,918; June 24.

Minchin, Cecil W. H., and A. J. Parsons, assignors to Mawdsley's Limited, Dursley, England. Dynamoelectric machine. 2,423,040; June 24.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Mining Engineering Company Limited, The, assignee: *See*—
Myborg, Tage G.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Fredrickson, Russell H., and Stephens.

Miskunas, Anton F., Chicago, Ill. Dental crown cap press. 2,423,041; June 24.

Molyneux, Cecil P., Great Neck Estates, and V. D. Roosa, Ardsley, assignors to Queensboro Manufacturing Company, Long Island City, N. Y. Rotary relay and contacts therefor. 2,422,842; June 24.

Monroe, Rollo O, and J. W. Hieronymus, assignors to The Johnson Corporation, Three Rivers, Mich. Valve construction. 2,422,796; June 24.

Monsanto Chemical Company, assignee: *See*—
Blake, Edward S., and Godfrey.

Mooradian, George, Los Angeles, Calif. Universal cut-off saw. 2,422,843; June 24.

Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. 2-thiocyanomethyl-5-hydroxy-1,4-pyrone and method for preparing it. 2,422,740; June 24.

Morley, Earle V., Oakland, Calif. Plain bearing lubricator. 2,422,741; June 24.

Morrison, Alexander L.: *See*—
Bergel, Franz, Cohen, Morrison, and Moss.

Moss, Albert R.: *See*—
Bergel, Franz, Cohen, Morrison, and Moss.

Mullaney, Richard L., Avon, assignor to The Whitney Chain & Mfg. Co., Hartford, Conn. Clevis construction. 2,422,844; June 24.

Murray Corporation of America, The, assignee: *See*—
Kling, William F.
Mills, Herbert E.

Murray Manufacturing Corporation, assignee: *See*—
Struk, John, and Good.

Muskat, Irving E., Plainfield, assignor to Marco Chemicals, Inc., Sewaren, N. J. Polymerizable mixed ester of an unsaturated polycarboxylic acid, phthalic acid, and a lower aliphatic glycol. 2,423,042; June 24.

Myles, James R., and P. J. Garner, Northwich, England, assignors to Imperial Chemical Industries Limited. Manufacture of chlorinated polythenes. 2,422,919; June 24.

National Lead Company, assignee: *See*—
Ratcliffe, George L.

National Sewing Machine Company, assignee: *See*—
Best, Clarence S.

National Slug Rejectors, Inc., assignee: *See*—
Wallin, Fred E.

National Transitads Inc., assignee: *See*—
Tingdale, Warren.

Naugle, John J., assignor of two-fifths to Andres Bay Trading Corporation, and two-fifths to Cuban Dominican Sales Corporation, New York, N. Y. Defecation of sugar solutions. 2,422,699; June 24.

- Newell, Heber L., Bridgeport, Conn., assignor to General Electric Company. Control means for pressure cookers and the like. 2,422,974; June 24.
- Newell, Norman A., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Reciprocal signaling trunk telephone system. 2,422,700; June 24.
- Newhall, Almer M., Jr.: *See—*
  - Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
- New Jersey Zinc Company, The, assignee: *See—*
  - Rodda, John L.
- Ney, Edward P.: *See—*
  - Nier, Alfred O. C., Ney, and Inghram.
- Nichols, Harry J., New York, N. Y. Armor-piercing drop bomb. 2,422,920; June 24.
- Nicholson, Madison G., Jr., Snyder, assignor to Colonial Radio Corporation, Buffalo, N. Y. Remote control of deflection in cathode-ray tubes. 2,422,975; June 24.
- Nicholson, Madison G., Jr., Snyder, assignor to Colonial Radio Corporation, Buffalo, N. Y. Noise reducer for amplitude modulation reception. 2,422,976; Jan. 24.
- Nier, Alfred O., New York, N. Y., E. P. Ney, Charlottesville, Va., and M. G. Inghram, New York, N. Y., assignors to the United States of America, as represented by the Director of the Office of Scientific Research and Development. Adjustable capillary leak. 2,422,921; June 24.
- Niskanen, John E., Detroit, Mich. Clothes hanger. 2,422,845; June 24.
- Noll, Henry D.: *See—*
  - Lee, Russell, Noll, and Kalichevsky.
- Nowak, Milton, Brooklyn, N. Y., assignor to Nuodex Products Co., Inc., Elizabeth, N. J. Aryl polymercury naphthenates and their production. 2,423,044; June 24.
- Nudelman, Harry M. and L., Chicago, Ill. Necktie rack. 2,422,922; June 24.
- Nudelman, Louis: *See—*
  - Nudelman, Harry M. and L.
- Nuodex Products Co., Inc., assignee: *See—*
  - Nowak, Milton.
- Nyborg, Tage G., assignor of one-half to The Mining Engineering Company Limited, Worcester, England. Mechanical loader. 2,422,977; June 24.
- Odessey, Paul H., Brooklyn, N. Y., assignor, by mesne assignments, to Portable Products Corporation, Pittsburgh, Pa. Meter for measuring moisture content. 2,422,742; June 24.
- Ohlis, Julius J., assignee: *See—*
  - Lenke, George H.
- Oil Devices, assignee: *See—*
  - Breese, James L., and Hayter.
- Okonite-Callender Cable Company, Incorporated, The, assignee: *See—*
  - Gooding, Francis H.
- Old King Cole, Incorporated, assignee: *See—*
  - Adams, Douglas D., and Rollius.
- O'Loughlin, Walter K., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Preparation of amines. 2,422,743; June 24.
- Olsen, Arthur A., Pittsfield, Mass., assignor to General Electric Company. Lightning arrester. 2,422,978; June 24.
- Olstad, Calmer, Nerstrand, Minn. Clutch control. 2,423,043; June 24.
- Omes Limited, assignee: *See—*
  - Rogati, Carlo.
- O'Neil, William F., assignor to The General Tire & Rubber Company, Akron, Ohio. Auxiliary jet power means for aircraft. 2,422,744; June 24.
- Operadio Manufacturing Co., assignee: *See—*
  - Marquis, John F., and Weibler.
- Ost, Clarence S., Atlantic City, N. J. Proportional ruler. 2,422,745; June 24.
- Pabst Brewing Company, assignee: *See—*
  - Rue, Harold E.
- Pangborn Corporation, assignee: *See—*
  - Keefer, Walter L.
- Parsons, A. J.: *See—*
  - Minchin, Cecil W. H., and Parsons.
- Passino, Herbert J., Englewood, and J. S. Rearick, Short Hills, assignors to The M. W. Kellogg Company, Jersey City, N. J. Liquid phase catalytic reactions of hydrocarbons. 2,423,045; June 24.
- Patterson Industries Incorporated, assignee: *See—*
  - Patterson, William N.
- Patterson, Vivian A., Opelousas, La. Garment shoulder strap and fastening means therefor. 2,423,046; June 24.
- Patterson, William N., assignor to Patterson Industries Incorporated, Detroit, Mich. Airplane wing deicer. 2,422,746; June 24.
- Pecker, Joseph S., assignor to Machine & Tool Designing Company, Philadelphia, Pa. Apparatus for fabricating parts by bonding strips of material. 2,422,979; June 24.
- Peil, Joseph, Detroit, Mich. Arch support. 2,422,923; June 24.
- Perkins, Reginald, Hayes, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Apparatus for flanging sheet metal strips. 2,422,846; June 24.
- Permoflux Corporation, assignee: *See—*
  - Gilman, Webster E.
- Peter, Hugo, Milwaukee, Wis. Automatic light control. 2,422,847; June 24.
- Peters, William R., Yreka, Calif. Tire lifting tool. 2,422,848; June 24.
- Petrolite Corporation, Ltd., assignee: *See—*
  - Blair, Charles M., Jr.
- Pfingsten, August F., Rock Rapids, Iowa. Tractor operated log and tree saw. 2,423,047; June 24.
- Pfleumer, Hans, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y. Leakproof fuel tank. 2,422,797; June 24.
- Pharo, Lee C., Thetford Mines, Quebec, assignor to Johnson's Company, Thetford Mines West, Quebec, Canada. Asbestos spinning fiber. 2,422,980; June 24.
- Phillips Petroleum Company, assignee: *See—*
  - Drennan, Harry E.
  - Schulze, Walter A., and Mahan.
- Photoswitch Incorporated, assignee: *See—*
  - Wolfner, William F., II.
- Pifer, Marion J., Williamsville, assignor to Colonial Radio Corporation, Buffalo, N. Y. Push button for radio receivers. 2,422,981; June 24.
- Pines, Herman, assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon reactions in the presence of aluminum halide-olefinic ketone complexes. 2,422,798; June 24.
- Plagemann, Werner, Berlin, Germany; vested in the Attorney-General of the United States. Screw threading machine. 2,422,849; June 24.
- Poch, Anthony, Fernie, British Columbia, Canada. Book holder. 2,423,048; June 24.
- Pokorny, Frank J., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breaker. 2,422,799; June 24.
- Portable Products Corporation, assignee: *See—*
  - Odessey, Paul H.
- Porter, Finley R., Southampton, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Hydraulic coupling type of variable-speed transmission. 2,422,850; June 24.
- Premier Crystal Laboratories, Inc., assignee: *See—*
  - Bach, Henry M.
- Price, Earl R.: *See—*
  - Thomas, Thomas H., and Price.
- Prichard, John, Bloomfield, and D. Flitter, Newark, N. J., assignors to Celanese Corporation of America. Cellulose ether plastic and a canteen made thereof. 2,422,747; June 24.
- Progressive Welder Company, assignee: *See—*
  - Bagley, William H., Jr.
- Puster, Louis M., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 2,422,924; June 14.
- Putnam, John P., Boston, Mass., assignor to The Reece Corporation. Angle-measuring instrument. 2,423,049; June 24.
- Quackenbush, Edward C., Roselle, Ill. Coaxial cable connector. 2,422,982; June 24.
- Quaker Oats Company, The, assignee, et al.: *See—*
  - Turner, Charles W., and Reineke.
- Queensboro Manufacturing Company, assignee: *See—*
  - Molyneux, Cecil P., and Roosa.
- Rabinawitz, Mendel: *See—*
  - Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
- Radio Corporation of America, assignee: *See—*
  - Dimmick, Glenn L.
  - Hershberger, William D.
  - Kell, Ray D., and Tolson.
  - Smith, Perry C.
- Rady, William J., and L. A. Rice, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Resistance unit for battery filter plugs. 2,422,925; June 24.
- Ramsey, Charles L., Los Angeles, Calif. Tool holder. 2,422,983; June 24.
- Randall, Mildred, Berkeley, Calif. Rain legging. 2,422,851; June 24.
- Ransom, Jack, Cardiff, Wales, assignor to Helliwells Limited, Stratford-on-Avon, England. Apparatus for die-shaping sheet metal. 2,422,800; June 24.
- Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Window system. 2,422,984; June 24.
- Rasmussen, Carl J., Berkeley, Calif. Electric engine order telegraph system. 2,422,701; June 24.
- Ratcliffe, George L., assignor to National Lead Company, Los Angeles, Calif. Detecting oil dispersed in well drilling fluids. 2,422,852; June 24.
- Rauland Corporation, The, assignee: *See—*
  - Antalek, John J.
  - Szegho, Constantin S.
- Rearick, John S.: *See—*
  - Passino, Herbert J.

- Reckler, Laurence L., Sparks, Nev. Earth handling implement. 2,422,985; June 24.
- Reconstruction Finance Corporation, assignee: *See—*
  - McArthur, Warren.
- Reece Corporation, The, assignee: *See—*
  - Putnam, John P.
- Reeves, Howard F., Jr., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Alkyl-substituted aromatic sulfonates. 2,422,926; June 24.
- Reineke, Ezra P.: *See—*
  - Turner, Charles W., and Reineke.
- Reising, Eugene G., Hartford, Conn. Bolt stop for firearms. 2,422,853; June 24.
- Reising, Eugene G., Hartford, Conn. Disconnector for firearms. 2,422,854; June 24.
- Reynolds, Frank P., assignor to Bird & Son, inc., East Walpole, Mass. Manufacture of artificially colored granules. 2,422,927; June 24.
- Rice, Lyman A.: *See—*
  - Rady, William J., and Rice.
- Ricklin, Saul: *See—*
  - Hirschland, Herbert E., and Ricklin.
- Ring, Robert C., Schenectady, N. Y., assignor to General Electric Company. Time delay relay. 2,422,986; June 24.
- Ritzler, John A.: *See—*
  - Haman, Howard H., and Ritzler.
- Roberts, Earle L., Modesto, Calif. Storage warehouse providing for the dissipation of moisture released from stored dehydrated fruits. 2,422,987; June 24.
- Rockwood & Co., assignee: *See—*
  - Zenlea, Benjamin H.
- Rodanet, Charles Hilaire Henri, Neuilly-sur-Seine, France, vested in the Attorney General of the United States. Apparatus for testing altimetric devices. 2,422,702; June 24.
- Rodda, John L., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. High manganese brass. 2,422,703; June 24.
- Rogati, Carlo, assignor to Omes Limited, London, England. Electrical forging machine. 2,422,928; June 24.
- Rogers, Argiel W., Long Beach, Calif. Artificial limb. 2,422,748; June 24.
- Rogers, Maurice A. T.: *See—*
  - Goodings, Eric P., and Rogers.
- Rohling, William J., Los Angeles, Calif. Plumbing trap having means for clearing the same of stoppage. 2,422,801; June 24.
- Roller, James A., Dayton, Ohio. Weed remover. 2,422,929; June 24.
- Rollius, Karl: *See—*
  - Adams, Douglas D., and Rollius.
- Roosa, Vernon D.: *See—*
  - Molyneux, Cecil P., and Roosa.
- Rose, Francis L.: *See—*
  - Curd, Francis H. S., and Rose.
- Rougas, Jon N., Brigham, Utah. Paper roll holder. 2,422,749; June 24.
- Rubatex Products, Inc., assignee: *See—*
  - Pfleumer, Hans.
- Ruben, Samuel, assignee, et al.: *See—*
  - Smith, Cleveland S., Jr., and Blumenthal.
- Rubinoff, Mark: *See—*
  - Artzt, William, and Rubinoff.
- Rue, Harold E., Wauwatosa, assignor to Pabst Brewing Company, Milwaukee, Wis. Plastic bottle crowner. 2,422,750; June 24.
- Rundell, Raymond R., Miami, Fla. Wire swivel. 2,423,050; June 24.
- Russell, F. C., Company, The, assignee: *See—*
  - Russell, Frank C., and Barker.
- Russell, Frank C., Euclid, and A. S. Barker, assignors to The F. C. Russell Company, Cleveland, Ohio. Closure device for building apertures. 2,422,704; June 24.
- Russell Manufacturing Company, The, assignee: *See—*
  - Hendley, James A.
- Rutledge, Leonard J., Jackson, Mich. Folding trailer boat. 2,422,930; June 24.
- Rutter, Walter, Peninsula, assignor to The Burt Manufacturing Company, Akron, Ohio. Ventilator construction. 2,422,855; June 24.
- S. & S. Corrugated Paper Machinery Co., Inc., assignee: *See—*
  - Jacobson, Charles.
- Sachtleber, Rudolph H., East Orange, N. J. Measuring instrument. 2,422,931; June 24.
- Safety-Fuel Incorporated, assignee: *See—*
  - Laliberte, Albert J.
- Saint Clair, Gordon, Chicago, Ill. Dispensing package for commodity sticks. 2,422,705; June 24.
- St. Joseph Lead Company, assignee: *See—*
  - Isbell, William T.
- Sandy Hill Iron & Brass Works, The, assignee: *See—*
  - Hayes, Millard F.
- Sayles, Theo C., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Coaster brake. 2,423,070; June 24.
- Schara, Earl M., Washington, D. C., assignor of one-half to W. B. Croney, Chicago, Ill. Tilting electric flatiron. 2,422,856; June 24.
- Schelling, William T., Oakland, and J. Anderson, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Dehydration of diacetone glycol to form a methyl pentadiene. 2,422,802; June 24.
- Schering Corporation, assignee: *See—*
  - Inhoffen, Hans H., and Zühlsdorff.
- Schigut, Emil A., Van Nuys, Calif. Automatic slotting machine. 2,422,803; June 24.
- Schneider, Edgar R., St. Louis, Mo., assignor of one-tenth to said Schneider, as trustee for O. H. Anderson, Salt Lake City, Utah. Carburetor. 2,422,751; June 24.
- Schockett, Harry U., Denver, Colo. Fluorescent lamp fixture. 2,422,857; June 24.
- Schockett, Harry U., Denver, Colo. Support for fluorescent lamp fixtures. 2,422,858; June 24.
- Schroeder, Herman E., Brandywine Hundred, and C. J. Mighton, Christiana Hundred, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Improved synthetic rubbers. 2,422,932; June 24.
- Schroeder, Walter H., Los Angeles, Calif. Kite. 2,422,804; June 24.
- Schulze, Walter A., and J. E. Mahan, Bartlesville, Okla., assignors to Phillips Petroleum Company. Production of nitriles of unsaturated acids. 2,422,859; June 24.
- Schurter, Cornelius D., Long Beach, Calif. Direction signal for vehicles. 2,422,988; June 24.
- Schweizer, M. Norman: *See—*
  - Bigelow, Julian H., Harris, and Schweizer.
- Scientific Research and Development, United States of America, as represented by the Director of the Office of, assignee: *See—*
  - Elderfield, Robert C., and Head.
  - Johnson, Paul R.
  - Nier, Alfred O. C., Ney, and Inghram.
- Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Air blast circuit breaker. 2,422,805; June 24.
- Scovill Manufacturing Company, assignee: *See—*
  - Seyfried, Arthur W.
- Sealtag, Inc., assignee: *See—*
  - Artzt, William, and Rubinoff.
- Seybolt, Alan U., Columbus, Ohio, assignor, by mesne assignments, to Electro Metallurgical Company. Alpha copper alloys. 2,422,752; June 24.
- Seyfried, Arthur W., Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vacuum cleaner. 2,422,860; June 24.
- Shaver, Forrest W.: *See—*
  - Gresham, Thomas L., and Shaver.
- Sheets, Herman E.: *See—*
  - Hebard, George P., and Sheets.
- Shefsky, Samuel, assignee, et al.: *See—*
  - Lehde, Henry.
- Shell Development Company, assignee: *See—*
  - Burgin, James.
  - Schelling, William T., and Anderson.
- Shellmar Products Corporation, assignee: *See—*
  - Gilfillan, Paul M.
- Shepherd, Gordon: *See—*
  - Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
- Silverman, Daniel, and T. Gilmartin, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Drill bit pressure gauge. 2,422,806; June 24.
- Skoog, Robert W., Borger, Tex., assignor to United Carbon Company, Inc. (Maryland), Charleston, W. Va. Rotary pelleting of furnace black. 2,422,989; June 24.
- Skrobisch, Alfred, New York, assignor to Eastern Air Devices, Inc., Brooklyn, N. Y. Dynamically balanced relay. 2,422,861; June 24.
- Sloane, Robert W., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Seal. 2,423,052; June 24.
- Small, Edward F., Newton, assignor to Bird Machine Company, South Walpole, Mass. Gear drive. 2,422,933; June 24.
- Smith, A. O., Corporation, assignee: *See—*
  - Tiedemann, Julius B.
- Smith, Cleveland S., Jr., West Orange, N. J., and S. Blumenthal, Indianapolis, Ind.; said Smith assignor to S. Ruben, New Rochelle, N. Y., and said Blumenthal assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Selenium depositing machine. 2,423,051; June 24.
- Smith, Clyde E.: *See—*
  - Hansen, Hans H., and Smith.
- Smith, Frank B.: *See—*
  - Coleman, Gerald H., and Smith.
- Smith, Perry C., Moorestown, N. J., assignor to Radio Corporation of America. Ascertaining the atomic structure of materials. 2,422,807; June 24.
- Socony-Vacuum Oil Company, Incorporated, assignee: *See—*
  - Evans, Louis P.
  - Lee, Russell, Noll, and Kalichevsky.
- Sorg, Harold E.: *See—*
  - Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
- Sowerwine, Charles E., Ames, Iowa. Weight motor and power transmission apparatus. 2,422,753; June 24.
- Spanier, Benjamin, New York, N. Y. Wax injector. 2,422,990; June 24.
- Sperry Gyroscope Company, Inc., assignee: *See—*
  - Lilienthal, James R.
- Spicer Manufacturing Corporation, assignee: *See—*
  - Lewis, Robert P.
- Spina, Joseph: *See—*
  - Kurtz, Jacob, Waldie, and Spina.

Squibb, E. R., & Sons, assignee: *See—*
  Lott, William A.
Stamatoff, Gelu S., Rutherford, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polyvinyl acetal resins. 2,422,754; June 24.
Stamets, William K., executor, assignee, et al.: *See—*
  Hibbard, Robert L.
Standard Safety Equipment Co., assignee: *See—*
  Bray, Allen R.
Standard Telephones and Cables Limited, assignee: *See—*
  Earp, Charles W., James, and Cleaver.
  Gibson, William T.
  Willoughby, Eric O.
Stanolind Oil and Gas Company, assignee: *See—*
  Silverman, Daniel, and Gilmartin.
Stark, Rawson E.: *See—*
  Stupakoff, Semon H., and Stark.
Steffen, Raymond A., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Laminated paper product. 2,423,053; June 24.
Stephens, Henry N.: *See—*
  Frederickson, Russell H., and Stephens.
Stewart-Warner Corporation, assignee: *See—*
  McCollum, Henry J. De N.
Stieglitz, Henry M., assignor to Frank Adam Electric Company, St. Louis, Mo. Solderless connector for electrical conductors. 2,422,934; June 24.
Stokes, Philip Harold, Stratford-on-Avon, assignor to H. M. Hobson Limited, London, England. Regulating device for controlling the supply of fuel and other liquids to internal-combustion engines. 2,422,808; June 24.
Strang, Leslie C., Sunbury-on-Thames, assignor, by mesne assignments, to Anglo-Iranian Oil Company Limited, London, England. Production of hydropolymers. 2,422,991; June 24.
Straubel, Clarence W., and J. S. Holbrook, assignors to The General Fireproofing Company, Youngstown, Ohio. Lug for guide cards. 2,422,935; June 24.
Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Support for induction heating coils. 2,423,054; June 24.
Stroth, Lowry B., Wellston, Ohio. Windshield visor. 2,422,863; June 24.
Strother, John, Rome, N. Y. Safety drill. 2,422,755; June 24.
Stottrup, Helge, assignee, et al.: *See—*
  Stottrup, Svend H.
Stottrup, Sigurd, assignee, et al.: *See—*
  Stottrup, Svend H.
Stottrup, Svend H., assignor of one-third to S. Stottrup and one-third to H. Stottrup, Waterloo, Iowa. Folding utility cart. 2,422,862; June 24.
Struk, John, and R. W. Good, assignors to Murray Manufacturing Corporation, Brooklyn, N. Y. Electric resistance welding. 2,422,756; June 24.
Stupakoff Ceramic & Manufacturing Co., assignee: *See—*
  Stupakoff, Semon H., and Stark.
Stupakoff, Semon H., Latrobe, and R. E. Stark, Greensburg, assignors to Stupakoff Ceramic & Manufacturing Co., Latrobe, Pa. Molding ceramic articles. 2,422,809; June 24.
Sturtevant, B. F., Company, assignee: *See—*
  Hemming, Harold.
Submarine Signal Company, assignee: *See—*
  Turner, Edwin E., Jr.
Sun Oil Company, assignee: *See—*
  McCorquodale, Wilmer E., Jr., Magill, and Hagy.
Sutliff, Carleton B.: *See—*
  Hearn, Richard B., and Sutliff.
Sweger, Russell P., assignor to Barber-Colman Company, Rockford, Ill. Apparatus for cooling cylinders. 2,422,936; June 24.
Swift, Frank H., Portland, Oreg. Hydraulic barker. 2,422,757; June 24.
Szegho, Constantin S., assignor to The Rauland Corporation, Chicago, Ill. Tube for color television. 2,422,937; June 24.
Taborski, Alfred F., Buffalo, N. Y. Necktie. 2,422,992; June 24.
Tallis, Ernest E., Meriden, assignor to Courtaulds Limited, London, England. Manufacture of threads, filaments, films, and the like from alginates. 2,422,993; June 24.
Tarbox, John P., assignor to The Budd Company, Philadelphia, Pa. Brake mounting. 2,423,055; June 24.
Tarbox, John P., assignor to The Budd Company, Philadelphia, Pa. Brake rotor. 2,423,056; June 24.
Taylor, Clarence L., East Cleveland, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Pump lubricant metering arrangement. 2,422,864; June 24.
Taylor, George F., Grosse Pointe Woods, assignor to Carboloy Company, Inc., Detroit, Mich. Twist drill. 2,422,994; June 24.
Taylor-Winfield Corporation, The, assignee: *See—*
  Hansen, Hans H., and Smith.
Temple, Paul C., assignor to A. W. Cash Company, Decatur, Ill. Manual control valve for regulators. 2,422,758; June 24.
Thomas, Thomas H., and E. R. Price, assignors to Bendix Aviation Corporation, South Bend, Ind. Automatic brake control. 2,423,057; June 24.
Thrun, Lawrence O., Pine City, Minn. Hone. 2,422,759; June 24.
Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Alicyclic guanamines. 2,423,071; June 24.
Tiedemann, Julius B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Making propeller blades. 2,422,810; June 24.
Tingdale, Warren, Chicago, Ill., assignor to National Transitads Inc. Display device. 2,422,760; June 24.
Tolson, William A.: *See—*
  Kell, Ray D., and Tolson.
Tooby, George, Prentice, Wis., assignor to Richard C. Lilly, St. Paul, Minn. Desiccating method and apparatus. 2,422,706; June 24.
Tracy, Wilfred T.: *See—*
  Kamborian, Jacob S., and Tracy.
Trico Products Corporation, assignee: *See—*
  Rappl, Anton.
Tucker, James I., Los Angeles, Calif. Quick detachable hook. 2,422,865; June 24.
Turner, Charles W., and E. P. Reineke, Columbia, assignors to American Dairies Incorporated, Kansas City, Mo., and The Quaker Oats Company, Chicago, Ill. Extracting L-thyroxine from thyroprotein. 2,422,938; June 24.
Turner, Edwin E., Jr., West Roxbury, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Compressional wave transmitting or receiving device. 2,422,707; June 24.
Tyrner, Joseph M., New York, N. Y., assignor to Air Reduction Company, Incorporated. Arc welding apparatus. 2,422,811; June 24.
Ungerland, Henry A., Oceanside, N. Y. Windshield wiper. 2,422,761; June 24.
Union Special Machine Company, assignee: *See—*
  Blowers, Arthur.
United Carbon Company, Inc., (Maryland) assignee: *See—*
  Skoog, Robert W.
United Shoe Machinery Corporation, assignee: *See—*
  Baker, Corwin W.
  Lawson, Robert H.
United States of America, assignee: *See—*
  Eksergian, Carolus L.
  Farr, William W.
United States Rubber Company, assignee: *See—*
  Coleman, Ralph A.
Universal Lubricating Systems Inc., assignee: *See—*
  McElhose, Robert T., and Farrell.
Universal Oil Products Company, assignee: *See—*
  Haensel, Vladimir, and Ipatieff.
  Leffer, Frederick W.
  Mattox, William J.
  McAfee, Jerry.
  Pines, Herman.
Van Dyke, Frank G., Detroit, Mich. Electrode holder. 2,423,058; June 24.
Vollmer, Hermann, New York, N. Y. Diagnostic preparations. 2,422,866; June 24.
Volpe, Michael, assignor of 50 per cent to George I. Feilbach, Pittsburgh, Pa. Frame for pool balls. 2,422,939; June 24.
Vorie, Innokent N., Elma, assignor to Colonial Radio Corporation, Buffalo, N. Y. Tuner construction. 2,422,995; June 24.
Waage, Harold M., Princeton, N. J. Musical instrument. 2,422,940; June 24.
Wachter, Lester W., and A. Kimber, assignors to Anthony Company, Streator, Ill. Welder handle. 2,422,812; June 24.
Walch, Jacob S., Stockton, Calif. Carrying scraper. 2,422,813; June 24.
Waldie, James: *See—*
  Kurtz, Jacob, Waldie, and Spina.
Wallin, Fred E., assignor to National Slug Rejectors, Inc., St. Louis, Mo. Coin selector. 2,422,867; June 24.
Walters, Ernest A., Detroit, Mich. Cigarette holder. 2,422,868; June 24.
Warren, Charles F., Milwaukee, Wis. Agitating mixing device. 2,422,708; June 24.
Webb, Ernest C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Feeder from tender or hopper. 2,422,941; June 24.
Weber, Harry: *See—*
  Henckler, Edward, and Weber.
Weibler, Carleton T.: *See—*
  Marquis, John F., and Weibler.
Welham, Geoffrey L. F.: *See—*
  MacArthur, William W., and Welham.
Wendt, Elmer E., Hinsdale, assignor to W. F. Hall Printing Company, Chicago, Ill. Cover applier. 2,422,996; June 24.
Western Electric Company, Incorporated, assignee: *See—*
  Huston, Kenneth M.
  Mageoch, Nelson H.
  Merwin, Harry H.
Whitney Chain & Mfg. Co., The, assignee: *See—*
  Mullaney, Richard L.

Wiczer, Sol B., Washington, D. C. Refrigerant and method of making. 2,422,709; June 24.
Wieking, William C.: *See—*
  Horton, Albert J., and Wieking.
Wiggins, John H., Chicago, Ill. Gaging and sampling apparatus for liquid storage tanks. 2,422,869; June 24.
Williams, Alfred O.: *See—*
  Burrows, Robert J., and Williams.
Williams, Harry A., Glenside, Pa., assignor to Bendix Aviation Corporation, Teterboro, N. J. Remote indicating flowmeter. 2,422,762; June 24.
Willis, Frank B.: *See—*
  Chambers, Allan C., and Willis.
Willis, Jerry, Santa Ana, Calif. Combination sheath and reel for leaders. 2,422,870; June 24.
Willoughby, Eric O., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Antenna system. 2,423,072; June 24.
Willoughby, Eric O., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Electromagnetic wave radiator. 2,423,073; June 24.
Wilson, Ryce H., Roseburg, Oreg. Chain saw setting, jointing, and filing device. 2,422,871; June 24.
Winkler, Albert H., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,423,059; June 24.
Wise, Edward W.: *See—*
  Elder, Robert J., Domoj, Wise, and Konikoff.
Wislicenus, George F., Summit, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Centrifugal compressor. 2,422,763; June 24.
Wolfe, Martin E., Lomita Park, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Cooler and exhaust tubulation for external anode electron tubes. 2,422,872; June 24.
Wolfner, William F., II, Asbury Park, N. J., assignor to Photoswitch Incorporated, Cambridge, Mass. Electrical conductivity cell. 2,422,873; June 24.
Wood, Chester F., Stony Brook, N. Y. Cutter bar. 2,422,942; June 24.
Wood, Fredric E., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Electromagnetic relay. 2,422,764; June 24.
Wood, Norman F.: *See—*
  King, Ronald D., and Wood.
Worthington Pump and Machinery Corporation, assignee: *See—*
  Wislicenus, George F.
Wuest, Heinz M., Upper Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Preparing secondary polyhydroxyalkylaryl amines. 2,422,997; June 24.
Wyandotte Chemicals Corporation, assignee: *See—*
  Reeves, Howard F., Jr.
Yost, Henry, Kenton, Ohio. Safe smoke pipe holder. 2,422,765; June 24.
Yundt, Michael, Company, assignee: *See—*
  Goldacker, Edward H.
Zaro, Henry C., New York, N. Y. Colostomy appliance. 2,423,060; June 24.
Zaroodny, Serge J., Aberdeen, Md. Stereoscopic gun sight having fixed oculars and objectives movable with the gun. 2,422,710; June 24.
Zenlea, Benjamin J., Ozone Park, assignor to Rockwood & Co., Brooklyn, N. Y. Obtaining theobromine and other products from cocoa materials. 2,422,874; June 24.
Zentner, Margaret R., Newark, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Soluble compounds of riboflavin and manufacture thereof. 2,423,074; June 24.
Zühlsdorff, Gerhard: *See—*
  Inhoffen, Hans H., and Zühlsdorff.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Gear cutter. E. C. Head. Re. 22,891; June 24.
Gear shifting mechanism. E. G. Kesling. Re. 22,892; June 24.
Vitreous material, Manufacture of an improved. A. W. H. Wedlock. Re. 22,893; June 24.

LIST OF DESIGN INVENTIONS

Airplane. L. E. Swanson. 146,993; June 24.
Appliquè, Embroidered. H. Kaufman. 146,970; June 24.
Automobile top. C. C. Wormer, III. 147,001; June 24.
Bottle opener and corkscrew, Combination. M. Kaderli. 146,957; June 24.
Bracelet. C. Mucci. 146,980; June 24.
Brooch or similar article. A. Katz. 146,958–9; June 24.
Brooch or similar article. A. Katz. 146,961–2; June 24.
Brooch or similar article. A. Katz. 146,964–6; June 24.
Cabinet or the like, Radio. D. G. Erskine. 146,954; June 24.
Casing, Vacuum cleaner. H. A. Kroenlein. 146,971; June 24.
Clip or similar article. A. Katz. 146,963; June 24.
Comb, Hair cutting. S. E. A. Sanders. 146,989; June 24.
Corkscrew. H. C. Howells. 146,956; June 24.
Dress. S. Ruchman. 146,988; June 24.
Dress. H. H. Stahl. 146,991; June 24.
Dutch oven. R. B. Wemyss. 147,000; June 24.
Earring. A. Katz. 146,960; June 24.
Fork or other article of flatware. J. R. Price. 146,985; June 24.
Frame, Lapel watch. D. Taylor. 146,994–6; June 24.
Hanger, Garment. M. H. and R. C. Townsend. 146,997–8; June 24.
Helicopter. F. N. Piasecki. 146,984; June 24.
Holder, Advertising literature. J. B. Mack, Jr. 146,978; June 24.
Holder, Candle and flower. J. T. Purcell. 146,986; June 24.
Holder, Key. O. R. Lesley. 146,976; June 24.
Hook, Boat. A. S. Leitner. 146,974; June 24.
Jacket. L. Leventhal. 146,977; June 24.
Kettle, Tea. R. B. Wemyss. 146,999; June 24.
Lace yoke, Embroidered. H. Kaufman. 146,967–8; June 24.
Lamp. J. O. Reinecke. 146,987; June 24.
Lamp or similar article, Wall. J. Lerman. 146,975; June 24.
Lighter. R. F. Landwehr. 146,973; June 24.
Rack and light fixture, Combined luggage. L. R. Phillips. 146,982–3; June 24.
Seat or similar article, Love. J. W. Noll. 146,981; June 24.
Shaker, Condiment. N. J. Mangini. 146,979; June 24.
Shroud for windshield wiper arm. F. A. Krohm. 146,972; June 24.
Shroud for windshield wiper arm. T. J. Smulski. 146,990; June 24.
Toy, Trundle. J. Hill. 146,955; June 24.
Transcriber listening device. R. L. Stone and E. F. Rutan. 146,992; June 24.
Yoke, Lace. H. Kaufman. 146,969; June 24.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF JUNE, 1947

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid potassium fluoride, Purification of. P. R. Johnson. 2,422,907; June 24.
Acids, Extraction of saponifiable. W. E. McCorquodale, Jr., L. G. Magill, and J. D. Hagy. 2,422,794; June 24.
Air distributing duct for a vehicle having a means for mixing cold and recirculated air, Overhead. H. Hemming. 2,422,782; June 24.
Airplane wing deicer. W. N. Patterson. 2,422,746; June 24.
Alarm, Typewriter. L. Armstrong. 2,422,650; June 24.
Alicyclic guanamines. J. T. Thurston. 2,423,071; June 24.
Alkyl aromatic hydrocarbons, Treatment of. V. Haensel and V. N. Ipatieff. 2,422,673; June 24.
Alkyl-substituted aromatic sulfonates. H. F. Reeves, Jr. 2,422,926; June 24.
Alloys, Alpha copper. A. U. Seybolt. 2,422,752; June 24.
α-hydroxy-B:B-dimethyl-α-butyrolactone, Resolution of. F. Bergel, A. Cohen, A. L. Morrison, and A. R. Moss. 2,423,062; June 24.
Altimeter and object detector, Radio pulse. W. D. Hershberger. 2,423,024; June 24.
Aluminothermic unit. H. E. Hirschland and S. Ricklin. 2,422,965; June 24.
Amine salts of dinitrophenols. G. H. Coleman and F. B. Smith. 2,422,658; June 24.
Amines, Preparation of. W. K. O'Loughlin. 2,422,743; June 24.
Amusement device. J. M. Leach. 2,422,913; June 24.
Angle-measuring instrument. J. P. Putnam. 2,423,049; June 24.
Antenna system. E. O. Willoughby. 2,423,072; June 24.
Apparatus for cooling cylinders. R. P. Sweger. 2,422,936; June 24.
Apparatus for die-shaping sheet metal. J. Ransom. 2,422,800; June 24.
Apparatus for effecting clarification of turbid liquids. R. B. Carter, Jr. 2,422,656; June 24.
Apparatus for fabricating parts by bonding strips of material. J. S. Pecker. 2,422,979; June 24.
Apparatus for flanging sheet metal strips. W. W. MacArthur and G. L. F. Welham. 2,422,838; June 24.
Apparatus for flanging sheet metal strips. R. Perkins. 2,422,846; June 24.
Apparatus for liquid storage tanks, Gaging and sampling. J. H. Wiggins. 2,422,869; June 24.
Apparatus for loading trucks. J. Katinos, Jr. 2,422,910; June 24.
Apparatus for making coffee infusions. B. Bogoslowsky. 2,422,944; June 24.
Apparatus for manufacturing electron discharge devices. W. S. Brian. 2,422,945; June 24.
Apparatus for testing altimetric devices. C. H. H. Rodanet. 2,422,702; June 24.
Arch support. J. Peil. 2,422,923; June 24.
Artificial limb. A. W. Rogers. 2,422,748; June 24.
Aryl polymercury naphthenates and their production. M. Nowak. 2,423,044; June 24.
Assembling apparatus. H. H. Merwin. 2,423,038; June 24.
Assembling machine. N. H. Mageoch. 2,423,036; June 24.
Atomic structure of materials, Ascertaining. P. C. Smith. 2,422,807; June 24.
Attaching device. W. McArthur. 2,422,693; June 24.
Attachment for couplers, Swivel. R. T. McElhose and R. R. Farrell. 2,423,069 June 24.
Axle construction for independently sprung vehicle wheels, Driving. R. P. Lewis. 2,422,739; June 24.
Bag: *See*—
  Motorcycle saddle bag.
Ballast, Resistor. E. Henckler and H. Weber. 2,423,021; June 24.
Bar: *See*—
  Cutter bar.
Bar, frame thresher screen, Adjustable. W. A. Holtzman. 2,423,026; June 24.
Beta-lactone, alcohol and hydrogen halide, Reaction of. T. L. Gresham and F. W. Shaver. 2,422,728; June 24.
Binocular magnifying lens holder. C. A. Ellis. 2,422,661; June 24.
Block: *See*—
  Toolmaker's utility block.
Boat, Folding trailer. L. J. Rutledge. 2,422,930; June 24.
Bolt stop for firearms. E. G. Reising. 2,422,853; June 24.
Bomb, Armor-piercing drop. H. J. Nichols. 2,422,920; June 24.
Bookbinding device. J. H. Garrett. 2,422,780; June 24.
Bookholder. E. H. Anderson. 2,422,877; June 24.
Bookholder. A. Poch. 2,423,048; June 24.
Bottle crowner, Plastic. H. E. Rue. 2,422,750; June 24.
Box: *See*—
  Electric outlet box.
  Railway journal box.
Brake: *See*—
  Coaster brake.
  Disk brake.
Brake. A. A. Benson. 2,422,713; June 24.
Brake adjusting means. R. A. Goepfrich and B. E. House. 2,423,015; June 24.
Brake control, Automatic. T. H. Thomas and E. R. Price. 2,423,057; June 24.
Brake mounting. J. P. Tarbox. 2,423,055; June 24.
Brake rotor. J. P. Tarbox. 2,423,056; June 24.
Brake system. A. C. Chambers and F. B. Willis. 2,423,006; June 24.
Broom holder. W. F. Dickson. 2,422,891; June 24.
Brush attachment for liquid applicators. A. R. Christensen. 2,422,823; June 24.
Buffer for guns, Pneumatic barrel. L. A. Anderson. 2,422,767; June 24.
Calculator, Liquid flow. J. W. Feild. 2,422,663; June 24.
Capillary leak, Adjustable. A. O. C. Nier, E. P. Ney, and M. G. Inghram. 2,422,921; June 24.
Carburetor. E. R. Schneider. 2,422,751; June 24.
Carburetor. A. H. Winkler. 2,423,059; June 24.
Carriage means for road vehicles. W. H. Lewis. 2,422,792; June 24.
Cart, Folding utility. S. H. Stottrup. 2,422,862; June 24.
Cartridge feed belt for machine guns. J. A. Hendley. 2,422,898; June 24.
Cellulose ether plastic and a canteen made thereof. J. Prichard and D. Flitter. 2,422,747; June 24.
Ceramic articles, Molding. S. H. Stupakoff and R. E. Stark. 2,422,809; June 24.
Chain saw setting, jointing, and filing device. R. H. Wilson. 2,422,871; June 24.
Chlorinated polythenes, Manufacture of. J. R. Myles and P. J. Garner. 2,422,919; June 24.
Chuck, Air. C. H. Johnson. 2,422,785; June 24.
Cigarette holder. E. A. Walters. 2,422,868; June 24.
Circuit: *See*—
  Gyrocompass amplifier circuit.
  Timing circuit.
Circuit breaker. O. Jensen. 2,422,784; June 24.
Circuit breaker. F. J. Pokorny. 2,422,799; June 24.
Circuit breaker, Air blast. W. M. Scott, Jr. 2,422,805; June 24.
Cleaner: *See*—
  Vacuum cleaner.
Cleaning means for filters, Automatic. L. E. La Guardia. 2,422,735; June 24.
Clevis construction. R. L. Mullaney. 2,422,844; June 24.
Closure device for building apertures. F. C. Russell and A. S. Barker. 2,422,704; June 24.
Closure fastener. A. T. Fisher. 2,422,723; June 24.
Closure for automobile bodies of station wagon type. W. F. Kling. 2,422,912; June 24.
Clothes hanger. J. P. Niskanen. 2,422,845; June 24.
Clutch control. C. Olstad. 2,423,043; June 24.
Clutch mechanism. M. F. Hayes. 2,422,896; June 24.
Coaster brake. T. C. Sayles. 2,423,070; June 24.
Coaxial cable connector. E. C. Quackenbush. 2,422,982; June 24.
Coconut method. J. C. and J. H. Forkner. 2,422,893; June 24.
Coin selector. F. E. Wallin. 2,422,867; June 24.
Color facsimile system. W. G. H. Finch. 2,422,778; June 24.
Colored granules, Manufacture of artificially. F. P. Reynolds. 2,422,927; June 24.
Colostomy appliance. H. C. Zaro. 2,423,060; June 24.
Composition comprising colloidal silver salt of sulfa drug. W. A. Lott. 2,422,688; June 24.
Compounds of riboflavin and manufacture thereof, Soluble. M. R. Zentner. 2,423,074; June 24.
Compressor, Centrifugal. G. F. Wislicenus. 2,422,763; June 24.
Compressor-motor apparatus. A. Latham, Jr. 2,422,789; June 24.
Compressor system. C. S. Baker. 2,422,880; June 24.
Compressor, Winged-strap rotary. F. W. Knowles. 2,422,972; June 24.
Concentrator, Fruit juice. J. D. Lucero. 2,423,035; June 24.
Conductors consisting principally of copper, Electrolytically cleaning and plating. K. M. Huston. 2,422,902; June 24.

Connector: *See*—
  Coaxial cable connector.
Connector for electrical conductors, Solderless. H. M. Stieglitz. 2,422,934; June 24.
Construction for vaporizable liquid fuel, Burner. A. J. Laliberte. 2,422,686; June 24.
Container and seam construction. P. M. Gilfillan. 2,422,725; June 24.
Control for knitting machines. J. J. Lentz. 2,422,738; June 24.
Control means for pressure cookers and the like. H. L. Newell. 2,422,974; June 24.
Control mechanism for reversible electric motors. G. W. Jackson. 2,422,905; June 24.
Controller for multiunit machines, Electric. A. J. Horton and W. C. Wieking. 2,423,028; June 24.
Convertible music stand. R. Lisenbee. 2,423,034; June 24.
Conveyor and dispenser, Section spool. G. F. Benn. 2,422,768; June 24.
Conveyor, Bottle. E. H. Goldacker. 2,422,726; June 24.
Cooler and exhaust tubulation for external anode electrode tubes. M. E. Wolfe. 2,422,872; June 24.
Core recovering device. C. F. Duffield. 2,422,955; June 24.
Coupling for parachutes, Release. J. J. Maskey. 2,422,839; June 24.
Cover: *See*—
  Vehicle wheel cover.
  Wheel cover.
Cover applier. E. E. Wendt. 2,422,996; June 24.
Cutter: *See*—
  Gear cutter.
Cutter bar. C. F. Wood. 2,422,942; June 24.
Delinting screen. A. H. Davis, Jr. 2,422,825; June 24.
Δ-1,4-androstadienol-17-one-3 and its derivatives, Preparing. H. H. Inhoffen and G. Zuhlsdorff. 2,422,904; June 24.
Demethylation of saturated hydrocarbons, Selective. V. Haensel and V. N. Ipatieff. 2,422,674–5; June 24.
Demethylation of trimethyl pentanes to form triptane, Selective. V. Haensel and V. N. Ipatieff. 2,422,672; June 24.
Dental crown cap press. A. F. Miskunas. 2,423,041; June 24.
Dental impression equalizer. H. F. Chaiken. 2,423,005; June 24.
Desiccating method and apparatus. G. Tooby. 2,422,706; June 24.
Device for controlling the supply of fuel and other liquids to internal-combustion engines. P. H. Stoke. 2,422,808; June 24.
Device for regulating the temperature of electric furnaces of the resistance type. E. P. Jung. 2,422,734; June 24.
Diacetone glycol to form a methyl pentadiene, Dehydration of. W. T. Schelling and J. Anderson. 2,422,802; June 24.
Diagnostic preparations. H. Vollmer. 2,422,866; June 24.
Dial instrument, Mounting. S. Kahn. 2,422,908; June 24.
Di (aryl sulfene) amides as co-accelerators. R. A. Coleman. 2,423,007; June 24.
Die mechanism, Shaping, punching, and trimming. G. L. Dakin. 2,422,952; June 24.
Die set. G. O. Conner. 2,422,774–5; June 24.
Differential convertible gasoline-diesel engine. L. N. Miller. 2,423,039; June 24.
Diolefins, Producing. E. J. Houdry. 2,423,029; June 24.
Direction signal for vehicles. C. D. Schurter. 2,422,988; June 24.
Discharge device, Spark gap. C. Depew, W. A. Depp, and A. N. Luce. 2,422,659; June 24.
Disconnector for firearms. E. G. Reising. 2,422,854; June 24.
Disk brake. W. H. DuBois. 2,423,011; June 24.
Dispenser: *See*—
  Ice cube dispenser.
  Tape dispenser.
Dispensing device with tipping trap chamber. C. F. Eaton. 2,422,719; June 24.
Dispensing package for commodity sticks. G. Saint Clair. 2,422,705; June 24.
Display device. W. Tingdale. 2,422,760; June 24.
Door control apparatus. C. Blum. 2,422,770; June 24.
Door fastener. C. Blum. 2,422,771; June 24.
Downdraft magazine heater. H. H. Fleer. 2,422,959; June 24.
Drill: *See*—
  Safety drill.
  Twist drill.
Drill bit pressure gauge. D. Silverman and T. Gilmartin. 2,422,806; June 24.
Dynamoelectric machine. G. A. Clauson and R. N. Early. 2,422,824; June 24.
Dynamoelectric machine. C. W. H. Minchin and A. J. Parsons. 2,423,040; June 24.
Electric outlet box. E. E. Granger. 2,423,016; June 24.
Electrical conductivity cell. W. F. Wolfner, II. 2,422,873; June 24.
Electrode, Buoyant. F. H. Gooding. 2,422,727; June 24.
Electrode cooling, Welding. F. R. Hensel and E. I. Larsen. 2,422,962; June 24.
Electrode holder. F. G. Van Dyke. 2,423,058; June 24.
Elevator type means for drying ceramic ware. J. A. Johnson. 2,423,030; June 24.
Emulsions, Breaking petroleum. C. M. Blair, Jr. 2,422,822; June 24.
Endothermic catalytic conversion of hydrocarbons. F. W. Leffer. 2,422,791; June 24.
Engine: *See*—
  Differential convertible gasoline-Diesel engine.
Engine starter. J. E. Buxton. 2,423,063; June 24.
Engine starter. E. E. Hood, F. T. Christian, and J. E. Buxton. 2,423,068; June 24.
Enol esters of aldehydes, Preparing. D. C. Hull and A. H. Agett. 2,422,679; June 24.
Ester of an unsaturated polycarboxylic acid, phthalic acid, and a lower aliphatic glycol, Polymerizable mixed. I. E. Muskat. 2,423,042; June 24.
Esters of diarylpropionic acids, Alkamine. R. B. Holmes and A. J. Hill. 2,423,025; June 24.
Express receipt holder. A. J. Hopkins. 2,423,027; June 24.
External anode electron tube. G. A. Becker. 2,422,819; June 24.
Extruding, Process and apparatus for. D. N. Davies and F. H. Churchman. 2,422,953; June 24.
Extrusion apparatus. F. J. Fielitz. 2,422,722; June 24.
Fabrics, Cleaning. G. P. Hebard and H. E. Sheets. 2,422,897; June 24.
Fastener: *See*—
  Closure fastener.
  Door fastener.
Fastening device. M. P. McClain. 2,422,841; June 24.
Feeder from tender or hopper. E. C. Webb. 2,422,941; June 24.
Ferrous alloy. A. T. Cape and C. V. Foerster. 2,422,948–9; June 24.
Fiber, Asbestos spinning. L. C. Pharo. 2,422,980; June 24.
Film and process, Flameproofed. W. A. Hoffman. 2,422,730; June 24.
Firing mechanism. A. Hubalek. 2,422,900; June 24.
Fixture, Fluorescent lamp. H. U. Schockett. 2,422,857; June 24.
Flanging sheet metal, Method and apparatus for. H. H. Bruderlin. 2,422,883; June 24.
Flatiron, Tilting electric. E. M. Schara. 2,422,856; June 24.
Flowmeter, Remote indicating. H. A. Williams. 2,422,762; June 24.
Fluid pressure control mechanism. W. A. Eaton. 2,423,012; June 24.
Fluids by simultaneous centrifugation and selective diffusion, Separation of. A. Bramley. 2,422,882; June 24.
Forging machine, Electrical. C. Rogatl. 2,422,928; June 24.
Frame for pool balls. M. Volpe. 2,422,939; June 24.
Furnace: *See*—
  Rotary drum furnace.
Furnace black, Rotary pelleting of. R. W. Skoog. 2,422,989; June 24.
Gage: *See*—
  Drill bit pressure gage.
Garment. E. Fligel. 2,422,779; June 24.
Garment, Protective safety. A. R. Bray. 2,423,002; June 24.
Garment trimming machine. H. Lehde. 2,422,914; June 24.
Gas purification apparatus and method. H. A. Gollmar. 2,422,781; June 24.
Gases with particle form solid materials, Method and apparatus for contacting. L. P. Evans. 2,423,013; June 24.
Gauge: *See*—
  Drill bit pressure gauge.
Gear drive. E. F. Small. 2,422,933; June 24.
Gear drive for window regulators and the like. L. S. Greenmun. 2,422,830; June 24.
Glider. D. S. Fahrney. 2,422,662; June 24.
Grid, Burner. H. E. Mills. 2,422,918; June 24.
Grids, Making. D. F. Drieschman, G. Shepherd, M. Rabinawitz, A. M. Newhall, Jr., and H. E. Sorg. 2,422,827; June 24.
Guard: *See*—
  Window guard.
Gun sight having fixed oculars and objectives movable with the gun, Stereoscopic. S. J. Zaroodny. 2,422,710; June 24.
Gyrocompass amplifier circuit. J. R. Lilienthal. 2,422,687; June 24.
Hair curler. G. A. Broyles. 2,422,716; June 24.
Handle: *See*—
  Welder handle.
Hanger: *See*—
  Clothes hanger.
  Pants hanger.
Heat responsive indicator. R. D. Kell and W. A. Tolson. 2,422,971; June 24.
Heater: *See*—
  Downdraft magazine heater.
  Wall-mounted ram-type aircraft heater.
  Water heater.
Heater. E. E. Hans. 2,422,831; June 24.

Holder: *See*—
  Binocular magnifying lens holder.
  Book holder.
  Broom holder.
  Cigarette holder.
  Electrode holder.
  Express receipt holder.
  Paper roll holder.
  Safe smoke pipe holder.
  Tool holder.
Holder, date dial, and photo locket, Combination coin. J. Herck. 2,422,678; June 24.
Hone. L. O. Thrun. 2,422,759; June 24.
Hook: *See*—
  Pelican hook.
  Quick detachable hook.
  Whiffletree hook.
Hosiery, Fourchette toe. C. A. Lambert. 2,422,736; June 24.
Housing for transducers, Pressure-equalizing. W. E. Gilman. 2,423,014; June 24.
Hydraulic barker. F. H. Swift. 2,422,757; June 24.
Hydraulic coupling type of variable-speed transmission. F. R. Porter. 2,422,850; June 24.
Hydrocarbon, Burning liquid. J. L. Breese and B. Hayter. 2,422,653; June 24.
Hydrocarbon reactions in the presence of aluminum halide-olefinic ketone complexes. H. Pines. 2,422,798; June 24.
Hydrocarbons, Conversion of fluid. J. McAfee. 2,422,793; June 24.
Hydrocarbons, Lowering the molecular weight of nonaromatic. V. Haensel and V. N. Ipatieff. 2,422,671; June 24.
Hydrocarbons, Refining. P. H. W. Agren. 2,422,875; June 24.
Hydrophilic color-former silver halide dispersions, Preparing. A. B. Jennings. 2,422,680; June 24.
Hydroplane. J. G. Bamberger. 2,422,818; June 24.
Hydropolymers, Production of. L. C. Strang. 2,422,991; June 24.
Ice cube dispenser. D. I. Bohn. 2,422,772; June 24.
Implement, Earth handling. L. L. Reckler. 2,422,985; June 24.
Indicator: *See*—
  Heat responsive indicator.
Indicator fuse plug. M. G. Chittum. 2,422,886; June 24.
Jar opening tool. W. F. Blake. 2,422,715; June 24.
Jet power means for aircraft, Auxiliary. W. F. O'Neil. 2,422,744; June 24.
Joint for concentric cables, Rotating. E. A. Hallstrand. 2,422,961; June 24.
Keeper inserting tool. C. A. Dougherty. 2,423,010; June 24.
Kite. W. H. Schroeder. 2,422,804; June 24.
L-thyroxine from thyroprotein, Extracting. C. W. Turner and E. P. Reineke. 2,422,938; June 24.
Laminated abrasive tool. G. W. Allred. 2,422,876; June 24.
Laminated corrugated articles, Making. D. D. Adams and K. Rollius. 2,422,998; June 24.
Lamp system and thermal starting switch, Fluorescent gaseous discharge. J. Kurtz, J. Waldie, and J. Spina. 2,423,031; June 24.
Lathe. R. L. Hibbard. 2,422,964; June 24.
Lawn perforating machine. H. Helbig. 2,422,729; June 24.
Lead, Refining of. W. T. Isbell. 2,422,967; June 24.
Leakproof fuel tank. H. Pfleumer. 2,422,797; June 24.
Legging, Rain. M. Randall. 2,422,851; June 24.
Light control, Automatic. H. Peter. 2,422,847; June 24.
Lightning arrester. A. A. Olsen. 2,422,978; June 24.
Link construction, Swing. R. J. Burrows and A. O. Williams. 2,422,885; June 24.
Liquid phase catalytic reactions of hydrocarbons. H. J. Passino and J. S. Rearick. 2,423,045; June 24.
Liquid purifier having cation exchangers communicating selectively with anion exchangers. B. V. Bhoota. 2,422,821; June 24.
Loader, Mechanical. T. G. Nyborg. 2,422,977; June 24.
Lock. L. J. McKnight. 2,422,795; June 24.
Locking attachment, Caster. F. H. and C. F. Forbes. 2,422,892; June 24.
Loud-speaker, Electrodynamic. J. F. Marquis and C. T. Weibler. 2,423,037; June 24.
Lubricant. E. S. Blake and K. L. Godfrey. 2,422,769; June 24.
Lubricator: *See*—
  Plain bearing lubricator.
Lug for guide cards. C. W. Straubel and J. S. Holbrook. 2,422,935; June 24.
Lumber and other forest products, Treatment of. J. C. Haun. 2,423,020; June 24.
Machine for operating on shoes. C. W. Baker. 2,422,711; June 24.
Machine tool control. C. Johnson. 2,422,681–2; June 24.
Manganese brass, High. J. L. Rodda. 8,422,703; June 24.
Mat welding device. J. A. Fotie. 2,422,829; June 24.
Measuring instrument. R. H. Sachtleber. 2,422,931. June 24.
Measuring system, Time. E. Bruce. 2,422,654; June 24.
Measuring system, Time. G. Hecht. 2,422,655; June 24.
Measuring system, Time. O. R. Miller. 2,422,698; June 24.
Mercaptans, Production of pure. H. E. Drennan. 2,422,826; June 24.
Metal-glass and the like seals. W. T. Gibson. 2,423,066; June 24.
Meter: *See*—
  Miniature electric meter.
  Peak transient meter.
Meter for measuring moisture content. P. H. Odessey. 2,422,742; June 24.
Microscope, Electron. C. H. Bachman. 2,422,943; June 24.
Miniature electric meter. J. H. Bigelow, J. M. Harris, and M. N. Schweizer. 2,422,714; June 24.
Mixing device, Agitating. C. F. Warren. 2,422,708; June 24.
Modulation system, High level. J. J. Antalek. 2,422,878; June 24.
Motor controller, Star-delta. F. F. Johnson. 2,422,906; June 24.
Motorcycle saddle bag. J. Buegeleisen. 2,423,003; June 24.
Motor throttling and shutoff valve means, Speer responsive fluid. F. A. Jimerson. 2,422,733; June 24.
Mounting: *See*—
  Brake mounting.
  Rubber mounting.
Mudguard for bicycles. J. A. Larivière. 2,422,836; June 24.
Multiple loop control. M. D. Ayers. 2,422,651; June 24.
Musical instrument. H. M. Waage. 2,422,940; June 24.
Necktie. A. F. Taborski. 2,422,992; June 24.
Necktie rack. H. M. and L. Nudelman. 2,422,922; June 24.
Nitriles of unsaturated acids, Production of. W. A. Schulze and J. E. Mahan. 2,422,859; June 24.
Noise reducer for amplitude modulation reception. M. G. Nicholson, Jr. 2,422,976; June 24.
Nut, Stiff. R. D. King and N. F. Wood. 2,422,833; June 24.
Oarlock, Bow facing. E. R. Kosey. 2,422,835; June 24.
Obstacle detection by radio waves. W. D. Hershberger. 2,423,023; June 24.
Oil dispersed in well drilling fluids, Detecting. G. L. Ratcliffe. 2,422,852; June 24.
Oils, Coking. R. Lee, H. D. Noll, and V. A. Kalichevsky. 2,422,790; June 24.
Oils, Lubricating. C. M. Blair, Jr. 2,422,881; June 24.
Olefin other than ethylene to isobutane, Conversion of a normally gaseon. W. J. Mattox. 2,422,692; June 24.
Olefins using boric oxide on alumina as catalyst, Isomerizing. J. Burgin. 2,422,884; June 24.
1-bromo-4-(n-alkylamino)-hexanes and making them. R. C. Elderfield and J. D. Head. 2,422,957; June 24.
1,3,5-trianzinyl-(6)-aminophenyl-arsenic compounds, Substituted. E. A. H. Friedheim. 2,422,724; June 24.
Oscillations in high-freqeuncy devices, Suppression of parasitic. J. W. McRae. 2,422,695; June 24.
Package. S. B. Hogdal. 2,422,899; June 24.
Pad: *See*—
  Shoulder pad.
  Stamp pad.
  Truss pad.
Panel construction. G. H. Lenke. 2,422,837; June 24.
Pants hanger. R. Hultsch. 2,422,732; June 24.
Paper product, Laminated. R. A. Steffen. 2,423,053; June 24.
Paper roll holder. J. N. Rougas. 2,422,749; June 24.
Paraffinic hydrocarbons, Selective demethylation of. V. Haensel and V. N. Ipatieff. 2,422,670; June 24.
Peak transient meter. D. F. Alexander. 2,422,766; June 24.
Pelican hook. W. R. MacCluney. 2,422,916; June 24.
Penicillin by mold culture, Producing. G. M. Eisenberg and J. L. Metzendorf. 2,422,777; June 24.
Photoelectric discharge device. W. L. Jones, Jr. 2,422,970; June 24.
Pickup head. D. J. Baker. 2,422,817; June 24.
Piezoelectric device and manufacture. H. M. Bach. 2,423,061; June 24.
Piston ring. G. M. M. Grant. 2,423,017; June 24.
Plain bearing lubricator. E. V. Morley. 2,422,741; June 24.
Plastic material, Method of and apparatus for molding. W. H. Bagley, Jr. 2,422,999; June 24.
Pleats, Forming. A. M. Hess. 2,422,963; June 24.
Plug: *See*—
  Indicator fuse plug.
Polycarbonamides modified by chromic salts. C. S. Fuller. 2,422,666; June 24.
Polyhydroxyalkylaryl amines, Preparing secondary. H. M. Wuest. 2,422,997; June 24.
Press: *See*—
  Dental crown cap press.
Press having a steaming device, Garment. J. Mallouf. 2,422,917; June 24.
Pressing apparatus. A. F. Habenicht. 2,422,895; June 24.
Prismatic radiating navigational system. W. P. Mason. 2,422,691; June 23.
Products comprising glass fibers, Decorative. R. I. Johns. 2,422,969; June 24.
Projectile, Rocket. C. L. Eksergian. 2,422,720; June 24.
Projectile, Rocket. W. W. Farr. 2,422,721; June 24.
Projector for motion-picture film, Inspection. P. Bala. 2,422,816; June 24.
Propeller blades, Making. J. B. Tiedemann. 2,422,810; June 24.

Propeller control. W. S. Hoover. 2,422,966; June 24.
Pump: *See*—
  Rotary pump.
Pump and impeller, Vapor separating. M. L. Edwards. 2,422,956; June 24.
Pump lubricant metering arrangement. C. L. Taylor. 2,422,864; June 24.
Push button for radio receivers. M. J. Pifer. 2,422,981; June 24.
Pyrimidine compound and making the same. F. H. S. Curd and F. L. Rose. 2,422,887–9; June 24.
Pyrimidine compounds. F. H. S. Curd and F. L. Rose. 2,422,890; June 24.
Pyrrole coloring matters and making same. E. P. Goodings and M. A. T. Rogers. 2,422,668; June 24.
Quick detachable hook. J. I. Tucker. 2,422,865; June 24.
Rack: *See*—
  Necktie rack.
Radiant heating for buildings. G. F. Keck. 2,422,685; June 24.
Radio carrier communication system, Wobbled. C. B. H. Feldman. 2,422,664; June 24.
Radio direction finding equipment. C. W. Earp, I. R. J. James, and R. F. Cleaver. 2,423,064; June 24.
Railway journal box. R. J. Brittain, Jr. 2,422,946; June 24.
Rake, Garden and lawn hand. W. W. Barracks. 2,422,712; June 24.
Reactor system, Saturable. A. L. Embry. 2,422,958; June 24.
Reflector, Selective. G. L. Dimmick. 2,422,954; June 24.
Refrigerant and making. S. B. Wiczer. 2,422,709; June 24.
Regulator: *See*—
  Temperature regulator.
Relay and contacts therefor, Rotary. C. P. Molyneux and V. D. Roosa. 2,422,842; June 24.
Relay, Dynamically balanced. A. Skrobisch. 2,422,861; June 24.
Relay, Electromagnetic. F. E. Wood. 2,422,764; June 24.
Relay, Time delay. R. C. Ring. 2,422,986; June 24.
Remote control of deflection in cathode-ray tubes. M. G. Nicholson, Jr. 2,422,975; June 24.
Resins, Preparation of polyvinyl acetal. G. S. Stamatoff. 2,422,754; June 24.
Retread vulcanizing device. H. T. Kraft. 2,422,788; June 24.
Ring: *See*—
  Piston ring.
Rotary drum furnace. H. M. Griffoul. 2,423,018; June 24.
Rotary pump. G. D. Hunter. 2,422,901; June 24.
Rubber mounting. G. H. Kaemmerling. 2,422,683; June 24.
Rubber with an amine, Reclaiming synthetic. R. V. Le Beau. 2,423,032; June 24.
Rubbers, Improved synthetic. H. E. Schroeder and C. J. Mighton. 2,422,932; June 24.
Rubbers with a fatty acid and live steam, Reclaiming synthetic. R. V. Le Beau. 2,423,033; June 24.
Ruler, Proportional. C. S. Ost. 2,422,745; June 24.
Safe smoke pipe holder. H. Yost. 2,422,765; June 24.
Safety drill. J. Strother. 2,422,755; June 24.
Safety starter switch. O. A. Kangas. 2,422,909; June 24.
Saw, Tractor operated log and tree. A. F. Pfingsten. 2,423,047; June 24.
Saw, Universal cut-off. G. Mooradian. 2,422,843; June 24.
Scraper, Carrying. J. S. Walch. 2,422,813; June 24.
Screen: *See*—
  Delinting screen.
Screw threading machine. W. Plagemann. 2,422,849; June 24.
Seal. W. Artzt and M. Rubinoff. 2,422,879; June 24.
Seal. R. W. Sloane. 2,423,052; June 24.
Seam for polyvinyl resinous coated fabrics, Producing a waterproof. H. H. Haman and J. A. Ritzler. 2,422,676; June 24.
Selenium depositing machine. C. S. Smith, Jr., and S. Blumenthal. 2,423,051; June 24.
Separation of stones from peas, Hydraulic. J. A. Cleveland. 2,422,657; June 24.
Sewing machine. C. S. Best. 2,422,820; June 24.
Shaker for burring small parts. D. T. Haines, Sr. 2,423,019; June 24.
Sheath and reel for leaders, Combination. J. Willis. 2,422,870; June 24.
Shock absorbing mechanism. G. E. Dath. 2,422,718; June 24.
Shock absorbing mechanism, Friction. G. E. Dath. 2,422,717; June 24.
Shoe. D. J. Calderazzo. 2,422,947; June 24.
Shoe, Force lasted. J. S. Kamborian and W. T. Tracy. 2,422,684; June 24.
Shoes, Method of and machine for turning the platform covers of platform. R. H. Lawson. 2,422,737; June 24.
Shoulder pad. J. L. Kleinman. 2,422,834; June 24.
Signal system and control device, Rotation indicating. H. M. Martin. 2,422,973; June 24.
Silica from iron ore by anionic collectors, Froth flotation of. E. C. Herkenhoff. 2,423,022; June 24.
Skip feed mechanism. C. Jacobson. 2,422,783; June 24.
Sleeve. W. H. Defoe. 2,423,009; June 24.
Slotting machine, Automatic. E. A. Schigut. 2,422,803; June 24.
Spraying machine. G. W. Daugherty. 2,423,008; June 24.
Stamp pad. C. F. Alexander. 2,422,814; June 24.
Stand: *See*—
  Convertible music stand.
Steel articles, Electrolytically treating stainless. K. M. Huston. 2,422,903; June 24.
Sterilizing solutions, Cold. G. H. Conant, Jr. 2,422,951; June 24.
Stocking guard. H. B. Gygi. 2,422,669; June 24.
Storage warehouse providing for the dissipation of moisture released from stored dehydrated fruits. E. L. Roberts. 2,422,987; June 24.
Stove arrangement, Electrical. J. Cash. 2,422,950; June 24.
Strap and fastener means therefor, Garment shoulder. V. A. Patterson. 2,423,046; June 24.
Stripper, Wire. W. F. Cunny and H. E. King. 2,422,776; June 24.
Suction-blower device. J. P. Jason. 2,422,968; June 24.
Sugar solutions, Defecation of. J. J. Naugle. 2,422,699; June 24.
Support: *See*—
  Arch support.
Support for fluorescent fixtures. H. U. Schockett. 2,422,858; June 24.
Support for induction heating coil. H. A. Strickland, Jr. 2,423,054; June 24.
Support for rocket projectiles, Aircraft. R. M. Elder, J. J. Domoj, E. W. Wise, and J. J. Konikoff. 2,422,660; June 24.
Surface covering, Cementitious. R. H. Frederickson and H. N. Stephens. 2,422,665; June 24.
Switch: *See*—
  Safety starter switch.
Tape dispenser. H. E. Butler. 2,423,004; June 24.
Telegraph repeater for long line spans, Intermediate. R. B. Hearn and C. B. Sutliff. 2,422,677; June 24.
Telegraph system, Electric engine order. C. J. Rasmussen. 2,422,701; June 24.
Telephone system, Reciprocal signaling trunk. N. A. Newell. 2,422,700; June 24.
Temperature regulator. L. M. Puster. 2,422,924; June 24.
Theobromine and other products from cocoa materials, Obtaining. B. J. Zenlea. 2,422,874; June 24.
Thermionic tube. W. W. Eitel and J. A. McCullough. 2,422,828; June 24.
Thread cutter for sewing machines. A. Blowers. 2,423,001; June 24.
Threads, filaments, films, and the like from alginates, Manufacture of. E. E. Tallis. 2,422,993; June 24.
Threads, Manufacture of alginate. R. B. Hall. 2,423,075; June 24.
Timing circuit. L. A. Meacham. 2,422,696; June 24.
Tire lifting tool. W. R. Peters. 2,422,848; June 24.
Tool: *See*—
  Jar opening tool.
  Keeper inserting tool.
  Laminated abrasive tool.
  Tire lifting tool.
Tool holder. C. L. Ramsey. 2,422,983; June 24.
Toolmaker's utility block. R. H. Colwill. 2,422,773; June 24.
Transition attachment for motion-picture cameras. P. Baia. 2,422,815; June 24.
Transmission apparatus, Weight motor and power. C. E. Sowerwine. 2,422,753; June 24.
Transplanter. N. G. Hershey. 2,422,832; June 24.
Trap having means for clearing the same of stoppage, Plumbing. W. J. Rohling. 2,422,801; June 24.
Tread material to tires, Applying new. T. P. Bacon, Jr. 2,422,652; June 24.
Trimming and butt welding the ends of metal strips, plates, and the like, Method of and apparatus for. H. O. Klinke. 2,422,787; June 24.
Truck, Two-wheel warehouse. F. Garbarino. 2,428,065; June 24.
Truss pad. F. J. Grubb. 2,422,894; June 24.
Tube: *See*—
  External anode electron tube.
  Thermionic tube.
Tube for color television. C. S. Szegho. 2,422,937; June 24.
Tumbling mill and method of tumbling. W. L. Keefer. 2,422,786; June 24.
Tuner construction. I. N. Vorie. 2,422,995; June 24.
Twist drill. G. F. Taylor. 2,422,994; June 24.
2,4-diaryl-pyrrole compounds and producing same, Substituted. E. P. Goodings and M. A. T. Rogers. 2,422,667; June 24.
2-thiocyanomethyl-5-hydroxy-1,4-pyrone and preparing it. G. H. Morey. 2,422,740; June 24.
Unit for battery filter plugs, Resistance. W. J. Rady and L. A. Rice. 2,422,925; June 24.
Vacuum cleaner. A. W. Seyfried. 2,422,860; June 24.

Valve construction. R. O. Monroe and J. W. Hieronymus. 2,422,796; June 24.
Valve for regulators, Manual control. P. C. Temple. 2,422,758; June 24.
Vehicle wheel cover. G. A. Lyon. 2,422,690; June 24.
Venetian blind. P. Lippert. 2,422,915; June 24.
Ventilator construction. W. Rutter. 2,422,855; June 24.
Vibration errors in magnetic compasses and the like, Elimination of. G. M. Giannini. 2,422,960; June 24.
Viewing system. L. A. Meacham. 2,422,697; June 24,
Visor, Windshield. L. B. Stroth. 2,422,863; June 24.
Wall-mounted ram-type aircraft heater. H. J. D. McCollum. 2,422,694; June 24.
Water heater. T. Bennett and E. Hurst. 2,423,000; June 24.
Wave radiator, Electromagnetic. E. O. Willoughby. 2,423,073; June 24.
Wave transmitting or receiving device, Compressional. E. E. Turner, Jr. 2,422,707; June 24.
Wax injector. B. Spanier. 2,422,990; June 24.
Weed remover. J. A. Roller. 2,422,929; June 24.
Weft detector for looms, Electric. C. B. Keenan. 2,422,911; June 24.
Welder handle. L. W. Wachter and A. Kimber. 2,422,812; June 24.
Welding apparatus. H. H. Hansen and C. E. Smith. 2,423,067; June 24.
Welding apparatus, Arc. J. M. Tyrner. 2,422,811; June 24.
Welding, Electric resistance. J. Struk and R. W. Good. 2,422,756; June 24.
Wheel cover. G. L. Lyon. 2,422,689; June 24.
Whiffletree hook. J. C. Holte. 2,422,731; June 24.
Windshield wiper. H. A. Ungerland. 2,422,761; June 24.
Window guard. J. L. Mayer. 2,422,840; June 24.
Window system. A. Rappl. 2,422,984; June 24.
Wire swivel. R. R. Rundell. 2,423,050; June 24.

CLASSIFICATION OF PATENTS

ISSUED JUNE 24, 1947

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

Note.—First number=class, second number=subclass, third number=patent number

2—	42:	2,423,046
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3—	2:	2,422,748
8—	159:	2,422,897
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	25:	2,422,835
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	263:	2,422,965
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127—	50:	2,422,699
128—	118:	2,422,894
	283:	2,423,060
129—	16.7:	2,422,935
131—	175:	2,422,868
132—	44:	2,422,716
136—	181:	2,422,925
137—	21:	2,422,869
139—	273:	2,422,911
140—	71.5:	2,422,827
143—	6:	2,422,843
	19:	2,423,047
144—	208:	2,422,757
	281:	2,422,979
151—	30:	2,422,833
153—	3:	2,422,838
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154—	14:	2,422,652
	42:	2,422,676
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	110:	2,422,998
	139:	2,422,797
158—	96:	2,422,686
	117.5:	2,422,653
159—	4:	2,422,706
	37:	2,423,035
160—	34:	2,422,840
	173:	2,422,915
	348:	2,422,963
161—	15:	2,422,654
		2,422,655
		2,422,696
		2,422,697
		2,422,698
164—	13:	2,422,952
	71:	2,422,914
	84.5:	2,423,004
	87:	2,422,803
	118:	2,422,774
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167—	19:	2,422,951
	51.5:	2,422,688
	78:	2,422,866
170—	163:	2,422,966
171—	95:	2,422,714
		2,422,766
	241:	2,423,040
	242:	2,422,958
		2,422,995
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	327:	2,423,061
173—	269:	2,422,934
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174—	87:	2,422,982
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175—	30:	2,422,978
	183:	2,422,742
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177—	329:	2,422,988
	334:	2,422,701
	386:	2,422,707
178—	5.4:	2,422,778
	44:	2,422,695
	71:	2,422,677
179—	43:	2,422,700
	100.41:	2,422,817
179—	115.5:	2,423,037
	171.5:	2,422,878
	179:	2,423,014
180—	73:	2,422,739
182—	24:	2,422,801
184—	6:	2,422,864
185—	33:	2,422,753
188—	59:	2,423,055
	72:	2,422,713
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	79.5:	2,423,015
	181:	2,423,057
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192—	2:	2,422,909
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	3.2:	2,422,896
	6:	2,423,070
	129:	2,422,755
	142:	2,422,905
194—	102:	2,422,867
195—	36:	2,422,777
196—	24:	2,422,875
	52:	2,422,791
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	54:	2,423,045
	91:	2,422,790
197—	189:	2,422,650
198—	15:	2,422,941
	184:	2,422,726
200—	116:	2,422,799
	121:	2,422,886
	148:	2,422,784
	153:	2,422,973
	165:	2,422,764
201—	48:	2,422,842
	67:	2,423,021
204—	28:	2,422,902
	34:	2,422,903
	163:	2,422,919
206—	56:	2,422,705
209—	166:	2,423,022
	394:	2,423,026
	458:	2,422,657
210—	24:	2,422,821
	117:	2,422,735
211—	124:	2,422,922
213—	36:	2,422,717
		2,422,718
214—	38:	2,422,910
	83:	2,422,768
218—	0.5:	2,423,038
219—	3:	2,422,928
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		2,422,787
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	13:	2,423,054
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	25:	2,422,856
	35:	2,422,950
	43:	2,422,974
222—	275:	2,422,719
223—	91:	2,422,845
	96:	2,422,732
224—	32:	2,423,003
226—	81:	2,422,750
229—	14:	2,422,899
229—	72:	2,423,027
230—	26:	2,422,880
	45:	2,422,763
	57:	2,422,789
	117:	2,422,860
		2,422,968
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233—	1:	2,422,882
235—	84:	2,422,663
236—	34:	2,422,924
237—	69:	2,422,685
240—	4:	2,422,847
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248—	27:	2,422,908
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250—	1.56:	2,423,023
	1.66:	2,423,024
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		2,422,828
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251—	5:	2,422,921
	102:	2,422,796
252—	48.4:	2,422,769
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	67:	2,422,709
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254—	98:	2,422,795
255—	72:	2,422,955
257—	137:	2,422,831
	261:	2,422,936
259—	3:	2,422,989
	4:	2,422,656
	113:	2,422,708
260—	23:	2,423,033
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	609:	2,422,826
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	683.6:	2,422,670
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		2,422,675
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	795:	2,423,007
261—	30:	2,423,008
	41:	2,422,751
262—	1:	2,422,977
	2:	2,422,985
263—	32:	2,423,018
266—	37:	2,422,967
268—	72:	2,422,770
270—	5:	2,423,028
271—	2.2:	2,422,651
	44:	2,422,783
273—	22:	2,422,939
278—	115:	2,422,731
279—	119:	2,422,785
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	56:	2,423,065
	152.1:	2,422,836
281—	16:	2,422,780
285—	96.3:	2,423,069
286—	7:	2,423,052
292—	79:	2,422,771
	204:	2,422,723
	307:	2,422,879
	328:	2,422,841
294—	50.8:	2,422,929
	83:	2,422,839
		2,422,916
	97:	2,422,848
296—	44:	2,422,912
		2,422,984
	97:	2,422,863
301—	37:	2,422,689
		2,422,690
303—	54:	2,423,012
308—	36.1:	2,422,741
309—	45:	2,423,017
315—	187:	2,423,031
316—	19:	2,422,945
318—	263:	2,422,906
	291:	2,422,687

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,422,651: 271—2.2
2,422,666: 260— 37
2,422,671: 260—666
2,422,674: 260—666
2,422,687: 318—291
2,422,719: 222—275
2,422,725: 154— 42
2,422,727: 174—101.5
2,422,729: 97— 36
2,422,750: 226— 81
2,422,769: 252—48.4
2,422,786: 51— 13
2,422,789: 230— 57
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2,422,800: 113— 49
2,422,858: 240—51.11
2,422,860: 230—117
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2,422,906: 318—263
2,422,952: 164— 13
2,422,953: 18— 14
2,422,965: 126—263
2,422,969: 154— 47
2,422,971: 250— 83
2,422,990: 18— 30
2,423,000: 122—161
2,423,009: 103—202
2,423,021: 201— 67
2,423,031: 315—187

Classification of Designs

D 1—10: Des. 146,978
D 3— 4: Des. 146,977
9: Des. 146,967
Des. 146,968
Des. 146,969
Des. 146,970
26: Des. 146,988
Des. 146,991
D 7— 2: Des. 146,974
D 9— 2: Des. 146,971
D14— 6: Des. 146,972
Des. 146,990
27: Des. 147,001
D15— 8: Des. 146,981
D17—14: Des. 146,976
D26—14: Des. 146,992
D34—15: Des. 146,955
D42— 8: Des. 146,994
Des. 146,995
Des. 146,996
D44— 1: Des. 147,000
22: Des. 146,979
25: Des. 146,999
29: Des. 146,956
D44—29: Des. 146,957
D45— 4: Des. 146,980
9: Des. 146,960
19: Des. 146,958
Des. 146,959
Des. 146,961
Des. 146,962
Des. 146,963
D45—19: Des. 146,964
Des. 146,965
Des. 146,966
D48— 2: Des. 146,986
20: Des. 146,987
23: Des. 146,975
27: Des. 146,973
D54—12: Des. 146,985
D56— 4: Des. 146,954
D66— 2: Des. 146,982
Des. 146,983
D71— 1: Des. 146,984
Des. 146,993
D80— 8: Des. 146,997
Des. 146,998
D86— 8: Des. 146,989

U. S. GOVERNMENT PRINTING OFFICE: 1947

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decisions

In re Application Filed January 11, 1943

Decided May 22, 1947

Application—Benefit of Public Law 690, 79th Congress.

A United States corporation which is the assignee of a patent granted on an invention made by citizens of Germany, and of an application for reissue of the said patent, is barred by section 14 of Public Law 690, 79th Congress, from obtaining the benefits of that law.

On Petition.

Murphy, *Assistant Commissioner:*

Petitioner requests a ruling that section 14 of Public Law 690, 79th Congress, approved August 8, 1946, does not apply to this reissue application.

This application was filed under Order 3662 of October 12, 1942, 543 O. G. 649, for the reissue of Patent No. 2,300,482, granted November 3, 1942. The inventors and applicants are citizens of Germany, but both the patent and application are assigned to a United States corporation.

Section 14 of the act referred to states that "the benefits of the act shall not extend in favor of inventions, applications, or patents made by or owned by citizens of any country with which the United States shall have been at war since the 8th day of September 1939." The invention of this application was made by citizens of Germany, and hence it is clear that none of the benefits of this act can be extended to the invention or the instant application. Ownership is irrelevant when the invention was made by a citizen of a country with which the United States was at war, except in the case of ownership by the Alien Property Custodian. The language of the section is too plain to admit of the construction or interpretation contended for by petitioner.

Moreover, the legislative history of this section of the act admits of no other interpretation than that set forth above. Public Law 690 resulted from H. R. 5223. In this bill as it was introduced, and as it passed the House of Representatives, section 14 reads:

> "The benefits of this act shall not extend in favor of the nationals of any country with which the United States shall have been at war since the 8th day of September 1939."

With this language, petitioner's contention might have been correct, since it can be urged that the enemy national would not be benefited. However, that language was changed by the Senate to the form in which it appears enacted; i. e.—

> "The benefits of this act shall not extend in favor of inventions, applications or patents made by or owned by citizens . . ."

The original language referred to nationals of enemy countries, whereas the present language refers to inventions or applications made by citizens of enemy countries. The change is significant.

Accordingly, it is held that section 14 of Public Law 690 bars this application from the benefits of that act.

The petition is denied.

In re Application Filed August 1, 1939

Decided May 22, 1947

Application—Benefit of Public Law 690, 79th Congress.

An applicant who, at the time when he made his invention, was a citizen of Germany, but who subsequently became a naturalized citizen of the United States is barred by the provisions of section 14 of Public Law 690, 79th Congress, from obtaining the benefits of that law.

On Petition.

Murphy, *Assistant Commissioner:*

Applicant's petition for renewal is dismissed, since the application was never entitled to renewal, renewals having been abolished in August 1939. However, it is being considered as a petition for the acceptance of a delayed payment of final fee, in view of the reference to the Boykin Act (Public Law 690, approved August 8, 1946) in the petition.

The inventor and applicant in this case was a citizen of Germany at the time the application was filed on August 1, 1939. Subsequently, on August 31, 1944, applicant became a naturalized citizen of the United States.

Section 14 of the act referred to states that "the benefits of the act shall not extend in favor of inventions, applications or patents made by or owned by citizens of any country with which the United States shall have been at war since the 8th day of September 1939." The invention of this application was made by a citizen of Germany. The language of this section of the act is too plain and precise to admit of any interpretation other than that none of the benefits of this act can be extended to the invention or the instant application.

The petition is denied.

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TRADE-MARK REGISTRATIONS CANCELED

312,881. Insulated cooling chests for refrigerators and cooling boxes for foodstuffs. The Chilchest Sales Corporation, New York, N. Y. Registered May 8, 1934. Canceled June 3, 1947.

370,156. Furrier's blades. Albert Westpfal, New York, N. Y. Registered Aug. 15, 1939. Canceled June 3, 1947.

380,751. Wallpaper. The Sherwin-Williams Co., Cleveland, Ohio. Registered Aug. 27, 1940. Canceled June 4, 1947.

410,995. Ladies' blouses. Hugo Hamburger, New York, N. Y. Registered Dec. 26, 1944. Canceled June 2, 1947.

424,431. Electric motors and parts thereof and electric generators and parts thereof. The Master Electric Company, Dayton, Ohio. Registered Oct. 8, 1946. Canceled May 27, 1947.

NOTICES

Adjudicated Patents

(D. C. Mass.) Bower patent, No. 2,053,177, for a work holder, claims 5, 7, and 14 *Held* not infringed. *Brown & Sharpe Mfg. Co.* v. *O. S. Walker Co. Inc.*, 70 F. Supp. 937; 73 USPQ 93.

(D. C. Ga.) Holmes patent, No. 2,169,952, for proportional mixing scale, claim 1 *Held* valid and infringed. *Sherwin Williams Co.* v. *Zachos*, 70 F. Supp. 986, 72 USPQ 313.

(D. C. Mass.) Bing & Block patent, No. 2,209,558, for a work holder, claims 1 and 4 *Held* not infringed. *Brown & Sharpe Mfg. Co.* v. *O. S. Walker Co. Inc.*, 70 F. Supp. 937; 73 USPQ 93.

(C. C. A. Va.) Shreckhise patent, No. 2,341,392, for apparatus for coating transfer fabrics *Held* invalid. *Shreckhise* v. *Ritchie et al.*, 160 F. (2d) 593; 73 USPQ 138.

Disclaimers

2,317,438.—*Herbert N. Bradley*, Detroit, Mich. CHECKING STATION FOR SELF-SERVICE STORES. Patent dated Apr. 27, 1943. Disclaimer filed May 19, 1947, by *Evelyn B. Bradley*, administratrix of the estate of *Herbert N. Bradley*, deceased.

Hereby enters this disclaimer to claims 1 and 2 as they stand alone, except as they are restricted by claims 3, 4, 5, 6, 7, and 8.

2,372,537.—*Clarence Wantz*, Milwaukee, Wis. COMBINED THERMOELECTRIC SAFETY SHUTOFF DEVICE AND COCK. Patent dated Mar. 27, 1945. Disclaimer filed May 22, 1947, by the assignee, *Milwaukee Gas Specialty Company;* the inventor, assenting.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 9, 10, 11, and 12 of said patent.

2,374,449.—*Edwin C. Mulcahy*, St. Louis, Mo. METHOD OF PRODUCING CORES FOR ELECTRICAL INDUCTION APPARATUS. Patent dated Apr. 24, 1945. Disclaimer filed May 22, 1947, by the assignee, *Moloney Electric Company.*

Hereby disclaims from said patent claims 1 and 3.

2,404,971.—*John R. Mahoney*, Pittsburgh, and *Harry J. Bichsel*, Forest Hills, Pa. CONTROL CIRCUIT. Patent dated July 30, 1946. Disclaimer filed May 24, 1947, by the assignee, *Westinghouse Electric Corporation, formerly Westinghouse Electric & Manufacturing Company.*

Hereby enters this disclaimer to claims 1 and 6 of said patent.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,295,488, E. L. Mack, Fastener, decided Apr. 4, 1947, claims 2, 4, 5, 6, and 7.

Pat. 2,372,537, Clarence Wantz, Combined thermoelectric safety shutoff device and cock, decided May 5, 1947, claims 1, 2, 3, 4, 5, 9, 10, 11, and 12.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., May 26, 1947.*

P. Centemeri & Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Sol W. Meyerson, Inc., 566 Seventh Ave., New York, N. Y., to effect the cancellation of trade-mark registration of P. Centemeri & Co., 334 Fourth Ave., New York, N. Y., No. 246,794, dated September 11, 1928, and the notice of such proceeding sent by registered mail to the said P. Centemeri & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said P. Centemeri & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,399,227. NUT. Patented Apr. 30, 1946. This nut, adapted for securing the wheels of a vehicle and other uses, cannot be removed by the conventional socket wrench. The nut is circular and has a number of grooves or ways engageable only by the matching keys of a special socket wrench. (Owner) Terrance W. Hilton, 1836 Dacotah Drive, Windsor, Ontario, Canada. Groups 33—91; 40. Reg. No. 5,812.

Pat. 2,416,537. TOBACCO PIPE. Patented Feb. 25, 1947. This invention relates to a tobacco pipe with a removable porous plug in its stem. An odorant receiving recess in the plug destroys objectionable odors when pipe is heated. (Owner) Joseph Neiser, 405 North Second St., Fort Pierce, Fla. Group 39—96. Reg. No. 5,813.

Pat. 2,398,942. METALLIC TIE FOR TRACK RAILS. Patented Apr. 23, 1946. A metallic tie especially useful for quickly laying extension or emergency track rails in coal mines to follow retreating mining faces. A flat body has down-turned flanges at sides for a firm grip on mine floor or other support. Upper surface of tie has fish plates at each end. Outer plates have a flat body portion with headed pins or loose rivets for adjustment on tie when placed beneath meeting ends of track rails. (Owner) James H. Keith, 22570 Ivan Ave., Euclid, Ohio. Group 33—12. Reg. No. 5,814.

Pat. 2,391,521. CLOCK HAND REMOVER. Patented Dec. 25, 1945. A hand operated tool for repairing clocks and watches, especially useful in removing hands, wheels, etc. Comprises a pair of pivotal jaws and a U-shaped spring means for expanding and contracting the jaws. A push member extends through spring and expands and contracts the jaws for clamping a clock hand, etc. (Owner) Elza A. Slagle, 12410 Superior Ave., Cleveland 6, Ohio. Group 34—61. Reg. No. 5,815.

Pat. 2,306,973. CONTAINER CLOSURE. Patented Dec. 29, 1942. A closure for paper containers easily removed without spilling contents. Cover has a downwardly and outwardly flared flange for engagement with rim of container. Removed by slight pressure against inner side of beading and pulling outwardly. (Owner) George Mysels, 48 West 73rd St., New York 23, N. Y. Group 26—99. Reg. No. 5,816.

Pat. 2,409,411. FULL DISPLAY FLAG HOLDER. Patented Oct. 15, 1946. This flag support consists of a straight bar (of wood or other material) channeled to provide a pocket for the edge of a flag. The edge of a flag is forced into the pocket by a U-shaped inserting and clamping strip and secured by cap screws. Holes are provided in the bar so that the flag may be supported on a staff or draped against the wall. (Owner) Arthur O. Zedler, 225 Lincoln Ave., Yonkers, N. Y. Groups 25—99; 33—73. Reg. No. 5,817.

Pat. 2,331,420. BOAT BUMPER. Patented Oct. 12, 1943. A V-shaped cushioning device for mounting on bow of a boat which straddles sides of boat. A replaceable crown at front receives impacts when striking an object. A sheath of woven cordage filled with a cushioning material is provided at each end and has loops for attaching to boat. (Owner) Frank Rando, 59 Irving Ave., Brooklyn, N. Y. Group 37—31. Reg. No. 5,818.

Pat. 2,361,243. MANUFACTURE OF ARTIFICIALLY SMOKED PIPE BOWLS. Patented Oct. 24, 1944. A method of producing an artificially smoked pipe bowl. A mixture consisting of a solid non-combustible filler, a sacchariferous substance and alcohol is applied to cavity of pipe bowl and then heated. Method of applying and various combination of elements are set forth in the patent. (Owner) Max David Schwab. Address correspondence to Pierce & Scheffler, 1319 F St., N. W., Washington 4, D. C. Group 39—96. Reg. No. 5,819.

Pat. 2,402,883. COOKING UTENSIL. Patented June 25, 1946. A circular rack for supporting eggs while boiling. Comprises an outer and an inner annulus with a number of open egg-receiving units between. A U-shaped handle or bail is attached to each annulus and remains out of the boiling water so that the handle will remain cool. (Owner) Algerd J. Gavalis, Box 1112, Joliet, Ill. Group 34—41. Reg. No. 5,820.

Pat. 2,415,668. TURBO GAS SAVER. Patented Feb. 11, 1947. A rotary vaporizer for use in the fuel line of a gasoline type internal combustion engine to increase mileage and power. Fans are rotated at the beginning of each cycle. Fluid passing through the pipes is drawn by the blades and passes therearound and through the holes in blade thus disintegrating the fluid and enabling it to be more completely vaporized. (Owner) Alfred Barabino, 333 West 51st St., New York, N. Y. Group 35—19. Reg. No. 5,821.

Pat. 2,273,579. REEL. Patented Feb. 17, 1942. A reel for the support of the oxygen and acetylene hose of portable welding apparatus. The reel provides a pair of non-leakable rotatable connections which join the hose to a source of supply and permit the reel to be moved into various workable positions as the hose is wound on or off during welding operations. (Owner) Eldon L. Krieg, Krieg & Son Machine Shop, South Whitley, Ind. Group 35—69. Reg. No. 5,822.

Pat. 2,268,211. CLAMP. Patented Dec. 30, 1941. This invention relates to a clamp for hose or the like. A metallic band with teeth has a shiftable, clamping screw pivoted thereto. Automatically locked with band teeth by rotation of screw. (Owner) Charles E. Hathorn, 1146 South Cassingham Road, Columbus 9, Ohio. Groups 35—69; 40. Reg. No. 5,823.

Pat. 2,412,533. Damping Arrangement for Vehicle Suspension Systems. Patented Dec. 10, 1946. A self-adjusting shock absorber for vehicles in which fluid friction is employed for damping. Automatically frees itself to allow the wheels to follow irregularities in the road. As the pistons are moved by a rock arm they cause the damping fluid to pass from one cylinder to the other through a valve controlled conduit. An inertia-controlled spill valve combined with the controlling piston is responsive to shocks and relieves unloading pressure from piston. (Owner) James Alexander Petrie, 107 Rykneld Road, Derby, England. Groups 37—21; 38—31. Reg. No. 5,824.

Pat. 2,411,856. Foldable Gambrel. Patented Dec. 3, 1946. A collapsible gambrel to support a carcass during the butchering and skinning process. A sheath of two parallel plates with a block between supports a swivel suspension eye. A pair of foldable arms are mounted between plates and spread the legs of carcass and prevent twisting of hanger ropes. Pivoted ends of arms are engageable with additional blocks on plates to distribute strains. (Owner) James W. Harding, Route 3, Marysville, Calif. Group 25—41. Reg. No. 5,825.

Pat. 2,415,767. Compartmented Insulated Lunch Box. Patented Feb. 11, 1947. A lunch box subdivided into insulated compartments with air spaces between so different temperatures may be maintained in each compartment. An airtight removable plate with openings for receptacles fits over compartments. Each container has a sealing cap and when the spring tensioned lid of box is closed the caps push tightly in containers. (Owner) Evelyn M. Shaw, 1044 Main Ave., Apt. 7, Long Beach 2, Calif. Group 31—61. Reg. No. 5,826.

Pat. 2,286,879. Package or Container. Patented June 16, 1942. A package or container particularly for the purpose of packing fruits, such as apples, constructed in a manner to give ventilation of the articles within the package and having an elastic top edge to render the packing of the device extremely simple. The package is made in one piece, and the blank may be folded into position at the place of utilization. (Owner) Gerald R. Thew. Address correspondence to Darby & Darby, Chrysler Bldg., 405 Lexington Ave., New York 17, N. Y. Group 26—61. Reg. No. 5,827.

Pat. 2,414,866. Electric Lamp Support for Christmas Trees. Patented Jan. 28, 1947. A self-supporting frame-work of detachable sections electrically connected for adjustment to height of Christmas tree. Rectangular with a circular top to receive the trunk of tree. The branches extend over frame-work so that illumination of the entire tree is possible. Easily collapsed for storing or shipping. Modifications are shown in patent. (Owner) Henry Glaser, 510 Broadway, Santa Monica, Calif. Group 34—81. Reg. No. 5,828.

Pat. 2,406,610. Envelope Opening Device. Patented Aug. 27, 1946. A self-sharpening device for opening envelopes and storing the cuttings for future disposal. Shearing blades are provided in slot in front wall of rectangular casing. A flange overlies top wall and forms a pressure member. Envelope is inserted in slot, the pressure member pushed by thumb causing the shearing blades to cooperate and cut off edge of envelope. The cuttings fall into bottom of casing. (Owner) Fred A. Kelsall, 5278 North 35th St., Milwaukee, Wis. Group 33—51. Reg. No. 5,829.

Pat. 2,410,453. Denture Packing. Patented Nov. 5, 1946. An adjustable device for exerting packing pressure on dental flasks. A denture flask holder is placed between a pair of vertically slidable upper and lower pressure plates. The upper plate is moved downwardly by a coiled tension spring into different set positions against holder. Treadle operated to exert pressure upwardly against lower plate. (Owner) Earl S. Mills, 516 24th St., Hoquiam, Wash. Group 39—17. Reg. No. 5,830.

Pat. 2,367,091. Perspiration Guard for Watches. Patented Jan. 9, 1945. A one-piece detachable guard for a watch to protect watch and wearer's skin from perspiration injury. Comprises a base portion to fit over back of watch case with flanges on both sides. Slightly smaller than watch to cause a slight spreading of flanges and a tight fit on watch. The stem protector is shorter than flange so as not to interfere with winding watch. May be inexpensively stamped from stainless steel or other material resistant to perspiration stains. (Owner) Maurice Bloth, 1233 Amherst Place, St. Louis, Mo. Groups 33—73; 34—62. Reg. No. 5,831.

Pat. 2,154,950. Method of Making Boxes. Patented Apr. 18, 1939. This invention relates to a method of making a box from two rectangular blanks superposed in right angular relation. The blanks are creased for folding and moved by conveyor and adhesive applied by rollers to the surface to be overlapped. Pressure is applied to both surfaces of the overlapping bottom and the corner flaps forming a flat seal. The side walls are also sealed. The box is then passed to the filling machine after which the top is sealed. (Owner) Kenneth W. MacDonald. Address correspondence to Kenway & Witter, 80 Federal St., Boston 10, Mass. Groups 26—61; 35—54. Reg. No. 5,832.

Pat. 2,025,732. Toilet Paper Holder. Patented Dec. 31, 1935. A holder for toilet paper in which a roll of paper may be quickly placed without removing or unlatching any part of the holder. Comprises a plate for fastening to a support. An arm projects from plate and supports a trunnion which passes through bore of paper roll. The knob on end of trunnion overlaps end of roll and prevents displacement. A detachable pendent with a hook at end supports a reserve roll of paper directly beneath and in back of paper hanging from roll in use. (Owner) Emil A. Dodelin, 205 South Church St., Moorestown, N. J. Groups 32—61; 33—61. Reg. No. 5,833.

Pat. 2,411,615. Abrading Device. Patented Nov. 26, 1946. An abrading device comprising a block with a groove in one or both ends. A pair of coil springs secured to each end of block rotatably carry a roller which releasably locks overlapping sheet of abrasive material in the grooves. (Owner) Emil A. Dodelin, 205 South Church St., Moorestown, N. J. Groups 25—99; 34—99; 39—81. Reg. No. 5,834.

Pat. 2,370,732. Bottle Stopper. Patented Mar. 6, 1945. A glass or plastic reuse closure for bottles provided with wedge-shaped lugs which lock in grooves in bottle neck and provide a tight seal when turned slightly. The stopper consists of a solid circular body with a head which seats against outer surface of bottle lip. Below head the stopper has a reversely curved face which corresponds with seat for stopper. The top interior of neck of bottle is provided with a reversely curved seat for the stopper. (Co-owner) Frederick T. Johnson, 638 East Lake View Ave., Milwaukee 11, Wis. Groups 32—29; 39—81. Reg. No. 5,835.

Pat. 2,414,306. Apparatus for Forming Bottles and Jars. Patented Jan. 14, 1947. This invention relates to a device for quickly and economically manufacturing bottles. Inflatable molds are automatically dipped in a tank of molten glass or plastic by an endless chain conveyor. Upon withdrawal the molds are automatically inverted to properly form bottle neck. The molds are then removed by operator and left to set for a time. Air is withdrawn from molds by a vacuum pipe to collapse bags for withdrawal from bottles. (Co-owner) Frederick T. Johnson, 638 East Lake View Ave., Milwaukee 11, Wis. Groups 32—21; 35—59. Reg. No. 5,836.

Pat. 2,417,532. Page End Alarm for Typewriters. Patented Mar. 18, 1947. Platen of typewriter may be provided with an annular groove which is normally covered by the sheet of paper inserted in the machine. A bell is mounted on a stationary part of the machine and includes a pivoted clapper having a laterally projecting lug at one end. A pivotally suspended bar on the carriage is operated to enter the groove when the groove is uncovered by the paper. The bar is caused to move rearwardly toward the lug of the clapper which strikes the bell thus warning the typist before the bottom of the sheet has been reached. (Owner) Edward T. Wickland, Roundup, Mont. Group 35—72. Reg. No. 5,837.

Pat. 2,328,590. Roach Run. Patented Sept. 7, 1943. Groups 26—99; 28—33. Reg. No. 5,838.

Pat. 2,328,591. Roach Run. Patented Sept. 7, 1943. Groups 26—99; 28—33. Reg. No. 5,839.

Pat. 2,340,255. Roach Run. Patented Jan. 25, 1944. Groups 26—99; 28—33. Reg. No. 5,840.

Pat. 2,340,256. Roach Run. Patented Jan. 25, 1944. Groups 26—99; 28—33. Reg. No. 5,841.

These four patents relate to the manufacture of an inexpensive baited roach run which simulates the usual hideaway in which roaches conceal themselves. As generally described in Patent 2,328,590 the run comprises a substantially rectangular cardboard blank which may be provided with crease lines so that it may be folded to form a narrow passageway or rolled into tubular form. The inside of the run may be smeared with poison in paste form or the like and held together by pasting or by an eyelet and rivet arrangement. The run may be set up as a box, tubular housing, wrapped around pipes, etc. In Patent 2,328,591 light is restricted by closing the ends with flaps provided with small openings. In Patent 2,340,255 the interior has a number of V-shaped elements which function as pockets for crystals. Patent 2,340,256 shows the interior of the run loosely packed with fiber which has been treated with poisoned bait. The poison is transferred to the body and legs of the roach forcing its way through the run. Because of its construction, the poison cannot spread to the exterior of the runs and is therefore not hazardous to animals, or children who may inadvertently come in contact with the runs. (Owner) Alex Weil, 323 West 16th St., New York 11, N. Y.

Pat. 2,359,341. Run for Vermin and the Like. Patented Oct. 3, 1944. This "mouse run" is readily assembled from a cardboard blank folded to form a box-like receptacle. The receptacle has a number of insertible "trays" which support poisoned bait, free access to which is given by small openings at either end. The receptacle does not require handling for the removal of dead mice in that the mice are not trapped but permitted to make their "escape" after eating the poisoned bait. The run is neat in appearance and may be placed in narrow passageways, along walls, between partitions, etc. The construction is such that access to the bait cannot be had by household pets. (Owner) Alex Weil, 323 West 16th St., New York 11, N. Y. Group 26—99. Reg. No. 5,842.

Pat. 2,375,239. Safety Pin. Patented May 8, 1945. Self-closing safety pin has its piercing pin member normally urged inwardly into closed position so that it will not lie around open. The pin is opened by gradually compressing the body member only (which is opposite the pin member) between the thumb and finger. When pressure is released the pin will close. Pin may be integrally formed from spring metal or resilient plastic. (Owner) Salem E. Munyer, Jr., 39 Garfield St., Oak Park, Ill. Group 39—99. Reg. No. 5,843.

Pat. 2,415,996. Removable Sectional Coat Lining. Patented Feb. 18, 1947. This two-part interlining is buttoned into an overcoat to provide extra warmth. Each part has a cutaway portion which extends from the armhole to the lower edge of the coat lining, being held together by a number of resilient strips which permit flexibility as well as ease of movement. When not required, the interlining is unbuttoned and each half separately folded and stored in pockets in the lower half of the coat where it may be concealed and yet be readily available for use. (Owner) Eleanor Eilenberg, 90 Atherton Road, Brookline, Mass. Group 23—11. Reg. No. 5,844.

Pat. 2,410,208. Button Protector. Patented Oct. 29, 1946. A shield for temporary attachment to a row of buttons on a garment during laundering, dry cleaning or pressing of the garment. Comprises a sack-like shield which includes a bottom strip having a single row of closely spaced button holes (to receive the buttons on the garment) and a cover strip which overlies the buttons and protects them from injury or loss. Provision is also made to cover longer series of buttons by joining a number of the shields. (Co-owner) Robert A. Gauldin, 530 South Harrison, Enid, Okla. Group 23—89. Reg. No. 5,845.

Pat. 2,400,656. Infinitely Rotatably Adjustable Connection. Patented May 21, 1946. This patent describes a bearing cartridge adapted to be secured to a shaft, an arm of which is to be made fully adjustable. The cartridge has a spaced concentric bearing portion having a close working fit in a bearing hole in the arm, as well as an eccentric portion having abutment with set screws (threaded inwardly in the bearing portion of the arm) to lock the arm in any desired position of adjustment. The connection is applicable to automatic machines as a limit switch, for example, to obtain proper spacing or timing in the movement of one part with respect to another. Modifications shown. (Owner) Ermen C. Schesser, % Blackhawk Industries, 1126 Kishwaukee St., Rockford, Ill. Group 35—43. Reg. No. 5,846.

Pat. 2,411,966. Elevating Platform Apparatus. Patented Dec. 3, 1946. This portable hoist comprises a combination of a standard fixedly mounted on a wheeled base and a hoisting tackle freely suspended from the standard. A fenced-in elevating platform is hingedly connected to a supporting bracket and to a set of arms in turn hingedly connected to the standard. In use, the operator, without leaving the platform, works the chain of the hoisting tackle to raise or lower the platform. By means of a self-locking chain the platform is automatically retained at any desired height as soon as hoisting operation is discontinued. Has various use applications, such as for fruit picking, house painting, tree pruning, replacing overhead bulbs in electric fixtures, etc. Can be made in sizes to suit work. Owner has apparatus in actual use. (Owner) Ray E. Hogan, 1405 Fourth St., Dodge City, Kans. Group 35—31. Reg. No. 5,847.

Pat. 2,412,463. Rail Leveling Device. Patented Dec. 10, 1946. A gauge for use as a target for a surveyor's level to ascertain and indicate the super-elevation of railway curves. The structure has four readily separable units: a panel on which is painted the usual checkerboard squares commonly used on conventional surveyor's targets, two brackets and their standards, and a connecting turnbuckle unit. In operation, if a right hand rail is to be raised three inches above the left, the target is lowered this amount on the right. This is done by means of a handwheel with which each rod is equipped enabling either rod to be rotated at will through its tapped head so that the rod may be retracted or advanced through its supporting collar. (Owner) James W. McDaniel, % Hayward Hotel, Hayward, Calif. Group 37—11. Reg. No. 5,848.

Pat. 2,083,134. Brush. Patented June 8, 1937. This brush is particularly adapted for scrubbing coil pasteurizer vats without marring the finished surface of the vat, etc. Comprises flexible backed brushes supported on a cross shaft having a central extension tongue. The tongue is received in a groove at the lower curved end of a long extension handle. The brushes may also be adapted to other cleaning and scrubbing purposes. (Owner) A. H. Laseur, 1202 Madison St., Clarksville, Tenn. Groups 30—51; 39—22. Reg. No. 5,849.

Pat. 2,171,444. Brush. Patented Aug. 29, 1939. This patent is somewhat similar to Patent No. 2,083,134 in that a pair of brushes are supported on a T-shaped element which serves as a cross shaft and means of connecting the brushes to an extension handle. Springs on each end of the shaft are disposed in countersunk portions in the blocks which comprise the backs of the brushes. In use the tension of the springs is adjusted to suit the requirements of the operator. When the spring tension is at its maximum the brushes are inclined to move in unison with the movement of the handle to maintain the brushes substantially level with the floor while altering the angularity of the handle. (Owner) A. H. Laseur, 1202 Madison St., Clarksville, Tenn. Group 39—22. Reg. No. 5,850.

Pat. 2,214,296. Adjustable Arch Support. Patented Sept. 10, 1940. Support has a base plate and an arch supporting plate movably connected at their ends and at one side. Telescoping screw elements, with finger grip means between the plates intermediate their free edges, are provided for effecting vertical, longitudinal and lateral adjustment of the support. The screws may be independently adjusted. To increase the normal range of the support, a pivoted disc may be moved into bridging relation over the socket in which the screws normally seat to form a raised seat for the screws. (Owner) Joseph Early, 1333 15th St., N. W., Washington, D. C. Group 39—16. Reg. No. 5,851.

Pat. 2,401,065. Money Box. Patented May 28, 1946. Box having a concealed lock is designed so that a person unfamiliar with its construction will encounter difficulty in locating the opening of the box. Box has a double cover comprising two sections, the one with locking means and coin slot being concealed by the other. Both sections are confined between the side walls of the box. The top section, which is flush with and frictionally held between the side walls of the box, has its corners beveled for rocking movement so that downward pressure on any corner will raise the opposite diagonal corner. (Owner) Pedro A. Gonzâlez. Address correspondence to A. M. Winburn, 225 Broadway, New York 7, N. Y. Groups 25—54; 39—72; 40. Reg. No. 5,852.

Pat. 2,301,135. Toggle Bolt. Patented Nov. 3, 1942. Bolt will automatically accommodate itself to varying space conditions existing between double walls. The bolt is characterized by its simplicity, comprising only three parts, a trough-shaped abutment frame pivotally and slidably mounted on a nut-like member which is threaded on the shank of the bolt. The longitudinally extending walls of the frame are provided with elongated slots and the nut has projecting pins on opposite sides. The frame may be pivoted and moved longitudinally along the bolt and maintained in such position for insertion through a wall opening. (Owner) Joseph H. Molat. Address correspondence to A. M. Winburn, 225 Broadway, New York 7, N. Y. Group 33—91. Reg. No. 5,853.

Pat. 2,403,541. Anchoring Device. Patented July 9, 1946. Anchoring device for attaching or hanging various objects to a concrete wall or the like is frictionally retained in a wall recess in a well-known manner by a soft metallic sheath. The device, comprising an outer rigid tubular member surrounding an inner bolt-like member, is designed to provide a universal mounting. This type mounting permits a selected object to be attached to a wall even when the holes in the object are not in exact alignment with the anchoring devices, two of which are generally employed. A screw is threaded into the bolt member to hold the object to the wall. Modifications shown in patent. (Owner) Joseph H. Molat. Address correspondence to A. M. Winburn, 225 Broadway, New York 7, N. Y. Group 33—91. Reg. No. 5,854.

Government Owned Patent

The following patent, owned by the United States Government, as represented by the Secretary of the Interior, is available for licensing upon a non-exclusive, royalty-free basis:

Pat. 2,414,815. Beneficiation of Beryllium Ores. Patented Jan. 28, 1947. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) This invention relates to the production of a beryllium concentrate from ores containing beryllium minerals mixed with a gangue of widely varying composition. Comprises treating a ground beryllium ore with an acidic fluorine compound and then mixing a higher fatty acid mineral-filming reagent with the ore. A filmed mineral is separated by froth flotation to yield a beryllium-enriched concentrate. Examples given in patent. Group 32—95. Reg. No. 5,855.

Regulations under which licenses are granted are issued by the Secretary of the Interior. Applications for licenses should be made to the Solicitor, Department of the Interior, Washington 25, D. C.

Patents Removed from Register

Reg. No. 7. Patent 2,329,044. Dual Cylinder.
Reg. No. 149. Patent 1,933,250. Carrier Bag.
Reg. No. 150. Patent 1,993,135. Inverse Cam.
Reg. No. 151. Patent 2,029,418. Reflex Shutter.
Reg. No. 179. Patent 2,302,698. Multiple Tissue Carrier.
Reg. No. 538. Re. Patent 22,002. Mixing Machine.
Reg. No. 2,583. Patent 2,356,544. Extensible Rule.
Reg. No. 2,926. Patent 2,333,178. Garment Clamp.
Reg. No. 2,577. Patent 2,388,383. Spring Winder.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING MAY, 1947

Les Parfums de Dana, Inc., *v.* Arthur H. Ferber, Opposition No. 24,235.

In a decision rendered May 1, 1947 (169 Ms. Dec. 320, 73 USPQ 235), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Les Parfums de Dana, Inc., of New York, N. Y., to the application of Arthur H. Ferber, of Madison, N. J., for registration of the notation "L'Dianelle" as a trade-mark for perfume. Opposer relied upon its ownership of a composite mark for the same goods, which is dominated by the word "Dana," and was registered prior to applicant's date of first use.

It was held that the only question to be determined is whether or not this word and applicant's mark bear such close resemblance as to be likely to cause confusion when applied to identical merchandise of the character involved.

After holding that the two words do not look alike, nor do they have any similarity in meaning, in response to opposer's argument that they may be so pronounced as to be confusable in sound, it was held that it would not serve any useful purpose to discuss the various possible pronunciations that are suggested in the briefs, because opposer's versions are all farfetched; to approach similarity would require deletion of the beginning and terminal portions of applicant's mark, which must be considered as an entirety, and that so considered, it differs from opposer's mark in all essential particulars.

Ex parte Joseph Antell, Serial No. 469,181.

In a decision rendered May 2, 1947 (169 Ms. Dec. 321, 73 USPQ 259), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks rejecting the application of Joseph Antell, of Brookline, Mass., to register a mark for women's, misses' and children's shoes, made of leather, fabric, or rubber, or combinations of those materials, the mark being essentially the notation "jo jean." The marks relied upon by the Examiner are "Ro Jean" and "Jolene," registered, respectively, for silk and woolen hosiery of all kinds, suits and coats for men and women, women's dresses, and children's dresses and coats; and for women's shoes of leather, rubber, fabric, or combinations thereof.

It was held that the fact that applicant's mark is written or printed in a distinctive manner adds nothing to its registrability, since it does not appear to be the name of an individual.

In response to applicant's argument that its own goods and the goods of the "Ro Jean" registration are of different descriptive properties it was held that the U. S. Court of Customs and Patent Appeals has ruled to the contrary, and it is interesting to note that in the application as originally filed, applicant's description of merchandise included hosiery, gloves and underwear.

After noting applicant's concession that its goods are in part identical with those to which the "Jolene" mark is appropriated, in response to applicant's assertion that the words "jo jean" and "Jolene" have entirely different meanings, and are different in sound, appearance and pronunciation, it was held that it is doubtful if either mark has any meaning; that it is obvious that they, in common with the "Ro Jean" mark, are very nearly alike in sound; and that it is now well established that similarity in sound alone may result in confusion between competing trade-marks.

In response to applicant's contention that its mark bears no nearer resemblance to either of the registered marks than they do to each other it was held that the right of registration in the instant case may not be determined by the actions had in those cases.

Ex parte Bucyrus-Erie Company, Serial No. 473,801.

In a decision rendered May 2, 1947 (169 Ms. Dec. 322; 73 USPQ 260), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks who had refused to register to Bucyrus-Erie Company, of South Milwaukee, Wis., the trade-mark "Bucyrus-Erie," under the provisions of the act of February 20, 1905, in the absence of a disclaimer of the geographical word "Erie."

After noting that "Bucyrus" is also geographical, but that the word is presented under the ten-year proviso of the act, and has been so registered on at least two previous occasions, in response to applicant's contention that the statute itself condemns not a mark which contains a geographical name or term, but rather one which consists in merely a geographical name or term, it was held that the effect of the rule announced by the U. S. Court of Customs and Patent Appeals is to require the disclaimer of all nonregistrable matter in composite trade-marks before their registration may be effected.

After noting that "Erie" is of course primarily geographical, but it is not merely so, because it is also the name of an extinct Indian tribe, it was held that while this fact alone does not warrant reversing the Examiner's ruling, nevertheless it does provide a basis for the application of the doctrine of reasonable doubt.

After noting that applicant's mark is appropriated to a long line of heavy machinery, the major portion of which is listed in a registration of the same identical mark that was issued without disclaimer in 1930, and that the present application merely adds to that list various articles of the same kind that have more recently come into production, it was held that although the First Assistant Commissioner was unable to agree with the reasoning of the decision allowing the registration; or with the conclusion there reached, or with applicant's contention that the present point in issue is res judicata by virtue thereof, nevertheless, the situation warrants the most liberal view of applicant's rights that is permissible under the statute.

It was held that subject to opposition, applicant is entitled to the proposed registration; to now require a disclaimer of the word "Erie" in applicant's mark would becloud the validity of a registration which has afforded applicant prima facie evidence of its ownership for seventeen years; apparently no one has ever disputed such ownership and the Patent Office should not now do so.

EX PARTE ZIFF-DAVIS PUBLISHING COMPANY, Serial No. 467,708.

In a decision rendered May 8, 1947 (169 Ms. Dec. 325, 73 USPQ 261), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks, who had refused to register to Ziff-Davis Publishing Company, of Chicago, Ill., under the provisions of the act of March 19, 1920, the notation "Radio-Electronic Engineering," which applicant claims to have used since January 15, 1944, as the title of a periodical, on the ground that it is confusingly similar to a registration issued June 12, 1928, under the act of February 20, 1905, the registration disclosing the trade-mark "Radio Engineering" for a monthly magazine.

After noting that in September 1937 "Radio Engineering" appears to have been merged with several other magazines, and the title changed to "Communications," after which the registered mark has appeared only in the masthead of "Communications," along with the titles of the other discontinued publications, in response to applicant's contention of abandonment of the mark of the registration, it was held that for nearly ten years "Radio Engineering" has not been used as a trade-mark, and that such use as has occurred strongly indicates abandonment.

After noting the Examiner's conclusion that there is no showing as to whether the consolidation is part of a permanent plan or only a temporary measure, it was held that in the latter event the owner of the "Radio Engineering" registration may always protect such rights as it may have by the institution of an appropriate cancellation proceeding, so that upon the record presented applicant is entitled to the proposed registration.

GABRIELEEN COMPANY, INC., *v.* ISADORE BLUESTONE, Cancellation No. 4579.

In a decision rendered May 8, 1947 (169 Ms. Dec. 323, 73 USPQ 262), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the petition of Gabrieleen Company, Inc., of Chicago, Ill., to cancel trade-mark registration No. 413,487, issued April 24, 1945, under the provisions of the act of March 19, 1920, to Isadore Bluestone, of Pittsburgh, Pa. Respondent's mark is essentially the notation "Glo·Tint," which the Examiner held to be confusingly similar to petitioner's trade-mark "Glo-Tone," registered August 27, 1935, under the act of February 20, 1905, the goods to which the two marks are appropriated being, respectively, cream powder face make-up and leg make-up, and a permanent waving compound.

After noting respondent's concession that petitioner's goods and his own are of the same descriptive properties, in response to respondent's argument that they are specifically different, and that there is very little likelihood that one purchasing a permanent hair wave would be given a cream powder make-up or a leg make-up, it was held that the Examiner was right in ruling that purchasers would so intimately relate the goods in their minds as to assume that they had a common source of commercial origin if sold under the same or similar marks.

It was held that although the marks here in question differ somewhat in appearance and sound, nevertheless in significance they are substantially identical, so that they are thus likely to cause the confusion, mistake and deceit which the statute prohibits.

In response to respondent's assertion that the syllable "Glo" is not capable of exclusive appropriation by anyone in connection with goods of the character here involved, it was held that the validity of petitioner's registration is not in issue; the only question that may properly be determined is whether respondent's registration should be canceled because injurious to petitioner.

BENDIX AVIATION CORPORATION *v.* EMPIRE ELECTRIC BRAKE COMPANY, Opposition No. 24,023.

In a decision rendered May 9, 1947 (169 Ms. Dec. 326, 73 USPQ 262), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the opposition of Bendix Aviation Corporation, of South Bend, Ind., to the application of Empire Electric Brake Company, of Newark, N. J., for registration of the word "Vacdraulic" as a trade-mark for vehicle brakes and parts thereof, the mark having been in use since May 7, 1943, on the ground that applicant's mark is confusingly similar to opposer's trade-mark "Pneudraulic Shot Strut," registered August 16, 1932, for shock struts, the words "Shock Strut" being disclaimed.

It was held that the Examiner of Interferences was right in ruling that the goods of the parties

must be regarded as having the same descriptive properties, since the description of goods in the application is sufficiently broad to include brakes for aircraft; and the proposed registration would afford prima facie evidence of applicant's ownership of the mark for vehicle brakes of all kinds.

It was held that opposer's goods are sold only to highly discriminating purchasers, and that is equally true of applicant's goods, so that the opportunity for confusion is thus reduced to a minimum, and as applied to such goods the Examiner was in error in ruling that the trade-marks in question are confusingly similar.

It was held that the marks differ substantially in appearance and in sound; and to an engineer, or even to a mechanic, they would not be confusable in significance; their only common portion is "draulic," which means nothing standing alone; and in its combination with the completely dissimilar prefixes "Vac" and "Pneu" results in words that suggest entirely different ideas, so that, viewed as a whole, these marks differ sufficiently to be used concurrently upon the particular merchandise involved without any reasonable likelihood of confusion.

THE WOOLEN CORPORATION OF AMERICA *v.* JOHN MATOUK & COMPANY, Opposition No. 24,188.

In a decision rendered May 14, 1947 (169 Ms. Dec. 328, 73 USPQ 296), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of The Woolen Corporation of America, of New York, N. Y., to the application of John Matouk & Company, also of New York, N. Y., for registration of a trade-mark, which is the word "Woraco," appropriated to piece goods made of wool, cotton, and rayon, and a combination of wool, rayon, and cotton, use of the mark being claimed since October 1943, and dismissing applicant's counterclaim seeking cancellation of the registration on which opposer relied, namely, the mark "Wocora," registered September 6, 1927 for woolen, worsted, cotton piece goods.

It was held that the goods of the parties are in part identical, and their trade-marks are so nearly alike that confusion would inevitably result from their concurrent use.

In response to applicant's insistence that opposer's mark has been abandoned it was held that no testimony was taken in support of this contention.

In response to applicant's argument that abandonment is sufficiently proved by the fact that a label attached to the notice of opposition, showing use of the opposer's mark, displays the word "Wocora" in association with the word "Fabrics" and a design, it was held that it may well be, however, that the mark is also being used precisely as it appears in the registration, so that the Examiner of Interferences was right in ruling that applicant's argument to the contrary is based on mere conjecture.

EX PARTE AMERICAN WOOLEN COMPANY, Serial Nos. 473,012 and 477,453.

In a single decision rendered May 14, 1947 (169 Ms. Dec. 329, 73 USPQ 295), *First Assistant Commissioner Frazer* reversed, in each of two cases, the action of the Examiner of Trade-Marks, who had finally rejected two applications of American Woolen Company, of New York, N. Y., for registration under the Trade-Mark Act of March 19, 1920, in which applicant seeks registration of the words "Twill Suede," in association with its corporate name, "American Woolen Co.," as a trade-mark for woolen piece goods, and as a collective mark for ladies' and children's coats and suits, it having been the Examiner's opinion that the mark is dominated by "Twill Suede" which is devoid of trade-mark significance and therefore incapable of functioning as a trade-mark.

After noting that the words "twill" and "suede" are of course separately descriptive of textile fabrics, it was held that there is no such fabric as "twill suede," so that their combination results in a somewhat incongruous expression that is not aptly descriptive of either piece goods or coats and suits; but even if it were, the addition of applicant's name is sufficient to render the mark as a whole registrable under the liberal provisions of the 1920 act.

EX PARTE MCKESSON & ROBBINS, INCORPORATED, Serial No. 456,127.

In a decision rendered May 15, 1947 (169 Ms. Dec. 330, 73 USPQ 296), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to McKesson & Robbins, Incorporated, of New York, N. Y., a composite mark for goods described in the application as a perfumed toilet preparation for the purpose of cleansing the scalp and hair, imparting a lustre to the hair and keeping it well groomed and in place.

After noting that the mark is dominated by the word "Brace," which was held to be confusingly similar to the registered trade-mark "Bracine" in the cancellation case of McKesson & Robbins, Incorporated, *v.* Leonard James Co., 29 C. C. P. A. 1137, 129 F.(2d) 563, and quoting from a prior decision (542 O. G. 803, 54 USPQ 333) of the First Assistant Commissioner, it was held that the Examiner properly ruled that the question of registrability now presented is res judicata.

It was further held that in any event, the proposed registration must be refused on the merits, because having convinced the court that deodorants and vitamin preparations are of the same descriptive properties, applicant is hardly in a position to argue now that toilet preparations and antiseptic liniments are not.

It was also held that it is not material that the owner of the "Bracine" mark has consented to the registration of applicant's mark for the goods named in the instant application; moreover, it is interesting to note that such consent was purchased by applicant for the sum of four thousand dollars, which circumstance detracts considerably from its intended persuasiveness.

Johnson, Stephens and Shinkle Shoe Company *v.* Scholnick Shoe Corp., Opposition No. 24,319.

In a decision rendered May 16, 1947 (169 Ms. Dec. 331, 73 USPQ 297), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Johnson, Stephens and Shinkle Shoe Company, of St. Louis, Mo., to the application of Scholnick Shoe Corp., of Boston, Mass., for registration of the word "Symphonettes" as a trade-mark for women's shoes. Opposer owns three registrations for shoes of composite marks that are dominated by the notation "Rythmn Step," and has also used the word "Fashionette" to indicate origin of its merchandise.

In response to opposer's argument that "Symphonettes" and "Fashionette" are similar in sound and appearance, and that because applicant's mark obviously is derived from the word "symphony," they are also similar in significance when used in reference to women's clothing, it was held that applicant's mark is doubtless suggestive of style, and possibly of fashion, but certainly it does not have the same meaning as either; and that as to the sound and appearance of the two marks as a whole, their dissimilarity is too apparent to merit discussion.

With reference to opposer's position as expressed in its testimony to the effect that in opposer's national advertising, extending back for many years, the musical notes and staff have been incorporated, tying in the musical and rhythmical connection by the word "rhythm," and the harmonious movement of a woman walking in "Rhythm Step" shoes, it was held that while it is true that "rhythm" and "symphony" are both musical terms, that does not make them synonymous, nor does opposer's ownership of the word "Rhythm" as a part of its registered trade-marks carry a monopoly of all other musical terms, for obviously "symphony" and "rhythm" differ radically in appearance, meaning and sound.

It was further held that while the two marks "Symphonettes" and "Rhythm Step" have the same vowel sounds, that is their only point of resemblance, and is not sufficient to render them confusingly similar.

The Seven Up Company *v.* H. L. Price, Opposition No. 23,043.

In a decision rendered May 21, 1947 (169 Ms. Dec. 333, 73 USPQ 358), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of The Seven Up Company, of St. Louis, Mo., to the application of H. L. Price, of Buckhannon, W. Va., for registration of a trade-mark for nonalcoholic, maltless, soft drinks, the mark consisting of the words "Drink-Up" and "It's Later Than You Think" together with a representation of Father Time. Opposer relied upon its registered trade-marks "Seven Up" and "7 up," both appropriated to merchandise substantially the same as applicant's, and both in use for many years prior to applicant's first use of the mark opposed.

It was held that applicant's mark is clearly dominated by the notation "Drink-Up" but that "Drink-Up" and "Seven Up," each considered as a whole, do not look alike, sound alike, or have the same meaning so that were the goods of the parties anything but beverages, there would be no difficulty in agreeing with the applicant that the concurrent use of their trade-marks would not be likely to result in confusion, but inasmuch as each applies to soft drinks, the word "Drink" in applicant's mark is incapable of trade-mark significance; certainly opposer has the right to use the word "Drink" in advising the public to "Drink Seven Up," and such use might well be regarded prima facie as an infringement of applicant's mark were the proposed registration granted so that confusion would be reasonably likely and opposer would probably be damaged.

Bond Stores, Incorporated, *v.* Bond Diamond Company, Opposition No. 24, 110.

In a decision rendered May 21, 1947 (169 Ms. Dec. 335, 73 USPQ 359), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Bond Stores, Incorporated, of New York, N. Y., to the application of Bond Diamond Company, of New York, N. Y., for registration of the word "Bond," printed on a diamond-shaped background as a trade-mark for diamonds, use of the mark being claimed since August 4, 1944. One trade-mark registration upon which opposer relied, issued August 22, 1933, is of the word "Bond" for men's and boys' suits, trousers, coats, vests; negligee, work, and dress shirts, collars, sweaters, raincoats, underwear, hats.

After noting that opposer also sells women's wearing apparel and costume jewelry, and such dress accessories for men as cuff links, tie clips, collar bars, shirt studs and belt buckles, none of these items, however, being sold under the "Bond" trademark, nor is there any evidence that opposer deals in diamonds so that the Examiner of Interferences was of the opinion that the goods to which the marks of the parties are respectively applied are unquestionably of different descriptive properties, in response to opposer's argument to the contrary because shirts and collars had been held to have the same descriptive properties as collar buttons, it was held that applicant does not seek registration of its mark for collar buttons, so that there is ample authority to support the Examiner's ruling that the goods to which the marks are respectively applied are of different descriptive properties.

Triangle Publications, Inc., *v.* Chester H. Roth Co., Inc. (Miles Shoes Incorporated, Assignee, Substituted), Opposition No. 24,357.

In a decision rendered May 27, 1947 (169 Ms. Dec. 337, 73 USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Triangle Publications, Inc., of Philadelphia, Pa., to the application of Chester H. Roth Co., Inc. (Miles Shoes Incorporated, Assignee, Substituted), of New York, N. Y., for registration of a trade-mark comprising the word "Seventeen," claimed to have been used since January 5, 1945, in connection with hosiery. Opposer owns a registration of the same mark for a monthly magazine devoted to the interests of girls, which registration was issued January 9, 1945, upon an application filed August 22, 1944.

It was held that according to the testimony opposer's magazine was not published until September 1, 1944, so that the mark was not in use when the application was filed but the validity of the registration is not here in issue.

In response to applicant's argument because there is no allegation in the notice of opposition that the goods of the parties are of the same descriptive properties, the notice is fatally defective and should be dismissed on that ground, it was held that the point does not appear to have been raised before the Examiner of Interferences, however; and in view of opposer's insistence that it is not material it was preferred to decide the case on the merits, as did the Examiner.

In response to the opposer's argument that today the only requirement is that the trade-mark is used by another in such a way as to lead purchasers to believe that the original owner has in some way sponsored or approved the infringer's products or that there is some connection between the products of both parties, it was held that while that is generally true in cases of trade-mark infringement and unfair competition, it is not necessarily so in trade-mark opposition proceedings for the Patent Office is not concerned with questions of unfair competition since its functions are prescribed and restricted by statute so that if the marks closely resemble one another, or even if they are identical, confusion in trade will not be likely to result in a statutory sense, unless the goods of the parties possess the same descriptive properties.

It was held that the Examiner was right in ruling that opposer's magazine and applicant's hosiery are of different descriptive properties notwithstanding a court decision from which opposer has quoted extensively in its brief since the evidence there considered is not of record in the instant proceeding nor was applicant a party to that case; the facts recited in the opinion appear to have been established to the satisfaction of the court, but their recital does not constitute proof against applicant.

After stating an additional ground of opposition pleaded in the notice concerning opposer's use of the trade-mark in advertising women's and girls' clothing and accessories, including hosiery, continuously since on or before September 1, 1945, and after noting that since the appeal was argued, opposer has moved to amend by substituting "September 1, 1944," on the ground that the year was incorrectly stated as a result of a typist's error, which did not come to the attention of attorneys for the opposer, it was held that this mistake is obvious for the notice was filed on June 12, 1945, and the proposed amendment was accordingly allowed.

It was held that the error in the amendment does not strengthen opposer's case because there is no evidence when opposer began to use its mark in connection with such advertising; the opposed application was filed on February 1, 1945, and for all that appears, opposer had used the mark prior to that date for no other purpose than as the title of its magazine.

B. A. Railton Co. *v.* Bordo Products Company, Opposition No. 23,768.

In a decision rendered May 28, 1947 (169 Ms. Dec. 339, 73 USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had dismissed the opposition of B. A. Railton Co., of Chicago, Ill., to the application of Bordo Products Company, of Chicago, Ill., for registration of the word "Bordo" as a trade-mark for canned citrus fruit products for food purposes—namely, grapefruit segments and broken segments, grapefruit and orange juice, and blended juices, marmalade, jellies, and packaged dates, the application as filed claiming use of the mark since 1928. Opposer relied upon its alleged ownership of the mark "Barco," displayed in various styles and combinations, and so registered some seventeen times for numerous grocery products and related items, its earliest registration being for prepared mustard, India relish, salad dressing, chili sauce, cane and maple syrup, which registration was issued April 16, 1918, upon an application filed March 14, 1916.

It was held that applicant has proved use of the mark through its predecessors in interest on merchandise of the same descriptive properties since July 13, 1916, and while it would have been better practice to amend the application and the answer to the notice of opposition accordingly, under Rule 15(b) of the Rules of Civil Procedure, applicant's failure so to amend does not affect the result of the trial of these issues.

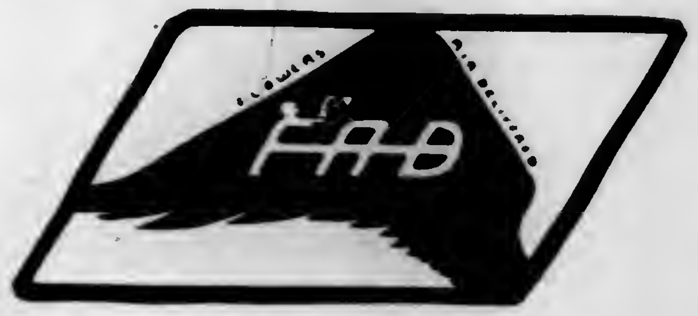
After noting that the letters "C" and "O" in opposer's earliest registration as printed are very insignificant and in fact are almost illegible, it was held that in the drawing of the application, and in the specimens filed therewith, these letters are quite distinct and that surely they may not properly be disregarded as they were by the Examiner merely because of defective printing in the certificate; obviously the mark is derived from the opposer's name but when pronounced it necessarily becomes "Barco," in which form it has long been used in opposer's advertising and has more recently been registered.

After noting that applicant's mark is said to be a phonetic spelling of the name of the city of Bordeaux, France, it was held that although it thus differs from opposer's mark in significance, as it does in appearance, from the mark of opposer's old registration, nevertheless, when the two expressions are spoken, "Bordo" and "Barco" sound very much alike, regardless of the manner in which the latter is printed and at least those purchasers who are unfamiliar with the derivation of the marks, and would thus regard them as coined, might well be confused.

It was held that since the goods of the parties are clearly of the same descriptive properties, and applicant concedes opposer's priority of use, it follows that the opposition should be sustained.

Florists Telegraph Delivery Association, Inc., v. Amling's of California, Inc., Opposition No. 23,937.

In a decision rendered May 29, 1947 (169 Ms. Dec. 341, 73 USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the opposition of Florists Telegraph Delivery Association, Inc., of Detroit, Mich., to the application of Amling's of California, Inc., of San Francisco, Calif., for registration of a trade-mark for natural flowers and plants, applicant's mark appearing as follows:



After referring to the scope, requirements and functions of the opposer association as alleged in the notice of opposition and the Examiner's statement that the opposer is customarily and frequently identified merely by the designation "F. T. D." so that the Examiner thus sustained the opposition on the apparent theory that applicant's mark constitutes a substantial appropriation of opposer's name, it was held that it is scarcely accurate to say that applicant's business and the business of the opposer are competitive for applicant sells flowers and opposer sells service, but their activities are of course quite closely related so that could agreement be expressed with the Examiner that applicant's mark so nearly resembles the abbreviation of opposer's corporate name as to be reasonably likely to be mistaken therefor, there would be no difficulty in affirming his decision.

It was held, however, that even were applicant's mark merely the letters "FAD," it would differ very considerably from the initials "F. T. D.," since the two notations viewed as a whole do not look alike, nor do they sound alike when spoken; but that "FAD" is not applicant's mark; the mark comprises those letters printed in a "particular or distinctive manner"; and it is only when not so "written, printed, impressed, or woven" that the name of a corporation is forbidden registration by section 5 of the Trade-Mark Act of 1905.

Keystone Lubricating Company v. Leo A. Sauer, Opposition No. 24,120.

In a decision rendered May 29, 1947 (169 Ms. Dec. 342, 73 USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Keystone Lubricating Company, of Philadelphia, Pa., to the application of Leo A. Sauer, of Glendale, Calif., for registration of a trade-mark, comprising the notation "V-O," claimed to have been used since November 15, 1940, for motor oil, clutch oil, penetrating oil, tune-up oil, valve oil, cylinder oil, high-speed oils, home use oils. Opposer relied upon its ownership of the trade-mark "Velo," registered July 17, 1934, for lubricants comprising oils and greases. Neither party took testimony.

It was held that applicant's mark might well be termed a "telescoped version" of opposer's mark and that, moreover, the two may be so pronounced as to be indistinguishable in sound; and this similarity alone is sufficient to cause confusion.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 24, 1947

[Vol. 599. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 491,482. Kerr Dental Manufacturing Company, Detroit, Mich., now by change of name to Kerr Manufacturing Company. Filed Nov. 13, 1945.

PLATINITE

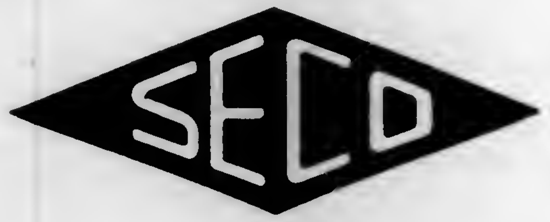
FOR INVESTMENT COMPOUNDS OF A CERAMIC NATURE USED IN THE MAKING OF MOLDS FOR PRECISION CASTINGS AND SOLD TO THE TRADE IN POWDERED FORM.

Claims use since Sept. 26, 1945.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 498,863. Seco Products Company, Toledo, Ohio. Filed Mar. 23, 1946.



FOR WASHING AND GENERAL CLEANING POWDER.

Claims use since January 1946.

Ser. No. 507,687. Oakite Products, Inc., New York, N. Y. Filed Aug. 20, 1946.

TRISANITE

FOR NON-SAPONACEOUS CLEANING PREPARATION HAVING ALSO DEODORIZING AND DISINFECTING QUALITIES.

Claims use since July 31, 1946.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 458,480. Societe des Usines Chimiques Rhone-Poulenc, Saint-Fons, France. Filed Feb. 11, 1943.

ANTERGAN

FOR PHARMACEUTICAL AND VETERINARY PRODUCTS—NAMELY, PREPARATIONS FOR THE RELIEF OF HIVES, QUINCKE'S EDEMA, ITCHES, SERUM SICKNESS, SHOCKS, ANAPHALACTICS, MEDICAL OR OPERATIONAL WOUNDS, BAD BURNS, ASTHMA, HAY FEVER, MIGRAINE, HYPERSENSITIVE ECZEMA, ERYTHEMA RESULTING FROM CHEMOTHERAPY, ALIMENTARY ERYTHEMA AND ZONA.

Claims use since Apr. 24, 1942.

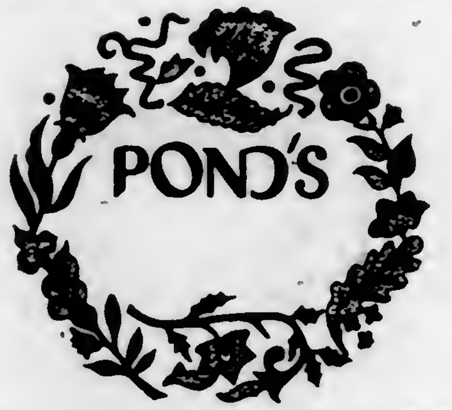
Ser. No. 458,481. Societe des Usines Chimiques Rhone-Poulenc, Saint-Fons, France. Filed Feb. 11, 1943.

FONTAMIDE

FOR PHARMACEUTICAL AND VETERINARY PRODUCTS HAVING THERAPEUTIC ANTI-MICROBE, ANTI-BACTERIAL, AND ANTI-MYCOSIC ACTION.

Claims use since June 29, 1942.

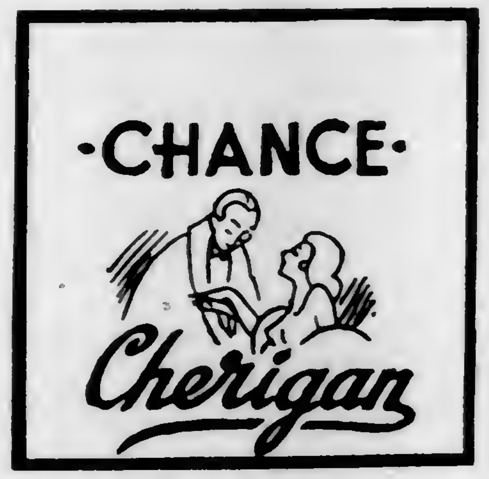
Ser. No. 480,378. Pond's Extract Company, New York, N. Y., and elsewhere. Filed Mar. 1, 1945. Under section 5b of the act of 1905 as amended in 1920.



FOR TOILET AND COSMETIC PRODUCTS—NAMELY, SKIN FRESHENER, CREAM LOTION, ROUGE, AND A PREPARATION TO BE APPLIED TO THE FACE TO FORM A MAKE-UP BASE OR FOUNDATION.

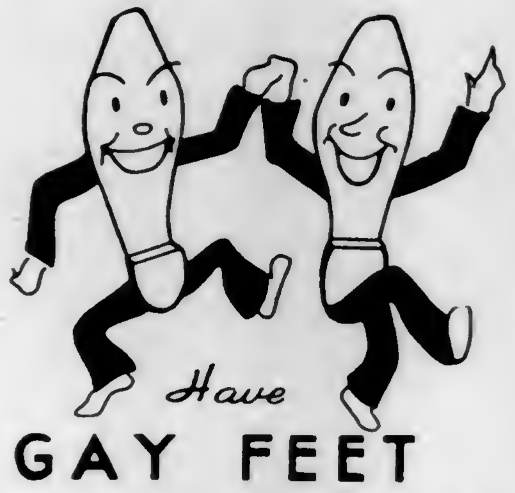
Claims use since Aug. 18, 1941.

Ser. No. 483,447. PERFUMES HABANA, S. A., Habana, Cuba. Filed May 16, 1945.



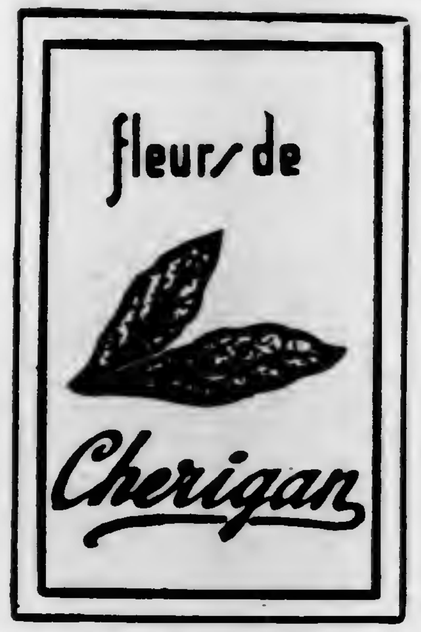
FOR PERFUMES, EAU DE COLOGNE, ROUGES, AND LIP COLORINGS.
Claims use since 1937.

Ser. No. 484,395. E. FREDERICK DOWD, doing business as Golden Gate Remedies, Oakland, Calif. Filed June 11, 1945.



The word "Feet" is disclaimed apart from the mark.
FOR CORN ERADICATOR PREPARATION.
Claims use since Apr. 9, 1944.

Ser. No. 485,541. PERFUMES HABANA, S. A., Habana, Cuba. Filed July 7, 1945.



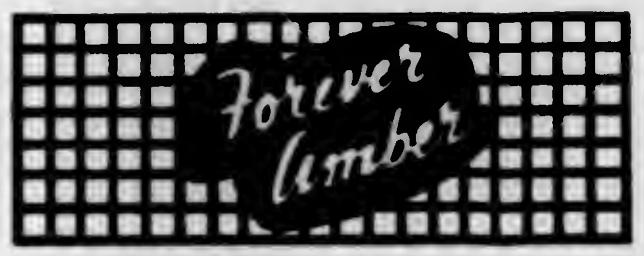
Applicant disclaims the representation of the outline of the label.
FOR PERFUMES, EAU DE COLOGNE, FACE AND BATH POWDERS, ROUGES, AND LIPSTICKS.
Claims use since 1935.

Ser. No. 488,973. RIT PRODUCTS CORPORATION, Chicago, Ill. Filed Sept. 25, 1945.

EGGOYL

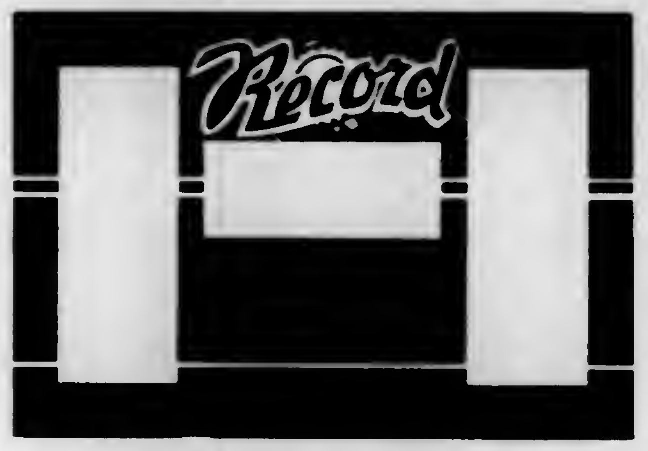
Applicant is the owner of T. M. 252,770, registered Feb. 12, 1929, comprising the word "Eggoyl."
FOR SHAMPOOING PREPARATIONS FOR THE CARE AND TREATMENT OF THE HAIR AND SCALP.
Claims use since June 30, 1928.

Ser. No. 489,716. KAY DAUMIT, Chicago, Ill., assignor, by mesne assignments, to Kathryn, Inc., Chicago, Ill., a corporation of Illinois. Filed Oct. 10, 1945.



Applicant makes no claim to the word "Amber" alone.
FOR PERFUME.
Claims use since Mar. 30, 1945.

Ser. No. 491,248. DURITE CORPORATION, Detroit, Mich. Filed Nov. 8, 1945.



FOR HAIR TONICS, HAND LOTIONS, TOOTH CLEANING PASTES, ASPIRIN, FRECKLE CREAM, FACIAL CREAM, LIPSTICKS, EAU DE COLOGNE, AND PERFUMES.
Claims use since Oct. 15, 1945.

Ser. No. 493,598. RICHARD HUDNUT, New York, N. Y. Filed Dec. 20, 1945.

LE DEBUT

FOR CLEANSING CREAMS, SACHET POWDER, LEG MAKEUP, MASCARA, EYE SHADOW, CREAM AND CAKE ROUGE, ASTRINGENT, SKIN FRESHENER, DEODORANT, POWDER LOTION, SKIN FIRMING LOTION, ANTISEPTIC LOTION, FOUNDATION LOTION, CAKE MAKEUP, EYEBROW PENCIL AND MAKEUP BASE.
Claims use on cleansing cream, sachet powder, leg makeup, mascara, eye shadow, cream and cake rouge, astringent, skin freshener, deodorant, powder lotion, skin firming lotion, antiseptic lotion, foundation lotion and cake makeup since May 29, 1945; on makeup base since Sept. 21, 1945, and on eyebrow pencil since Nov. 16, 1945.

Ser. No. 497,266. MILDRED J. ONUFROCK, doing business as Inhalatum Chemical Co., Colorado Springs, Colo. Filed Feb. 26, 1946.

INHALATUM

FOR INHALANT FOR THE RELIEF OF NASAL DISORDERS.
Claims use since 1910.

Ser. No. 497,825. SOUTHON LABORATORIES LIMITED, London, England. Filed Mar. 7, 1946.

ESOBAN

FOR OINTMENT FOR USE IN THE TREATMENT OF ECZEMA, DERMATITIS AND SIMILAR SKIN DISEASES OF ALLERGIC ORIGIN.
Claims use since at least the year 1942.

Ser. No. 500,671. LES LABORATOIRES DE LA JEUNESSE S. A. R. L., Paris, France. Filed Apr. 22, 1946.

ETREINTE

FOR SKIN LOTION, BATH SALTS, LEG MAKE-UP, BRILLIANTINE, SUNTAN OIL, NAIL POLISH, NAIL POLISH REMOVER, AND LIPSTICKS.
Claims use since January 1945.

Ser. No. 502,645. LES PARFUMS VERCHERE (PARFUMS JEROME) SOCIETE A RESPONSABILITEE LIMITEE, Paris, France. Filed May 23, 1946.

JEROME

FOR PERFUMES, TOILET WATERS, AND EAU DE COLOGNE.
Claims use since Mar. 20, 1945.

Ser. No. 502,764. THE NEW YORK QUININE AND CHEMICAL WORKS, INC., Brooklyn, N. Y. Filed May 25, 1946.

TOBISAL

FOR FUNGICIDE PREPARATION.
Claims use since May 7, 1946.

Ser. No. 503,165. LION CLEANERS, Englewood, N. J. Filed June 1, 1946.

Paralion

FOR MOTH CRYSTALS.
Claims use since Apr. 3, 1946.

Ser. No. 503,203. M. F. HILES, doing business as Hiles Plating and Art Metal Works Co., Kansas City, Mo. Filed June 3, 1946.

HIL-OX

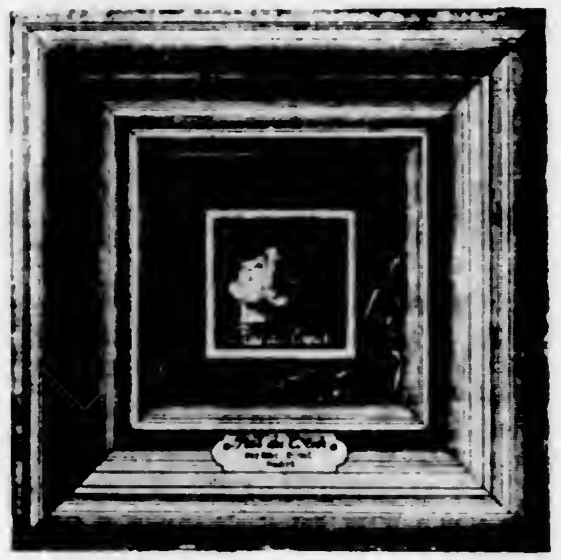
FOR OXIDIZING FLUID FOR METAL WARE HAVING CHEMICAL PROPERTIES.
Claims use since Mar. 7, 1946.

Ser. No. 503,453. WINTHROP A. JOHNS, doing business as Clearust, North Plainfield, N. J. Filed June 7, 1946.

CLEARUST

FOR CHEMICAL FOR REMOVING, AND FOR INHIBITING THE FORMATION OF, RUST AND SCALE.
Claims use since Apr. 1, 1946.

Ser. No. 504,454. EDMOND ROSENS, Paris, France. Filed June 22, 1946.



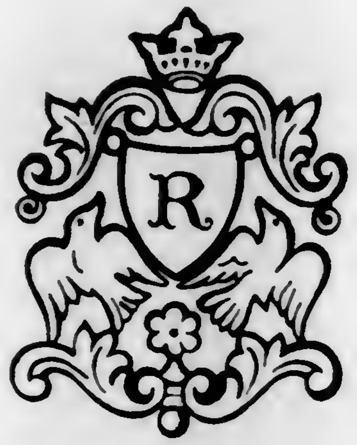
The portrait shown in the drawing is merely fanciful. No claim is made to the name "Pierre Dune" and to the word "Paris," apart from the mark as shown.
FOR PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE PREPARATIONS.
Claims use since Mar. 29, 1946.

Ser. No. 505,974. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed July 20, 1946.

SANTOTINE

FOR CHEMICAL TOXICANTS FOR USE IN COMBATING INSECTS AND FUNGI.
Claims use since July 10, 1946.

Ser. No. 506,843. Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris, France. Filed Aug. 3, 1946.



FOR PERFUMES.
Claims use since March 1943.

Ser. No. 506,868. Haack Laboratories Inc., Portland, Oreg. Filed Aug. 5, 1946.

Ce-De-Flor

The letters "Ce-De" are disclaimed apart from the mark as shown.
FOR PROPHYLACTIC TABLETS TO BE USED IN THE PREVENTION OF DENTAL DECAY, THE SAID TABLETS CONTAINING CALCIUM FLUORIDE COMBINED WITH VITAMIN C AND VITAMIN D.
Claims use since Mar. 9, 1946.

Ser. No. 507,693. The Resinous Products & Chemical Company, Philadelphia, Pa. Filed Aug. 20, 1946.

MONOPLEX

FOR SYNTHETIC ORGANIC CHEMICALS SUITABLE FOR USE AS SOFTENERS, MODIFIERS, ELASTICATORS, AND PLASTICIZERS OF RESINOUS AND/OR RUBBERY MATERIALS.
Claims use since July 17, 1946.

Ser. No. 507,950. William R. Warner & Co., Inc., New York, N. Y. Filed Aug. 23, 1946.

GUIATIDE

FOR MEDICINAL PREPARATION FOR THE RELIEF OF COUGHS DUE TO COLDS.
Claims use since June 5, 1946.

Ser. No. 508,032. The Drug Products Co., Inc., New York and Long Island City, N. Y. Filed Aug. 26, 1946.

NEO-SULFAREA

FOR MEDICINAL OINTMENT PREPARATION FOR SORES, SUPERFICIAL WOUNDS, AND SKIN INFECTION.
Claims use since Jan. 1, 1944.

Ser. No. 508,377. Richard M. Greenstein, doing business as A-Zee-O Products, Folcroft, Pa. Filed Aug. 31, 1946.

A-Zee-O

FOR OINTMENT FOR AIDING THE RELIEF OF IRRITATIONS DUE TO SURFACE BURNS, CUTS, CHAFING, DIAPER RASH, SUNBURN, BEDSORES, ECZEMA, PIMPLES, AND SHAVING, AND FOR A POWDER FOR AIDING THE RELIEF OF IRRITATIONS CAUSED BY ATHLETE'S FOOT.
Claims use since on or about Jan. 6, 1934.

Ser. No. 508,513. Continental Laboratories, Chicago, Ill. Filed Sept. 5, 1946.

Chemiste
SAY "SHEM-EAST"

FOR INSECTICIDES.
Claims use since Nov. 6, 1945.

Ser. No. 508,516. Dodge & Olcott, Inc., New York, N. Y. Filed Sept. 5, 1946.

Dimelone

FOR INSECTIFUGES.
Claims use since May 14, 1946.

Ser. No. 508,625. Sun Oil Company, Philadelphia, Pa. Filed Sept. 6, 1946.

SUNDEX

FOR PLASTICIZER FOR RUBBER.
Claims use since June 11, 1946.

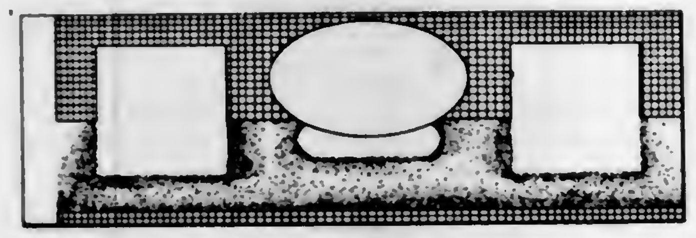
Ser. No. 508,777. Avon Products, Inc., New York, N. Y. Filed Sept. 10, 1946.

POST OFFICE RED

No claim is made to the word "Red" apart from the mark.
FOR LIPSTICK, ROUGE, AND NAIL POLISH.
Claims use since May 10, 1946.

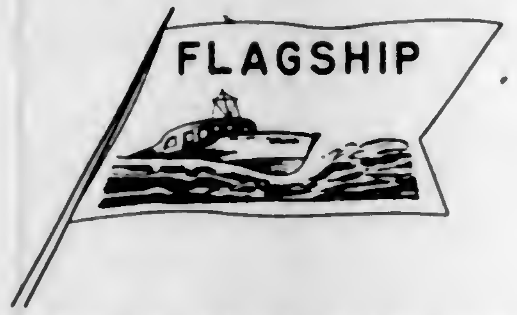
CLASS 16
PAINTS AND PAINTERS' MATERIALS

Ser. No. 469,801. The Wilbur & Williams Paint Corporation, Boston, Mass. Filed Apr. 28, 1944.



The drawing is lined for the color black. The outline of the representation of the label is disclaimed apart from the mark.
FOR READY-MIXED PAINTS, PAINT ENAMELS, AND PAINT WALL FINISH.
Claims use since Oct. 1, 1943.

Ser. No. 486,866. Owens Yacht Company, Baltimore, Md. Filed Aug. 7, 1945.



FOR PAINTS IN READY MIXED FORM, VARNISHES, LACQUERS, AND PAINT ENAMELS.
Claims use since July 22, 1945.

Ser. No. 499,906. Maas & Waldstein Company, Newark, N. J. Filed Apr. 9, 1946.

STYLAC

FOR COATING COMPOSITIONS—NAMELY, READY MIXED PAINTS, PAINT PRIMERS, CLEAR LACQUERS, AND PIGMENTED LACQUERS.
Claims use since Mar. 7, 1946.

Ser. No. 499,952. Instant Products Company, Inc., Buffalo, N. Y. Filed Apr. 10, 1946.

Life O'Wood

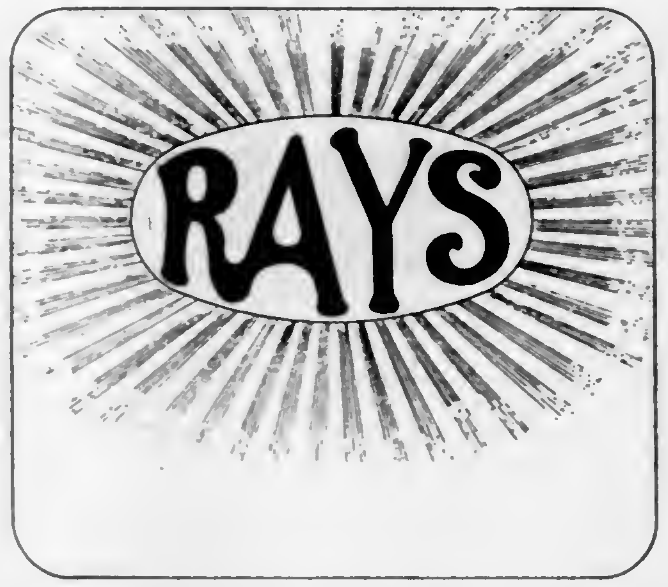
FOR LIQUID POLISHES FOR WOODWORK, PIANOS, FURNITURE, AUTOS, AND POLISHED SURFACES OF ALL KINDS.
Claims use since Jan. 15, 1915.

Ser. No. 500,141. Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Filed Apr. 12, 1946.

SOVAC

FOR WAX POLISHING COMPOSITIONS FOR POLISHING HARDWOOD, COMPOSITION LINOLEUM AND RUBBER FLOOR SURFACES.
Claims use since Mar. 20, 1933.

Ser. No. 500,572. Anne Bishop Ray, Raleigh, N. C. Filed Apr. 19, 1946.



FOR LIQUID FURNITURE POLISH, LIQUID AUTOMOBILE POLISHER AND CLEANER AND FLOOR POLISHING OIL.
Claims use since June 30, 1896.

Ser. No. 503,346. The A. Burdsal Company, Indianapolis, Ind. Filed June 6, 1946.

Homestead

FOR READY-MIXED PAINTS.
Claims use since 1878.

Ser. No. 503,406. H. Kirk White and Company, Oconomowoc, Wis. Filed June 6, 1946.

Meta-KOPER

The word "Koper" is disclaimed apart from the mark.
FOR COPPER PAINTS.
Claims use since Mar. 1, 1946.

Ser. No. 503,510. Benjamin Foster Company, Philadelphia, Pa. Filed June 8, 1946.

RES-TALIC

FOR READY MIXED PAINTS AND PAINT PRIMERS.
Claims use since May 16, 1946.

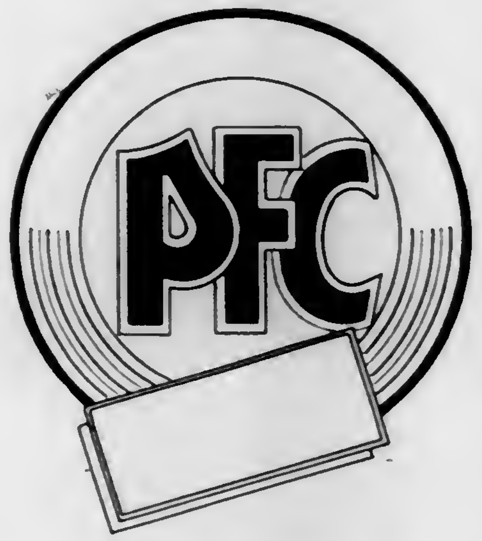
Ser. No. 504,005. SOUTHEASTERN CHEMICAL COMPANY, INC., Atlanta, Ga. Filed June 15, 1946.

SECCOM

FOR CREAM FURNITURE POLISH, AUTOMOBILE POLISH, FLOOR OIL, LIQUID NO-RUBBING WAX AND SELF-POLISHING WAX FOR FLOORS, WOODWORK, AND FURNITURE.

Claims use since May 1, 1946.

Ser. No. 504,029. BROWN-BASSMAN CO., New York, N. Y. Filed June 17, 1946.



FOR EMULSIFIED PLASTIC COATING COMPOSITION FOR PROVIDING A PROTECTIVE LUSTROUS FINISH FOR FLOORS, WOODWORK, RUBBER FLOOR AND WALL COVERINGS, AND COVERINGS OF CORK, TILE, ASPHALT TILE, AND THE LIKE, AS WELL AS VARNISHED, PAINTED OR ENAMELED SURFACES.

Claims use since Apr. 12, 1946.

Ser. No. 504,619. KIRKER CHEMICAL COMPANY, Paterson, N. J. Filed June 26, 1946.

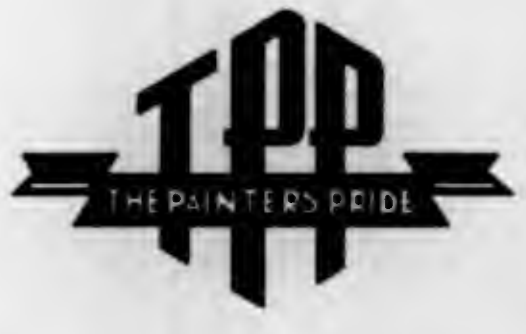
KLak

Applicant disclaims the syllable "Lak" apart from the mark as shown.

FOR LACQUERS, ALKYD ENAMELS AND VARNISHES.

Claims use since May 28, 1946.

Ser. No. 505,232. JAKE C. POWELL, doing business as Pure Paint Producers, Greenville, Tex. Filed July 8, 1946.



The words "The Painters Pride" are disclaimed apart from the mark.

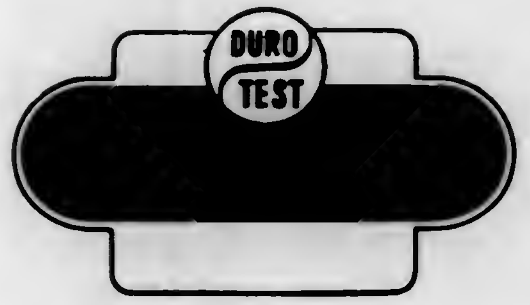
FOR READY MIXED PAINTS.

Claims use since Mar. 1, 1946.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 489,504. DURO-TEST CORPORATION, North Bergen, N. J., and elsewhere. Filed Oct. 6, 1945.

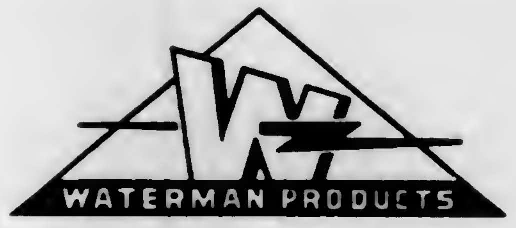


The word "Test" is disclaimed apart from the mark.

FOR ELECTRICAL SPACE HEATING APPARATUS UTILIZING INFRA RED LAMPS.

Claims use since Sept. 20, 1945.

Ser. No. 503,961. WATERMAN PRODUCTS COMPANY, INCORPORATED, Philadelphia, Pa. Filed June 14, 1946.

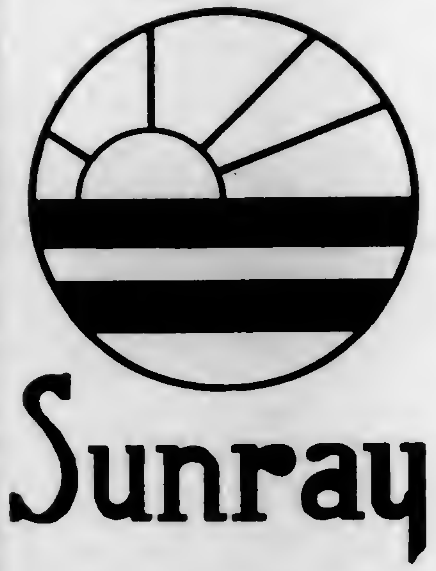


No claim is made to the words "Waterman Products" apart from the mark.

FOR RADIO AND ELECTRONIC SOUND, RECORDING, TRANSCRIBING AND TRANSMITTING APPARATUS, AS FOLLOWS: PHONOGRAPH UNITS, RADIO RECEIVING SETS, TELEVISION RECEIVING SETS, RADIO TRANSMITTERS, TELEVISION TRANSMITTERS, PUBLIC ADDRESS SYSTEMS, ELECTRONIC FACSIMILE APPARATUS AND VACUUM TUBES FOR ELECTRONIC APPLICATION.

Claims use since on or about May 8, 1946.

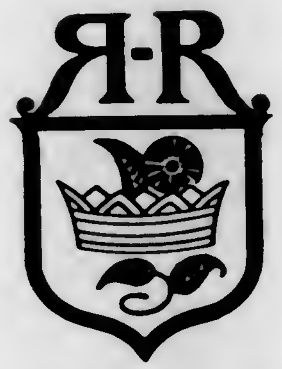
Ser. No. 507,550. SUNRAY ELECTRIC, INC., Warren, Pa. Filed Aug. 16, 1946.



FOR ELECTRIC DRY BATTERIES, ELECTRIC FLUORESCENT LAMPS, ELECTRIC FLUORESCENT STARTERS, ELECTRIC WIRE CONNECTORS, ELECTRICAL SIGNS, ELECTRIC PLUG FUSES, ELECTRIC CARTRIDGE FUSES, AND ELECTRIC ATTACHMENT PLUGS.

Claims use since Mar. 10, 1941.

Ser. No. 510,404. ROBESON ROCHESTER CORPORATION, Rochester, N. Y. Filed Oct. 7, 1946.



FOR VARIOUS ELECTRICAL APPLIANCES—NAMELY, ELECTRIC FOOD MIXERS, TOASTERS, WAFFLE IRONS, KITCHEN GRILLES, ELECTRIC IRONS, SPACE HEATERS, PERCOLATORS, TEA AND COFFEE SETS.

Claims use since Jan. 1, 1918.

Ser. No. 511,719. ERNEST ZANE, doing business as Zane Mfg. Co., Cambridge, Mass. Filed Oct. 29, 1946.

Laurelite

FOR FLUORESCENT LIGHTING FIXTURES.

Claims use since Feb. 1, 1946.

Ser. No. 512,053. DAVID TRAUM COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 5, 1946.

GLIDE-TEX

No claim is made to word "Glide" apart from the mark.

FOR ELECTRIC IRONS.

Claims use since Oct. 18, 1946.

Ser. No. 513,078. VITALIC BATTERY COMPANY, INC., Dallas, Tex. Filed Nov. 22, 1946.

Rubglas

FOR STORAGE BATTERIES.

Claims use since Aug. 29, 1946.

Ser. No. 513,222. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Nov. 25, 1946.

"Radair Antenna"

The word "Antenna" is disclaimed apart from the mark.

FOR RADIO RECEIVERS.

Claims use since Oct. 21, 1945.

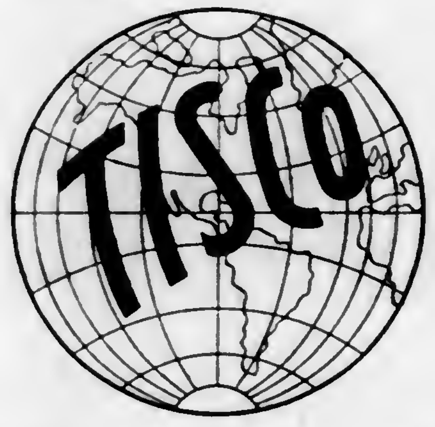
Ser. No. 513,235. BURNDY ENGINEERING COMPANY, INC., New York, N. Y. Filed Nov. 26, 1946.

PENETROX

FOR MIXTURE CONTAINING METAL PARTICLES IN A VISCOUS CARRIER FOR REDUCING CONTACT RESISTANCE BETWEEN METAL CONDUCTORS.

Claims use since Apr. 8, 1946.

Ser. No. 513,348. ANTHONY TISCIONE, Brooklyn, N. Y. Filed Nov. 27, 1946.



FOR ELECTRIC LAMP SOCKETS AND ELECTRICALLY ILLUMINATED ARTIFICIAL CHRISTMAS TREES.

Claims use since January 1946.

Ser. No. 513,373. ANACONDA WIRE AND CABLE COMPANY, New York, N. Y. Filed Nov. 29, 1946.

ANACONDALOY

FOR ELECTRIC WIRES AND CABLES, BOTH INSULATED AND BARE.

Claims use since Feb. 2, 1942.

Ser. No. 513,500. Continental Products Company, New York, N. Y. Filed Nov. 30, 1946.

VITAMITE

FOR ELECTRIC STORAGE BATTERIES.
Claims use since Apr. 17, 1946.

Ser. No. 513,559. Electra Manufacturing Company, Kansas City, Mo. Filed Dec. 2, 1946.

Criterion

FOR VOLTAGE REGULATORS, HEAD LIGHT RELAYS, HORN RELAYS, GENERATOR CUTOUTS, AND DIMMER SWITCHES.
Claims use since 1935.

Ser. No. 513,599. Zenith Radio Corporation, Chicago, Ill. Filed Dec. 2, 1946.

Holiday

FOR RADIO RECEIVING SETS AND PARTS THEREOF.
Claims use since Aug. 8, 1946.

Ser. No. 513,604. Auto-Electric Supply Co., Inc., Tuckerman, Ark. Filed Dec. 3, 1946.

GISMO

FOR REPLACEMENT TERMINALS FOR ELECTRIC AUTOMOBILE STARTERS.
Claims use since Aug. 13, 1946.

Ser. No. 513,832. Metallizing Engineering Co., Inc., Long Island City, New York. Filed Dec. 6, 1946.

FUSEBOND

FOR ELECTRICAL APPARATUS OF THE POWER SOURCE TYPE—NAMELY, TRANSFORMERS AND MOTOR GENERATORS DESIGNED FOR USE IN THE MANUFACTURE AND REBUILDING OF MACHINE ELEMENTS.
Claims use since Dec. 30, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 479,992. William Herbert Schaper, Robbinsdale, Minn. Filed Feb. 19, 1945.

COOTIE

FOR GAMES PLAYED WITH DICE, SPINNERS, AND CORRELATED, NUMBERED PARTS OR PIECES.
Claims use since Jan. 29, 1945.

Ser. No. 493,160. Automatic Toy Company, Staten Island, N. Y. Filed Dec. 13, 1945.

SKI-HOOP

Applicant disclaims the exclusive right to the use of the word "Hoop" apart from the mark "Ski-Hoop."
FOR PLUNGER OPERATED GAME CONSISTING OF A GAME BOARD AND PIECES.
Claims use since Nov. 10, 1945.

Ser. No. 497,822. D. Sebel & Co. Ltd., London, England. Filed Mar. 7, 1946.

MOBO

FOR MECHANICAL TOYS—NAMELY, WHEELED TOYS WHEREON A CHILD MAY SIT AND PROPEL THE SAME BY PUSHING ITS FEET ON THE GROUND.
Claims use since 1944.

Ser. No. 515,397. Gustav Fleissig, doing business as Fly-Sig Toy Company, Long Beach, Calif. Filed Aug. 5, 1946.

LEAPING LENA

The word "Leaping" is disclaimed apart from the mark.
FOR FLOATING FISH-LIKE TOYS.
Claims use since Mar. 28, 1946.

Ser. No. 515,674. North American Products Company, Inc., Wayne, Mich. Filed Jan. 13, 1947.

The* NAPCO *Line

No claim is made to the word "Line" apart from the mark.
FOR FISH BAIT CASTING RODS.
Claims use since July 23, 1945.

Ser. No. 516,866. The Products Development & Manufacturing Co., Cleveland, Ohio. Filed Feb. 3, 1947.

PRODEL

FOR FISHING RODS.
Claims use since Jan. 13, 1947.

Ser. No. 517,217. Tudor Metal Products Corporation, Brooklyn, N. Y. Filed Feb. 8, 1947.

SKY-SCRAPER

FOR TOY BANKS.
Claims use since Jan. 13, 1947.

CLASS 23

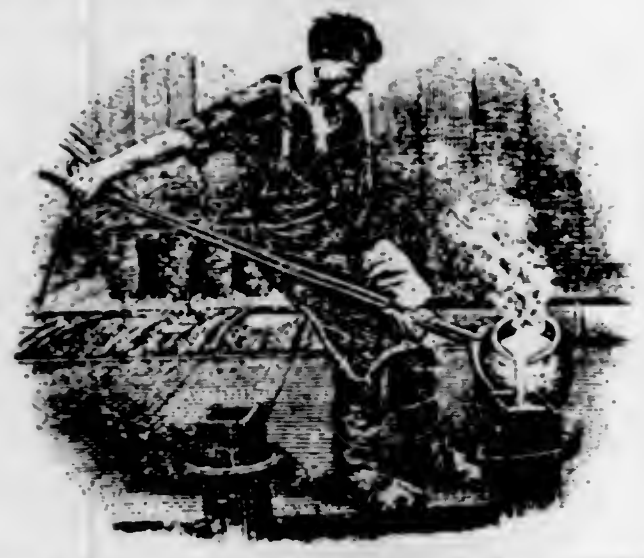
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 480,745. The Duriron Company, Inc., Dayton, Ohio. Filed Mar. 10, 1945.

DURCO

FOR PUMPS FOR HANDLING CORROSIVE LIQUIDS AND PARTS THEREOF, STEAM EJECTORS, FACTORY EQUIPMENT FOR HANDLING CORROSIVE LIQUIDS—NAMELY, AGITATORS, DISTILLING APPARATUS, KJELDAHL DIGESTION APPARATUS, CONCENTRATING TOWERS, AND ACCESSORIES THEREFOR.
Claims use since January 1945.

Ser. No. 500,288. Crucible Steel Company of America, New York, N. Y. Filed Apr. 16, 1946.



FOR HIGH SPEED CUTTING TOOLS, INTERMEDIATE ALLOY STEEL CUTTING TOOLS, DRILL RODS—NAMELY, REX HIGH SPEED TOOL BITS AND REXALLOY CAST CUTTING TOOLS USED ON MACHINE TOOLS, AND SPECIAL DRILL RODS USED FOR VARIOUS METAL-WORKING PARTS—NAMELY, SMALL TAPS, REAMERS, AND PUNCHES REQUIRING TOOL STEEL QUALITY.
Claims use since June 23, 1934.

Ser. No. 509,964. Joseph Stalin, doing business as Joell Mfg. Co., Seattle, Wash. Filed Sept. 28, 1946.

Smoothie

FOR GARDEN RAKES.
Claims use since July 6, 1945.

Ser. No. 510,426. Couplings Incorporated, Baltimore, Md. Filed Oct. 8, 1946.

KNEBAR

FOR FLEXIBLE GEAR SHAFT COUPLINGS.
Claims use since May 15, 1945.

Ser. No. 511,492. Mohawk Marine Motors, Inc., Garfield, N. J. Filed Oct. 25, 1946.

MOHAWK MARINE MOTORS

The words "Marine Motors" are disclaimed apart from the mark.
FOR MARINE MOTORS AND PARTS THEREOF.
Claims use since Feb. 20, 1946.

Ser. No. 511,750. The MB Manufacturing Company, Inc., New Haven, Conn. Filed Oct. 30, 1946.

ISOMODE

FOR ENGINE MOUNTS.
Claims use since Nov. 1, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 514,667. Pierre Nicolet, Tremelan-Dessus, Switzerland. Filed Dec. 21, 1946.

REPCO

FOR WATCHES AND PARTS OF WATCHES.
Claims use since Aug. 26, 1944.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 513,883. Grand Products Co., Chicago, Ill. Filed Dec. 7, 1946.

GAD ABOUT

FOR PERFUME DISPENSERS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME.

Claims use since Feb. 10, 1943.

Ser. No. 513,884. Grand Products Co., Chicago, Ill. Filed Dec. 7, 1946.

TAPETTE

FOR PERFUME DISPENSERS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME.

Claims use since Feb. 10, 1943.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 500,046. Mildred H. Andrews, doing business as Pixie Potters, Los Angeles, Calif. Filed Apr. 12, 1946.

PIXIE

FOR CERAMIC FIGURINES.

Claims use since September 1939.

CLASS 32

FURNITURE AND UPHOLSTERY

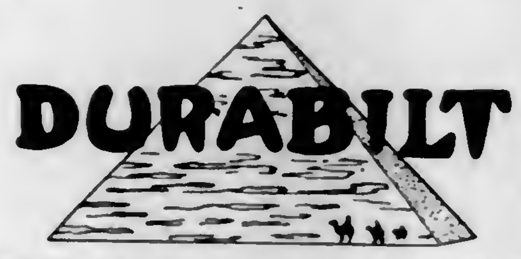
Ser. No. 476,834. Durabilt Mfg. Co., Aurora, Ill. Filed Nov. 24, 1944.

DURABILT

FOR STEEL LOCKERS; STORAGE, WARDROBE, AND FILING CABINETS; AND STEEL SHELVING.

Claims use since June 20, 1921.

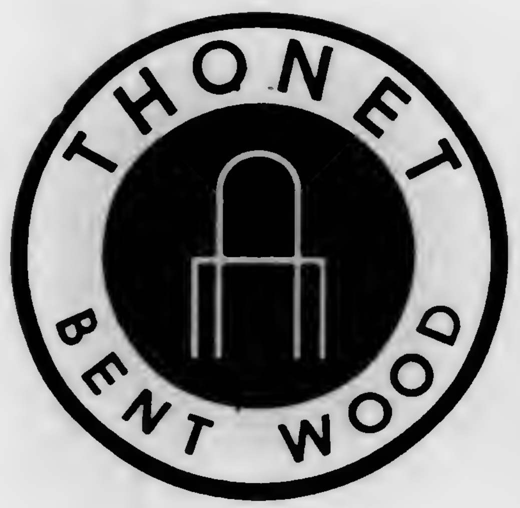
Ser. No. 476,835. Durabilt Mfg. Co., Aurora, Ill. Filed Nov. 24, 1944.



FOR STEEL LOCKERS; STORAGE, WARDROBE, AND FILING CABINETS; AND STEEL SHELVING.

Claims use since June 20, 1921.

Ser. No. 503,773. Thonet Brothers, Inc., New York, N. Y. Filed June 12, 1946. Under section 5b of the act of 1905 as amended in 1920 as to "Thonet."



The words "Bent Wood" and the representation of a chair are disclaimed apart from the mark.

FOR BARBERS' ARMCHAIRS, BEDROOM SUITES, BEDSTEADS, CAMP STOOLS, CARD TABLES, CHAIRS AND TABLES FOR GENERAL USE, CLOTHES STANDS, EASELS, ETAGERES, FLOWER TABLES AND STANDS, FOLDING ARMCHAIRS, FOLDING CHAIRS, FOLDING SCREENS IN THE NATURE OF DRESSING SCREENS AND ROOM PARTITIONS, FOOTSTOOLS, FRAMES FOR LOOKING GLASSES, HAIRDRESSERS' ARMCHAIRS, HAIRDRESSERS' REVOLVING CHAIRS, HANGING CLOTHES RACKS, HAT PEGS, HAT RAILS FOR FURNITURE PURPOSES, NEWSPAPER RACKS, LADIES' TOILET STANDS, NIGHT ARMCHAIRS, NIGHT TABLES, NURSING CHAIRS, OCCASIONAL TABLES, OFFICE CHAIRS, PEDESTALS FOR FURNITURE PURPOSES, PRIE-DIEUS, RECLINING COUCHES, ROCKING CHAIRS, SETTEES, SOFAS, SEWING TABLES, SHOP CHAIRS, STANDS FOR MARBLE TABLES, STOOLS, TOWEL RAILS OF WOOD, TOWEL HORSES, TRUNK STANDS, TRYING-ON STOOLS FOR SHOEMAKERS, UMBRELLA STANDS, VENEER SEATS, WARDROBES, WASHING STANDS, AND WRITING DESKS.

Claims use since February 1926; and since July 1881 as to the word "Thonet."

Ser. No. 509,958. Sealy, Incorporated, Chicago, Ill. Filed Sept. 28, 1946. Under the act of February 20, 1905, as amended June 10, 1938.

Cradle Rest

The word "Cradle" is disclaimed apart from the mark.

FOR MATTRESSES AND BOX SPRINGS.

Claims use since Jan. 1, 1945.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 495,246. Mary Gray Lewis, Philadelphia, Pa. Filed Jan. 23, 1946.

Mary Gray Lewis

The mark is a facsimile of applicant's signature.

FOR LAMP SHADES.

Claims use since Dec. 13, 1945.

Ser. No. 516,397. Cleveland Steel Products Corporation, Cleveland, Ohio. Filed Jan. 27, 1947.

Toridheet

FOR OIL-BURNING HEATERS FOR DOMESTIC AND INDUSTRIAL USE.

Claims use since May 15, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 508,663. Harold L. Martin, doing business as Styl-O-Matic Co., Culver City, Calif. Filed Sept. 7, 1946.

FLEETLINE

FOR FOUNTAIN PENS.

Claims use since June 5, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 503,866. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Filed June 14, 1946.

ORTHO
SCIENTIFIC PEST CONTROL

Applicant disclaims the words "Scientific Pest Control" apart from the mark.

FOR PERIODICAL PUBLICATIONS.

Claims use since November 1917 as to "Ortho"; and since March 1946 as to the mark as shown.

Ser. No. 506,336. National Rifle Association of America, Washington, D. C. Filed July 26, 1946.

NRA

FOR PAMPHLETS TO BE USED IN CONNECTION WITH THE ACTIVITIES OF THE ORGANIZATION.

Claims use since January 1924.

Ser. No. 506,913. B. and B. Publishing Company, San Francisco, Calif. Filed Aug. 6, 1946.

Veteranette

FOR MONTHLY PERIODICAL.

Claims use since July 15, 1946.

CLASS 39

CLOTHING

Ser. No. 497,940. G. R. Kinney Co. Inc., New York, N. Y. Filed Mar. 9, 1946.

"WORK-CHIEF"

Applicant disclaims sole use of the word "Work" except in conjunction with the mark as shown.

FOR MEN'S WORK SHOES.

Claims use since Feb. 20, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 496,705. Hemisphere Fabrics Corporation, New York, N. Y. Filed Feb. 16, 1946.

SUMMERSET

FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.

Claims use since Jan. 2, 1946.

Ser. No. 499,077. Ross & Roberts, Inc., West Haven, Conn. Filed Mar. 27, 1946.

AMERIPLAST

FOR TRANSPARENT OR TRANSLUCENT VINYL PLASTIC FILM SOLD IN SHEET FORM FOR MAKING UP APRONS, SHOWER CURTAINS, BABY PANTS, TABLE COVERS, AND VARIOUS OTHER ITEMS.

Claims use since Mar. 25, 1946.

Ser. No. 504,817. Nathan Zook, doing business as General Looms Co., New York, N. Y. Filed June 28, 1946.

GENERAL LOOMS

The word "Looms" is disclaimed.

FOR WINDOW CURTAINS, DRAPERIES, BEDSPREADS, QUILT COVERS, MATTRESS COVERS, TABLE CLOTHS, RUGS, CARPETS AND FABRICS IN THE PIECE FOR MAKING SAID GOODS CONSISTING OF COTTON, RAYON, SILK, LINEN, WOOL, NYLON, AND/OR GLASS FIBERS AND MIXTURES THEREOF.

Claims use since Apr. 22, 1946.

Ser. No. 507,389. Foreman Fabrics Corp., New York, N. Y. Filed Aug. 14, 1946.

country manner

FOR WOVEN TEXTILE FABRICS, OF RAYON YARN, IN THE PIECE.

Claims use since June 1946.

Ser. No. 507,390. Foreman Fabrics Corp., New York, N. Y. Filed Aug. 14, 1946.

dagamo

FOR WOVEN TEXTILE FABRICS, OF RAYON YARN, IN THE PIECE.

Claims use since May 1946.

Ser. No. 507,689. Frank Phillips, doing business as Frank Phillips Company, New York, N. Y. Filed Aug. 20, 1946.

Wul Ja

No claim is made to the exclusive use of the word "Wul," except in the setting and relation in which it appears.

FOR WORSTED KNITTED FABRICS IN THE PIECE AND BY THE YARD.

Claims use since Apr. 30, 1946.

Ser. No. 510,062. Botany Worsted Mills, Passaic, N. J. Filed Oct. 2, 1946.

Reedston

FOR WOOLEN PIECE GOODS.

Claims use since Sept. 5, 1946.

CLASS 43

THREAD AND YARN

Ser. No. 505,116. Markle Brothers Limited, Toronto, Ontario, Canada. Filed July 5, 1946.

Bonnie Brae

FOR HAND KNITTING YARNS.

Claims use since May 1, 1940.

Ser. No. 507,792. American Enka Corporation, Enka, N. C. Filed Aug. 22, 1946.

Enka
AMERICAN

The word "American" is disclaimed apart from the mark.

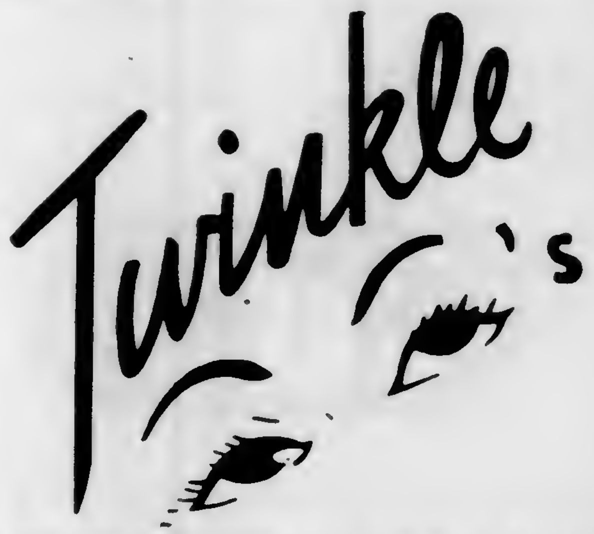
FOR RAYON YARNS.

Claims use since Oct. 1, 1935.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 503,899. Suzanne Golding, New York, N. Y. Filed June 14, 1946.



FOR WRINKLE INHIBITORS, BEING A FACE MASK FORMED OF RUBBER-LIKE PLASTIC.

Claims use since May 25, 1946.

Ser. No. 513,247. Hospital Accessories Company, Brooklyn, N. Y. Filed Nov. 26, 1946.

Hospac

FOR HYPODERMIC NEEDLES, HYPODERMIC SYRINGES, SURGICAL BLADES, CATHETERS, RECTAL TUBES, HOSPITAL THERMOMETER RACKS, AND SURGICAL TUBULAR DRAINS.

Claims use since Nov. 12, 1940.

Ser. No. 513,868. American Druggists Syndicate, Inc., Long Island City, N. Y. Filed Dec. 7, 1946.

CAPILLATOR

FOR APPLICATORS FOR APPLYING THERAPEUTIC SOLUTIONS.

Claims use since Dec. 5, 1946.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 503,217. Pillsbury Mills, Inc., Minneapolis, Minn. Filed June 3, 1946.

NORTHERN KING

Applicant is the owner of trade-mark registrations Nos. 112,707, issued Sept. 19, 1916, renewed; 203,968, issued Sept. 29, 1925, renewed; 360,488, issued Sept. 20, 1938. Color is not a feature of the trade-mark.

FOR WHEAT FLOUR.

Claims use since on or about Nov. 20, 1915.

Ser. No. 506,006. California Canners Associates, Los Angeles, Calif. Filed July 22, 1946.

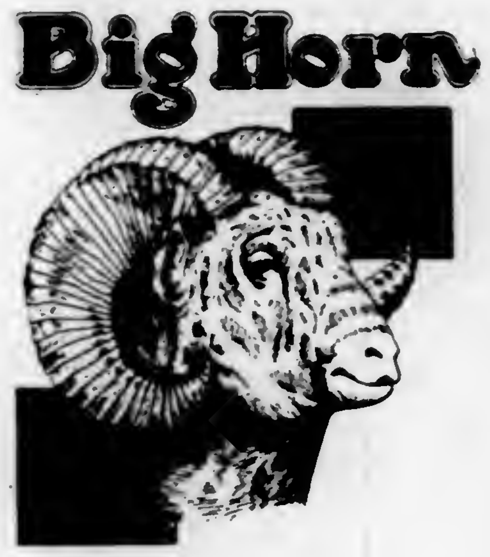
GLASS O'GOLD

No claim is made to the word "Glass" apart from the mark as shown.

FOR CANNED FRUIT JUICES FOR FOOD PURPOSES—NAMELY, ORANGE JUICE AND BLENDED ORANGE, APRICOT, AND LEMON JUICE.

Claims use since Oct. 8, 1945, for canned orange juice; and since July 2, 1946, for blended orange, apricot, and lemon juice.

Ser. No. 506,468. Nebraska Consolidated Mills Co., Omaha, Nebr. Filed July 29, 1946.



FOR WHEAT FLOUR.

Claims use since Sept. 10, 1925.

Ser. No. 509,944. Lloyd A. Lamos, doing business as Mid-West Food Products Company, Grand Rapids, Mich. Filed Sept. 28, 1946.

Lorlac

FOR SKIM-MILK CHOCOLATE BASE PRODUCT MADE FROM THE FOLLOWING INGREDIENTS: SUCROSE, MILK SOLIDS (NOT FAT), CHOCOLATE LIQUOR AND SKIM-MILK CARAMEL BASE FORMULA MADE FROM THE FOLLOWING INGREDIENTS: SUCROSE, MILK SOLIDS (NOT FAT), HYDROGENATED VEGETABLE OIL.

Claims use since Aug. 12, 1946.

Ser. No. 510,848. P. F. Likins, doing business as P. F. Likins Co., Chula Vista, Calif. Filed Oct. 14, 1946.

PFL

FOR FRESH VEGETABLES.

Claims use since Jan. 23, 1946.

Ser. No. 511,135. B & W COFFEE COMPANY, Mobile, Ala. Filed Oct. 19, 1946.

B and W

FOR COFFEE.
Claims use since Oct. 5, 1946.

CLASS 47
WINES

Ser. No. 508,531. INGLENOOK VINEYARD Co., Rutherford, Calif., assignor to Buena Vista Vineyards, Sonoma, Calif., a copartnership composed of Frank H. Bartholomew and Antonia P. Bartholomew. Filed Sept. 5, 1946.

Convivial

FOR WINES.
Claims use since 1885.

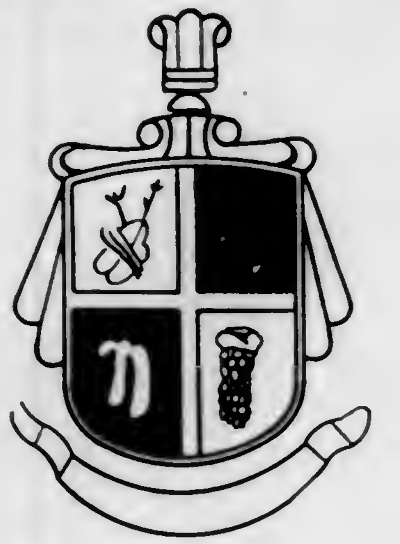
Ser. No. 508,532. INGLENOOK VINEYARD Co., Rutherford, Calif., assignor to Buena Vista Vineyards, Sonoma, Calif., a copartnership composed of Frank H. Bartholomew and Antonia P. Bartholomew. Filed Sept. 5, 1946. Under 10-year proviso.

HARASZTHY

FOR WINES.
Claims use since 1857.

CLASS 49
DISTILLED ALCOHOLIC LIQUORS

Ser. No. 468,525. MARCO IMPORTING Co., Chicago, Ill. Filed Mar. 22, 1944.



FOR WHISKEYS.
Claims use since December 1933.

CLASS 50
MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 500,502. H. WENZEL TENT & DUCK Co., St. Louis, Mo., assignor to H. Wenzel Tent & Duck Co., St. Louis, Mo., a corporation of Missouri. Filed Apr. 18, 1946.

RHINO

FOR TARPAULINS.
Claims use since Apr. 1, 1946.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF FEBRUARY 20, 1905
JUNE 24, 1947

430,706. ALMOND PASTE, PIE FILLINGS, FOOD FLAVORING EXTRACTS, AND FOOD FLAVORING EMULSIONS FOR BAKERS' USE. CHAPMAN & SMITH COMPANY, Chicago, Ill.
Filed August 1, 1940. Serial No. 434,553. PUBLISHED MAY 21, 1946. Class 46.

430,707. WOMEN'S HOSIERY. STYLECRAFT SALES CORP., New York, N. Y.
Filed February 6, 1943. Serial No. 458,375. PUBLISHED JULY 11, 1944. Class 39.

430,708. ROCKWOOL. NATIONAL GYPSUM COMPANY, Buffalo, N. Y.
Filed April 17, 1943. Serial No. 459,960. PUBLISHED APRIL 18, 1944. Class 12.

430,709. ROCKWOOL. NATIONAL GYPSUM COMPANY, Buffalo, N. Y.
Filed April 17, 1943. Serial No. 459,961. PUBLISHED APRIL 18, 1944. Class 12.

430,710. ROCKWOOL. NATIONAL GYPSUM COMPANY, Buffalo, N. Y.
Filed April 17, 1943. Serial No. 459,962. PUBLISHED APRIL 18, 1944. Class 12.

430,711. QUESTION AND ANSWER GAME. QUIZTICK MANUFACTURING Co., St. Louis, Mo.
Filed December 3, 1943. Serial No. 465,486. PUBLISHED APRIL 8, 1947. Class 22.

430,712. ANGLE AND STRAIGHT THERMOMETERS, GAUGES—NAMELY, ALTITUDE AND COMPOUND, STEAM, WATER, AND PRESSURE. PLUMBING PRODUCTS Co., Boston, Mass.
Filed December 10, 1943. Serial No. 465,691. PUBLISHED APRIL 8, 1947. Class 26.

430,713. EGGS. BEATRICE CREAMERY COMPANY, Chicago, Ill., now by change of name to Beatrice Foods Co., Dover, Del.
Filed November 30, 1944. Serial No. 477,051. PUBLISHED APRIL 8, 1947. Class 46.

430,714. BATH MITS. MORRIS WALHIMER, New Haven, Conn., and New York, N. Y.
Filed December 30, 1944. Serial No. 478,098. PUBLISHED APRIL 1, 1947. Class 29.

430,715. APPARATUS AND EQUIPMENT AND PARTS THEREOF FOR THE CONTROL OF TEMPERATURE, PRESSURE, RATE OF FLOW AND LIQUID LEVEL—NAMELY, ELECTRIC TANK LEVEL INDICATORS, AIR LIQUID LEVEL INDICATORS, MECHANICAL LIQUID LEVEL INDICATORS, RATE OF FLOW METERS AND PRESSURE MEASURING INSTRUMENTS. HAMMEL-DAHL COMPANY, Providence, R. I.
Filed January 24, 1945. Serial No. 478,953. PUBLISHED APRIL 8, 1947. Class 26.

430,716. FRESH SWEET POTATOES. SEBASTIANO ROMEO, Swedesboro, N. J.
Filed March 16, 1945. Serial No. 480,999. PUBLISHED APRIL 8, 1947. Class 46.

430,717. PHONOGRAPH RECORDS AND PHONOGRAPH RECORD BLANKS. JACK H. BERGMAN, New York, N. Y.
Filed May 5, 1945. Serial No. 483,016. PUBLISHED SEPTEMBER 11, 1945. Class 36.

430,718. GAS CONSUMING SPACE HEATERS. DAY & NIGHT MANUFACTURING COMPANY, Monrovia, Calif.
Filed May 15, 1945. Serial No. 483,364. PUBLISHED APRIL 1, 1947. Class 34.

430,719. HAND SOAP, POLISH (HAVING WATER SOFTENING PROPERTIES) FOR REFINISHING AND CLEANSING METAL, WOOD AND OTHER SURFACES, ETC. TROJAN PRODUCTS & MFG. Co., Chicago, Ill., assignor to The Diversey Corporation, Chicago, Ill., a corporation of Illinois.
Filed May 23, 1945. Serial No. 483,703. PUBLISHED OCTOBER 29, 1946. Class 4.

430,720. ELECTRIC TELECOMMUNICATION APPARATUS—NAMELY, RADIO AND TELEVISION TRANSMITTING AND RECEIVING APPARATUS, AND PARTS THEREOF AND ACCESSORIES; ELECTRIC AMPLIFYING AND SOUND REPRODUCING APPARATUS AND ACCESSORIES, ETC. PYE LIMITED, Cambridge, England.
Filed June 1, 1945. Serial No. 484,062. PUBLISHED APRIL 8, 1947. Class 21.

430,721. SOAP. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y.
Filed June 8, 1945. Serial No. 484,306. PUBLISHED APRIL 1, 1947. Class 4.

430,722. CABINET LOCKS—NAMELY, WARDROBE, DOOR AND CUPBOARD LOCKS; NIGHT LATCHES, SUITCASE AND TRUNK LOCKS, COMBINATION LOCKS, PADLOCKS, DESK LOCKS, CAR DOOR LOCKS, IGNITION LOCKS AND KEYS FOR ALL SUCH LOCKS; SUITCASE CATCHES AND CHECKS IN THE NATURE OF KEYS FOR LOCKERS. THE EAGLE LOCK COMPANY, Terryville, Conn., and Chicago, Ill.
Filed July 10, 1945. Serial No. 485,632. PUBLISHED MARCH 18, 1947. Class 25.

430,723. GOLF BALLS. THE WORTHINGTON BALL COMPANY, Elyria, Ohio.
Filed August 21, 1945. Serial No. 487,403. PUBLISHED FEBRUARY 26, 1946. Class 22.

430,724. ART PRINTS AND PUBLICATIONS IN BOOK AND CALENDAR FORM. BROWN & BIGELOW, St. Paul, Minn.
Filed August 30, 1945. Serial No. 487,763. PUBLISHED MARCH 25, 1947. Class 38.

430,725. DOLLS, TOYS—NAMELY, AUTOMOBILES, BICYCLES, DOLL CARRIAGES, SCOOTERS, VELOCIPEDES, WAGONS, BLOCKS, DOLL HOUSES, BLACKBOARDS, CONSTRUCTION TOYS AND PIANOS, ETC. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y.
Filed September 13, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 488,424. PUBLISHED APRIL 8, 1947. Class 22.

430,726. DEVICES FOR THE LAUNDRY, TO-WIT: SHIRT FINISHING AND FOLDING TABLES, SHIRT FOLDING TABLES, ETC. CAESAR A. CALDER, doing business as Time Savers, Montclair, N. J.
Filed October 11, 1945. Serial No. 489,791. PUBLISHED MARCH 4, 1947. Class 24.

430,727. GAS WATER HEATERS. E. L. MUSTEE & SONS, Cleveland, Ohio.
Filed October 25, 1945. Serial No. 490,503. PUBLISHED MARCH 11, 1947. Class 34.

430,728. WAISTBAND OVERALLS. THE H. D. LEE COMPANY, INCORPORATED, Kansas City, Mo.
Filed November 7, 1945. Serial No. 491,205. PUBLISHED MARCH 11, 1947. Class 39.

430,729. BIB OVERALLS, WAISTBAND OVERALLS, OVERALL JACKETS, WORK AND UTILITY TROUSERS, WORK SHIRTS AND UTILITY SHIRTS, ETC. The H. D. Lee Company, Incorporated, Kansas City, Mo.
Filed November 7, 1945. Serial No. 491,206. PUBLISHED MARCH 11, 1947. Class 39.

430,730. TOY NATIVE BEARS. J. Jackson & Son, Brisbane, Queensland, Australia.
Filed November 8, 1945. Serial No. 491,265. PUBLISHED APRIL 8, 1947. Class 22.

430,731. SOAPLESS CLEANING COMPOUNDS FOR GENERAL HOUSEHOLD AND INDUSTRIAL USE. American Industrial Chemical Co., Inc., Indianapolis, Ind.
Filed November 9, 1945. Serial No. 491,306. PUBLISHED APRIL 1, 1947. Class 4.

430,732. STORAGE BATTERIES. Sebastian W. Knoblock, Los Angeles, Calif.
Filed November 14, 1945. Serial No. 491,577. PUBLISHED APRIL 8, 1947. Class 21.

430,733. PYROPHORIC CIGARETTE LIGHTERS. Spring Tool and Machine Co., New York, N. Y.
Filed December 4, 1945. Serial No. 492,665. PUBLISHED MAY 14, 1946. Class 34.

430,734. MAGAZINE PUBLISHED PERIODICALLY. A. Neil Sawyer, doing business as A. Neil Sawyer Co., New York, N. Y., assignor to Sweet Sixteen, Inc., New York, N. Y., a corporation of New York.
Filed December 5, 1945. Serial No. 492,741. PUBLISHED MARCH 4, 1947. Class 38.

430,735. CHILDREN'S SEWING AND STUFFING KITS FOR MAKING STUFFED TOYS. Martin Rogen, New York, N. Y.
Filed December 8, 1945. Serial No. 492,956. PUBLISHED APRIL 8, 1947. Class 22.

430,736. DEHYDRATED APPLES IN PIECES. Vacu-Dry Company, Oakland, Calif.
Filed December 8, 1945. Serial No. 492,974. PUBLISHED APRIL 8, 1947. Class 46.

430,737. PERIODICAL PUBLICATIONS. American Bitumuls Company, Wilmington, Del., and San Francisco, Calif.
Filed December 11, 1945. Serial No. 493,035. PUBLISHED MARCH 11, 1947. Class 38.

430,738. COVERS FOR STEAM PRESSES FOR PRESSING GARMENTS. G. S. Robins & Company, St. Louis, Mo.
Filed December 12, 1945. Serial No. 493,145. PUBLISHED MARCH 18, 1947. Class 24.

430,739. FIREBRICK; INSULATING FIREBRICK; AND REFRACTORY MATERIALS—NAMELY, MORTARS, CASTABLES, CALCINES, AND PLASTICS. The Babcock & Wilcox Company, New York, N. Y.
Filed December 18, 1945. Serial No. 493,474. PUBLISHED MARCH 25, 1947. Class 12.

430,740. COMBINATION STORM AND SCREEN SASH. Wonder Window Co., Fitchburg, Mass.
Filed December 22, 1945. Serial No. 493,865. PUBLISHED APRIL 1, 1947. Class 12.

430,741. MEASURING TOOLS—NAMELY, SNAP GAUGES, THREAD GAUGES AND MICROMETERS, AND MEASURING INSTRUMENTS—NAMELY, INDICATOR GAUGES FOR EXTERNAL MEASUREMENTS, ETC. Aktiebolaget C. E. Johansson, Eskilstuna, Sweden.
Filed December 26, 1945. Serial No. 493,877. PUBLISHED APRIL 8, 1947. Class 26.

430,742. FRESH ORANGES, FRESH GRAPEFRUIT AND FRESH TANGERINES. Roscoe Skipper, Inc., Avon Park, Fla.
Filed January 8, 1946. Serial No. 494,464. PUBLISHED SEPTEMBER 10, 1946. Class 46.

430,743. DOLLS. Ned Lincoln, New York, N. Y.
Filed January 12, 1946. Serial No. 494,688. PUBLISHED APRIL 8, 1947. Class 22.

430,744. FISHING REELS. J. W. Young & Sons, Redditch, England.
Filed January 12, 1946. Serial No. 494,732. PUBLISHED APRIL 8, 1947. Class 22.

430,745. FISHING REELS. J. W. Young & Sons, Redditch, England.
Filed January 12, 1946. Serial No. 494,733. PUBLISHED APRIL 8, 1947. Class 22.

430,746. X-RAY EQUIPMENT—NAMELY, VIEW BOXES, WHICH ARE COMPONENTS OF FLUOROSCOPES FOR DIAGNOSIS OF HUMAN AND ANIMAL AILMENTS. Primex Equipment Company Chicago, Ill.
Filed January 16, 1946. Serial No. 494,864. PUBLISHED APRIL 8, 1947. Class 44.

430,747. NICKEL ALLOYS AND UNFINISHED ARTICLES MADE THEREFROM. The Duriron Company, Inc., Dayton, Ohio.
Filed February 8, 1946. Serial No. 496,215. PUBLISHED APRIL 8, 1947. Class 14.

430,748. ELECTRIC ILLUMINATOR FOR TRANSPARENCIES. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed February 18, 1946. Serial No. 496,769. PUBLISHED APRIL 8, 1947. Class 21.

430,749. VENTILATING APPARATUS OF THE AIRSCREW OR PROPELLER FAN TYPE ADAPTED FOR INSTALLATION IN WALLS OR WINDOWS. Vent-Axia Limited, London, England.
Filed February 18, 1946. Serial No. 496,879. PUBLISHED MARCH 18, 1947. Class 34.

430,750. WATCHES, WATCH PARTS, WATCH CHAINS AND WATCH BRACELETS SOLD AS COMPLETE ARTICLES WITH WATCHES. Siduna A/S, Copenhagen, Denmark.
Filed February 19, 1946. Serial No. 496,927. PUBLISHED APRIL 1, 1947. Class 27.

430,751. WINDOW CURTAINS, DRAPES, AND FABRIC UPHOLSTERY COVERINGS IN THE PIECE. L. Bamberger & Co., Newark, N. J.
Filed February 28, 1946. Serial No. 497,363. PUBLISHED APRIL 8, 1947. Class 42.

430,752. PRINTED BOOKS. Business News Publishing Company, Detroit, Mich.
Filed March 1, 1946. Serial No. 497,449. PUBLISHED APRIL 1, 1947. Class 38.

430,753. RADIO RECEIVING SETS. Northeastern Engineering, Inc., Manchester, N. H.
Filed March 1, 1946. Serial No. 497,490. PUBLISHED APRIL 8, 1947. Class 21.

430,754. PHOTOGRAPHIC PRINTS. American Pictorial Service, Inc., Newark, N. J.
Filed March 7, 1946. Serial No. 497,766. PUBLISHED MARCH 18, 1947. Class 38.

430,755. TOY LUMINOUS ANIMALS. Dorzar Toy Studios Inc., New York, N. Y.
Filed March 15, 1946. Serial No. 498,275. PUBLISHED APRIL 8, 1947. Class 22.

430,756. MANICURE IMPLEMENT SETS, MANICURE SCISSORS, NAIL FILES, CUTICLE PUSHERS, CUTICLE KNIVES, TWEEZERS, AND NAIL BUFFERS. Associated Products, Inc., Chicago, Ill.
Filed March 19, 1946. Serial No. 498,483. PUBLISHED APRIL 8, 1947. Class 44.

430,757. TOY WAGONS. Leon Maybrown, Woodmere, N. Y.
Filed March 20, 1946. Serial No. 498,644. PUBLISHED APRIL 8, 1947. Class 22.

430,758. GREETING CARDS. Morgan Pottruff, doing business as Morgan Pottruff Company, Brantford, Ontario, Canada.
Filed March 21, 1946. Serial No. 498,712. PUBLISHED MARCH 18, 1947. Class 38.

430,759. CHESS BOARDS AND CHESS MEN. E. S. Lowe Company, Inc., New York, N. Y.
Filed March 22, 1946. Serial No. 498,784. PUBLISHED APRIL 8, 1947. Class 22.

430,760. SPECIALLY DESIGNED APPLIANCES TO SERVE AS MODELS, FOR PRODUCTION, FULL SIZE OR OTHERWISE, STILL OR OPERATIONAL, SERVING IN THE NATURE OF UNIT PATTERNS TO GUIDE IN THE TURN-OUT OF COMMERCIAL ARTICLES. The Visioneering Co. Inc., Cleveland, Ohio.
Filed March 26, 1946. Serial No. 499,026. PUBLISHED MARCH 18, 1947. Class 26.

430,761. GAS RANGE BURNER VALVE CONTROLS OPERATED BY THE COVER OF THE RANGE ON CLOSING THE SAME TO RELEASABLY LOCK THE VALVES CLOSED. Milton Applebaum, doing business as Safecover Company, New York, N. Y.
Filed March 29, 1946. Serial No. 499,189. PUBLISHED MARCH 11, 1947. Class 34.

430,762. VAGINAL SYRINGES. Diehl Research Laboratories, Ltd., Los Angeles, Calif.
Filed March 30, 1946. Serial No. 499,324. PUBLISHED APRIL 8, 1947. Class 44.

430,763. CARBON PAPERS AND TYPEWRITER RIBBONS. Carfa A. G. Fabrik Chemisch-Technischer Bureaumaterialien, Bern, Switzerland.
Filed April 12, 1946. Serial No. 500,143. PUBLISHED APRIL 8, 1947. Class 11.

430,764. PRINTING INK VEHICLE CONSISTING OF LINSEED OIL WITH CHEMICAL ADDITIVES FOR USE AS AN OIL BASE IN THE PRODUCTION OF PRINTING INKS. Frost Paint & Oil Corporation, Minneapolis, Minn.
Filed April 13, 1946. Serial No. 500,169. PUBLISHED APRIL 1, 1947. Class 11.

430,765. DETERGENT SOAPS. Organic Chemical Co., Providence, R. I.
Filed April 16, 1946. Serial No. 500,319. PUBLISHED APRIL 1, 1947. Class 4.

430,766. POULTRY, CATTLE, AND HOG FEEDS COMPOSED OF EGG MASH. Farmers Feed & Produce, Council Bluffs, Iowa.
Filed April 19, 1946. Serial No. 500,533. PUBLISHED APRIL 8, 1947. Class 46.

430,767. GAS BURNERS FOR SPACE HEATERS. S & S Heating Company, Detroit, Mich.
Filed April 24, 1946. Serial No. 500,830. PUBLISHED MARCH 25, 1947. Class 34.

430,768. NATURAL FLORIDA PHOSPHATE FOR FERTILIZING PURPOSES. American Cyanamid Company, New York, N. Y.
Filed May 1, 1946. Serial No. 501,225. PUBLISHED MARCH 25, 1947. Class 10.

430,769. FRESH VEGETABLES. D. E. Myers, doing business as Earle Myers Co., Oceano, Calif.
Filed May 1, 1946. Serial No. 501,262. PUBLISHED APRIL 1, 1947. Class 46.

430,770. CLOCKS, WATCHES, AND PARTS THEREOF. The New Haven Clock Company, New Haven, Conn., assignor to New Haven Clock and Watch Company, New Haven, Conn., a corporation of Connecticut.
Filed May 1, 1946. Serial No. 501,268. PUBLISHED MARCH 18, 1947. Class 27.

430,771. CLOCKS, WATCHES, AND PARTS THEREOF. The New Haven Clock Company, New Haven, Conn., assignor to New Haven Clock and Watch Company, New Haven, Conn., a corporation of Connecticut.
Filed May 1, 1946. Serial No. 501,269. PUBLISHED MARCH 25, 1947. Class 27.

430,772. ELECTRICAL VEHICULAR AND PEDESTRIAN STREET TRAFFIC SIGNAL LIGHTS AND CONTROLLERS; PEDESTALS, BRACKETS AND MOUNTING FRAMES THEREFOR. Southern Switch and Signal Company, Inc., Shreveport, La.
Filed May 6, 1946. Serial No. 501,543. PUBLISHED APRIL 8, 1947. Class 21.

430,773. SUDSING CLEANER, CLEANSER, AND DETERGENT. Help, Inc., Chicago, Ill.
Filed May 9, 1946. Serial No. 501,738. PUBLISHED APRIL 1, 1947. Class 4.

430,774. FINGER RINGS AND MOUNTINGS THEREFOR. Helfer & Co., Chicago, Ill.
Filed May 10, 1946. Serial No. 501,846. PUBLISHED MARCH 25, 1947. Class 28.

430,775. VEILING—VIZ., VEILING BY THE YARD AND INDIVIDUAL CIRCULAR VEILS. Victor H. Levy, Los Angeles, Calif.
Filed May 11, 1946. Serial No. 501,945. PUBLISHED APRIL 8, 1947. Class 42.

430,776. INKS FOR PRINTING ON TEXTILES. Fred'k H. Levey Co. Inc., New York, N. Y.
Filed May 18, 1946. Serial No. 502,380. PUBLISHED APRIL 1, 1947. Class 11.

430,777. WASHING POWDER—NAMELY, A GENERAL PURPOSE CLEANER. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed May 18, 1946. Serial No. 502,405. PUBLISHED APRIL 1, 1947. Class 4.

430,778. FERTILIZERS. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed May 21, 1946. Serial No. 502,503. PUBLISHED MARCH 25, 1947. Class 10.

430,779. TOY SEWING MACHINES. Leon C. Genero, doing business as Genero Machine Works, Long Beach, Calif.
Filed May 21, 1946. Serial No. 502,512. PUBLISHED APRIL 8, 1947. Class 22.

430,780. ELECTRICALLY OPERATED SAWS FOR SAWING FOOD PRODUCTS INCLUDING MEAT, FOWL, FISH AND BONE, AND PARTS AND SUPPLIES FOR SUCH MACHINES. The Hobart Manufacturing Company, Troy, Ohio.
Filed May 22, 1946. Serial No. 502,581. PUBLISHED APRIL 8, 1947. Class 21.

430,781. SECTION OF PERIODICAL PUBLICATIONS. United States News Publishing Corporation, Washington, D. C.
Filed May 23, 1946. Serial No. 502,672. PUBLISHED DECEMBER 31, 1946. Class 38.

430,782. INSULATED WIRE. Phelps Dodge Copper Products Corporation, New York, N. Y.
Filed May 25, 1946. Serial No. 502,767. PUBLISHED APRIL 8, 1947. Class 21.

430,783. CANDIES. Norris Inc., Atlanta, Ga.
Filed May 27, 1946. Serial No. 502,833. PUBLISHED APRIL 8, 1947. Class 46.

430,784. FERTILIZERS. Raymond T. Wagner, doing business as Hawthorne Laboratories, Louisville, Ky.
Filed May 27, 1946. Serial No. 502,862. PUBLISHED APRIL 1, 1947. Class 10.

430,785. SOAP. Packers Tar Soap, Inc., Mystic, Conn., and New York, N. Y.
Filed June 3, 1946. Serial No. 503,215. PUBLISHED APRIL 8, 1947. Class 4.

430,786. SOAP. Packers Tar Soap, Inc., Mystic, Conn., and New York, N. Y.
Filed June 3, 1946. Serial No. 503,216. PUBLISHED APRIL 8, 1947. Class 4.

430,787. SOAPLESS DETERGENT IN POWDER FORM FOR CLEANSING PURPOSES. Manhattan Soap Company, Inc., New York, N. Y.
Filed June 5, 1946. Serial No. 503,302. PUBLISHED APRIL 1, 1947. Class 4.

430,788. SHEET MUSIC. National Music Publishing Corp., New York, N. Y.

Filed June 5, 1946. Serial No. 503,313. PUBLISHED MARCH 18, 1947. Class 38.

430,789. PERIODICAL PUBLICATION. Packaging Institute, Inc., New York, N. Y.

Filed June 8, 1946. Serial No. 503,528. PUBLISHED APRIL 1, 1947. Class 38.

430,790. GRANULATED SOAP. K. C. Working Chemical Co., Los Angeles, Calif.

Filed June 10, 1946. Serial No. 503,575. PUBLISHED APRIL 1, 1947. Class 4.

430,791. FRESH CITRUS FRUITS. Somis Lemon Association, Oxnard, Calif.

Filed June 10, 1946. Serial No. 503,607. PUBLISHED APRIL 8, 1947. Class 46.

430,792. SOAP. Packers Tar Soap, Inc., Mystic, Conn., and New York, N. Y.

Filed June 11, 1946. Serial No. 503,660. PUBLISHED APRIL 8, 1947. Class 4.

430,793. ALL NYLON FABRIC, SOLD IN THE PIECE. A. Steinam Company, Inc., New York, N. Y.

Filed June 12, 1946. Serial No. 503,767. PUBLISHED APRIL 8, 1947. Class 42.

430,794. LIGHTING FIXTURES AND ELECTRIC LAMPS—NAMELY, FLUORESCENT LAMPS, COMBINATION FLUORESCENT AND GERMICIDAL LAMPS FOR ILLUMINATING AND BACTERICIDAL USE, HOLDERS AND FIXTURES, AND PARTS THEREOF, FOR SUCH LAMPS. Jules L. Libby, doing business as Libby Electric Company, Elgin, Ill.

Filed June 13, 1946. Serial No. 503,820. PUBLISHED APRIL 8, 1947. Class 21.

430,795. MIXTURE OF CRESYLIC ACID AND HIGHER POLY-ALCOHOLS USED IN THE MERCERIZATION OF COTTON SKEINS, AND COTTON CLOTH. Jacques Wolf & Co., Clifton, N. J.

Filed June 13, 1946. Serial No. 503,854. PUBLISHED MARCH 4, 1947. Class 6.

430,796. SEASONAL-TOPIC TRANSPARENT PRINTS, ADAPTED TO BE PLACED UPON A WINDOW PANE. Betz, Incorporated, Seattle, Wash.

Filed June 14, 1946. Serial No. 503,862. PUBLISHED APRIL 1, 1947. Class 38.

430,797. DAILY PUBLICATION. Seneca Printing Company, Chicago, Ill.

Filed June 14, 1946. Serial No. 503,947. PUBLISHED MARCH 18, 1947. Class 38.

430,798. DRIERS IN THE NATURE OF A RACK FOR LINGERIE, HOSE AND THE LIKE. Harry E. Reynolds, Detroit, Mich.

Filed June 17, 1946. Serial No. 504,069. PUBLISHED APRIL 1, 1947. Class 24.

430,799. NEWSPAPER. Providence Journal Company, Providence, R. I.

Filed June 20, 1946. Serial No. 504,291. PUBLISHED MARCH 18, 1947. Class 38.

430,800. NEWSPAPER. Providence Journal Company, Providence, R. I.

Filed June 20, 1946. Serial No. 504,292. PUBLISHED MARCH 18, 1947. Class 38.

430,801. CANDY. Gilliam Candy Company, Paducah, Ky.

Filed June 25, 1946. Serial No. 504,550. PUBLISHED MARCH 11, 1947. Class 46.

430,802. CLOTHES WASHING AND IRONING MACHINES. Plymouth Wholesale Dry Goods Corporation, New York, N. Y.

Filed June 27, 1946. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 504,694. PUBLISHED MARCH 18, 1947. Class 24.

430,803. HARD SURFACED FLOOR COVERING HAVING A SYNTHETIC RESINOUS BINDER. Armstrong Cork Company, Manheim Township, Lancaster County, Pa.

Filed June 28, 1946. Serial No. 504,732. PUBLISHED MARCH 25, 1947. Class 20.

430,804. ACETYLENE FLOODLIGHTS AND ACETYLENE GENERATORS. Union Carbide and Carbon Corporation, New York, N. Y.

Filed June 28, 1946. Serial No. 504,802. PUBLISHED APRIL 8, 1947. Class 34.

430,805. MELONS—NAMELY, CANTALOUPES AND HONEYDEWS. Frank R. Brown, El Centro, Calif.

Filed July 1, 1946. Serial No. 504,879. PUBLISHED APRIL 8, 1947. Class 46.

430,806. CANDIES. The D. L. Clark Company, Pittsburgh, Pa.

Filed July 8, 1946. Serial No. 505,184. PUBLISHED APRIL 8, 1947. Class 46.

430,807. LUMBER FOR FRAMING MEMBERS, BOAT PLANKING, AND FOR GENERAL STRUCTURAL APPLICATION IN BOAT BUILDING. Higgins, Inc., New Orleans, La.

Filed July 8, 1946. Serial No. 505,200. PUBLISHED MARCH 18, 1947. Class 12.

430,808. SPOTLIGHTS FOR USE IN SCIENTIFIC AND MEDICAL LABORATORIES, FOR PRODUCT ILLUMINATION, AND IN GENERAL FOR PHOTOGRAPHIC PURPOSES. Jandor, Incorporated, Dayton, Ohio.

Filed July 8, 1946. Serial No. 505,206. PUBLISHED APRIL 8, 1947. Class 26.

430,809. CLOCKS. Juljan Bronislaw de Kurowski, London, England.

Filed July 9, 1946. Serial No. 505,288. PUBLISHED MARCH 25, 1947. Class 27.

430,810. FROZEN CONFECTIONS AND SYRUPS OR LIQUID CONCENTRATES FOR MAKING THE SAME. Joe Lowe Corporation, New York, N. Y.

Filed July 11, 1946. Serial No. 505,421. PUBLISHED APRIL 8, 1947. Class 46.

430,811. FROZEN CONFECTIONS AND SYRUPS OR LIQUID CONCENTRATES FOR MAKING THE SAME. Joe Lowe Corporation, New York, N. Y.

Filed July 11, 1946. Serial No. 505,422. PUBLISHED APRIL 8, 1947. Class 46.

430,812. FROZEN CONFECTIONS AND SYRUPS OR LIQUID CONCENTRATES FOR MAKING THE SAME. Joe Lowe Corporation, New York, N. Y.

Filed July 11, 1946. Serial No. 505,423. PUBLISHED APRIL 8, 1947. Class 46.

430,813. FROZEN CONFECTIONS AND SYRUPS OR LIQUID CONCENTRATES FOR MAKING THE SAME. Joe Lowe Corporation, New York, N. Y.

Filed July 11, 1946. Serial No. 505,424. PUBLISHED APRIL 8, 1947. Class 46.

430,814. MEN'S SHOES, SLIPPERS, AND SPORT SHOES. Goodwins, Inc., Los Angeles, Calif.

Filed July 15, 1946. Serial No. 505,644. PUBLISHED MARCH 25, 1947. Class 39.

430,815. VENEER FOR MAKING PLYWOOD AND PLYWOOD MADE OF LAMINATED VENEERS. Canadian Forest Products Limited, New Westminster, British Columbia, Canada.

Filed July 2, 1946. Serial No. 505,936. PUBLISHED APRIL 8, 1947. Class 12.

430,816. COFFEE. The Bird and Bottle Limited, Phillipstown and Garrison, N. Y.

Filed July 31, 1946. Serial No. 506,575. PUBLISHED APRIL 8, 1947. Class 46.

430,817. FUEL OIL-BURNING BOILERS AND BURNERS, AND PUMPS AND TANKS ALL OF WHICH ARE USED FOR HOME AND INDUSTRIAL HEATING APPARATUS. General Utilities Corporation, Philadelphia, Pa.

Filed July 31, 1946. Serial No. 506,596. PUBLISHED MARCH 25, 1947. Class 34.

430,818. OIL BURNERS, OIL BOILERS, OIL FURNACES, FORCED WATER CIRCULATING UNITS, PUMPS, AND TANKS FOR USE IN HOME AND INDUSTRIAL HEATING APPARATUS. General Utilities Corporation, Philadelphia, Pa.

Filed July 31, 1946. Serial No. 506,597. PUBLISHED MARCH 25, 1947. Class 34.

430,819. METAL TRAFFIC LIGHT STANDARDS; ORNAMENTAL METAL STREET, BRIDGE AND FLOOD LIGHTING EQUIPMENT INCLUDING STANDARDS, COLUMNS, BRACKETS, BASES AND FOUNDATIONS, ETC. The Union Metal Manufacturing Company, Canton, Ohio.

Filed August 1, 1946. Serial No. 506,710. PUBLISHED APRIL 8, 1947. Class 12.

430,820. SIMULATED PEARLS AND COSTUME JEWELRY. Senta Elias, doing business as Corona Mfg. Co., New York, N. Y.

Filed August 2, 1946. Serial No. 506,742. PUBLISHED MARCH 25, 1947. Class 28.

430,821. ELECTRIC HOUSEHOLD APPLIANCES—NAMELY, COMBINATION BROILER AND ROTISSERIE. De Lisser Manufacturing Corp., New Rochelle, N. Y.

Filed August 9, 1946. Serial No. 507,101. PUBLISHED APRIL 8, 1947. Class 21.

430,822. FRESH CITRUS FRUITS. Limoneira Company, Santa Paula, Calif.

Filed August 10, 1946. Serial No. 507,200. PUBLISHED APRIL 8, 1947. Class 46.

430,823. ELECTRIC TABLE LAMPS. Michael Wolfe, doing business as Michael Wolfe Co., New York, N. Y.

Filed August 16, 1946. Serial No. 507,561. PUBLISHED APRIL 8, 1947. Class 21.

430,824. COAL, OIL, AND GAS BURNING FURNACES, FOR HOUSEHOLD AND INDUSTRIAL USE. The Farquhar Furnace Company, Wilmington, Ohio.

Filed August 30, 1946. Serial No. 508,278. PUBLISHED MARCH 25, 1947. Class 34.

430,825. ORGANOSILICON INSULATING MATERIALS OF HIGH DIELECTRIC STRENGTH IN THE FORM OF IMPREGNATING AND COATING COMPOSITIONS, AND OF STABLE FLUIDS AND PASTES. Dow Corning Corporation, Midland, Mich.

Filed September 6, 1946. Serial No. 508,583. PUBLISHED APRIL 1, 1947. Class 21.

430,826. PANELS OF COMPOSITION FIBROUS MATERIAL FOR USE IN THE MANUFACTURE OF LAMINATED SHEET MATERIAL, ETC. Homasote Company, Inc., Fernwood, Ewing Township, Mercer County, N. J.

Filed September 6, 1946. Serial No. 508,601. PUBLISHED MARCH 18, 1947. Class 12.

430,827. HARD PRESSED FIBROUS COMPOSITION SHEETS USED FOR SURFACE MATERIALS FOR THE TOPS OF TABLES, COUNTERS, BARS, BUFFETS, AND THE LIKE. E. H. Sheldon & Company, Muskegon, Mich.

Filed September 9, 1946. Serial No. 508,745. PUBLISHED MARCH 18, 1947. Class 12.

430,828. LEAD AND LEAD ALLOY SHEATHS AND SLEEVES FOR ELECTRIC WIRES AND CABLES, AND FOR LEAD AND LEAD ALLOY SHEATHED ELECTRIC WIRES AND CABLES. Anaconda Wire and Cable Company, New York, N. Y.

Filed September 11, 1946. Serial No. 508,831. PUBLISHED APRIL 8, 1947. Class 21.

430,829. PUTTY-LIKE PREPARATION SOLD IN POWDER FORM, FOR APPLICATION AFTER HAVING BEEN MIXED WITH WATER TO ANY BUILDING SURFACE, ETC. Homer T. McGill, Houston, Tex.

Filed September 12, 1946. Serial No. 509,021. PUBLISHED MARCH 18, 1947. Class 12.

430,830. INTER-COMMUNICATING SOUND AMPLIFYING AND TRANSMITTING SYSTEMS COMPRISING SPEAKERS, AMPLIFIERS, MICROPHONES, INTER-CONNECTING CIRCUITS, AND ENERGIZING DEVICES WHEREBY CONVERSATION AT EITHER POINT MAY BE HEARD AT THE OTHER POINT OF COMMUNICATION. Webster Electric Company, Racine, Wis.

Filed September 13, 1946. Serial No. 509,059. PUBLISHED APRIL 8, 1947. Class 21.

430,831. FRICTION PYROPHORIC AND CATALYTIC CIGAR, CIGARETTE, AND PIPE LIGHTERS, AND PARTS FOR SUCH LIGHTERS. Metalite, Inc., Meriden, Conn.

Filed September 20, 1946. Serial No. 509,433. PUBLISHED MARCH 25, 1947. Class 34.

430,832. DENTAL GOLD SOLDER. A. L. Engelhardt Company, Los Angeles, Calif.

Filed October 4, 1946. Serial No. 510,240. PUBLISHED APRIL 8, 1947. Class 44.

430,833. GARAGE DOORS. All Aluminum Door Company, Chicago, Ill.

Filed October 16, 1946. Serial No. 510,923. PUBLISHED APRIL 8, 1947. Class 12.

430,834. BRUSHLESS SHAVING CREAM. The Temple Products Company, Washington, D. C.

Filed October 29, 1946. Serial No. 511,705. PUBLISHED APRIL 1, 1947. Class 4.

430,835. CRUCIBLES AND FURNACE COVERS FOR INDUSTRIAL FURNACES. Joseph Dixon Crucible Company, Jersey City, N. J.

Filed October 31, 1946. Serial No. 511,802. PUBLISHED APRIL 8, 1947. Class 34.

430,836. ARTIFICIAL FISH BAITS, FISH LURES, FISHING ROD REELS, FISHING LINES, GOLF BAGS, TENNIS RACKET PRESSES, AND TENNIS RACKET CASES. The Union Fork & Hoe Company, Columbus, Ohio.

Filed November 1, 1946. Serial No. 511,910. PUBLISHED APRIL 8, 1947. Class 22.

430,837. VENTILATING EQUIPMENT—NAMELY, EXHAUST FANS. Argus Manufacturing Company, Chicago, Ill.

Filed November 21, 1946. Serial No. 512,953. PUBLISHED APRIL 1, 1947. Class 34.

430,838. APPLICATORS. Splain & Lloyd, Inc., Milford, Ohio.

Filed December 23, 1946. Serial No. 514,726. PUBLISHED APRIL 8, 1947. Class 44.

430,839. EYEGLASS CLEANER, WHICH CAN BE USED FOR CLEANING OTHER GLASS SURFACES OR THE LIKE. Albert L. Fessler, doing business as Klee Laboratories, Indianapolis, Ind.

Filed April 12, 1946. Serial No. 515,982. PUBLISHED APRIL 8, 1947. Class 4.

430,840. BOARD GAME. Game Creations, Inc., New York, N. Y.

Filed January 22, 1947. Serial No. 516,124. PUBLISHED APRIL 8, 1947. Class 22.

430,841. ELECTRIC MOTORS AND PARTS THEREOF AND ELECTRIC GENERATORS AND PARTS THEREOF. The Master Electric Company, Dayton, Ohio.

Filed November 18, 1946. Serial No. 520,851.

ACT OF MARCH 19, 1920, SEC. 1 (b)

These registrations are not subject to opposition

430,842. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FOUNDRY RUBBER COMPOUNDS CORPORATION, Washington, D. C. Filed Dec. 1, 1943. Serial No. 465,423.

PARA-COAT

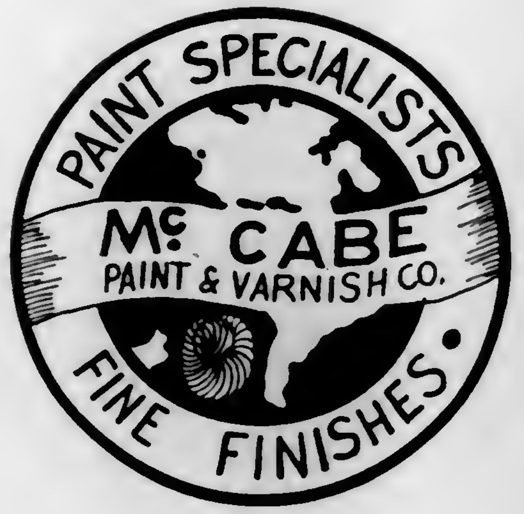
FOR PAINT IN READY MIXED FORM.
Claims use since Oct. 10, 1941.

430,843. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANLEY HOME PRODUCTS, INC., Westfield, Mass. Filed Oct. 23, 1945. Serial No. 490,406.

STANLEY

FOR FURNITURE CREAM, AUTOMOBILE POLISH AND FLOOR WAX.
Claims use since July 13, 1931.

430,844. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MCCABE PAINT & VARNISH CO., Irvington, N. J. Filed Nov. 23, 1945. Serial No. 492,068.



FOR PAINTS AND VARNISHES SOLD IN DRY, PASTE, AND READY-MIXED FORM.
Claims use since January 1945.

430,845. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LA MODE CHEZ TAPPE, INC., New York, N. Y. Filed Dec. 5, 1945. Serial No. 492,716.

SHAVE
'N
SHOWER

FOR AFTER-SHAVING LOTION, TOILET WATER, EAU DE COLOGNE, COLOGNE, DEODORANT PREPARATION, PERFUME DEODORANT, COLOGNE DEODORANT, SHAMPOO, TALCUM POWDER, HAND LOTION, HAIR LOTION, BRILLIANTINE, SCALP CONDITIONING PREPARATION, HAIR CONDITIONING PREPARATION, TOOTH PASTE, FOOT POWDER, POMADE, FACIAL CREAMS, STYPTIC PENCIL, PREPARATION FOR TREATMENT OF CHAPPED LIPS IN LIPSTICK FORM, AND MUSTACHE WAX.
Claims use since Oct. 25, 1945.

430,846. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ANTONIO MARANDOLA, doing business as Maria Pearl Novelty Co., Providence, R. I. Filed Dec. 10, 1945. Serial No. 493,016.

LAMAR

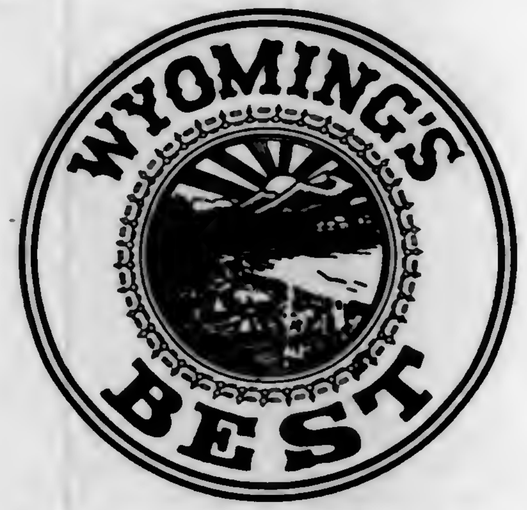
FOR PEARL NECKLACES; AND BROOCHES, EARRINGS, BRACELETS, LOCKETS AND PENDANTS, MADE OF PRECIOUS AND SEMI-PRECIOUS METAL.
Claims use since July 1, 1930.

430,847. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ELLIS J. HOFFORD, doing business as Hofford Paint & Varnish Co., Carlstadt, N. J. Filed Jan. 8, 1946. Serial No. 494,447.

HOFFORD'S
PENTROX

FOR VARNISH-LIKE MATERIAL FOR FLOORS AND WOODWORK.
Claims use since October 1944.

430,848. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TOOMEY'S MILLS, Newcastle, Wyo. Filed Jan. 22, 1946. Serial No. 495,199.



FOR WHITE FLOUR MADE FROM WHEAT.
Claims use since July 1, 1909.

430,849. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WIGGLE-ME TOYS, INC., Lynbrook, N. Y. Filed Feb. 9, 1946. Serial No. 496,356.

WIGGLE-ME

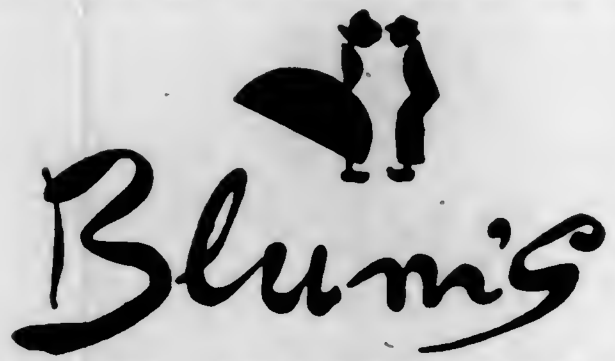
FOR JOINTED TOY FIGURES HAVING CORDS PASSING THROUGH THE LIMBS, HEAD AND BODY, WHEREBY MOVEMENT OF THE CORDS CAUSES CORRESPONDING MOVEMENT OF ELEMENTS OF THE FIGURE.
Claims use since Jan. 3, 1946.

430,850. (CLASS 32. FURNITURE AND UPHOLSTERY.) OAKES & COMPANY, Chicago, Ill., assignor to Oakes & Company, Chicago, Ill., a corporation of Illinois. Filed Mar. 7, 1946. Serial No. 497,811.

Style Craft

FOR LIVING ROOM, DINING ROOM, BEDROOM, NURSERY, KITCHEN, PORCH AND OFFICE FURNITURE—NAMELY, CHAIRS, TABLES, LOUNGES, SOFAS, DIVANS, SECRETARIES, BOOKCASES, OTTOMANS, HASSOCKS, FOOTSTOOLS, HALL TREES, COSTUMERS, BUFFETS, BEDS, DRESSERS, CHIFFONIERS, VANITIES, SCREENS, CRIBS, PLAY PENS, BASSINETS, GLIDERS, DESKS, FILING CABINETS, BOX SPRINGS AND MATTRESSES.
Claims use since Jan. 15, 1946.

430,851. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLUM'S, San Francisco, Calif., assignor to Blum's, San Francisco, Calif., a corporation of California. Filed Mar. 28, 1946. Serial No. 499,106.



FOR CANDIES, CAKES, PASTRIES AND ICE CREAM.
Claims use since Jan. 15, 1896.

430,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLUM'S, San Francisco, Calif., assignor to Blum's, San Francisco, Calif., a corporation of California. Filed Mar. 28, 1946. Serial No. 499,108.

BLUM'S

Coffeeteens

FOR CANDIES.
Claims use since July 12, 1940.

430,853. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLUM'S, San Francisco, Calif., assignor to Blum's, San Francisco, Calif., a corporation of California. Filed Mar. 28, 1946. Serial No. 499,109.

BLUM'S

Li'l Darkies

FOR CANDIES.
Claims use since Feb. 3, 1941.

430,854. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLUM'S, San Francisco, Calif., assignor to Blum's, San Francisco, Calif., a corporation of California. Filed Mar 28, 1946. Serial No. 499,110.

BLUM'S

old fashioned
cinnamon bumps

FOR CANDIES.
Claims use since Feb. 3, 1941.

430,855. (CLASS 32. FURNITURE AND UPHOLSTERY.) RUTH F. BRYCE, doing business as Bryce Plastic Industries, Los Angeles, Calif. Filed Apr. 4, 1946. Serial No. 499,609.

TU-TONE

FOR PLASTIC MERCHANDISE DISPLAY FIXTURES, PLASTIC MERCHANDISE DISPLAY RACKS, AND PLASTIC MERCHANDISE DISPLAY STANDS.

Claims use since Feb. 11, 1946.

430,856. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) WASHOUGAL WOOLEN MILLS, doing business under the name West Coast Woolen Mills, Ltd., Washougal, Wash. Filed Apr. 4, 1946. Serial No. 499,678.

BISHOP'S

West Coast

Woolens

FOR WOOLEN FABRICS, SOLD BY THE YARD AND BY THE BOLT.

Claims use since Feb. 5, 1946.

430,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALCUTTA CLUB PRODUCTS, INC., New York, N. Y. Filed Apr. 8, 1946. Serial No. 499,819.

BON BOUQUET

FOR CANNED ONION SOUP.

Claims use since Mar. 13, 1946.

430,858. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALYMP-OL SOAP & CHEMICAL CO., Taunton, Mass. Filed Apr. 15, 1946. Serial No. 500,199.

NU - BRITE

FOR FURNITURE POLISH; SCRATCH REMOVERS AND POLISHES FOR MAHOGANY, WALNUT AND MAPLE FURNITURE AND FLOORS; FLOOR WAX AND RUBBING AND NON-RUBBING FURNITURE AND FLOOR POLISHES.

Claims use since July 2, 1943.

430,859. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NORTON L. WHEELER, doing business as Oktul Specialty Company, Tulsa, Okla. Filed Apr. 20, 1946. Serial No. 500,639.

PULPCAP

FOR DENTAL COMPOUND FOR USE AS A SEDATIVE CEMENT AND PULP CAPPING MATERIAL.

Claims use since Apr. 13, 1946.

430,860. (CLASS 32. FURNITURE AND UPHOLSTERY.) KROEHLER MFG. CO., Naperville, Ill. Filed Apr. 27, 1946. Serial No. 501,072.

FOR UPHOLSTERED LIVING ROOM FURNITURE—NAMELY, SOFAS, DAVENPORTS, CONVERTIBLE DAVENPORT-BEDS, OCCASIONAL CHAIRS AND LOUNGE CHAIRS.

Claims use since Apr. 8, 1946.

430,861. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) FORMETAL COMPANY, Alliance, Ohio, now by change of name The Taylor Corporation. Filed May 7, 1946. Serial No. 501,570.

Taylor Junior

FOR DOMESTIC CLOTHES WASHING MACHINE.

Claims use since Feb. 25, 1946.

430,862. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WATCHEMOKET OPTICAL CO. INC., Providence, R. I. Filed May 16, 1946. Serial No. 502,243.

Opto

pac

FOR EYE MASKS FOR HOLDING MEDICATED PADS IN PLACE OVER THE EYES.

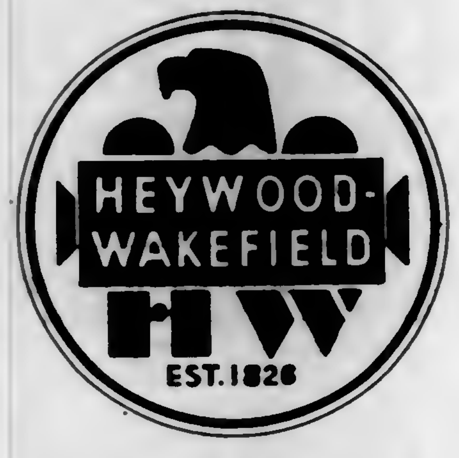
Claims use since Apr. 19, 1946.

430,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEMAIN FOODS INCORPORATED, Ayden, N C. Filed May 21, 1946. Serial No. 502,501.

FOR BOTTLED PICKLES, BOTTLED PIMENTOS, AND BOTTLED DILL CHIPS.

Claims use since Apr. 1, 1946.

430,864. (CLASS 32. FURNITURE AND UPHOLSTERY.) HEYWOOD-WAKEFIELD COMPANY, Gardner, Mass. Filed May 28, 1946. Serial No. 502,894.



FOR HOUSEHOLD AND SUMMER FURNITURE BOTH WOOD AND UPHOLSTERED—NAMELY, DAVENPORTS, CHAIRS, TABLES, DESKS, BOOK CASES, LOVE-SEATS AND SETTEES; BEDS, VANITIES, VANITY BENCHES, DRESSERS, CHESTS OF DRAWERS, NIGHT STANDS; CHINA CLOSETS, BUFFETS, SERVERS AND DINING-TABLES; SCHOOL FURNITURE—NAMELY, DESKS, CHAIRS, TABLES FOR CLASSROOMS, AUDITORIUMS AND CAFETERIAS; AND THEATRE SEATING—NAMELY, SEATS FOR USE IN ORCHESTRAS, BALCONIES, MEZZANINES AND LOGES.

Claims use since Feb. 25, 1946, on household and summer furniture; and since Mar. 18, 1946, on school furniture and theatre seating.

430,865. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) REFRESH-AIRE OZONIZER CORP., New York, N. Y. Filed June 11, 1946. Serial No. 503,672.

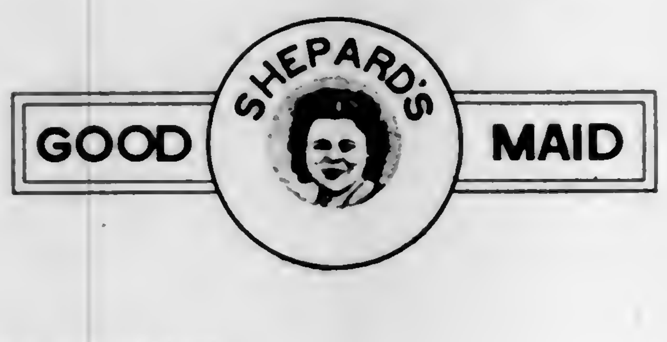
Refresh-Aire

OZONIZER

FOR ELECTRICAL HOME OZONIZING APPARATUS FOR PURIFYING THE AIR.

Claims use since May 6, 1946.

430,866. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS J. SHEPARD, doing business as Shepard's Ice Cream Store, Watseka and Kankakee, Ill. Filed June 13, 1946. Serial No. 503,832.



FOR ICE CREAM.

Claims use since 1942.

430,867. (CLASS 32. FURNITURE AND UPHOLSTERY.) ROBERTS, INC., Cleveland, Ohio. Filed June 21, 1946. Serial No. 504,390.

FOR DESIGNED MERCHANDISING DISPLAYS CONSTRUCTED OF WOOD AND MASONITE, AND USED FOR DESK AND COUNTER AND BACKGROUND PARTITIONS FOR UTILITY AND DECORATIVE PURPOSES IN BEAUTY SHOPS, DRY CLEANING STORES, AND SALES ROOMS.

Claims use since Jan. 2, 1946.

430,868. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SCHALK CHEMICAL COMPANY, Los Angeles, Calif. Filed June 21, 1946. Serial No. 504,396.

FOR PAINT BRUSH CLEANER.

Claims use since Sept. 15, 1941.

430,869. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HARVEY T. GALE, doing business as Gaylin Jewelry, New York, N. Y. Filed June 22, 1946. Serial No. 504,436.

BEJEWELED

by Gaylin

FOR FINGER RINGS, BRACELETS, BROOCHES, EARRINGS, NECKLACES, AND PIN CLIPS.

Claims use since Mar. 25, 1946.

430,870. (CLASS 32. FURNITURE AND UPHOLSTERY.) L & N PLASTIC CO., New York, N. Y. Filed June 22, 1946. Serial No. 504,440.

SUP-R-LITE

FOR OCCASIONAL TABLES, END TABLES, COFFEE TABLES, PORCH TABLES, LAMP TABLES AND VERANDA TABLES MADE OF PLASTIC MATERIALS.
Claims use since Mar. 15, 1946.

430,871. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JANNEY, SEMPLE, HILL & CO., Minneapolis, Minn. Filed June 24, 1946. Serial No. 504,491.

All-Kote

FOR OIL BASE PAINT IN READY MIXED FORM.
Claims use since Jan. 5, 1942.

430,872. (CLASS 32. FURNITURE AND UPHOLSTERY.) JAMES MCCUTCHEON & COMPANY, New York, N. Y. Filed July 19, 1946. Serial No. 505,902.

McCutcheon's

LOUNGE-BED

FOR CONVERTIBLE DAVENPORT BEDS.
Claims use since Apr. 19, 1946.

430,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWEST PACKING CO., Portland, Oreg. Filed Sept. 13, 1946. Serial No. 509,027.

Irvington Club

FOR FROZEN AND CANNED VEGETABLES AND FRUITS.
Claims use since July 1, 1914.

430,874. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 11, 1946. Serial No. 510,685.

HUDSON

FOR THERMOSTAT WAFERS, THERMOSTAT VALVES AND THERMOMETERS.
Claims use since 1930.

430,875. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINNIE A. REED, Hutchinson, Kans. Filed Oct. 12, 1946. Serial No. 510,801.

Mrs. Reed's

FOR SALAD DRESSING.
Claims use since June 19, 1939.

430,876. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JACOB BOMZE, Detroit, Mich. Filed Feb. 3, 1947. Serial No. 516,811.

BOMZE GRIP

FOR BOWLING BALLS.
Claims use since on or about Sept. 1, 1941.

430,877. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEORGE H. WILLIS, doing business as Sealtite Comfort Dental Pad Company, Kansas City, Mo. Filed Feb. 10, 1947. Serial No. 517,278.

Sealtite

FOR PADS FOR USE BETWEEN ALVEOLAR RIDGES OF EDENTULOUS PERSONS AND THE RIDGE RECEIVING PORTIONS OF THEIR DENTURES.
Claims use since June 1944.

430,878. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SELFORM ARCH CO., INC., Boston, Mass. Filed Mar. 5, 1947. Serial No. 518,562.

SELFORM

FOR ARCH SUPPORTS.
Claims use since January 1946.

TRADE-MARK REGISTRATIONS RENEWED

29,344. **BO-PEEP.** ALL-WOOL BOOTS. Registered Dec. 29, 1896. HASTINGS WOOL BOOT COMPANY, Hastings, Mich. Re-renewed Dec. 29, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 39.

57,005. **SECURITY.** BELTING, HOSE, AND MACHINERY-PACKINGS, COMPOSED OF RUBBER, RUBBER COMPOSITIONS, OR TEXTILE FABRICS OR COMBINATIONS THEREOF. Registered Oct. 30, 1906. REVERE RUBBER COMPANY, Boston, Mass. Re-renewed Oct. 30, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

57,252. **PILOT.** BELTING, HOSE, AND MACHINERY-PACKINGS COMPOSED OF RUBBER, RUBBER COMPOSITIONS, OR TEXTILE FABRICS OR COMBINATIONS THEREOF. Registered Nov. 6, 1906. REVERE RUBBER COMPANY, Boston, Mass. Re-renewed Nov. 6, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

57,388. **ZENITH.** BELTING, HOSE, AND MACHINERY-PACKINGS COMPOSED OF RUBBER, RUBBER COMPOSITIONS, OR TEXTILE FABRICS, OR COMBINATIONS THEREOF. Registered Nov. 13, 1906. REVERE RUBBER COMPANY, Boston, Mass. Re-renewed Nov. 13, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

58,237. **UNCLE SAM.** FABRIC HOSE. Registered Dec. 11, 1906. EUREKA FIRE HOSE COMPANY, Jersey City, N. J. Re-renewed Dec. 11, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

58,238. **HELMET.** FABRIC HOSE. Registered Dec. 11, 1906. EUREKA FIRE HOSE COMPANY, Jersey City, N. J. Re-renewed Dec. 11, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

59,183. **"PYRAMID" AND DRAWING.** SOAP-POWDER. Registered Jan. 1, 1907. THE CUDAHY PACKING COMPANY, Chicago, Ill., and South Omaha, Nebr. Re-renewed Jan. 1, 1947, to The Cudahy Packing Company, Chicago, Ill., a corporation of Maine. Class 4.

59,202. **POMPEIAN.** SALVE, OINTMENT, AND CREAM FOR THE TOILET, TOILET WATER, AND EXTRACTS, COLOGNE, LOTION, SHAMPOO AND SHAMPOOING PREPARATIONS, HAIR-TONIC, AND SCALP PREPARATIONS, AND BAY-RUM. Registered Jan. 1, 1907. THE POMPEIAN MFG. CO., Cleveland, Ohio. Re-renewed Jan. 1, 1947, to Pompeian Olive Oil Corporation, Baltimore, Md., a corporation of Maryland. Class 6.

59,703. **WATERMAN'S.** FOUNTAIN-PENS, FOUNTAIN-PEN FEEDS, FOUNTAIN-PEN CAPS, AND FOUNTAIN-PEN BARRELS. Registered Jan. 15, 1907. L. E. WATERMAN COMPANY, New York, N. Y., a corporation of New York. Re-renewed Jan. 15, 1947. Class 37.

61,081. **POMPEIAN.** SOAP. Registered Mar. 5, 1907. THE POMPEIAN MFG. CO., Cleveland, Ohio. Re-renewed Mar. 5, 1947, to Pompeian Olive Oil Corporation, Baltimore, Md., a corporation of Maryland. Class 4.

61,931. **"ST. GEORGE WOOLEN MILLS" AND DRAWING.** WOOLEN FABRICS IN THE PIECE. Registered Apr. 9, 1907. PHOENIX WOOLEN CO., Stafford, Conn. Re-renewed Apr. 9, 1947, to Swift River Woolen Co., Westerly, R. I., a corporation of Rhode Island. Class 42.

61,981. **REPRESENTATION OF A FLAG WITHIN WREATH.** ALL KINDS OF POWDER USED FOR SHOTGUN, RIFLE, AND SMALL ARMS. Registered Apr. 16, 1907. LAFLIN & RAND POWDER COMPANY, New York, N. Y. Re-renewed Apr. 16, 1947, to Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Class 9.

61,982. **BULLS EYE.** ALL KINDS OF POWDER USED FOR SHOTGUN, RIFLE AND SMALL-ARMS. Registered Apr. 16, 1907. LAFLIN & RAND POWDER COMPANY, New York, N. Y. Re-renewed Apr. 16, 1947, to Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Class 9.

61,984. **LIGHTNING.** ALL KINDS OF POWDER USED FOR SHOTGUN, RIFLE, AND SMALL-ARMS. Registered Apr. 16, 1907. LAFLIN & RAND POWDER COMPANY, New York, N. Y. Re-renewed Apr. 16, 1947, to Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Class 9.

61,988. **SHARPSHOOTER.** ALL KINDS OF POWDER USED FOR SHOTGUN, RIFLE, AND SMALL-ARMS. Registered Apr. 16, 1907. LAFLIN & RAND POWDER COMPANY, New York, N. Y. Re-renewed Apr. 16, 1947, to Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Class 9.

62,027. **"ROCK SPRING" ETC.** TABLE-WATERS. Registered Apr. 16, 1907. JACOB RIES. Re-renewed Apr. 16, 1947, to Jacob Ries Bottling Works, Inc., Shakopee, Minn., a corporation of Minnesota. Class 45.

62,067. **GEM.** FINGER-NAIL CLIPPERS. Registered Apr. 16, 1907. THE H. C. COOK COMPANY, Ansonia, Conn., a corporation of Connecticut. Re-renewed Apr. 16, 1947. Class 44.

62,085. **REPRESENTATION OF A DOT IN SOLID BLACK.** GOLF-BALLS. Registered Apr. 16, 1907. A. G. SPALDING & BROS., New York, N. Y. Re-renewed Apr. 16, 1947 to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware. Class 22.

64,125. **BUDWEISER.** BEER. Registered July 23, 1907. ANHEUSER-BUSCH BREWING ASSOCIATION. Re-renewed July 23, 1947, to Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri. Class 48.

220,167. **"RICE" WITHIN CIRCLE.** CANNED BEANS AND PORK, CANNED MINCEMEAT, BULK MINCEMEAT, CANNED APPLES, CANNED PREPARED FISH CAKES AND BONELESS SALT CODFISH. Registered Nov. 2, 1926. C. H. RICE COMPANY, Bangor, Maine, a corporation of Maine. Renewed Nov. 2, 1946. Class 46.

221,052. **JUST SUITS.** CANNED FRUITS, CANNED VEGETABLES, TOMATO CATCHUP, TEA, SPICES, COFFEE, COCOA, MAYONNAISE. Registered Nov. 23, 1926. WHOLESALE GROCERS EXCHANGE, INC., Richmond, Va., a corporation of Virginia. Renewed Nov. 23, 1946. Class 46.

221,053. **FAIRFAX HALL.** CANNED FRUITS, CANNED VEGETABLES, TOMATO CATCHUP, TEA, SPICES, COFFEE, VINEGAR, COCOA, MAYONNAISE, OATMEAL, ALIMENTARY PASTES, AND RICE. Registered Nov. 23, 1926. WHOLESALE GROCERS EXCHANGE, INC., Richmond, Va., a corporation of Virginia. Renewed Nov. 23, 1946. Class 46.

221,054. **WILLIAM BYRD.** CANNED FRUITS, CANNED VEGETABLES, TOMATO CATCHUP, TEA, SPICES, COFFEE, VINEGAR, COCOA, MAYONNAISE, AND RICE. Registered Nov. 23, 1926. WHOLESALE GROCERS EXCHANGE, INC., Richmond, Va., a corporation of Virginia. Renewed Nov. 23, 1946. Class 46.

221,578. **AUTOROLL.** PLAIN, LITHOGRAPHED, AND PRINTED PAPER STRIPS, LEAVES, AND SHEETS FOR USE IN MANIFOLDING REGISTERS, IN TYPEWRITERS, AND IN OTHER MACHINES. Registered Dec. 7, 1926. AUTOGRAPHIC REGISTER COMPANY, Hoboken, N. J., a corporation of New Jersey. Renewed Dec. 7, 1946. Class 37.

221,601. **AUTOPACK.** PLAIN, LITHOGRAPHED, AND PRINTED **PAPER STRIPS, LEAVES, AND SHEETS FOR USE IN MANIFOLDING REGISTERS, IN TYPEWRITERS, AND IN OTHER MACHINES.** Registered Dec. 7, 1926. Autographic Register Company, Hoboken, N. J., a corporation of New Jersey. Renewed Dec. 7, 1946. Class 37.

221,622. **REPRESENTATION OF A DOG.** WATER HEATERS, BOILERS, AND WARM-AIR FURNACES, ALL GAS-FIRED. Registered Dec. 7, 1926. The Bryant Heater & Manufacturing Company. Renewed Dec. 7, 1946, to Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio. Class 34.

222,916. **"BLACKHAWK BRAND" AND PICTURE OF AN INDIAN WITHIN OVAL.** SAND SUITABLE FOR USE IN STEEL MOLDING, FURNACE BOTTOMS, CORE MAKING, AND OTHER FOUNDRY USES, GLASS MAKING, AND SAND-BLAST, ETC. Registered Jan. 11, 1927. Standard Silica Company. Renewed Jan. 11, 1947, to Standard Silica Corporation, Chicago, Ill., a corporation of Illinois. Class 1.

222,982. **LEAD-O-ZIN.** READY-MIXED AND PREPARED PAINTS. Registered Jan. 11, 1927. Euston Lead Company, Scranton, Pa. Renewed Jan. 11, 1947, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Class 16.

223,234. **ALPHA.** LIQUID CLEANING COMPOUND FOR WOOD, METAL, GLASS, MARBLE, PAINTED WOODWORK, FLOORS, WALLS, AND FURNITURE. Registered Jan. 25, 1927. Alpha Chemical Company. Renewed Jan. 25, 1947, to Alpha Chemical Co. Inc., Baltimore, Md., a corporation of Maryland. Class 4.

223,439. **SERGEANT'S.** DISINFECTANT FOR GENERAL USE, FLEA POWDER, MANGE MEDICINE, COUGH MEDICINE, CANKER WASH, DISTEMPER MEDICINE, EYEWASH, AND CERTAIN OTHER NAMED PHARMACEUTICAL PREPARATIONS. Registered Feb. 1, 1927. Polk Miller Products Corp., Richmond, Va., a corporation of Virginia. Renewed Feb. 1, 1947. Class 6.

223,613. **—CINATOL—.** MEDICINAL COMPOUND FOR THE TREATMENT OF HAY FEVER, ROSE FEVER, AND SIMILAR AFFLICTIONS. Registered Feb. 8, 1927. Edward C. Hacker, doing business as The Cinatol Co., Hartford, Wis. Renewed Feb. 8, 1947, to Donald E. Hacker, Milwaukee, Wis. Class 6.

223,814. **SOLO KRINKLE.** PLAIN WHITE OR DYED COTTON PRINTED PIECE GOODS. Registered Feb. 8, 1927. Consolidated Textile Corporation. Renewed Feb. 8, 1947, to Consolidated Textile Co., Inc., New York, N. Y., a corporation of Delaware. Class 42.

223,870. **SERGEANT'S.** SOAP. Registered Feb. 15, 1927. Polk Miller Products Corp., Richmond, Va., a corporation of Virginia. Renewed Feb. 15, 1947. Class 4.

224,549. **"MARATHON" REPRESENTATION OF AN ATHLETE AND DESIGN.** VEHICLE TIRES AND TUBES COMPOSED WHOLLY OR IN PART OF RUBBER. Registered Mar. 1, 1927. Marathon Rubber Company, Inc. Renewed Mar. 1, 1947, to The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Class 35.

224,860. **STANSO.** COUGH SIRUP, QUINOLAX COLD TABLETS, ARNICA LOTION, STOMACH AND LIVER TABLETS, AND CERTAIN OTHER NAMED PHARMACEUTICAL PREPARATIONS. Registered Mar. 8, 1927. The Stansbury Drug Co. Renewed Mar. 8, 1947, to A. A. Stansbury, doing business as Stansbury's Wholesale Drugs, Middleport, Ohio. Class 6.

225,155. **SAFTI-FUME.** FUMIGANT BRIQUETTES. Registered Mar. 15, 1927. Safety Fumigant Company, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 15, 1947. Class 6.

225,215. **"LEWIS" ETC. AND DRAWING.** ATHLETIC **UNION SUITS AND KNITTED FABRIC.** Registered Mar. 15, 1927. Lewis Knitting Company, Janesville, Wis., a corporation of Wisconsin. Renewed Mar. 15, 1947. Class 39.

225,590. **GLORIA.** LACQUER. Registered Mar. 22, 1927. The Egyptian Lacquer Manufacturing Company, New York, N. Y., a corporation of New Jersey. Renewed Mar. 22, 1947. Class 16.

225,591. **THE WONDER MOTOR FUEL.** GASOLINE. Registered Mar. 22, 1927. Sherwood Brothers Incorporated, Baltimore, Md., a corporation of Maryland. Renewed Mar. 22, 1947. Class 15.

225,965. **"HEAVY BALLOON TOURIST" AND DESIGN.** TIRES AND TUBES COMPOSED WHOLLY OF RUBBER OR RUBBER AND FABRIC. Registered Mar. 29, 1927. The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Mar. 29, 1947. Class 35.

225,966. **MULSOLITE.** WET-CLEANING SOLUTION FOR CLOTHES. Registered Mar. 29, 1927. R. R. Street & Co., Inc., Chicago, Ill., a corporation of Illinois. Renewed Mar. 29, 1947. Class 4.

226,055. **"MARATHON" AND DESIGN.** SOLES AND HEELS FOR **BOOTS** AND SHOES, COMPOSED **WHOLLY OR IN PART OF RUBBER.** Registered Mar. 29, 1927. Marathon Rubber Company, Inc. Renewed Mar. 29, 1947, to The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Class 39.

226,275. **GLAZETTE.** RUBBER FABRIC IN THE **PIECE.** Registered Apr. 5, 1927. Archer Rubber Company, Milford, Mass., a corporation of Massachusetts. Renewed Apr. 5, 1947. Classes 50 and 42.

226,480. **KING'S CAMPHOLOTION.** PREPARATION FOR THE SKIN. Registered Apr. 12, 1927. King and Stallkamp, Delphos, Ohio, a firm. Renewed Apr. 12, 1947. Class 6.

226,499. **"FLU-ID-SOAP" AND DESIGN.** LIQUID SOAP IN CONCENTRATED FORM. Registered Apr. 12, 1927. Alexander C. Fergusson, Philadelphia, Pa. Renewed Apr. 12, 1947. Class 4.

226,545. **GOLD MEDAL.** MEDICINAL PREPARATIONS—NAMELY, CHILL TONIC, LIVER POWDER, AND COUGH SIRUP. Registered Apr. 12, 1927. S. Pfeiffer Mfg. Co., St. Louis, Mo., a corporation of Missouri. Renewed Apr. 12, 1947. Class 6.

226,682. **THE ORGANIST.** MONTHLY MAGAZINE. Registered Apr. 19, 1927. Lorenz Publishing Company, Dayton, Ohio, a firm. Renewed Apr. 19, 1947. Class 38.

226,684. **METAL MIKE.** NAVIGATIONAL APPARATUS—NAMELY, AUTOMATIC STEERING DEVICES. Registered Apr. 19, 1927. The Sperry Gyroscope Company, Brooklyn, N. Y. Renewed Apr. 19, 1947, to Sperry Gyroscope Company, Inc., Great Neck, N. Y., a corporation of New York. Class 26.

226,709. **THE CHOIR LEADER.** MONTHLY MAGAZINE. Registered Apr. 19, 1927. Lorenz Publishing Company, Dayton, Ohio, a firm. Renewed Apr. 19, 1947. Class 38.

226,710. **THE CHOIR HERALD.** MONTHLY MAGAZINE. Registered Apr. 19, 1927. Lorenz Publishing Company, Dayton, Ohio. Renewed Apr. 19, 1947. Class 38.

226,721. **ALMOND NUGGETS.** FUDGE AND NOUGAT. Registered Apr. 19, 1927. Golden Nugget Sweets. Renewed Apr. 19, 1947, to Golden Nugget Sweets Ltd., San Francisco, Calif., a limited partnership. Class 46.

226,734. **SNAPPY BOY.** BICYCLES. Registered Apr. 19, 1927. Supplee-Biddle Hardware Company. Renewed Apr. 19, 1947, to Supplee-Biddle Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 19.

226,774. **SUN-MAID.** BAKING POWDER. Registered Apr. 19, 1927. Sun-Maid Raisin Growers of California, Fresno, Calif., a cooperative association of California. Renewed Apr. 19, 1947. Class 46.

226,800. **LAUNGEROL.** LIQUID SOAP. Registered Apr. 19, 1927. Perkins Soap Company, Springfield, Mass., a corporation of Massachusetts. Renewed Apr. 19, 1947. Class 4.

226,802. **THE VOLUNTEER CHOIR.** MONTHLY MAGAZINE. Registered Apr. 19, 1927. Lorenz Publishing Company, Dayton, Ohio, a firm. Renewed Apr. 19, 1947. Class 38.

226,819. **SURE SHOT.** CAPSULES AND A LIQUID PREPARATION FOR DOGS. Registered Apr. 19, 1927. Polk Miller Products Corp., Richmond, Va., a corporation of Virginia. Renewed Apr. 19, 1947. Class 6.

226,961. **YUM-YUM.** FRESH APPLES. Registered Apr. 26, 1927. Skookum Packers Association, Wenatchee, Wash., a corporation of Washington. Renewed Apr. 26, 1947. Class 46.

227,003. **DAN-DEE.** FRESH NUT MEATS. Registered Apr. 26, 1927. Illinois Nut Products Co. Renewed Apr. 26, 1947, to McGarry Nut Products Ltd., Chicago, Ill., a limited partnership. Class 46.

227,029. **UN COIN DU CIEL.** PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, AND CERTAIN OTHER NAMED COSMETICS. Registered Apr. 26, 1927. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed Apr. 26, 1947. Class 6.

227,032. **PERSOL.** TEXTILE OIL. Registered Apr. 26, 1927. Perkins Soap Company, Springfield, Mass., a corporation of Massachusetts. Renewed Apr. 26, 1947. Class 6.

227,073. **"BLACK KNIGHT" AND DESIGN.** FISHING LINES. Registered Apr. 26, 1927. United States Whip Company, doing business as U. S. Line Company, Westfield, Mass., a corporation of Maine. Renewed Apr. 26, 1947. Class 22.

227,106. **"BANKABLE" AND DESIGN.** BOND PAPER AND LEDGER PAPER. Registered Apr. 26, 1927. Marquette Paper Co., Chicago, Ill., a corporation of Illinois. Renewed Apr. 26, 1947. Class 37.

REISSUES

JUNE 24, 1947

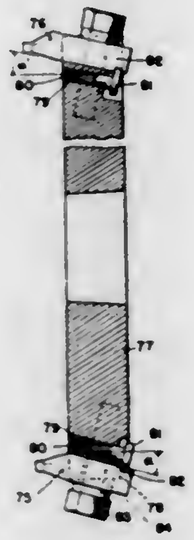
22,891

GEAR CUTTER

Ernest C. Head, deceased, late of Detroit, Mich., by Gleason Works, Rochester, N. Y., assignee

Original No. 2,270,003, dated January 13, 1942, Serial No. 66,672, March 2, 1936. Application for reissue September 14, 1945, Serial No. 616,448

7 Claims. (Cl. 29—105)



1. A face mill gear cutter, comprising a rotary head and a plurality of annularly arranged cutting blades which are secured thereto and extend in a direction generally parallel to the axis of the head when viewed from one side of the head, but which are inclined to the axis of the head when viewed in a cross-section through the axis of rotation of the head, each of said blades having a side surface which has a top portion and a bottom portion, both of said portions having positive pressure angles, said top portion having a pressure angle less than that of said bottom portion, each blade being relieved on said side surface back of its front face to provide cutting clearance.

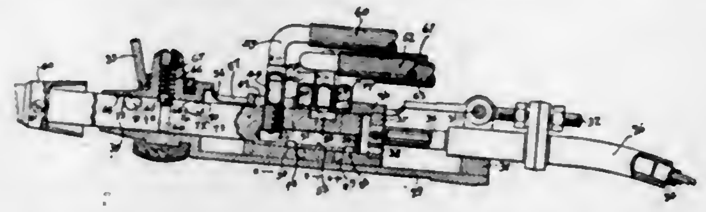
22,892

GEAR SHIFTING MECHANISM

Elmer G. Kesling, Bloomfield, Mo.

Original No. 2,069,526, dated February 2, 1937, Serial No. 32,366, July 20, 1935. Application for reissue December 17, 1938, Serial No. 246,454

18 Claims. (Cl. 74—335)



1. Gear shifting mechanism of the character described comprising shifter elements, an actuator spindle mounted for rocking and longitudinal movements, means secured to said spindle for selectively engaging said elements respectively by rocking movements of said spindle and for shifting the selected element longitudinal movements of said spindle, manual means directly attached to one end of said spindle for selectively rocking said spindle, power means directly attached to the other end of said spindle for imparting shifting movements to said spindle, and means associated with said manual means to control the energization of said power means.

22,893

MANUFACTURE OF AN IMPROVED VITREOUS MATERIAL

Albert William Henry Wedlock, Cirencester, England, assignor, by mesne assignments, to Mycalex Corporation of America, New York, N. Y., a corporation of New York

No Drawing. Original No. 2,032,239, dated February 25, 1936, Serial No. 25,964, June 10, 1935. Application for reissue May 4, 1944, Serial No. 534,178. In Great Britain October 26, 1933

4 Claims. (Cl. 106—39)

1. An insulating material consisting of a mixture of mica with a frit which is a product resulting from heating a mixture of finely powdered boric acid and alkaline carbonates to a sufficiently high temperature to drive off the water of crystallization to produce a frit, said heated mixture containing cryolite.

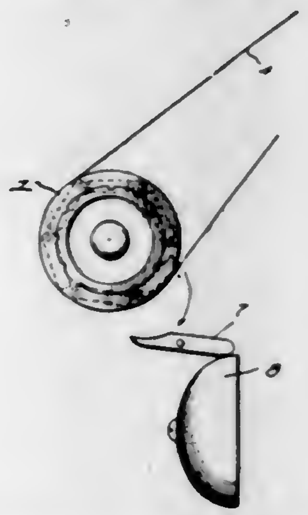
PATENTS

GRANTED JUNE 24, 1947

2,422,650

TYPEWRITER ALARM

Leslie Armstrong, Detroit, Mich.
Application May 8, 1945, Serial No. 592,649
1 Claim. (Cl. 197—189)

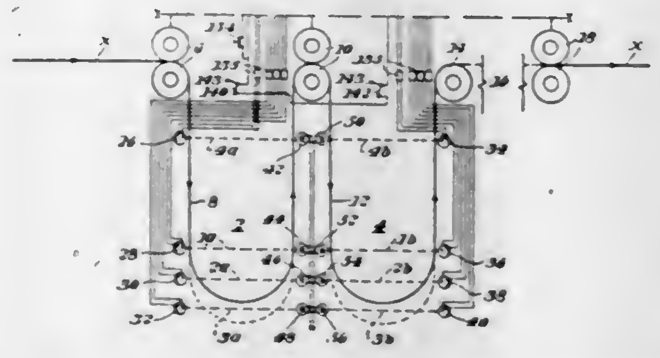


A warning device for a typewriter comprising a peripheral groove in the main roller of the typewriter and normally covered by typing paper, the bottom of said groove being formed by a plurality of flat surfaces of equal length and width, pivot pins bridging the groove adjacent the intersections of said surfaces, an equal plurality of arms each pivoted at one end upon a pin and in certain positions lying below the peripheral surface of the main roller while resting on a flat surface, a lever fulcrumed below said roller swingable in the plane of the groove, the free end of the arm pivoted on the pivot pin nearest the lever fulcrum swinging by gravity into position to engage and operate said lever when the groove portion receiving said arm is uncovered by the passage of the trailing edge of the paper therebeyond, and a signal element actuated by the lever.

2,422,651

MULTIPLE LOOP CONTROL

Maurice D. Ayers, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application December 31, 1943, Serial No. 516,583
16 Claims. (Cl. 271—2.3)

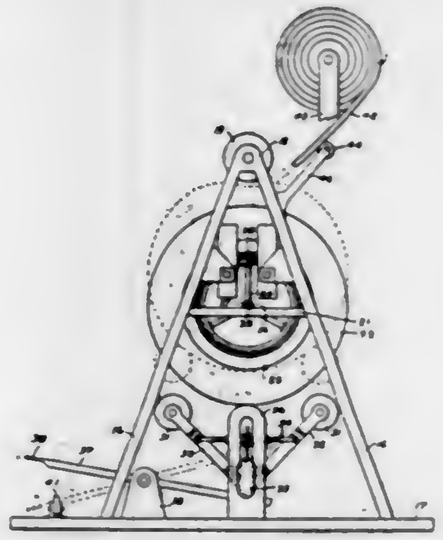


12. Strip handling apparatus comprising means for forming a multiple loop in said strip, individual means for feeding strip to each of said loops at variable speeds, means for feeding the strip from the last of said loops, means for stopping the feeding of the strip to the first loop, and means responsive to said last named means for decreasing the rate of feed to each of the succeeding loops, the feed to each loop being decreased less than the feed to the next succeeding loop.

2,422,652

METHOD FOR APPLYING NEW TREAD MATERIAL TO TIRES

Thomas P. Bacon, Jr., Oakland, Calif.
Application December 7, 1942, Serial No. 468,320
2 Claims. (Cl. 154—14)



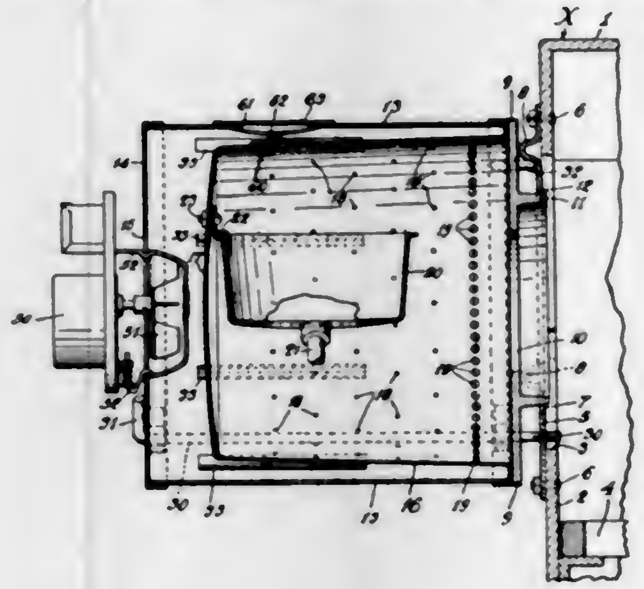
1. The method of covering the traction periphery of a pneumatic tire with a strip of tread material, which comprises the inflating of the tire, the supporting of the inflated tire on a balancing axis central to said tire, the engaging of the portion of the tire below said axis and the lifting of said tire against a surface so as to flatten the portion of the tire engaged at said surface transversely to about the width of said strip, and simultaneously feeding said strip between said surface and said tire at said flattened portion and rotating said tire until the entire traction periphery is covered by said strip.

2,422,653

METHOD OF BURNING LIQUID HYDROCARBON

James L. Breese and Bruce Hayter, Santa Fe, N. Mex., assignors to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Original application May 11, 1942, Serial No. 442,414. Divided and this application November 15, 1943, Serial No. 510,304
5 Claims. (Cl. 158—117.5)

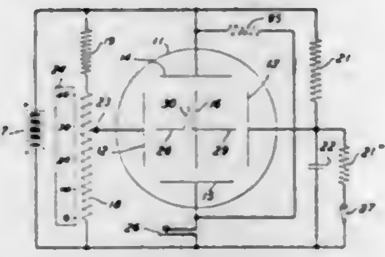
1. The method of combustion which includes providing a volume of liquid hydrocarbon for vaporization in a vaporizing zone, continuously supplying additional liquid hydrocarbon to said zone to take the place of the hydrocarbon vaporized in such zone, maintaining a mixing zone substantially entirely surrounding said zone of vaporization, delivering primary air in relatively small and widely scattered jets, upwardly, downwardly and laterally into said mixing zone, causing the primary mixture thus formed to move away from the vaporizing zone, delivering secondary air into said primary mixture at a zone spaced away from the mixing zone, and burning the final mixture thus formed, and employing part of the heat of combustion of the final mixture to vaporize the liquid hydrocarbon in the vaporizing zone.



2,422,654

TIME MEASURING SYSTEM

Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 19, 1943, Serial No. 499,211
7 Claims. (Cl. 161—15)



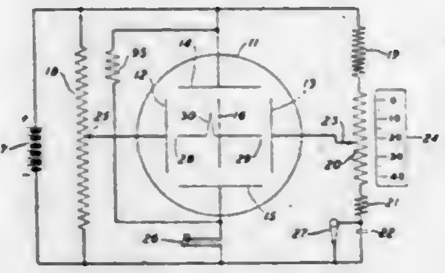
1. A time measuring system comprising a source of electromotive force, a potentiometer and a timing circuit connected in parallel with each other and with said source of electromotive force, said timing circuit consisting of a resistor and a condenser each of fixed value, means to select a variable intermediate point in said potentiometer, and means to indicate the potential difference between the selected point in said potentiometer and a fixed point in said timing circuit.

2,422,655

TIME MEASURING SYSTEM

George Hecht, Astoria, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 16, 1943, Serial No. 502,619
4 Claims. (Cl. 161—15)

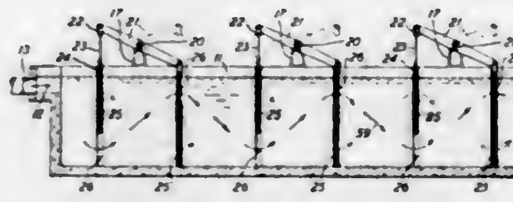
1. A system for measuring recurrent substantially equal time intervals, said system comprising a potentiometer, means to maintain a substantially constant current through said potentiometer initially to establish a reference potential at a given point in the potentiometer, a condenser, means to switch the said current into said condenser at the start of each recurrent time interval, whereby the potentials of a plurality of points in the potentiometer are made to vary as a function of the time, means to select a point in said potentiometer the potential of which varies over a range including said reference potential, means to substantially discharge said condenser after the end of each time interval but before the start of the next, and means to compare the potential of the selected point in the potentiometer with the reference potential at the end of each said time interval, whereby the location of the point selected may be varied along the potentiometer until the change of potential of the selected point in the potentiometer during a time interval to be measured is substantially equal to the difference between the initial potential of the selected point and the reference potential.



2,422,656

APPARATUS FOR EFFECTING CLARIFICATION OF TURBID LIQUIDS

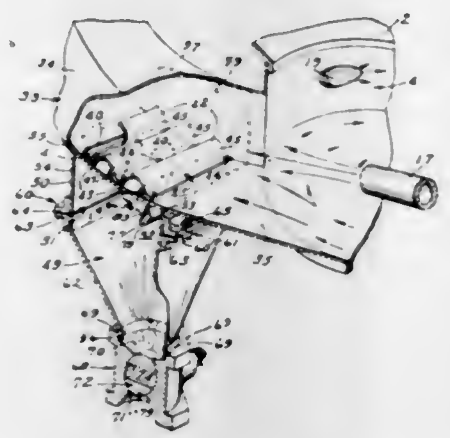
Ralph B. Carter, Jr., Maywood, N. J., assignor to Ralph B. Carter Company, Hackensack, N. J., a corporation of New York
Application July 14, 1944, Serial No. 544,932
7 Claims. (Cl. 259—4)



1. In a flocculating apparatus having a tank or basin having an influent end and an effluent end substantially horizontally aligned for the horizontal flow of a coagulant-treated liquid from the influent end to the effluent end, the combination of a plurality of baffles longitudinally spaced within said tank in the path of said flow to accumulate flocs, the first of said longitudinally spaced baffles disposed to present a barrier to one part of the flow and diverting said flow in one direction and the next of said longitudinally spaced baffles disposed to present a barrier to said diverted flow and diverting said flow in another direction, the diverted flow being at an angle to the horizontal length of the tank, and the flow between two horizontally spaced adjacent baffles being at an angle to the flow between the next two longitudinally spaced adjacent baffles, and intermittently operating actuating means for the baffles to move the first baffle away from its initial floc accumulation position to the initial position of the second baffle, and to move the second baffle from its initial floc accumulation position to the initial position of the first baffle, whereby the floc accumulation during one position of a baffle is moved by the flow after the removal of its barrier action, and the new position of that baffle acts as a barrier for the accumulation of other flocs.

2,422,657
HYDRAULIC SEPARATION OF STONES FROM PEAS

James A. Cleveland, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application October 18, 1943, Serial No. 506,696
3 Claims. (Cl. 209—458)



1. A gravity separation apparatus comprising an inclined enclosed conduit through which liquid may be passed to hydraulically convey material entrained in the liquid from a lower to a higher level, said conduit having a plurality of upwardly and forwardly projecting riffles each extending substantially across its entire bottom, said riffles being so disposed relative to each other as to form an open mouthed liquid quiescing pocket therebetween into which heavier weight material will settle, said conduit having an opening extending entirely across its bottom at the base of said pocket for discharging the heavier weight material gravitating into said pocket.

2,422,658
AMINE SALTS OF DINITROPHENOLS

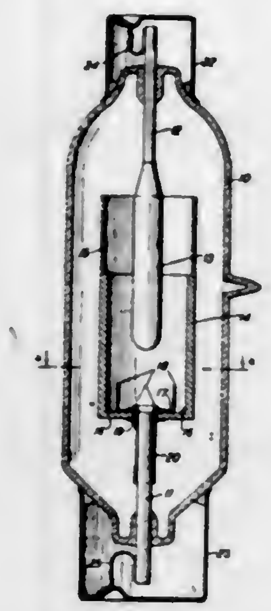
Gerald H. Coleman and Frank B. Smith, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application November 21, 1941, Serial No. 419,856
3 Claims. (Cl. 260—567.5)

1. An N-benzyl-alkylamine salt of 2.4-dinitro-6-cyclohexyl-phenol.

2,422,659
SPARK GAP DISCHARGE DEVICE

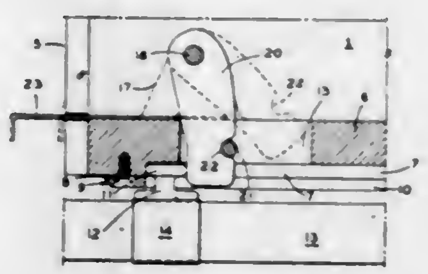
Charles Depew, Oakland, N. J., and Wallace A. Depp, Elmhurst, and Alfred N. Luce, Port Washington, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 21, 1943, Serial No. 499,502
13 Claims. (Cl. 250—27.5)

1. An ionic pulsing relay having high breakdown periodicity characteristics comprising a vessel containing a gaseous filling substantially at pressures from one-half to several atmospheres, individual conductors sealed in each end of said vessel and extending along the axis thereof, a rod-shaped anode carried by one of said conductors, and an elongated cathode surface concentrically surrounding said anode across a short gap and supported by the other conductor, the radial distance between the inner cathode wall and the lateral surface of said anode being uniform to distribute the striking of the discharge over an annular path, said cathode having a depending cylindrical portion surrounding the terminal portion of said anode at a greater distance than the striking discharge path to prevent the extension of the spark discharge to the wall of said vessel.



2,422,660
AIRCRAFT SUPPORT FOR ROCKET PROJECTILES

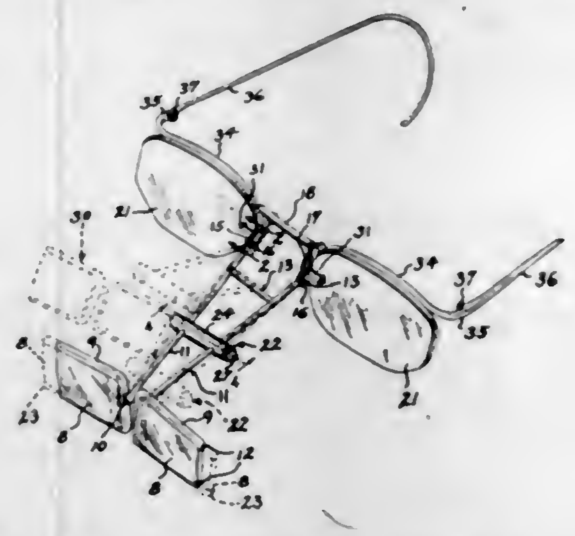
Robert M. Elder, John J. Domoj, and Edward W. Wise, United States Navy, and John J. Konikoff, United States Army, Philadelphia, Pa.
Application September 19, 1945, Serial No. 617,403
4 Claims. (Cl. 89—1.7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device of the character described comprising a structure arranged to be secured in a fore and aft direction beneath an airplane, means providing an elongated channel longitudinally along the underside of said structure to slidably receive and retain therein the supports of a projectile, said channel being open at the forward end and closed at the rearward end thereof, a pawl pivotally carried by said structure and arranged in one position thereof to project into said channel forwardly of a projectile support positioned therein, and a pin carried by said structure and engaging said pawl when in said one position to prevent pivotal movement thereof and lock the projectile support against displacement forwardly outwardly of said channel, said pin having a shear strength sufficient to retain said pawl and projectile support against operational deceleration and acceleration forces acting thereon but insufficient to retain said pawl and support when the projectile is fired.

2,422,661
BINOCULAR MAGNIFYING LENS HOLDER

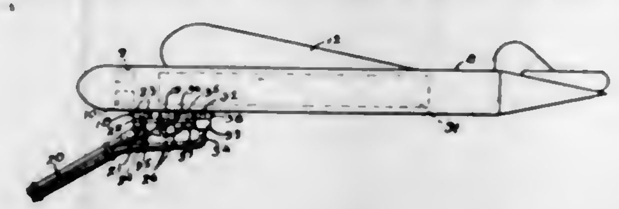
Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 24, 1944, Serial No. 546,301
10 Claims. (Cl. 88—41)



2. A device of the character described comprising a supporting frame embodying spaced bar-like members, lens-holding members adjacent one end of said bar-like members for supporting lenses, a member having spaced slideways therein in which the bar-like members are positioned, resilient means extending in a direction longitudinally of and carried by said member for resiliently forcing engagement portions adjacent each end of said resilient means into engagement with and for retaining said bar-like members against motion under the normal action of the resilient means with said portions being movable toward each other an amount sufficient to relieve the retaining action and thereby permit the said member and resilient means carried thereby to be substantially freely moved longitudinally of said bar-like members.

2,422,662
GLIDER

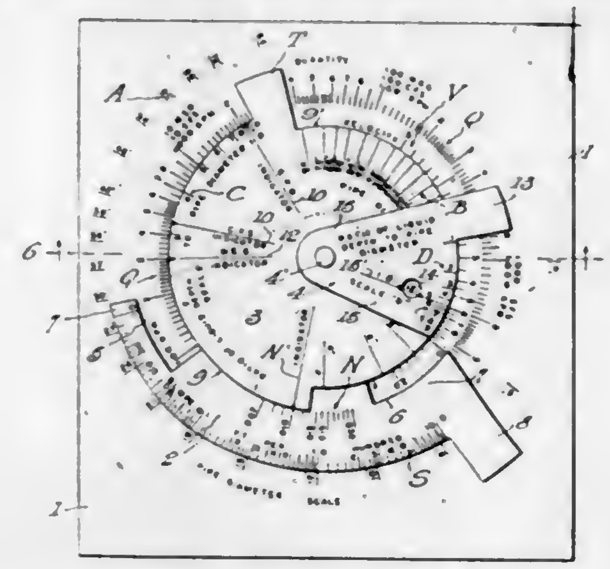
Delmer S. Fahrney, United States Navy
Application October 7, 1943, Serial No. 505,320
7 Claims. (Cl. 244—3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



7. In combination with an aircraft, a glider, a connection from said aircraft releasably attached to said glider, automatic flight control means in said glider for operation when said glider is detached, said connection including a releasable coupling to said glider, means on said connection operated by control means in aircraft for releasing said coupling and connection from said glider and for simultaneously turning on said automatic flight control means in said glider, operating devices carried by said glider having control means for their operation, and additional releasable means forming a part of said coupling for operating said control means, additional means in said aircraft for controlling said operating means in said coupling.

2,422,663
LIQUID FLOW CALCULATOR

James W. Feild, Alexandria, Va.
Application March 1, 1946, Serial No. 651,407
7 Claims. (Cl. 235—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



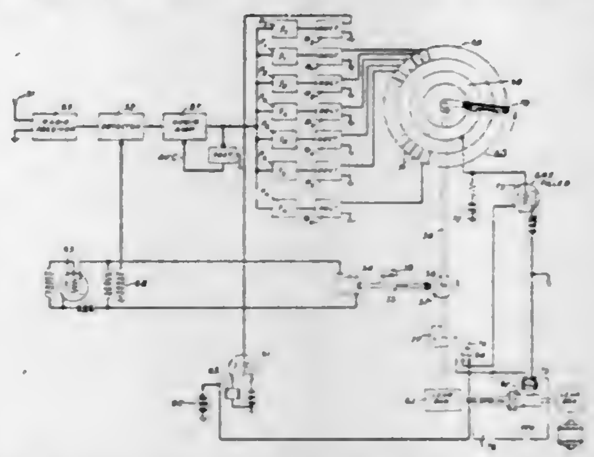
1. In a calculator, a base having a plurality of scales thereon graduated logarithmically along arcs of concentric circles, a substantially semicircular disc section, a disc member and a radial arm concentrically and rotatably mounted on said base, an outer scale graduated about the outer edge of said disc section and cooperating with one of said scales on the base and an inner scale adjacent to said outer scale provided on the disc section, said disc member having a portion of maximum radius and a portion of minimum radius, a scale on said portion of minimum radius cooperating with another scale on said base and indicator pointers provided on said portion of maximum radius, certain of said indicator pointers cooperating with a third scale on said base and another of said indicating pointers cooperating with the inner scale on said disc section, said radial arm having windows therein, one of said windows overlying the outer scale of said disc section and another of said windows overlying the first-mentioned scale of said base, a scale provided on said arm adjacent to the window overlying the outer scale of the disc section, said scale on the arm cooperating with the outer scale on the disc section through said last-mentioned window, whereby upon the rotation of said disc section, disc member and radial arm with respect to each other and with said base in a certain relation correlated values are indicated by said scales and pointers.

2,422,664
WOBBLED RADIO CARRIER COMMUNICATION SYSTEM

Carl B. H. Feldman, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 12, 1944, Serial No. 544,493
11 Claims. (Cl. 250—8)

1. A radio transmitting and receiving system including in combination a transmitting station adapted to transmit a wave of radiant energy having its frequency modulated over a wide band intermittently in a saw-tooth manner in accordance with signals, a receiving station adapted to receive the transmitted wave in the form of a plurality of duplicate waves having different delays characteristic of the different travel times

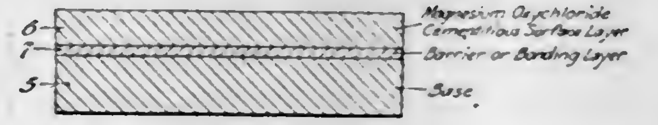
of the various space paths traversed by said duplicate waves, said receiving station comprising a beating oscillator having its frequency modulated over a wide band in a saw-tooth manner, a detector for combining said duplicate received waves with the output of the beating oscillator, a plurality of narrow band-pass filters, each of said filters having limits different from all the other filters, connecting means for connecting the output of the detector to each of said filters in parallel, a plurality of rectifiers, circuit means for connecting the output of each of said filters to a different one of said rectifiers, a scanning device, and connecting means for separately connecting the output of each of said rectifiers to the scanning device, said scanning device being adapted to scan each of said rectified filter outputs in respect to their magnitudes for determining whether at least one of the rectified filter outputs has a magnitude in excess of a preassigned minimum value.



2,422,665
CEMENTITIOUS SURFACE COVERING

Russell H. Fredrickson, Minneapolis, and Henry N. Stephens, White Bear Lake, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application August 18, 1943, Serial No. 499,084
1 Claim. (Cl. 94—19)



A cement floor, wall or the like comprised of a substantially continuous base surface, and a magnesium oxychloride cementitious wearing surface adhesively secured to said base surface by means of a synthetic elastomer, said elastomer comprising an interpolymer of methyl acrylate-ethyl acrylate.

2,422,666
POLYCARBONAMIDES MODIFIED BY CHROMIC SALTS

Calvin S. Fuller, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application June 20, 1942, Serial No. 447,837
7 Claims. (Cl. 260—78)

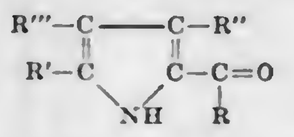
1. A tough, elastic, rubbery, substantially infusible synthetic linear polycarbonamide containing a finely dispersed chromic salt, which is the product of the process comprising contacting an amorphous, fusible, water-insoluble, synthetic linear polycarbonamide, the molecules of which, aside from functional end groups, consist of bivalent hydrocarbon radicals joined into linear chains by carbonamide linkages, with a finely dispersed chromic salt as the sole ingredient capable of rendering said polyamide substantially infusible, said chromic salt being one which readily forms an ammine stable at ordinary temperatures and which is soluble in and non-reactive with said polycarbonamide, said chromic salt being present in an amount sufficient to cause substantial infusibility of said polycarbonamide.

2,422,667
SUBSTITUTED 2,4-DIARYL-PYRROLE COMPOUNDS AND METHOD OF PRODUCING SAME

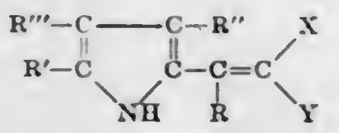
Eric Paul Goodings and Maurice Arthur Thorold Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application July 9, 1943, Serial No. 494,122. In Great Britain July 13, 1942
3 Claims. (Cl. 260—240)

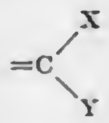
2. A process which comprises causing to interact two compounds one only of which contains a 2:4-diaryl-pyrrole nucleus and has the general formula:



where R′ and R″ stands for aryl radicals, R″′ is a member of the group consisting of hydrogen, aryl-, alkyl-, alkylamino-, benzylideneamino-, and acylamino-, R is a member of the group consisting of hydrogen, alkyl-, aralkyl-, aryl-, and heterocyclic radicals and the other is a reactive methylene compound containing at least one reactive methylene group and recovering an asymmetrical chemical compound which contains a single 2:4-diaryl-pyrrole nucleus and has the general formula:



where the R's have the aforesaid significance and where



$$=C\begin{matrix}\diagup X\\ \diagdown Y\end{matrix}$$

stands for the divalent radical of said reactive methylene compound which remains after splitting off the two reactive hydrogen atoms and wherein X and Y constitute the atoms necessary to complete said radical.

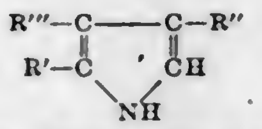
2,422,668
PYRROLE COLORING MATTERS AND METHOD OF MAKING SAME

Eric Paul Goodings and Maurice Arthur Thorold Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

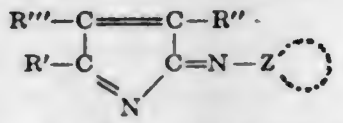
No Drawing. Application July 9, 1943, Serial No. 494,123. In Great Britain July 13, 1942
3 Claims. (Cl. 260—240)

2. A process which comprises causing to interact two compounds one only of which contains a

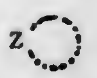
2:4-diaryl-pyrrole nucleus and has the general formula:



where R′ and R″ stand for aryl radicals, R″′ stands for a member of the group consisting of hydrogen, aryl-, alkyl-, alkylamino-, benzylideneamino-, and acylamino-radicals and the other is a nitroso compound and recovering an asymmetrical compound of the formula:



wherein the R's have the aforesaid significance and

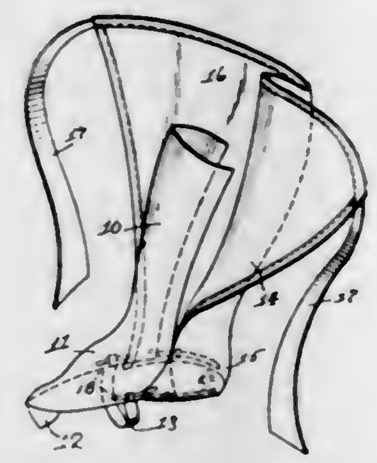


is a cyclic ring structure linked through a carbon atom of its ring to the pyrrole nucleus through the =N— radical.

2,422,669
STOCKING GUARD

Helene B. Gygi, McHenry, Ill., assignor to Melville Keim, Chicago, Ill.

Application September 17, 1945, Serial No. 616,864
3 Claims. (Cl. 36—2)



1. A stocking guard comprising a front part adapted and arranged to fit over the front and foot of a leg; a rear part adapted and arranged to fit over the rear of a foot and leg; elastic straps attached to each of said parts; a top portion on one of said parts adapted to encompass the leg; and tie members carried by the other part arranged and adapted to secure said parts in place.

2,422,670
SELECTIVE DEMETHYLATION OF PARAFFINIC HYDROCARBONS

Vladimir Haensel and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application February 6, 1943, Serial No. 475,004
14 Claims. (Cl. 260—683.6)

14. A process for producing a lower molecular weight saturated hydrocarbon from a paraffin containing a quaternary carbon atom having attached thereto an alkyl radical of at least two carbon atoms, which comprises commingling said paraffin with hydrogen in the amount of at least about 1.6 mols of hydrogen per mol of the paraffin, subjecting the resultant mixture to reaction in the presence of a hydrogenating catalyst at a temperature of from about 205° C. to about 350° C. and under a pressure of from 15 to about 3000 pounds per square inch to replace with hydrogen the terminal methyl group of said alkyl radical of the paraffin molecule, terminating the reaction of hydrogen with said paraffin prior to the splitting from the paraffin molecule of an alkyl group of more than one carbon atom and prior to scission of any of the bonds of said quaternary carbon atom, whereby to lower the number of carbon atoms of the paraffin molecule solely by demethylation while retaining its quaternary carbon configuration, and recovering as the principal product of the process the resultant demethylated paraffin having the quaternary carbon atom configuration.

2,422,671
PROCESS FOR LOWERING THE MOLECULAR WEIGHT OF NONAROMATIC HYDROCARBONS

Vladimir Haensel and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

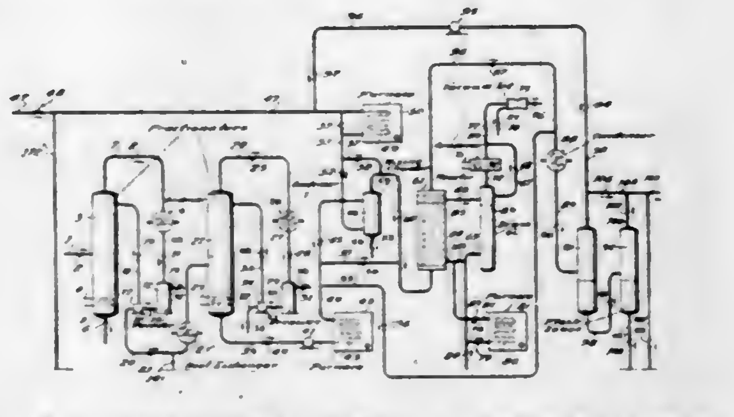
No Drawing. Application July 8, 1943, Serial No. 493,866
15 Claims. (Cl. 260—683.6)

8. A process for lowering the molecular weight of a saturated hydrocarbon containing an alkyl radical of more than one carbon atom, which comprises reacting said saturated hydrocarbon with hydrogen in the presence of a nickel-containing catalyst at a temperature of from about 300° F. to about 700° F. to replace with hydrogen a methyl group of said alkyl radical, said catalyst having been previously reduced with hydrogen at a temperature in the approximate range of 800–1100° F. to lower its catalytic activity for decomposing said saturated hydrocarbon, effecting the reaction of hydrogen with said saturated hydrocarbon under conditions regulated to prevent the splitting from the latter of an alkyl group of more than one carbon atom, and recovering the resultant lower molecular weight saturated hydrocarbon.

2,422,672
SELECTIVE DEMETHYLATION OF TRIMETHYLPENTANES TO FORM TRIPTANE

Vladimir Haensel and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application September 30, 1943, Serial No. 504,456
3 Claims. (Cl. 260—683.6)



1. A process for the production of triptane from an isooctane fraction comprising 2,2,4-, 2,2,3-, 2,3,4-

and 2,3,3-trimethylpentanes and higher boiling compounds, which comprises fractionating said isooctane fraction to separate higher boiling compounds from the trimethylpentanes, further fractionating the trimethylpentanes to separate 2,2,4-trimethylpentane from a fraction comprising the other trimethylpentanes, heating the last mentioned fraction to a selective demethylation temperature, simultaneously heating a hydrogen fraction to substantially the same temperature, commingling the heated fractions and contacting the same with a nickel catalyst at a temperature of the order of 500° F. and at a superatmospheric pressure of the order of 500 pounds per square inch, flashing and reducing the pressure of the products of said demethylation to a pressure of the order of 200 pounds per square inch to separate a hydrogen fraction, recycling the hydrogen fraction to said demethylation, further reducing the pressure of said products to a pressure of the order of 70 pounds per square inch to separate a methane fraction, fractionating the remaining products to separate an overhead fraction containing 2,2- and 2,3-dimethylbutanes from higher boiling products, further fractionating the higher boiling products to separate a triptane fraction from higher boiling trimethylpentanes.

2,422,673
TREATMENT OF ALKYL AROMATIC HYDROCARBONS

Vladimir Haensel and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 27, 1943, Serial No. 507,890

10 Claims. (Cl. 260—672)

1. A process for producing a lower molecular weight alkyl aromatic hydrocarbon from an aromatic hydrocarbon having an alkyl side chain of at least 2 carbon atoms, which comprises reacting the last-named hydrocarbon with hydrogen in the presence of a catalyst comprising a metal of the iron group at a temperature of from about 350° F. to about 650° F. and a pressure not greater than about 1000 pounds per square inch to remove at least one methyl group from said alkyl side chain while retaining a portion of said side chain on the aromatic nucleus.

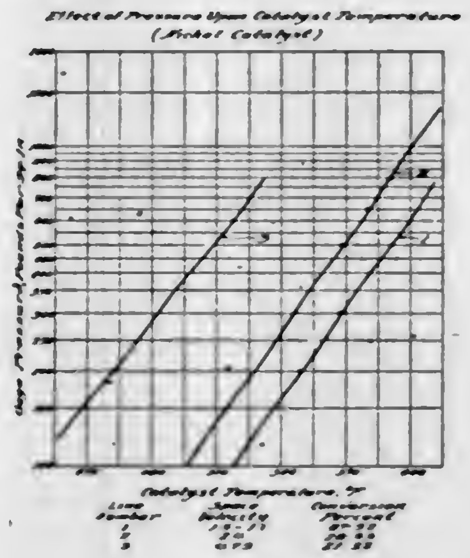
2,422,674
SELECTIVE DEMETHYLATION OF SATURATED HYDROCARBONS

Vladimir Haensel, Clarendon Hills, and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application October 31, 1944, Serial No. 561,186

14 Claims. (Cl. 260—683.6)

1. A hydrocarbon conversion process which comprises, reacting hydrogen with a hydrocarbon selected from the group consisting of a paraffin with more than 4 carbon atoms per molecule, an alkyl aromatic having an alkyl group containing at least 2 carbon atoms, and a saturated alkyl hydroaromatic having an alkyl group containing at least 2 carbon atoms in the presence of a hydrogenating catalyst at a temperature in the approximate range of 350–750° F., a total pressure in the range of from atmospheric to about 3000 pounds per square inch, a molar ratio of hydrogen to hydrocarbon of from about 1.7 to about 11.2, and a liquid hourly space velocity of from about 0.5 to about 8.0, said temperature and total pressure and the hydrogen partial pressure being chosen on the basis of a directly proportional relationship between the temperature and the logarithm of the pressures over said ranges so that a higher temperature within said temperature range is employed with a higher total pressure and a higher partial pressure to effect the splitting from said hydrocarbon, in the form of methane, of only a methyl group or groups.



2,422,675
SELECTIVE DEMETHYLATION OF SATURATED HYDROCARBONS

Vladimir Haensel, Clarendon Hills, and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 29, 1945, Serial No. 638,482

10 Claims. (Cl. 260—683.6)

7. A process for demethylating a saturated hydrocarbon to produce therefrom a saturated hydrocarbon of lower molecular weight which comprises reacting a saturated hydrocarbon having at least 5 carbon atoms per molecule including an alkyl group of at least 2 carbon atoms with hydrogen in the presence of a catalyst comprising a metal selected from the group consisting of nickel and cobalt at a catalyst temperature of from about 150° C. to about 385° C. and defined by the equation:

$$T=0.26[T_{CR}-100]+k\log_{10}[(14.7\,P)^{2.98}(SV)^{1.34}C]$$

where

T=catalyst temperature in °C.;

T_{CR}=a temperature of from 425° to 650° C. at which the catalyst was previously reduced;

k=18.4 to 23.3 at an initial absolute partial pressure of hydrogen above 3.45 atmospheres;

k=25 to 30.7 at an initial absolute partial pressure of hydrogen below 3.45 atmospheres;

P=the initial absolute partial pressure of hydrogen in atmospheres;

(SV)=the hourly liquid space velocity at which the saturated hydrocarbon is charged to contact with the catalyst; and

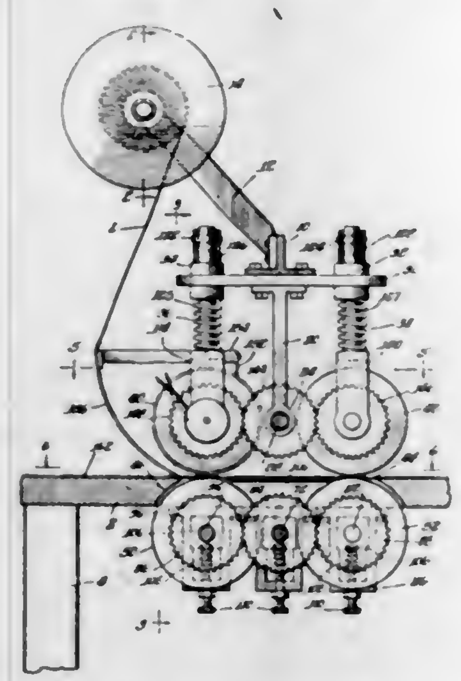
C=the conversion of the charged saturated hydrocarbon into lower boiling saturated hydrocarbons expressed as per cent by volume of the charged hydrocarbon.

2,422,676
MEANS FOR PRODUCING A WATERPROOF SEAM FOR POLYVINYL RESINOUS COATED FABRICS

Howard H. Haman and John A. Ritzler, Three Oaks, Mich., assignors to The Warren Featherbone Co., Three Oaks, Mich., a corporation of Michigan

Application June 9, 1944, Serial No. 539,457

7 Claims. (Cl. 154—42)



1. An apparatus for forming a waterproof seam for interconnecting two fabrics coated with polyvinyl resinous waterproofing material and having a row of stitching passing through marginal portions of said coated fabrics, and wherein a fabric tape coated with polyvinyl resinous material overlies the stitched seam with the coating of the tape contacting the stitched seam, comprising in combination a support, means on said support for uninterruptedly feeding the seamed and taped fabric along a predetermined path relative to said support, and means mounted on said support in the path of movement of the travelling seam of said fabrics for heating and pressing the seam sufficiently to cause the flow of a portion of the polyvinyl resinous material at least partially into the perforations of the stitching to seal the same and to cure that portion of the polyvinyl resinous material between the contacting fabrics and the tape whereby upon removal of said heat and pressure said seam subsequently sets and provides a bonded waterproofing junction between the two fabrics, said heating and pressing means comprising opposed, hard faced, arcuate surfaces moving at the same rate of travel as the travel of the seam, one of said arcuate pressing means being formed of relatively yieldable sections, whereby to provide uniform pressure throughout the cross sectional area of the pressing means irrespective of the variations in thickness of the seam.

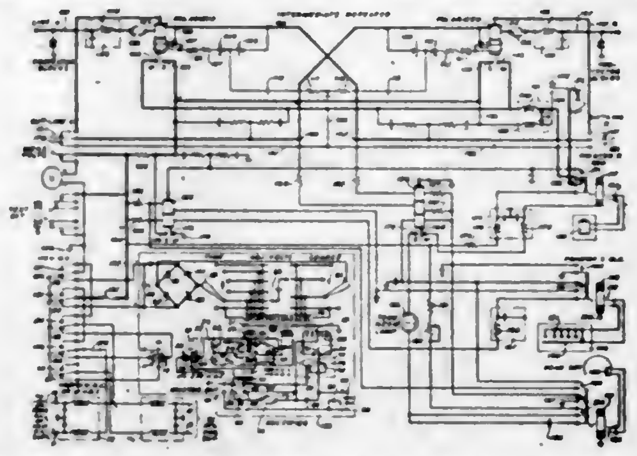
2,422,677
INTERMEDIATE TELEGRAPH REPEATER FOR LONG LINE SPANS

Richard B. Hearn, Hollis, N. Y., and Carleton B. Sutliff, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 1, 1944, Serial No. 543,112

12 Claims. (Cl. 178—71)

1. In a direct current telegraph system, a pair of terminal telegraph repeaters, an intermediate telegraph repeater, a telegraph path interconnecting said terminal repeaters extending through said intermediate repeater, means in said system for transmitting polar telegraph communication signals from said terminal repeaters toward said intermediate repeater, means in said systems for transmitting a first and a second communication signal each of the same polarity but each of different magnitude from said intermediate repeater toward said terminal repeaters and a monitoring circuit bridged directly to said intermediate repeater for monitoring on signals transmitted over said system.

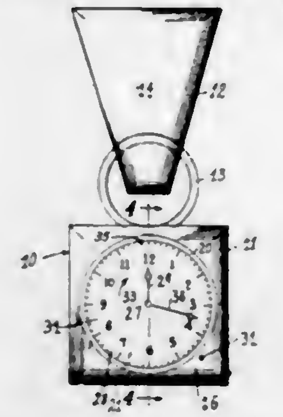


2,422,678
COMBINATION COIN HOLDER, DATE DIAL, AND PHOTO LOCKET

John Herck, New York, N. Y.

Application May 1, 1945, Serial No. 591,301

5 Claims. (Cl. 63—2)



1. In a device of the type described, a housing, registering openings being provided in two opposite sides of the housing, a rotatable disk inside one of said openings, a second rotatable disk inside of the other opening, a resilient member interposed between said two disks urging them in opposite outward directions, limiting means at each opening for each disk for their outward travel whereby each disk will be pressed against said limit and prevented of rotation, cooperating markings on the exposed portion of one of the disks and on the housing around the opening for the same, whereby upon an inward pressing of the respective disk against the resilient member, the same may be rotated, and selected markings on the disk and on the housing may be placed in registering relation for a predetermined purpose, like indicating the time for an appointment made, flat objects, like coins, to be distributed being adapted to be placed between the other disk and its limit normally held by the pressure of said resilient member against said limiting means, and means on said limits to permit the removal of the outermost flat object, like a coin, by transverse sliding thereof from between the respective disk and limit.

2,422,679

PROCESS FOR PREPARING ENOL ESTERS OF ALDEHYDES

David C. Hull, Oak Ridge, and Albert H. Agett, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 3, 1945, Serial No. 620,166

10 Claims. (Cl. 260—494)

1. A process for preparing an α,β-unsaturated carboxylic ester comprising reacting a ketene with an aldehyde which contains at least two carbon atoms and which does not contain a conjugated system of double bonds in which the double bond of the aldehyde group is a part, and which contains at least one hydrogen atom on the carbon atom adjacent to the aldehyde group, in the presence of an acid catalyst, and separating the α,β-unsaturated carboxylic ester from the other reaction products.

2,422,680

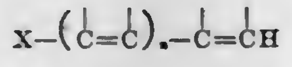
PROCESS FOR PREPARING HYDROPHILIC COLOR-FORMER SILVER HALIDE DISPERSIONS

Andrew B. Jennings, New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 1, 1944, Serial No. 538,336

7 Claims. (Cl. 95—7)

1. In a process of preparing light-sensitive silver halide emulsions for coating photographic layers, the step which comprises condensing a polyfunctional condensation agent taken from the class consisting of aldehydes and dimethylol derivatives of amides and ureas and ethers of such dimethylol derivatives with a color former having as an active coupling group a structure of the general formula



$$X-\left(\overset{|}{C}=\overset{|}{C}\right)_n-\overset{|}{C}=\overset{|}{C}H$$

where X is a member taken from the group consisting of hydroxyl and primary and secondary amine radicals and *n* is a number taken from the group consisting of 0 and 1 and a hydrophilic aliphatic film-forming hydroxyl polymer containing more than 200 carbon atoms and at least one hydroxyl group for each 8 carbon atoms, by causing said three components to interact in a solution of said polymer which has light-sensitive silver halide grains intimately dispersed therethrough.

2,422,681

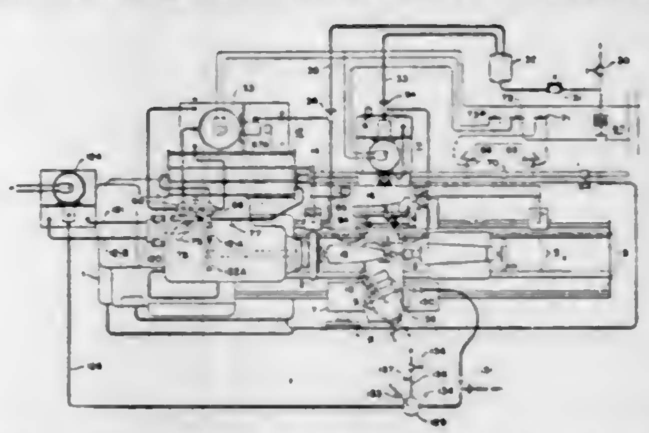
MACHINE TOOL CONTROL

Clarence Johnson, South Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Original application September 23, 1941, Serial No. 412,017, now Patent No. 2,372,427, dated March 27, 1945. Divided and this application February 1, 1943, Serial No. 474,273

5 Claims. (Cl. 82—21)

1. In combination with a lathe having a rotatable live center, a hydraulic motor for rotating the live center, a carriage and a cross-slide mounted on said carriage, a nozzle having a port to atmosphere through which fluid is continuously discharged, means for variably throttling the discharge of fluid from said nozzle in accordance with the relative positions of said carriage and cross-slide to thereby produce corresponding variations in pressure in said nozzle, and means under the control of said pressure for regulating the speed of said motor.



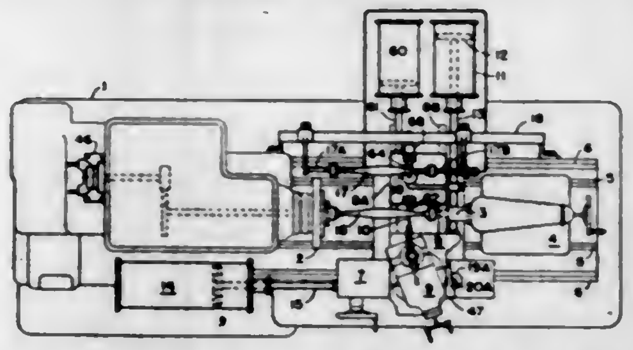
2,422,682

MACHINE TOOL CONTROL

Clarence Johnson, South Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application May 27, 1944, Serial No. 537,606

13 Claims. (Cl. 82—14)



1. In a lathe having a relatively movable tool and work piece, in combination, a sample having the desired shape of the work piece and positioned in predetermined relation with respect to the work piece in the lathe, a tracer arranged to scan the sample as the tool traverses the work piece, motive power means under the control of said tracer to relatively move the tool and work piece, a travel rest adapted to move longitudinally of the work piece and continuously back-up the work piece substantially in line with the cutting edge of the tool, a travel member adapted to continuously scan the sample in line with said travel rest, and means under the control of said member for urging the travel rest against the work piece to oppose tool cutting pressure.

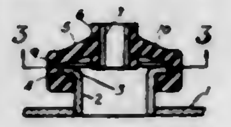
2,422,683

RUBBER MOUNTING

Gustav H. Kaemmerling, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania.

Application September 1, 1944, Serial No. 552,298

8 Claims. (Cl. 248—358)



1. A mounting comprising a rubber disk having attachment provisions at the center surrounded by an inwardly presented annular groove for receiving an annular supporting member, and interlocking projections and depressions in said groove and member.

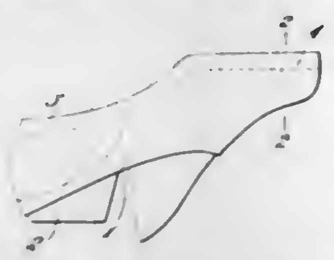
2,422,684

FORCE LASTED SHOE

Jacob S. Kamborian, West Newton, Mass., and Wilfred T. Tracy, New York, N. Y., said Tracy assignor to said Kamborian

Original application September 22, 1943, Serial No. 503,336. Divided and this application May 23, 1945, Serial No. 595,330

5 Claims. (Cl. 36—19.5)



1. A force lasted shoe of the kind having a sock lining, a multi-ply upper comprising a lining and an outer element, a heel stiffener flanged at its lower edge, and a sole member, characterized in that the margin of the sock lining is secured to the lower edge of the lining only of the upper at the heel portion of the shoe, that the sole member is secured to the bottom surface of the sock lining and extends over the secured edges of the sock lining and the lining of the upper, that the outer element of the upper has an integral extension which constitutes a wrapper that extends beyond the secured edges of the sock lining and the lining of the upper and is lasted in against the bottom surface of the sole member whereby the edge of the sole member is covered and concealed by such extension and that the heel stiffener is inserted between the lining and the outer element of the upper with its flange bearing against the secured edges of the sock lining and the lining of the upper.

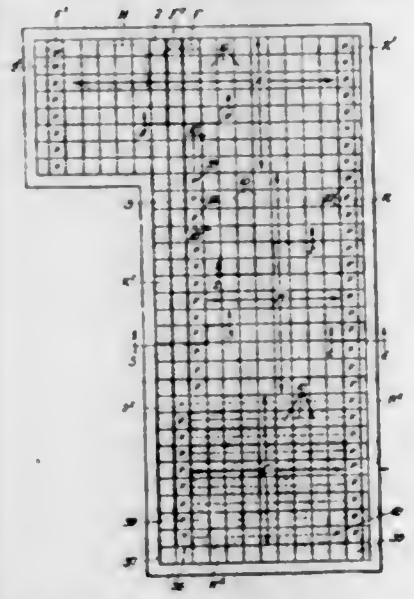
2,422,685

RADIANT HEATING FOR BUILDINGS

George F. Keck, Chicago, Ill., assignor to Clay Products Association, Chicago, Ill., a corporation of Illinois

Application March 27, 1944, Serial No. 528,334

12 Claims. (Cl. 237—69)



3. In a multiple loop-type circulatory and radiant heating system for buildings having a multiple room floor area, means for heating air for circulation through the system, means defining a large number of separate and parallel hot air passages beneath the surface of said multiple room floor area, which passages are arranged in two or more groups located at different distances from said heating means, means communicating with said heating means and defining separate supply headers for each of said groups, which headers are arranged at right angles to the passages in the groups and lead to corresponding ends of the same from said heating means, and means defining return headers at the far ends of said passages for returning the spent air to said heating means, said header defining means being disposed in said floor area substantially coplanar with said passage defining means and coacting therewith in affording a load supporting surface.

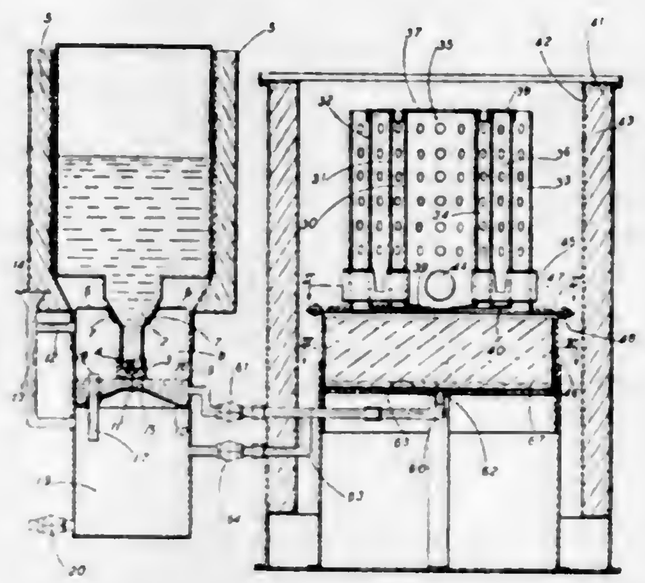
2,422,686

BURNER CONSTRUCTION FOR VAPORIZABLE LIQUID FUEL

Albert Joseph Laliberte, Naugatuck, Conn., assignor to Safety-Fuel Incorporated, West Cheshire, Conn., a corporation of Connecticut.

Application July 1, 1943, Serial No. 493,058

3 Claims. (Cl. 158—96)



1. In a burner construction of the vaporized normally liquid flammable fuel type which burner construction has means defining a combustion space for the combustion of an intimate mixture of vaporized fuel and air, the improvement comprising a fuel receptacle, a capillarily porous substantially compact material defining, with at least a portion of its upper surface, a closure for said receptacle, substantially air excluding means for feeding fuel vapors from said receptacle, above said closure, to said combustion space, means for feeding fuel into said receptacle below said closure, and means for maintaining the normal fuel feed level in said receptacle below said closure and in contact with said material.

2,422,687

GYROCOMPASS AMPLIFIER CIRCUIT

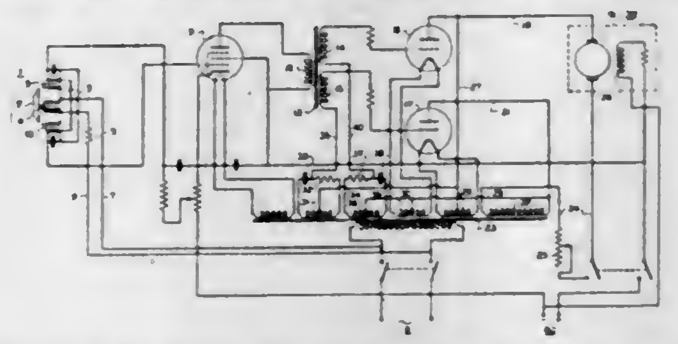
James R. Lilienthal, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application February 3, 1943, Serial No. 474,626

2 Claims. (Cl. 172—239)

1. In an amplifier circuit for a gyrocompass, a source of alternating current, a pair of electron discharge tubes each including a control electrode and plate circuit elements, the plate elements thereof being connected in out-of-phase relation to said source of current, means for supplying alternating bias potentials to the control electrodes of said tubes in such phase relation to the plate potentials thereof as to provide firing of

both tubes on positive plate half cycles for all values of signal voltage applied to the control electrodes of said tubes, means for supplying signal voltages to the control electrodes of said tubes, and a direct-current motor having its armature connected in the plate circuits of both of said tubes but in opposite relation to the plate elements so that the respective plate currents of said tubes flow in opposite directions through said armature and tend to rotate said motor in opposite directions.



2,422,688
COMPOSITION COMPRISING COLLOIDAL SILVER SALT OF SULFA DRUG

William A. Lott, Maplewood, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Application October 16, 1942, Serial No. 462,293

7 Claims. (Cl. 167—51.5)

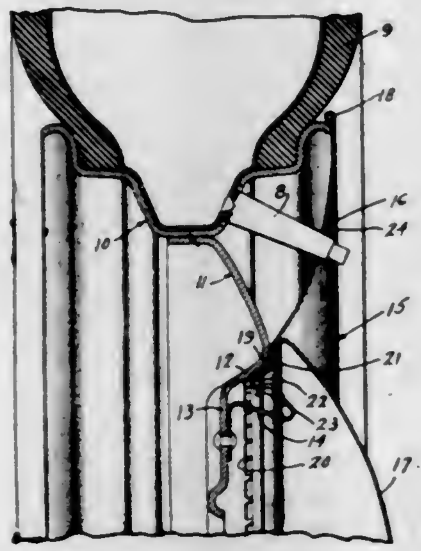
1. A composition essentially comprising a colloidal silver salt of a C-(p-amino-benzene-sulfonamido) - substituted (N-hetero) - monocyclic compound and a protective colloid.

2,422,689
WHEEL COVER

George Albert Lyon, Allenhurst, N. J.

Application April 17, 1944, Serial No. 531,335

11 Claims. (Cl. 301—37)



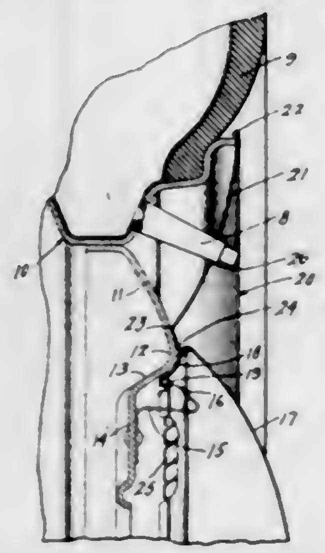
1. In a wheel structure including a wheel having a multi-flanged tire rim part and a body part with a depressed central portion, a cover assembly therefor comprising an outer annular member of metallic sheet having an outer margin overlying side flanges of the rim part and an inner portion having flexible fingers formed to be stressed into nested engagement with said depressed portion, and a central hub cap constructed to be snapped into retained engagement with said depressed portion and having an outer margin overlapping said inner margin and including an underturned skirt bearing against and deflecting said fingers tightly against said body part whereby said annular member can accommodate allowable manufacturing tolerances in said wheel parts.

2,422,690
VEHICLE WHEEL COVER

George Albert Lyon, Allenhurst, N. J.

Application May 12, 1945, Serial No. 593,477

1 Claim. (Cl. 301—37)



In a cover structure for a wheel including tire rim and body parts and a central detachable hub cap, wherein the body part is formed with a rounded dished nose portion and the hub cap cooperates with the axially outer extremity and adjacent radially inner area of the nose portion, a cover member cooperable with the outer side of the wheel and comprising an annulus extending generally radially inwardly and axially rearwardly from an outer edge of the rim to a point of bearing on the nose portion spaced substantially axially inwardly and radially outwardly of the nose extremity and being of such configuration as to appear in use to be a continuation of the side wall of the tire such that the tire appears to extend to substantially the nose of the body part, said cover annulus having a concave-convex annular inner marginal portion extending from said point of bearing axially outwardly and radially inwardly and then generally axially inwardly and generally conforming for nested engagement with said nose portion, the axially inner portion of said margin being radially slotted to divide the same into resilient fingers adapted for resilient deflection to accommodate variations in the internal diameter of said nose portion and in the size of the hub cap so as to be pressed into engagement with said nose portion by the hub cap when assembled therewith.

2,422,691
PRISMATIC RADIATING NAVIGATIONAL SYSTEM

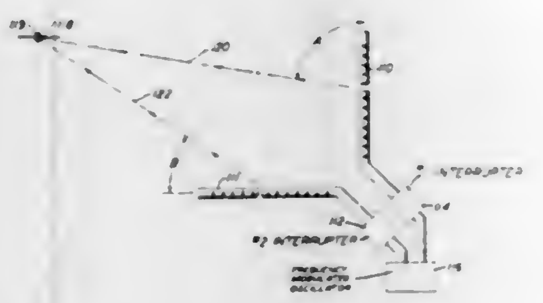
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original application March 1, 1941, Serial No. 381,236, now Patent No. 2,408,435, dated October 1, 1946. Divided and this application June 22, 1942, Serial No. 447,960

6 Claims. (Cl. 250—11)

1. In a radio directional system, a prismatic antenna located at a known reference point and having a fixed known orientation, said antenna

including a pipe-like structure with a row of small orifices regularly spaced therealong, the pipe-like structure, the orifices and the interorifice spacing of which are proportioned to pass a predetermined band of frequencies, and to radiate energy of each frequency of said band most strongly at a different angle with respect to the longitudinal axis of said antenna, means for energizing said antenna at frequencies over said predetermined band, means on a mobile object remote from said antenna for receiving energy radiations therefrom, and means for analyzing and observing the frequencies and the relative amplitudes thereof, of the energy so received to obtain an indication of the direction of said mobile object from the reference point.

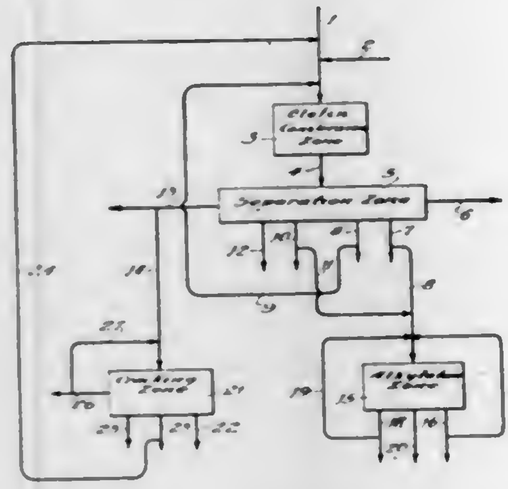


2,422,692
CONVERSION OF A NORMALLY GASEOUS OLEFIN OTHER THAN ETHYLENE TO ISOBUTANE

William J. Mattox, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application October 29, 1943, Serial No. 508,236

7 Claims. (Cl. 260—676)



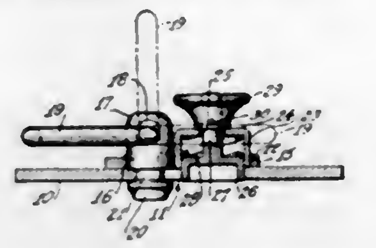
1. A process for producing isobutane from a hydrocarbon fraction containing ethylene and a higher molecular weight normally gaseous olefin, which comprises subjecting said fraction to the action of a solid polymerizing catalyst comprising silica and an oxygen-containing compound selected from the group consisting of phosphoric acid, alumina, thoria, titania, and zirconia, in the presence of a non-olefinic liquid hydrocarbon diluent at a temperature of from about 200° C. to about 500° C., a weight hourly space velocity of from about 0.5 to about 20, and a pressure of from about 100 to about 1000 pounds per square inch while maintaining the weight ratio of non-olefinic liquid hydrocarbon to said normally gaseous olefin at not less than 1:1.

2,422,693
ATTACHING DEVICE

Warren McArthur, Bantam, Conn., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y., a corporation of the United States

Application September 15, 1944, Serial No. 554,284

5 Claims. (Cl. 24—223)



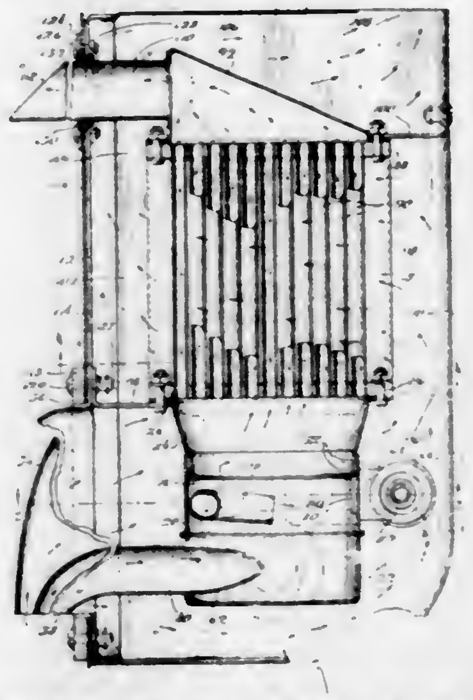
1. In a device of the character described, a first unit comprising a member having a bayonet slot extending therethrough, a second unit comprising a base, a post connected to the base and including a head portion, said post having a recess formed therein intermediate the head portion and the base and registering with the bayonet slot in the region of the recess, a plunger movable through the base in one direction and registering with the bayonet slot when the units are in normal engagement, and means for moving the plunger in the opposite direction to remove the plunger from the bayonet slot when effecting disengagement between the units.

2,422,694
WALL-MOUNTED RAM-TYPE AIRCRAFT HEATER

Henry J. De N. McCollum, Chicago, Ill.; Thelma McCollum, executrix of said Henry J. De N. McCollum, deceased, assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application January 1, 1944, Serial No. 516,649

13 Claims. (Cl. 126—116)



1. A unitary self-contained aircraft heater comprising a housing adapted to be attached to an outer wall of an aircraft, means forming a combustion chamber mounted in said housing, a heat exchanger mounted in said housing and receiving hot products of combustion from said combustion chamber, a carburetor carried by said housing and supplying combustible mixture to said combustion chamber, ram means projecting from said housing for supplying combustion air

to said carburetor and ventilating air to said heat exchanger, said housing having an outlet adapted to discharge ventilating air directly into the aircraft, and an exhaust pipe for combustion gases leaving said heat exchanger, said exhaust pipe projecting from said housing into the slip stream of the aircraft, said ram means and exhaust pipe being rigidly attached to said housing with said exhaust pipe located downstream of said ram means.

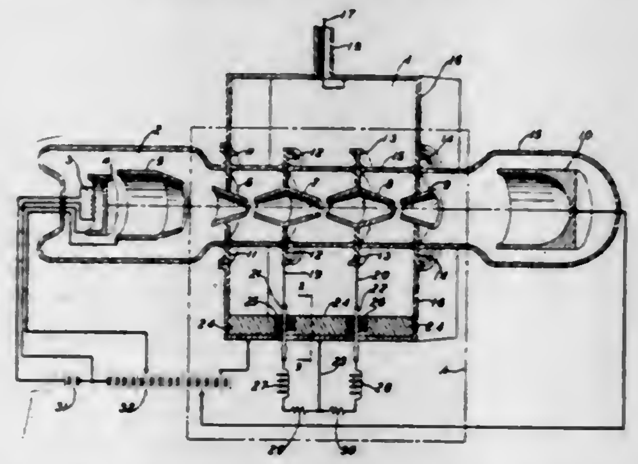
2,422,695

SUPPRESSION OF PARASITIC OSCILLATIONS IN HIGH-FREQUENCY DEVICES

James W. McRae, Arlington, Va., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 7, 1943, Serial No. 485,968

19 Claims. (Cl. 178—44)



1. A high frequency system comprising means for producing in a region a high frequency electric field, at least one electrical conductor capable of acting as a high frequency transmission line in conjunction with another part of the system serving as a return conductor and extending into the said region from a region in which the high frequency field is substantially less intense than in the first said region, the length of the said electrical conductor within the first said region being substantially a quarter wavelength of the high frequency field, a capacitance connected between the said conductors at the boundary of the first said region, and an inductance and a resistance connected in series between the said conductors in the second said region.

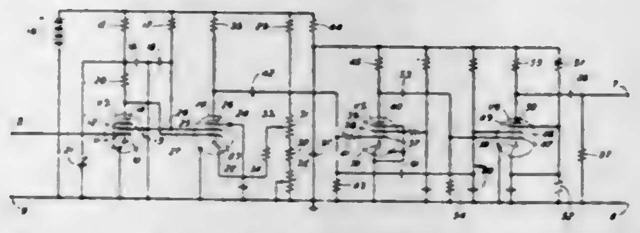
2,422,696

TIMING CIRCUIT

Larned A. Meacham, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 15, 1944, Serial No. 563,558

7 Claims. (Cl. 161—15)



1. A timing system comprising a space discharge device having a cathode, an anode, a control grid, and a screen grid, means to establish an initial difference of potential between said control grid and said screen grid, means effective from the beginning of a time interval to be measured to increase the potential of said control grid at a substantially constant time rate, and means effective simultaneously with said control grid potential increasing means to increase the potential of said screen grid at substantially the same time rate, whereby the initial potential difference between said screen grid and said control grid is substantially maintained while the control grid potential increases over an extended range of values of potential.

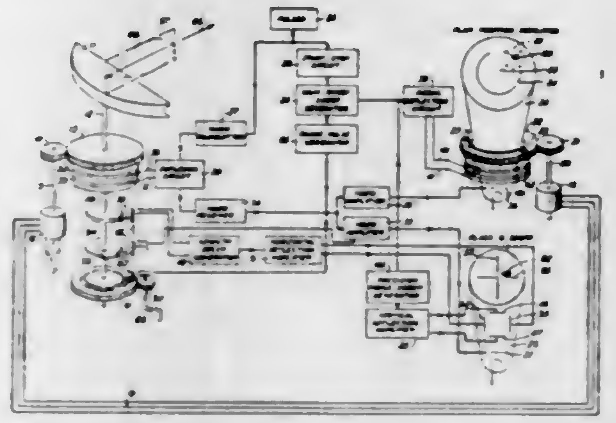
2,422,697

VIEWING SYSTEM

Larned A. Meacham, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 15, 1944, Serial No. 563,559

9 Claims. (Cl. 161—15)



9. Arrangement for correlating the start of a time sweep with a reference indication, comprising first and second discharge devices each having a cathode, an anode and a control grid; a charging circuit having two output connections supplying a pair of transient potentials of continually unequal magnitude to the respective control grids of said space discharge devices, said first space discharge device receiving the transient potential of lesser magnitude, a potentiometer, a source of constant potential supplying charging current to said charging circuit and constant current to said potentiometer, means to oppose the potential across a selected portion of said potentiometer to the transient potential supplied to the control grid of said first space discharge device, whereby the said first space discharge device becomes conductive upon passing through a critical potential difference between its cathode and control grid to give the desired indication, and means to oppose said potential across the said portion of the potentiometer to the transient potential supplied to the control grid of said second space discharge device, whereby the said second space discharge device becomes conductive upon passing through a critical potential difference between its cathode and control grid to start a sweep potential in advance of the occurrence of the indication given by said first space discharge device.

2,422,698

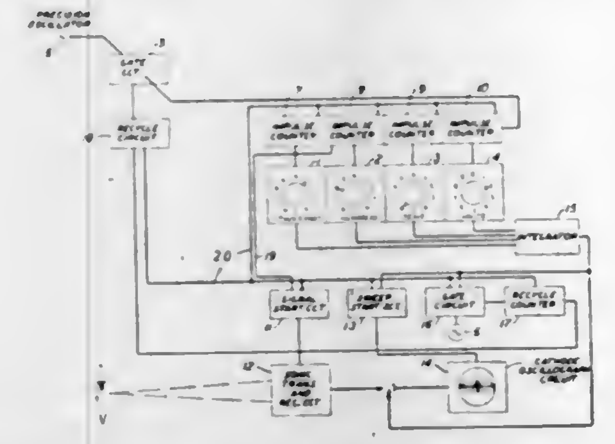
TIME MEASURING SYSTEM

Ohmer R. Miller, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 5, 1942, Serial No. 464,667

1 Claim. (Cl. 161—15)

A time measuring device comprising a source of accurately timed pulses, an electronic pulse counter for counting pulses from said source, said pulse counter comprising a plurality of counters in cascade each arranged to operate through a cycle of ten different counting conditions, means to set said pulse counter by adjusting said cascaded counters each to count a number corresponding to the corresponding integer of a number on the decimal basis, means to transmit a signal at the start of the said count, and means controlled by said counter to transmit a signal at the completion of said count.



2,422,699

DEFECATION OF SUGAR SOLUTIONS

John J. Naugle, New York, N. Y., assignor of two-fifths to Andres Bay Trading Corporation, New York, N. Y., a corporation of New York, and two-fifths to Cuban Dominican Sales Corporation, New York, N. Y., a corporation of New York

No Drawing. Application July 3, 1944, Serial No. 543,423

2 Claims. (Cl. 127—50)

1. The method of purifying, decolorizing and deodorizing a sugar solution which includes the steps of: adding to said solution a sufficient quantity of a mixture of the oxide and hydroxide of magnesium to bring the pH of said solution to from about 9.7 to about 10.00; the hydroxide constituting from about 1% to about 35% of the mixture; heating said solution to from about 77 degrees to about 79 degrees C.; removing therefrom the resulting precipitate; and thereafter adjusting the pH of the clear solution substantially to neutrality.

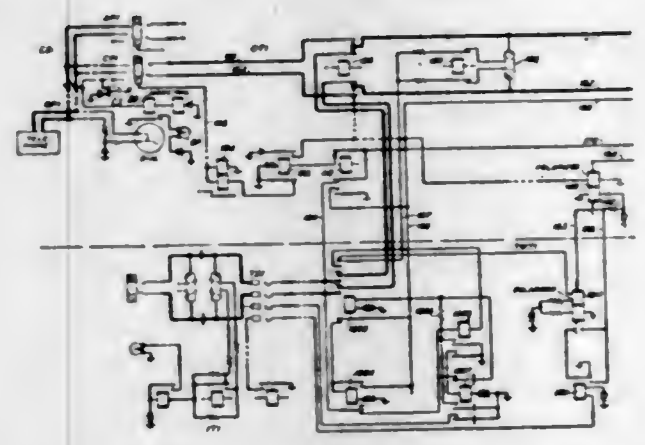
2,422,700

RECIPROCAL SIGNALING TRUNK TELEPHONE SYSTEM

Norman A. Newell, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 15, 1945, Serial No. 599,537

17 Claims. (Cl. 179—43)



1. In a signaling system, a line, a first means normally effective to transmit current of a particular frequency and amplitude over said line, means for terminating the transmission of said current as a first signal, means for transmitting an impulse of current of said particular frequency and of greater amplitude than that normally transmitted as a second signal, and means for transmitting current of said particular frequency for a predetermined interval of time and of said greater amplitude as a third signal.

2,422,701

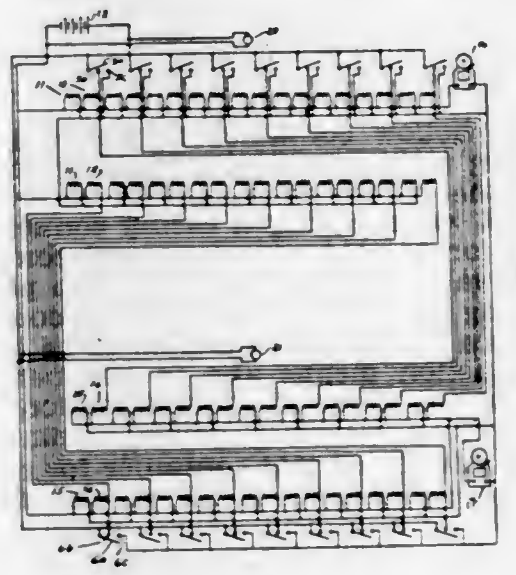
ELECTRIC ENGINE ORDER TELEGRAPH SYSTEM

Carl J. Rasmussen, Berkeley, Calif.

Application July 24, 1944, Serial No. 546,421

5 Claims. (Cl. 177—334)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electrical engine order telegraph system for transmitting instructions from a first point to a second point and for transmitting "repeat back" signals to said first point from said second point indicating that said instructions were received and carried out comprising a panel at each of said points, said panels each being provided with a plurality of plates of instruction, a switch individual to each of said plates of instruction, a pair of indicating markers individual to each of said plates of instruction, said markers being normally retracted from view beneath said plates of instruction, a pair of coils individual to each of said indicating markers comprising an "on" coil and an "off" coil, a source of potential common to all of said coils, means including the switch individual to one of said plates of instruction for completing a circuit from said source of potential to the "on" coils associated with similar plates of instruction on said two panels when said switch is initially closed, whereby the respective indicating markers associated with said coils are brought into view opposite corresponding plates of instruction on both of said panels, means including said switch individual to said plate of instruction when it is further depressed for energizing all of said "off" coils located at both of said panels whereby all of the indicating markers except the last one actuated are drawn to the "off" position, means for locking the last actuated indicating markers in "on" position until such time as the "off" coils of all of said indicating markers are energized upon the next operation of a different one of said switches.

2,422,702

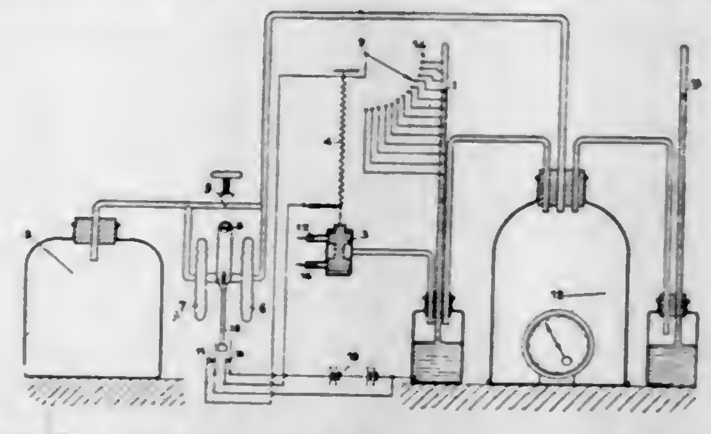
APPARATUS FOR TESTING ALTIMETRIC DEVICES

Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France; vested in the Attorney General of the United States

Application October 22, 1940, Serial No. 362,230

In France September 1, 1939

5 Claims. (Cl. 73—1)



1. Automatic apparatus for producing and maintaining a predetermined partial vacuum within a hollow container or enclosed member for testing altimetric devices, said apparatus including the hollow container for receiving such devices, a valve having a casing connected with the interior of said container and containing a movable valve member which in one position in said casing places said container in communication with a passageway adapted to be connected with a suction means and in another position places the container in communication with the atmosphere, a pressure gauge communicating with the interior of said container for measuring the pressure within the latter, an electric control circuit fed by a current source, electric shifting means in said circuit for moving said valve member upon closure of the circuit, a switch in said circuit operable by a movable portion of said pressure gauge for controlling the position of said shifting means, and including a manual adjusting switch member for predetermining the desired pressure in said container.

2,422,703

HIGH MANGANESE BRASS

John L. Rodda, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 26, 1944, Serial No. 551,417

13 Claims. (Cl. 75—157.5)

1. A manganese brass alloy having the property of excellent retention of composition during manufacture and remelting and containing 15 to 37.5% zinc, 7.5 to 30% manganese, 0.1 to 2% magnesium, and the balance substantially all copper but not less than 50%.

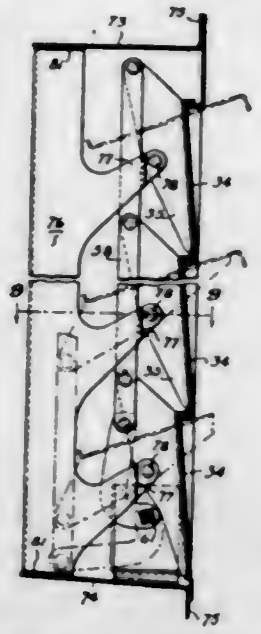
2,422,704

CLOSURE DEVICE FOR BUILDING APERTURES

Frank C. Russell, Euclid, and Altamont S. Barker, Cleveland, Ohio, assignors to The F. C. Russell Company, Cleveland, Ohio, a corporation of Maryland

Application August 11, 1941, Serial No. 406,302

4 Claims. (Cl. 20—62)



1. An adjustable jalousie for a building aperture comprising a plurality of elongated slats mounted for turning about spaced horizontal axes, a hollow support member disposed in generally upright position across the slats and having laterally extending arms, levers pivoted on the outer ends of the arms and supportingly secured to the underside of the slats, said levers extending into the interior of the support member, and a tie bar connected to the levers interiorly of the support member and actuable simultaneously to turn the levers and the slats respectively supported thereby.

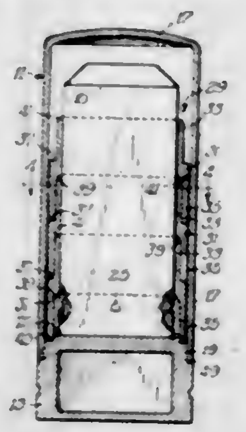
2,422,705

DISPENSING PACKAGE FOR COMMODITY STICKS

Gordon Saint Clair, Chicago, Ill.

Application March 28, 1942, Serial No. 436,571

3 Claims. (Cl. 206—56)



1. A package for a commodity stick comprising a base forming a mounting for one end of the stick and a tubular sectional sheath on said base and enclosing the lateral surfaces of the stick, said sheath comprising interfitting collar elements, each having a neck portion for snugly embracing the stick and a larger skirt portion for snugly embracing the neck portion of an adjacent collar element, in frictional engagement therewith, the base having a neck portion of shape duplicating that of the neck portions of said collar elements and the skirt portion of the collar element adjacent said base snugly embracing and frictionally engaging the neck portion of said base, the collar elements being arranged and conformed so that the same may be demounted, successively, from the base remote end of the stick, as the same is consumed, by sliding the endmost collar element, axially, from mounted position at the base remote end of the stick, to thereby uncover a portion of the stick for consumption, the interfitting portions forming means frictionally securing adjacent collar elements together in axial alignment to form the sheath.

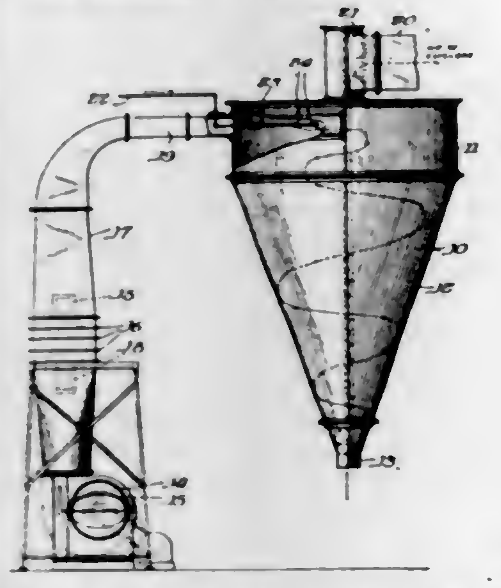
2,422,706

DESICCATING METHOD AND APPARATUS

George Tooby, Prentice, Wis., assignor to Richard C. Lilly, St. Paul, Minn.

Original application December 7, 1940, Serial No. 369,046. Divided and this application February 9, 1942, Serial No. 430,055

10 Claims. (Cl. 159—4)



1. Apparatus for spray drying whole milk, comprising a vertically disposed conical chamber having its vertex at the bottom, a wide shallow duct mounted in an upper portion in said chamber and disposed tangentially thereto for introducing a rapidly moving current of hot air, an air outlet centrally located at the top of said chamber, a spray nozzle for incoming milk to be dried located near the top of said chamber and disposed intermediate the center of said chamber and the inside junction of the air inlet and the conical chamber, said nozzle being directed so as to spray milk against the inside edge of the rapidly moving current of hot air, whereby milk sprayed into the air stream will travel toward the periphery of said chamber and across the incoming air stream, and an outlet for the dried milk particles at the bottom of said chamber.

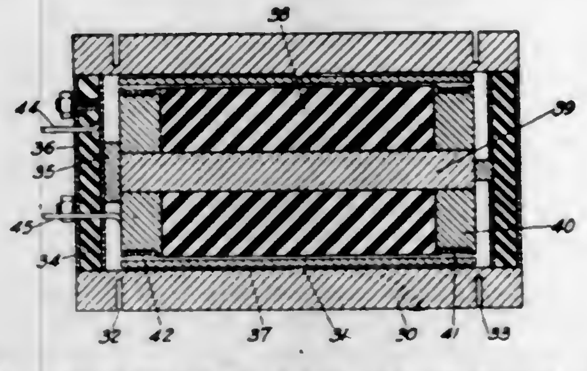
2,422,707

COMPRESSIONAL WAVE TRANSMITTING OR RECEIVING DEVICE

Edwin E. Turner, Jr., West Roxbury, Mass., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass., a corporation of Delaware

Application July 29, 1942, Serial No. 452,808

7 Claims. (Cl. 177—386)



1. A compressional wave transmitting or receiving device comprising an elongated hollow cylinder having a centrally located internally projecting boss, a second cylinder aligned within the first cylinder and supported by said boss, and means for longitudinally vibrating said second cylinder and producing thereby radial vibrations of said first cylinder.

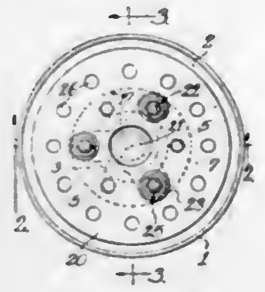
2,422,708

AGITATING MIXING DEVICE

Charles F. Warren, Milwaukee, Wis.

Application April 26, 1944, Serial No. 532,748

8 Claims. (Cl. 259—113)



1. In an agitating device, a container having an opening in one wall, a flexible diaphragm covering said opening, a stroke-imparting device operable against the outer side of said diaphragm, a dasher in the container, resilient means holding said dasher firmly against the inner side of said diaphragm for vibration in response to said stroke-imparting device, and tensioning means for said resilient means adjustable to give the resiliently held dasher a normal frequency of vibration higher than the maximum frequency of the strokes imparted thereto by the stroke-imparting device.

2,422,709

REFRIGERANT AND METHOD OF MAKING

Sol B. Wiczer, Washington, D. C.

No Drawing. Application June 1, 1945, Serial No. 597,163

5 Claims. (Cl. 252—67)

1. Method of forming a solid refrigerant comprising homogeneously mixing with attrition a major portion of water ice and a minor proportion of solid CO_2.

2,422,710

STEREOSCOPIC GUN SIGHT HAVING FIXED OCULARS AND OBJECTIVES MOVABLE WITH THE GUN

Serge John Zaroodny, Aberdeen, Md.

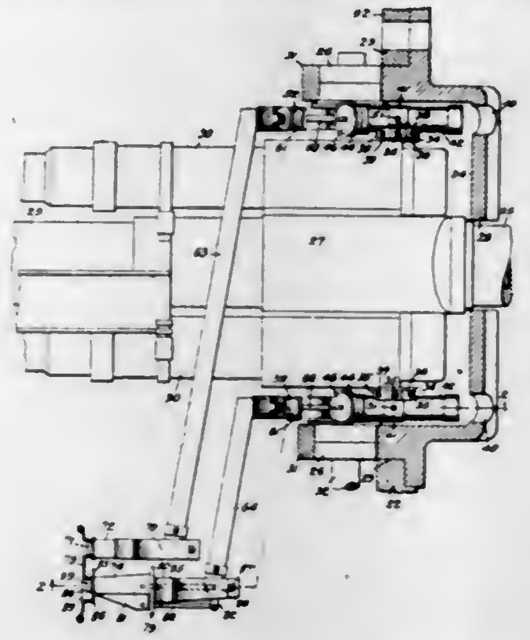
Application May 10, 1944, Serial No. 535,335

4 Claims. (Cl. 88—2.6)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a stereoscopic system of the character described, a support, a gun pivoted thereon for elevation and depression, a pair of parallel telescopic objectives arranged at respective sides of and on axes in respective vertical planes parallel with the bore axis of the gun, a pair of stationary eye lenses axially fixed relative to said support with mutual interpupillary spacing, and also spaced as a unit both in the same direction laterally from the vertical plane of the gun axis, their axes parallel to said plane, and right and left optical coupling systems between the objective elements and said eye lenses each including a compensating movable optical reflector coupling mechanically connected between the gun and sup-

port responsive to pivotal movement of the gun and objective relative to the support to maintain alignment of reflected rays with a given axis fixed in relation to the support extending generally upward beside the gun, a reflector means positioned to intercept the rays projected along one said fixed axis at a level above the gun and project the same



transversely across said plane and beyond, means to intercept and deflect the transversely projected rays in optical coupling relation with the nearer of said eye lenses, and means to intercept and deflect the rays projected along the other said fixed axis in optical coupling relation with the other of said eye lenses.

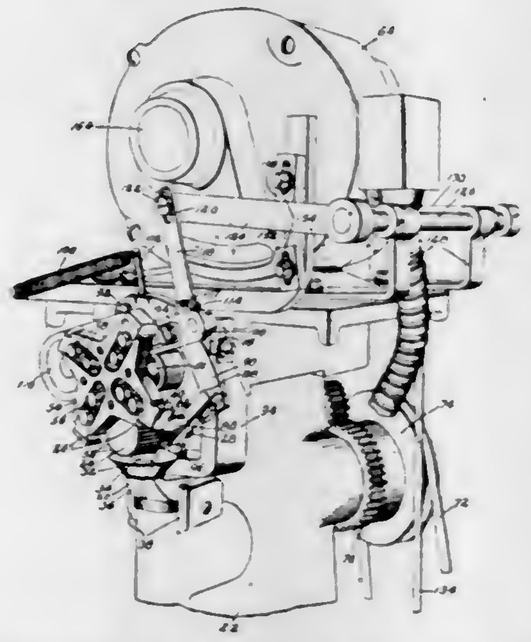
2,422,711

MACHINE FOR OPERATING ON SHOES

Corwin W. Baker, Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application April 23, 1946, Serial No. 664,297

9 Claims. (Cl. 12—67.2)



1. A machine for operating on shoes comprising a feed wheel mounted for rotation about a fixed axis, a support for the welt of a shoe to be operated upon, means for yieldably mounting the work support for movement toward and away from the feed wheel, a welt slashing knife, means for pivotally mounting the knife upon the work support, and manually controlled means for effecting operation of the knife upon the welt.

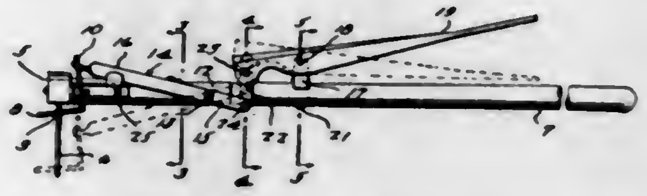
2,422,712

GARDEN AND LAWN HAND RAKE

William W. Barracks, College Point, N. Y.

Application February 24, 1944, Serial No. 523,618

3 Claims. (Cl. 56—400.10)



1. In combination with a rake proper comprising an elongated handle and a head extending transversely of and rigidly secured to the forward end of the handle and provided with a plurality of spaced depending teeth, a clearer plate having a plurality of openings loosely receiving the teeth and freely slidable along the latter, said clearer plate being provided on its rear edge with a pair of upstanding flanges disposed at opposite sides of the handle and provided with openings, a pair of levers pivoted intermediate their ends upon and at opposite sides of the handle for vertical swinging movement about an axis transverse to the handle, said levers being of straight form in side elevation and having forwardly diverging forward arms provided with reduced forward ends loosely engaged and secured in the openings of said flanges, a hand lever pivotally mounted intermediate its ends upon the forward portion of the handle rearwardly of said levers for vertical rocking movement about an axis transverse to the handle, the rear ends of said pair of levers extending rearwardly adjacent and beneath the forward end of said hand lever, short links operatively connecting the forward end of said hand lever with the rear ends of said pair of levers, and a spring carried by the handle and acting to normally yieldingly hold the clearer plate elevated in position adjacent the under side of the head.

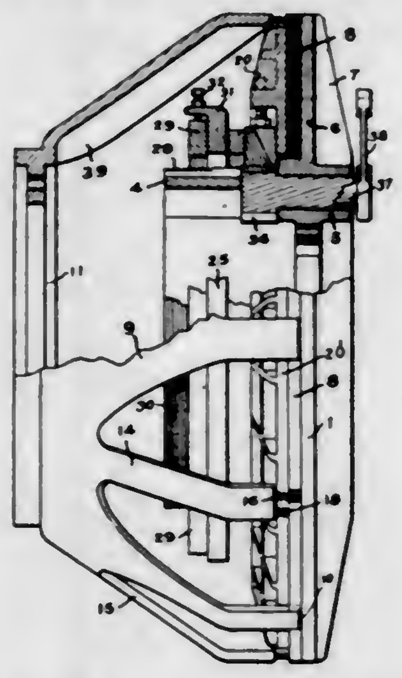
2,422,713

BRAKE

Ary A. Benson, Los Angeles, Calif.

Application July 6, 1944, Serial No. 543,693

12 Claims. (Cl. 188—72)



1. A wheel brake comprising a stationary pressure plate having a cylindrical hub extension, a second pressure plate mounted for both axial and limited rotational movement on said extension, a friction disc rotatable with the wheel interposed between said plates, a reaction member on said extension, interlocking means between said member and said extension preventing relative rotation therebetween, means threaded on said hub extension for axially adjusting the position of said reaction member cam and roller means between said second plate and said reaction member for producing axial movement of said second plate toward said first plate upon slight rotation of said second plate, and means operable from the remote side of said stationary plate for imparting rotation to said second plate.

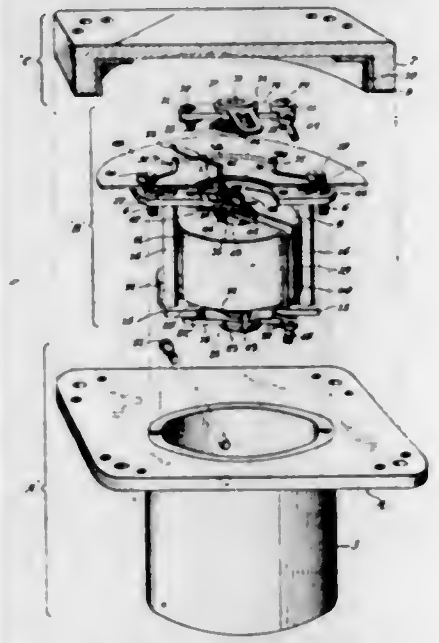
2,422,714

MINIATURE ELECTRIC METER

Julian H. Bigelow, New York, Jack M. Harris, Long Island City, and M. Norman Schweizer, Bayside, Long Island, N. Y., assignors to Bulova Watch Company, New York, N. Y., a corporation of New York

Application May 9, 1944, Serial No. 534,720

8 Claims. (Cl. 171—95)



1. An electrical measuring instrument comprising a cylindrical metal casing, a magnetic body having an arcuate surface portion, means for holding said body with its arcuate surface portion in contact with the arcuate interior wall of said cylindrical casing, an opposite side of said body spaced from the wall of said casing to form an active air-gap between said body and said casing wall, said wall serving as a return ring for said magnetic body, and a coil movable in said active air-gap upon the passage of electrical energy through said coil.

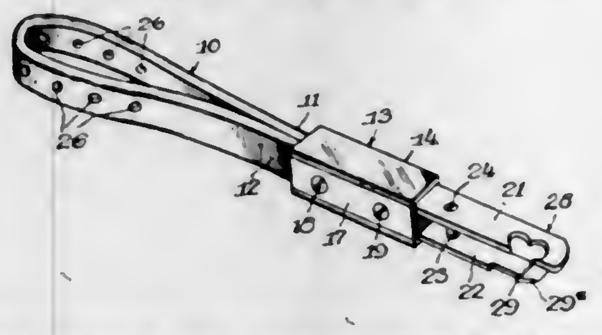
2,422,715

JAR OPENING TOOL

William F. Blake, Chicago, Ill.

Application July 23, 1945, Serial No. 606,576

1 Claim. (Cl. 81—3.43)



A jar opening tool comprising a flexible member doubled back upon itself to form a looped portion, the free ends of said flexible member being in contact with each other, a channel in which said free ends are disposed, said channel being provided with a tapped boss which interlocks with said free ends, a cover plate fitting within said channel and over said free ends, and screw threaded means engaging said cover plate and said boss to frictionally grip said free ends whereby said free ends may be securely anchored in said channel.

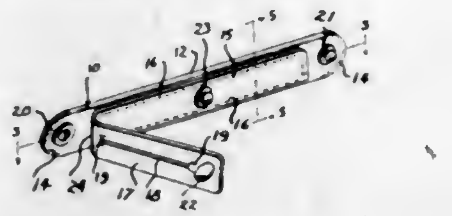
2,422,716

HAIR CURLER

Grace A. Broyles, Kenosha, Wis.

Application March 7, 1946, Serial No. 652,655

5 Claims. (Cl. 132—44)



5. A hair curler comprising in combination, a strap comprising a flexible wire forming an elongated frame, covering material on said frame, and padding inside of said covering material, a rubber strip secured to one side of said strap, a portion of said strip extending beyond the adjacent end of said strap, a resilient reinforcing element on the extended portion of said strip, coacting snap-on fasteners medially the length of said strip and adjacent the extended end thereof, and further coacting snap-on fasteners adjacent the ends of said strap.

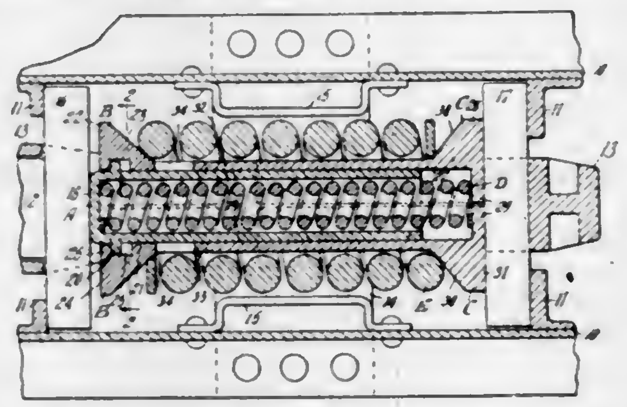
2,422,717

FRICTION SHOCK ABSORBING MECHANISM

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application May 29, 1944, Serial No. 537,788

14 Claims. (Cl. 213—36)

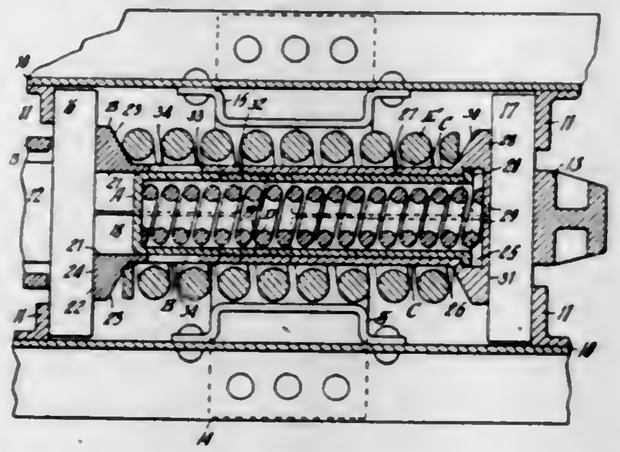


5. In a friction shock absorbing mechanism, the combination with a hollow friction post adapted to receive the actuating force, said post having lengthwise extending, exterior friction surfaces; of spring means telescoped within the post and yieldingly opposing inward movement of the post; friction shoes having lengthwise sliding engagement with the post; yielding means for forcing said shoes into frictional gripping engagement with the post for movement in unison with said post during predetermined partial compression of the mechanism; means for limiting outward movement of the shoes; cooperating stop shoulders on said shoes and post limiting outward movement of the post with respect to the shoes, with the post normally projecting slightly

beyond the outer ends of the shoes; and stop means for arresting inward movement of the shoes after a said predetermined partial compression of the mechanism to compel relative sliding movement of said shoes and post during the remainder of the compression stroke of the mechanism.

2,422,718
SHOCK ABSORBING MECHANISM

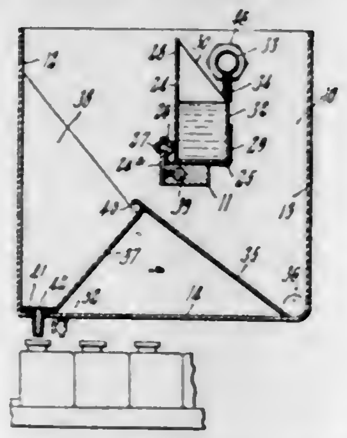
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application July 21, 1944, Serial No. 545,962
6 Claims. (Cl. 213—36)



1. In a shock absorbing mechanism, the combination with a hollow friction post, said post having longitudinally extending exterior friction surfaces; of spring means yieldingly opposing inward movement of the post; friction shoes adapted to receive the actuating force and having sliding engagement with the friction surface of the post; means for forcing said shoes against the post including a spring yieldingly opposing inward movement of the shoes; interengaging means on said shoes for limiting outward movement of the shoes away from each other; means for limiting outward movement of the post with respect to the shoes, with the shoes normally projecting outwardly beyond the post; and stop means for arresting inward movement of the post after a predetermined partial compression of the mechanism.

2,422,719
DISPENSING DEVICE WITH TIPPING TRAP CHAMBER

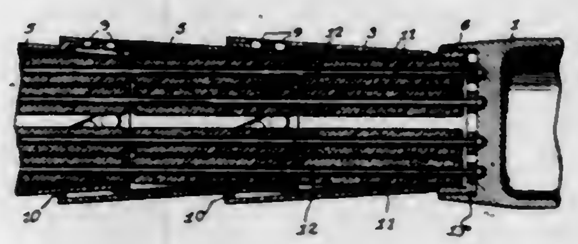
Charles F. Eaton, Methuen, Mass., assignor to Bennett Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application June 29, 1944, Serial No. 542,779
15 Claims. (Cl. 222—282)



1. An apparatus for measuring and delivering charges of liquid, comprising the combination of a tiltable bucket, means for swinging said bucket between substantially upright and dumping positions, and liquid supplying means including a nozzle having a downwardly directed outlet orifice disposed above and near the upper edge of that wall of the bucket which when the bucket is upright, is at the rear with respect to the direction in which the bucket is moved for dumping its contents.

2,422,720
ROCKET PROJECTILE

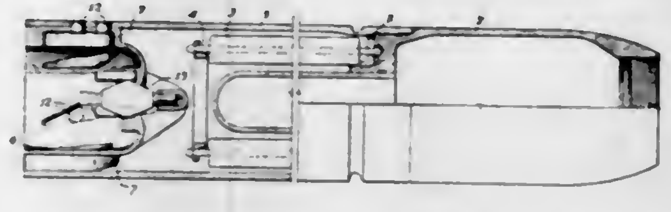
Carolus L. Ekserglan, Detroit, Mich., assignor, by mesne assignments, to United States of America
Application August 15, 1944, Serial No. 549,543
6 Claims. (Cl. 102—49)



3. In a rocket projectile, a plurality of tubular sections, the adjacent ends of adjoining sections being overlapped with each other, one of said sections at its overlapped region having a plurality of circumferentially spaced embossed portions radially abutting the adjacent section, said embossed portions being contoured to define a plurality of circumferentially spaced Venturi passages with the overlapped regions of said sections, and means securing the adjoining sections together through said embossed portions, the walls of each of said passages being divergent both in an axial and a radial direction.

2,422,721
ROCKET PROJECTILE

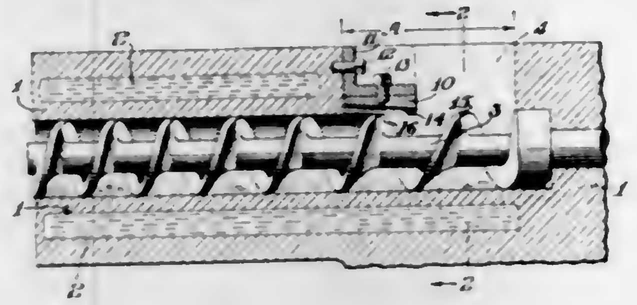
William W. Farr, Grosse Pointe, Mich., assignor by mesne assignments, to United States of America
Application October 13, 1944, Serial No. 558,582
1 Claim. (Cl. 102—49)



In a rotational rocket projectile having an elongated casing provided with an open trailing end and arranged to contain a combustible propelling charge, an end closure for said opening and having a plurality of circumferentially spaced radially extending portions engaged with the inner wall surface of said casing, each of said portions having its radial side walls converging rearwardly toward each other, one of said walls of each portion being curved at its forward end toward the other of its walls to provide with the wall of an adjacent portion corresponding to said other wall a restricted throat intermediate the opposite ends of said portions, the inner wall surface of said casing together with the adjacent radial walls of adjacent radially extending portions and the portions of said end closure between and joining said radially extending walls defining a plurality of circumferentially spaced Venturi passages, the axes of said passages being non-parallel with respect to the axis of said casing, and means for rigidly securing said end closure to said casing.

2,422,722
EXTRUSION APPARATUS

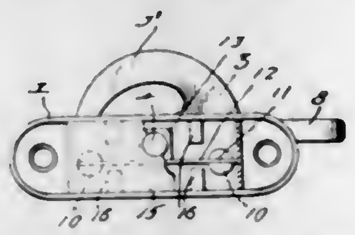
Frederick J. Fielitz, North Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application March 5, 1946, Serial No. 652,087
3 Claims. (Cl. 18—12)



1. A screw stuffer comprising a cylinder, a screw centrally positioned and rotatable therein for extruding plastic from one end of said cylinder, a hopper adjacent the opposite end of said cylinder through which plastic is fed to said screw, a device for regulating the feed of plastic into said cylinder, said device comprising a plate rigidly mounted in said hopper immediately above said screw and extending over a portion thereof and closing off a portion of said hopper at the side thereof nearest the discharge end of said cylinder, the face of said plate adjacent said screw having a radial curvature approximately the same as the curvature of the wall of said cylinder and the plate being positioned with said face approximately parallel to the wall of said cylinder and the distance, measured radially with respect to the axis of said screw, between the crests of said screw and said face increasing in the direction of extrusion whereby a relief zone is formed between said plate and screw in which there is an extrusion compression exerted on the plastic less than the extrusion compression exerted on the plastic in said cylinder.

2,422,723
CLOSURE FASTENER

Albert T. Fisher, Hartford, Conn.
Application January 29, 1946, Serial No. 644,034
2 Claims. (Cl. 292—204)

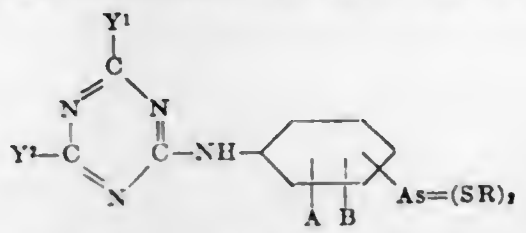


1. A closure fastener comprising a latch section attachable on one window sash for locking engagement with a keeper section attachable opposedly on a companion sash, said latch section having an arcuate latching member constructed to engage the keeper section, a rotatable swivel-bolt secured removably to said latch section and having a polygonal body enlargement and to which bolt the said latching member is detachably secured so as to rotate thereby and therewith, an elongated, flat spring element operatively mounted at its opposite ends on supporting studs provided at opposite sides of said swivel-bolt with the middle portion of said spring element bearing constantly flatwise on said polygonal body enlargement of the bolt, a removable plate constructed to fit within said latch section and retain said swivel-bolt against longitudinal movement while permitting free rotation of the bolt, and projecting stops positioned on the top of said latch section to limit the swinging movement of the latching member on said swivel-bolt.

2,422,724
SUBSTITUTED 1,3,5-TRIAZINYL-(6)-AMINO-PHENYL-ARSENIC COMPOUNDS

Ernst A. H. Friedheim, New York, N. Y.
No Drawing. Application January 20, 1944, Serial No. 518,998
7 Claims. (Cl. 260—242)

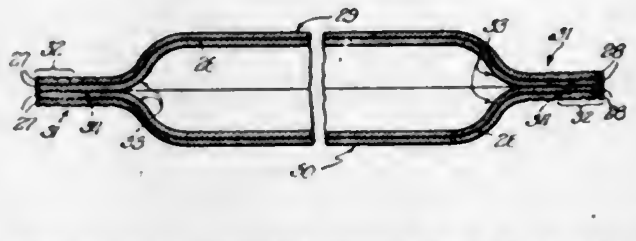
1. A 1,3,5-triazine derivative of the formula



wherein Y^1 and Y^2 are each a radical selected from the group consisting of halogen and amino radicals; A and B are selected from the group consisting of hydrogen, halogen, hydroxyl, alkyl, and amino radicals, and —SR is selected from the group of organic sulfhydril radicals consisting of aliphatic, aromatic, pyridine and quinoline sulfhydril radicals.

2,422,725
CONTAINER AND SEAM CONSTRUCTION

Paul M. Gilfillan, Mount Vernon, Ohio, assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio, a corporation of Delaware
Application April 11, 1942, Serial No. 438,618
2 Claims. (Cl. 154—116)



1. Wrapping material comprising a plurality of laminated rubber hydrochloride sheets combined marginally into an improved seam construction, said sheets being permanently cemented to each other by a laminating adhesive which extends between the sheets short of their marginal edges, which marginal edges remain free of said adhesive and thus unlaminated to permit their being fused into a unitary mass, said seam construction comprising two of said laminated sheets having said marginal areas defined by said unlaminated portions and lying together to form four layers of unlaminated rubber hydrochloride before said seam construction is completed, and all four layers being fused into a unitary mass to provide said final seam construction with said laminated sheets extending away from each other in opposite directions from the base of said seam construction to provide container walls, whereby separation of the sheets upon breakage can take

place in the laminated area only and be permanently checked against separation in the seam construction where the same is fused into said unitary mass.

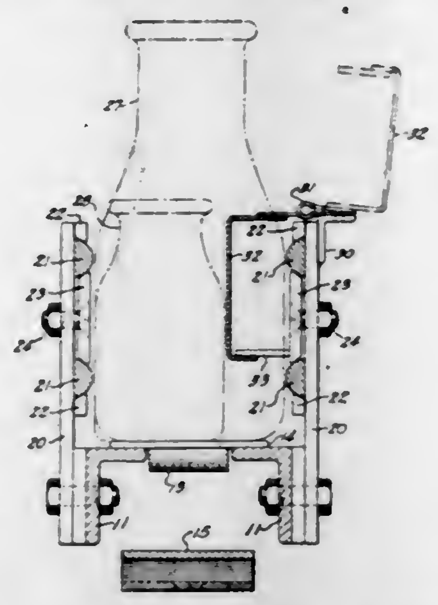
2,422,726

BOTTLE CONVEYOR

Edward H. Goldacker, Jamaica, N. Y., assignor to Michael Yundt Company, Waukesha, Wis., a corporation of Wisconsin

Application January 5, 1945, Serial No. 571,375

4 Claims. (Cl. 198—184)



1. In a conveyor for bottles of different sizes, spaced longitudinal frame members, a conveyor chain movable in the space between the frame members, guide rails mounted on each of the frame members to define a path for the movement by the chain of bottles of a larger size, and means mounted on one of the frame members and movable into the space between the frame members to reduce such space to that required for smaller sized bottles.

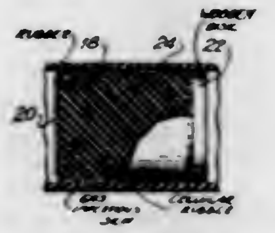
2,422,727

BUOYANT ELECTRODE

Francis H. Gooding, Lodi, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey

Application February 14, 1942, Serial No. 430,933

1 Claim. (Cl. 174—131)



A buoyant electrode comprising a buoyant center of cellular rubber members intercalated with wooden discs, bare wires or strands constituting the electrode conductor laid up in oppositely extending layers about said center, and a water pervious non-metallic fabric sheath about said wires or strands, the weight to volume ratio of the electrode being such as to render the electrode buoyant in sea water, said sheath protecting said electrode against metal loss due to electrolytic corrosion when an electric current is passed through the water in which the electrode is floating to a companion electrode.

2,422,728

REACTION OF BETA-LACTONE, ALCOHOL AND HYDROGEN HALIDE

Thomas L. Gresham and Forrest W. Shaver, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 5, 1945, Serial No. 620,665

10 Claims. (Cl. 260—487)

1. The method which comprises bringing into reactive contact with one another in the liquid phase, a beta-lactone, an alcohol and an acid consisting of a hydrogen halide, whereupon reaction occurs to form a beta-halo carboxylic acid ester.

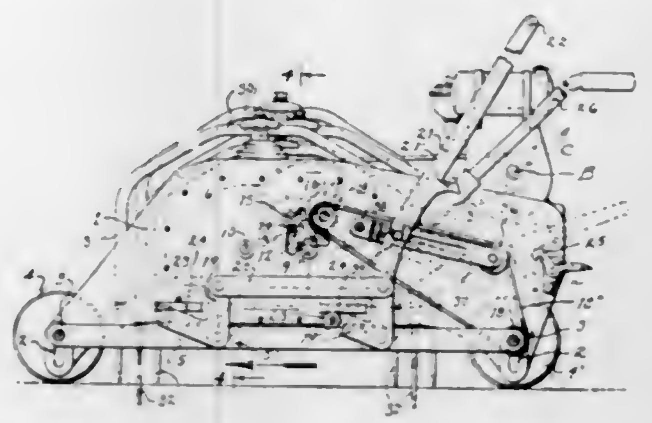
2,422,729

LAWN PERFORATING MACHINE

Hugo Helbig, Racine, Wis.

Application October 25, 1944, Serial No. 560,212

4 Claims. (Cl. 97—44)



2. A sod perforating machine comprising a frame having side plates provided with front and rear vertically disposed slots, axles mounted in the slots, rollers secured to the axles, a carriage having reach-bars mounted upon the axles, front and rear bell crank levers pivoted to the reach-bars, companion arms of the bell crank levers engaging the frame, links connecting the other arms of said bell crank levers, the rear set of the aforesaid bell crank levers being extended upwardly and cross connected for raising and lowering the frame with respect to the carriage, shafts journaled in the frame, eccentrics mounted upon said shafts, a motor carried by the frame in gear connection with the shafts, and spike carrying yokes operatively connected to the eccentrics.

2,422,730

FLAMEPROOFED FILM AND PROCESS

William A. Hoffman, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 15, 1944, Serial No. 549,628

5 Claims. (Cl. 117—136)

3. The process which comprises impregnating transparent regenerated cellulose film with an aqueous bath comprising a salt of sulfamic acid, an aliphatic polyhydric alcohol softener, and a formaldehyde-yielding material, the relative amounts of the constituents of the bath being so regulated that from 20%–25% by weight of the salt of sulfamic acid based upon the weight of the film, from 10%–25% by weight of an aliphatic polyhydric alcohol softener, and from 0.5%–5.0% by weight of formaldehyde-yielding material is incorporated in the film; and drying the film whereby to produce a transparent, flameproof, and highly durable film of regenerated cellulose.

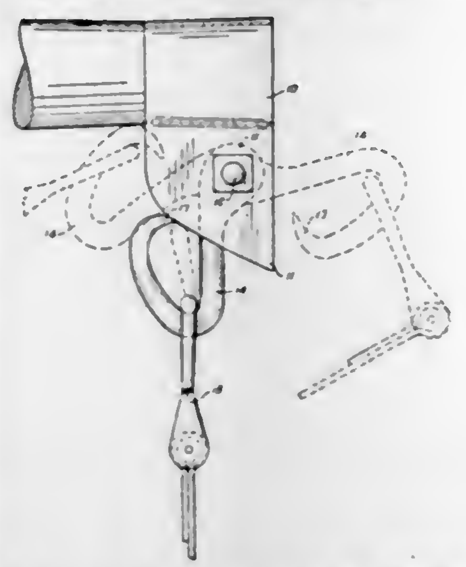
2,422,731

WHIFFLETREE HOOK

John C. Holte, Edmonton, Alberta, Canada

Application January 24, 1944, Serial No. 519,575

1 Claim. (Cl. 278—115)



A whiffletree hook comprising a frustro-conical split clamp adapted to encircle the end of a whiffletree, the ends of said clamp extending to form spaced co-acting lugs, the outer side edges of said lugs being of greater length than the inner side edges, a bolt extending through said lugs for securing said clamp in tight engagement with the whiffletree, a hook having a shank provided with an offset eye at its end for pivotal mounting on said bolt between the lugs of said clamp, the bill of said hook being reversely bent and extending in diverging relation to the shank with its free end curved inwardly towards said shank to lie between the lugs of said clamp during the normal swinging movement of said hook, said curved end of the bill being free of said lugs only when the hook is swung outwardly from the outer side edges of said lugs.

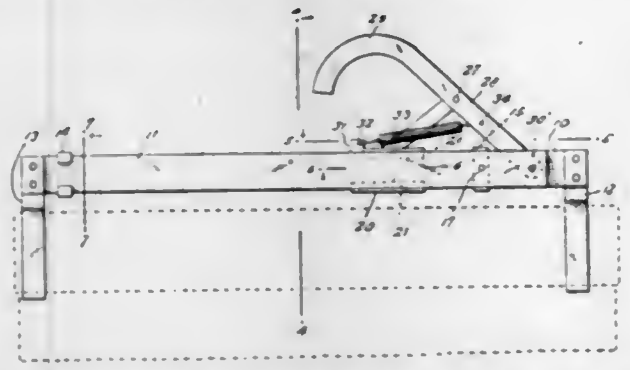
2,422,732

PANTS HANGER

Ray Hultsch, Melrose Park, Ill.

Application May 14, 1945, Serial No. 593,673

4 Claims. (Cl. 223—96)



1. A garment stretching and suspending device comprising a longitudinally extensible member consisting of a pair of flat, elongated strips disposed in parallel juxtaposition, garment attaching means carried by the outer end of each strip, a clip means secured at the inner end of each strip and embracing the other strip in sliding, guiding and retaining relation, and stretching means pivoted and adjustably secured to said strips for longitudinally extending and retracting said strips, said stretching means including a lever pivoted terminally to one of said strips, a link pivoted at one end intermediately of said lever and at the other end pivoted to the other strip and having its pivot adjustable longitudinally thereof.

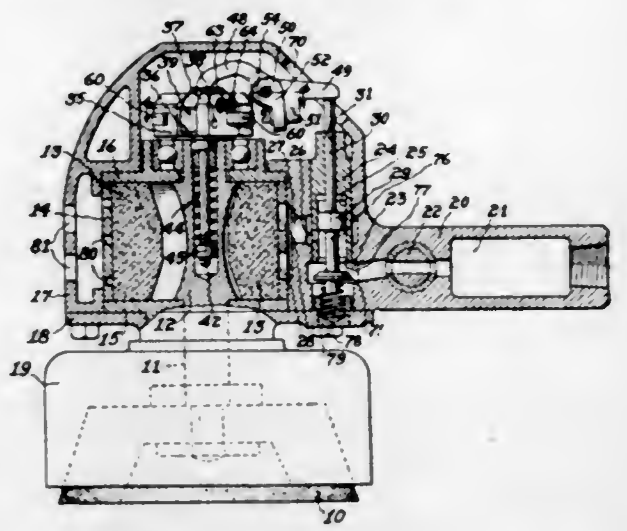
2,422,733

SPEED RESPONSIVE FLUID MOTOR THROTTLING AND SHUTOFF VALVE MEANS

Francis A. Jimerson, Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey

Application April 2, 1945, Serial No. 586,177

2 Claims. (Cl. 121—34)



1. A governor for a fluid actuated motor having a speed responsive element actuated by the motor, a reciprocatory throttle valve for normally controlling the supply of motive fluid to the motor, a valve movable with the throttle valve adapted to shut off the supply of motive fluid to said motor, a member formed in sections normally connected together to transmit motion from said element to said valves and to hold the second mentioned valve in the open position, a centrifugally operated breaker mounted with said element and responsive to the speed of said motor, a connecting element for said sections adapted to be fractured by said breaker for rendering the member ineffective to actuate the valves, and a spring for moving the second mentioned valve to its closed position whenever the connecting element becomes fractured by the breaker.

2,422,734

DEVICE FOR REGULATING THE TEMPERATURE OF ELECTRIC FURNACES OF THE RESISTANCE TYPE

Erwin Pierre Jung, Paris, France; vested in the Attorney General of the United States

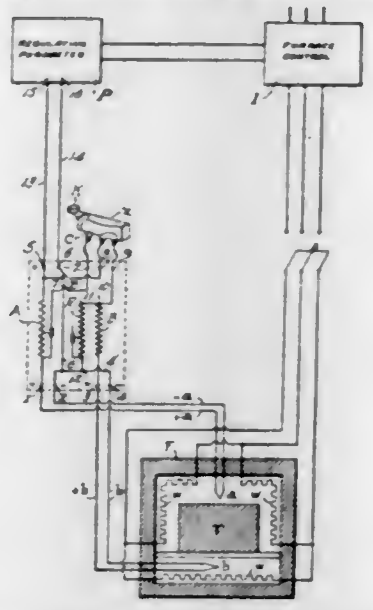
Application May 11, 1940, Serial No. 334,633

In France May 23, 1939

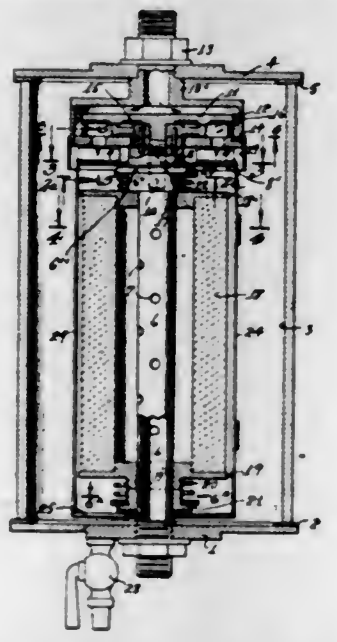
2 Claims. (Cl. 13—24)

2. In a device for regulating the temperature of electric furnaces of the resistance type, two means for taking temperature, one of which is located near the pieces to be heated and the other near the heating devices of the furnace, an apparatus which is external to the furnace and which is adapted to reduce the maximum temperature of the heating devices according to the temperature of the pieces, and according to a predetermined formula, the said two means for taking the tem-

perature being two pyroelectric couples, the external apparatus comprising a pyrometer acting as a controlling means for the furnace, of a set of three ohmic resistances, means for connecting the couples in parallel with the pyrometer and each through one of the resistances with the third resistance bridging the pyrometer and means for connecting the couple near the pieces to be heated directly to the pyrometer.

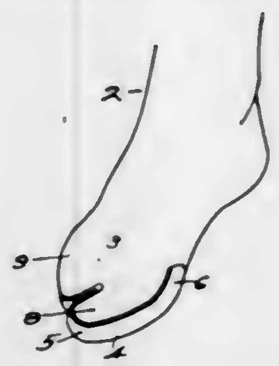


2,422,735
AUTOMATIC CLEANING MEANS FOR FILTERS
Louis E. La Guardia, New York, N. Y.
Application February 16, 1944, Serial No. 522,542
4 Claims. (Cl. 210—117)



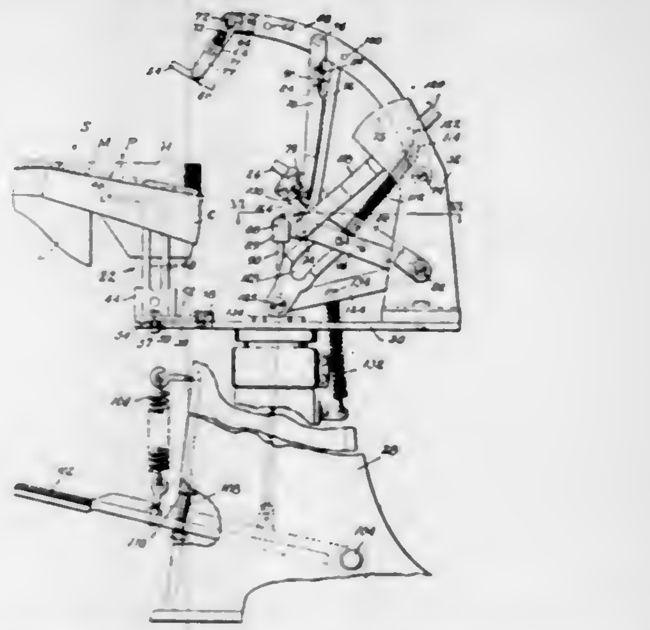
1. In a filter of the type described consisting of a casing and tubular filter element therein through which the water percolates, a perforated central tube disposed within the filter element, a brush extending over the length of said filter element and a frame carrying said brush and rotatably mounted on said central tube, and an outlet for filtered water at an end of said control tube and an independent outlet for unfiltered water, the combination of a turbine housing in the top area of the casing above said tube, a spindle extending through the bottom of the turbine housing and secured to the upper end of the central tube, a turbine wheel within said housing having peripheral vanes, means for connecting the brush frame to the said turbine wheel, said turbine housing having a water inlet at its top and apertures disposed at its bottom and said brush frame having means at its top adapted to be impelled for rotation by the streams from said apertures.

2,422,736
FOURCHETTE TOE HOSIERY
Clare A. Lambert, Los Angeles, Calif.
Application January 19, 1946, Serial No. 642,344
2 Claims. (Cl. 2—241)



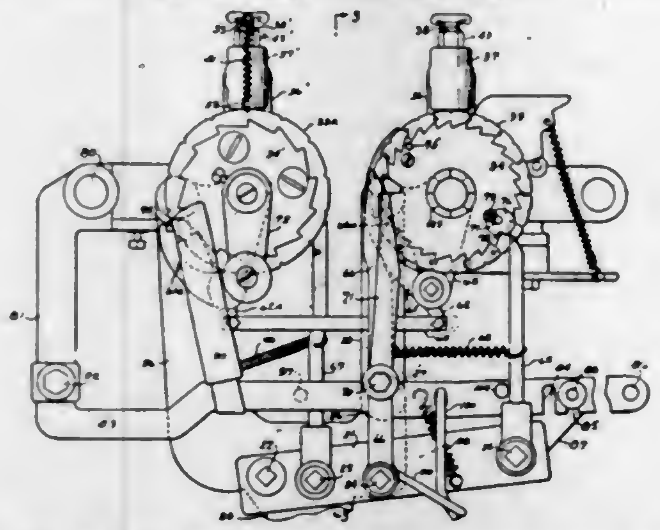
1. A piece of hosiery whose toe end is characterized by a wall forming fourchette of uniform height of toe thickness from top to bottom and which extends from one side of the foot end to the other and eliminates acuteness of angle of junction between the sole of the stocking foot and the top thereof and constitutes a smooth covering free from seams and creases along the toe end of the hosiery foot.

2,422,737
METHOD OF AND MACHINE FOR TURNING THE PLATFORM COVERS OF PLATFORM SHOES
Robert H. Lawson, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 4, 1944, Serial No. 566,592
19 Claims. (Cl. 12—1)



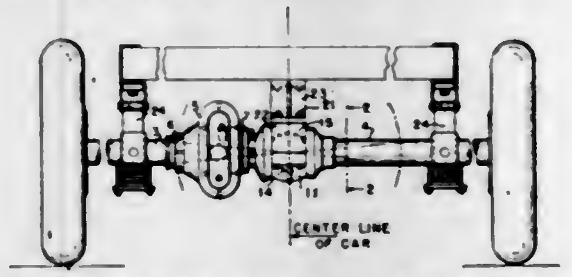
9. A machine for turning the platform covers of platform shoes comprising a U-shaped tool of small extent heightwise of the shoe and having a continuous edge, said tool being curved to conform approximately to the outline of an end of a shoe and adapted to be engaged within the platform cover of the shoe, an abutment engageable with the bottom of the shoe, and means for effecting relative movement between said tool and said abutment to cause the cover to be turned.

2,422,738
CONTROL FOR KNITTING MACHINES
Jesse J. Lentz, Statesville, N. C.
Application June 12, 1944, Serial No. 539,827
13 Claims. (Cl. 66—89)



1. In a full-fashioned knitting machine having a narrowing and widening spindle provided with a ratchet wheel and a vertically reciprocable member having means for engaging the ratchet wheel upon its upward movement and moving it one notch and having other means for engaging the wheel upon downward movement of said member and moving it one notch in the same direction as first moved, means on the wheel for shielding one notch of the wheel and preventing its being moved, upon downward movement of the reciprocable member by said other means but allowing the wheel to be moved upon the upward movement of the reciprocable member by the first means, the wheel having a projection thereon adapted to be engaged by said other means upon downward movement of the member to move the wheel two notches.

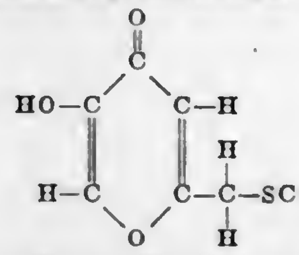
2,422,739
DRIVING AXLE CONSTRUCTION FOR INDEPENDENTLY SPRUNG VEHICLE WHEELS
Robert P. Lewis, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia
Application August 12, 1944, Serial No. 549,267
6 Claims. (Cl. 180—73)



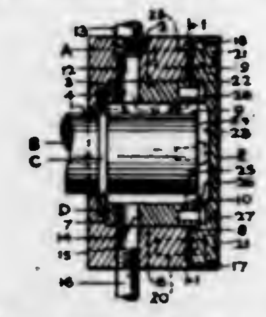
1. In a drive axle construction for independently sprung vehicle wheels, the combination of drive shaft sections, tubular housings enclosing the same, an intermediate shaft, a differential gearing including a housing mounted at one side on the tubular housing for one of the drive shaft sections, a hollow universal joint between the other side of the differential gear housing and the tubular housing for the other drive shaft section, the hollow universal joint having a hub on which the other side of the differential gear housing is mounted, the side gears of the differential gearing being mounted respectively on said one of the drive shaft sections and on the intermediate shaft, a universal joint between the intermediate shaft and said other drive shaft section, located within and concentric with the former universal joint, a housing for the hollow universal joint, separate and spaced from, and independent of, the differential gear housing, and means for supporting the hollow universal joint housing from the vehicle frame independently of the differential gear housing and the drive shaft housing.

2,422,740
2-THIOCYANOMETHYL-5-HYDROXY-1,4-PYRONE AND METHOD FOR PREPARING IT
Glen H. Morey, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application November 27, 1944, Serial No. 565,410
4 Claims. (Cl. 260—333)

1. 2-thiocyanomethyl-5-hydroxy - 1,4 - pyrone having the following structural formula:



2,422,741
PLAIN BEARING LUBRICATOR
Earle V. Morley, Oakland, Calif.
Application December 26, 1944, Serial No. 569,818
2 Claims. (Cl. 308—36.1)



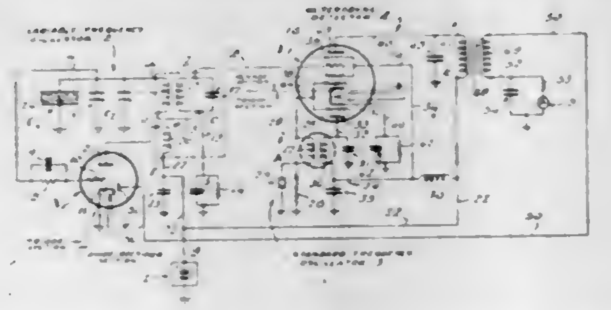
1. A plain bearing lubricator comprising a body having an opening therein for rotatably receiving a shaft and an enlarged cylindrical recess axially aligned with the opening and communicating therewith, an oil sealing ring placed in the recess and around the shaft for preventing a lubricant from escaping through the opening, a bushing receivable in the recess and having one end contacting with the oil seal ring, said bushing having longitudinally extending grooves on its inner surface for conveying a lubricant in contact with the shaft, a cover plate for the bushing, said plate having a groove therein placing the bushing grooves in communication with each other, the cover plate groove causing the lubricant to contact the end of the shaft, said body and bushing having aligned inlets communicating with one of the bushing grooves, said body and bushing having aligned outlets communicating with the other bushing groove, whereby a continuous flow of lubricant along the grooves is assured, and means for holding the bushing from rotating.

2,422,742
METER FOR MEASURING MOISTURE CONTENT
Paul H. Odessey, Brooklyn, N. Y., assignor, by mesne assignments, to Portable Products Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 5, 1942, Serial No. 433,438
13 Claims. (Cl. 175—183)

2. In a device of the measuring and controlling class which is sensitive to the capacity of an

element, the combination of a standard frequency oscillator; a variable frequency oscillator having a first electronic tube and a circuit for applying an oscillating voltage to said element at said standard frequency; a heterodyne circuit having an electronic frequency converter tube and a circuit coupling its control grid with the output of said first tube; and a control device electrically connected to said control grid and governed by the D. C. grid current of the first tube to automatically maintain substantially constant the oscillating output of said converter tube regardless of changes of the energy loss in said element.

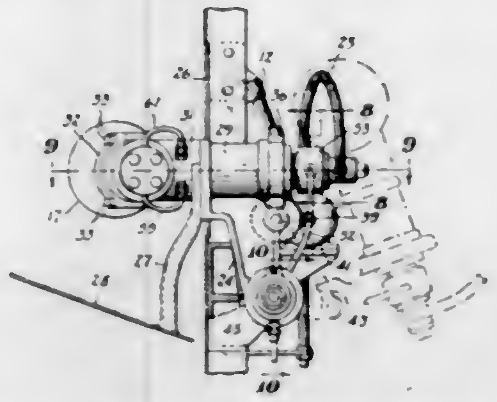
4. In a device of the measuring and controlling class which is sensitive to the capacity of an element having appreciable radio frequency energy loss, the combination of a standard radio frequency oscillator; a variable radio frequency oscillator having a first electronic tube and a circuit for regeneratively applying an oscillating voltage to said element at a frequency which depends upon the latter's capacity, and including means for bringing the variable frequency to that of the standard frequency oscillator; a heterodyne circuit having an electronic frequency converter tube and a circuit coupling its control grid with the output of said first tube; a control device governed by the grid current of the first tube to automatically maintain substantially constant the maximum oscillating output of said converter tube regardless of changes of the energy loss in said element; a meter whose indication depends upon the value of an impressed voltage; and means coupling said radio frequency oscillators with said meter and including a network having a transformer whose primary coil is connected with an output portion of said heterodyne circuit to vary the voltage across said primary coil in accordance with the difference between the variable and standard radio frequencies, a secondary coil connected to said meter to impress a voltage across said meter, and means for tuning the transformer to operate efficiently at a low audio frequency to provide a minimum voltage across the meter when the variable and standard radio frequencies are identical and a maximum voltage when the difference frequency is substantially equal to the stated tuned audio frequency.



2,422,743
PROCESS FOR PREPARATION OF AMINES
Walter K. O'Loughlin, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application May 13, 1944, Serial No. 535,545
3 Claims. (Cl. 260—583)

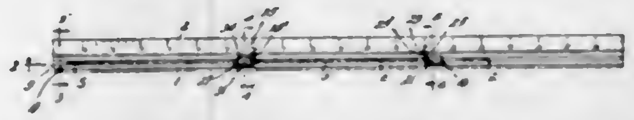
1. In a process for the preparation of primary alkylamines by the catalytic liquid phase hydrogenation at elevated temperatures between 75–150° C. and pressures up to about 500 lbs. per square inch of mixtures comprising ammonia and a ketone selected from the group consisting of acetone and methyl ethyl ketone, and a hydrogenation catalyst, the improvement which comprises introducing into said mixtures at the start of the process from about 2.5 to 45% of water based on the weight of ketone and ammonia present.

2,422,744
AUXILIARY JET POWER MEANS FOR AIRCRAFT
William F. O'Neil, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application September 30, 1944, Serial No. 556,558
3 Claims. (Cl. 244—74)



1. In an airplane having wings and a fuselage, a jet nozzle mounted on the fuselage for movement from a retracted position within the fuselage to an operative position outside the fuselage, means for supplying fuel to said nozzle, and means for automatically rendering said fluid supplying means inoperative when the nozzle is moved to retracted position.

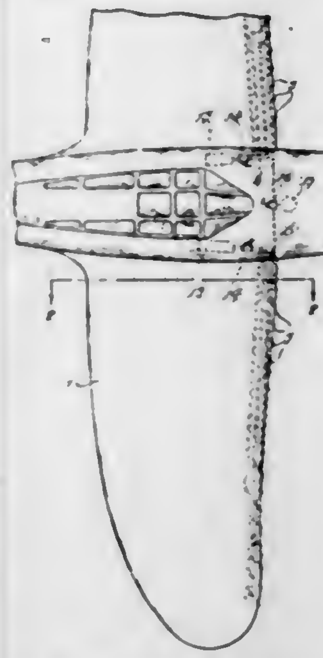
2,422,745
PROPORTIONAL RULER
Clarence S. Ost, Atlantic City, N. J.
Application February 14, 1945, Serial No. 577,796
6 Claims. (Cl. 33—107)



3. In a proportional ruler, a body having a central bore extending throughout its length, the upper portion of the body being cut out also throughout its length and the cut-out portion registering with said bore, an extension at the base of the body extending along the side of the body and adapted to carry graduations thereon, an elastic element mounted within said bore and having one end fixedly secured with relation to the body, a primary indicator secured to the opposite end of said elastic element and travelling within said bore; a secondary indicator also mounted within the bore and provided with a pointer adapted to lie opposite the said graduations and a latch having a substantially V shaped bend near its forward portion and means for locking and unlocking the said latch to the said elastic element.

2,422,746
AIRPLANE WING DEICER
William N. Patterson, Detroit, Mich., assignor to Patterson Industries Incorporated, Detroit, Mich., a corporation of Michigan
Application September 13, 1941, Serial No. 410,667
6 Claims. (Cl. 244—134)

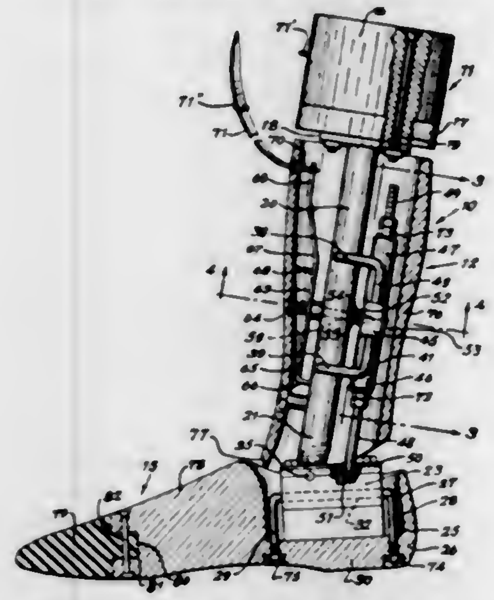
1. In de-icing apparatus for use in connection with airplanes and similar vehicles, the combination with an airplane wing, of a plurality of nozzles having jet openings having their axes directed along the surface of the front of the wing, means for supplying a high pressure gaseous medium through the said openings and means for supplying a non-freezing liquid through said jet openings to aid the fluid jet to tear the ice from the wing.



2,422,747
CELLULOSE ETHER PLASTIC AND A CANTEEN MADE THEREOF
John Prichard, Bloomfield, and David Flitter, Newark, N. J., assignors to Celanese Corporation of America, a corporation of Delaware
Application April 15, 1944, Serial No. 531,264
7 Claims. (Cl. 106—178)

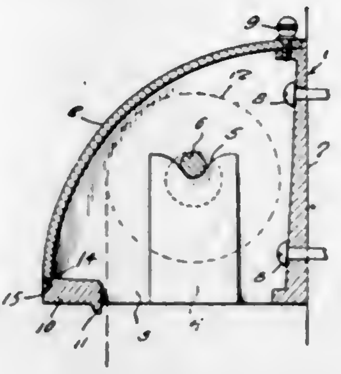
1. A high impact strength plastic material, suitable for use as water containers, of improved resistance to shock and to heat and cold, consisting of 100 parts by weight of ethyl cellulose having an ethoxy value of 45.5 to 46.8%, 5 parts by weight of refined mineral oil, and 12 parts by weight of butyl stearate.

2,422,748
ARTIFICIAL LIMB
Argiel W. Rogers, Long Beach, Calif.
Application April 25, 1945, Serial No. 590,141
5 Claims. (Cl. 3—2)



4. An artificial leg including a stump cup, a section and a foot, said cup being spaced above the leg portion, a tubular tibia member forming the spacing means, said member having transverse pivotal connection with the foot, a fibula member having slidable connection with the tibia member and normally limited pivotal connection with the foot, and resiliently biased means for limiting movement of the tibia member.

2,422,749
PAPER ROLL HOLDER
Jon N. Rougas, Brigham, Utah
Application February 2, 1945, Serial No. 575,827
1 Claim. (Cl. 242—55.5)

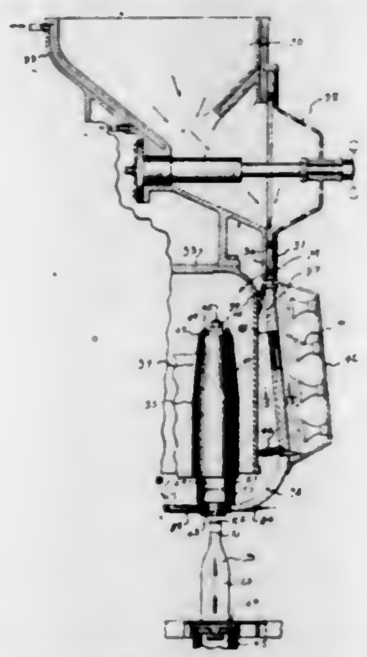


A paper roll holder comprising a body member having a rear wall portion and vertical side wall portions, and a cover member, said cover member comprising a curved wall element formed as a cylindrical quadrant, a transverse bar member extending between the lower front edge portions of said side wall portions and having a groove formed therein adapted to receive the lower edge of said cover member, said cover member being formed to extend between said side wall portions with its lower edge in said groove and its upper edge detachably secured to the top of said rear wall portion, said side wall portions being each formed with an internal vertical rib extending from the bottom edge of the side wall portion to an intermediate position thereon, the top of each rib being formed with a U-shaped seat, the seats being positioned so as to receive a transverse rod member and support said rod member in a horizontal position parallel to said rear wall portion.

2,422,750
PLASTIC BOTTLE CROWNER
Harold E. Rue, Wauwautosa, Wis., assignor to Pabst Brewing Company, Milwaukee, Wis.
Application June 5, 1943, Serial No. 489,771
8 Claims. (Cl. 226—80)

1. In a machine for crowning bottles with plastic preheated caps of the type having a top wall, a depending skirt and a sealing disc fitted against the inner surface of the top wall, a crowning head comprising a platform for initially receiving a cap and from which the cap is adapted to be picked up by a bottle, an axial hold-down and sealing plunger for centering the cap on the bottle with sealing pressure, an axially movable cage, a plurality of radially disposed sliding sealing plungers carried by the cage, means for forcibly urging the sealing plungers into engagement with the skirt of the cap for forming and molding the skirt of the cap about the bead on the bottle, said hold-down and sealing plunger including a plunger rod and a head, said head having an annular lower inclined cap centering surface, a universal joint connection between the head and rod, said universal joint connection including an axially disposed shank on the head terminating in a semi-spherical bearing member and said

shank having an enlarged opening therethrough, said rod having a semi-spherical socket for receiving the bearing member, and a pivot pin carried by the rod extending through the opening, the opening being of a greater diameter than the pin, whereby the head normally hangs on the pin.



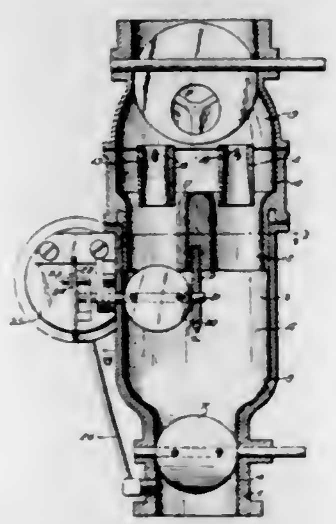
2,422,751

CARBURETOR

Edgar R. Schneider, St. Louis, Mo., assignor of one-tenth to said Schneider, as trustee for Olaf H. Anderson, Salt Lake City, Utah

Continuation of application Serial No. 487,701, May 20, 1943. This application January 12, 1944, Serial No. 518,204

6 Claims. (Cl. 261—41)



1. In a carburetor of the character described, a casing providing a single fuel mixture outlet at one end and a single air inlet at the opposite end, said mixture outlet being adapted for connection to an intake passage of an internal combustion engine, a manually operable throttle valve in said outlet, a primary mixture passage in the casing intermediate said inlet and said outlet, an auxiliary mixture passage in the casing in parallel with the first said mixture passage, a Venturi tube in each of said passages, a fuel jet operatively associated with each of said Venture tubes, a control valve in the downstream end of said auxiliary mixture passage, means normally tending to open said control valve, and a movable wall subjected on one side thereof to the pressure downstream of said manually operable throttle valve to close said control valve by predetermined engine suction.

2,422,752

ALPHA COPPER ALLOYS

Alan U. Seybolt, Columbus, Ohio, assignor, by mesne assignments, to Electro Metallurgical Company, a corporation of West Virginia

No Drawing. Application October 15, 1941, Serial No. 415,039

4 Claims. (Cl. 75—153)

4. An alpha copper alloy of the group consisting of an alloy composed of copper and columbium; an alloy composed of alpha brass and columbium; an alloy composed of alpha bronze and columbium; the columbium content of said alloy being between 0.02% and 1.5%; said alloy being capable of hardening by cold working and being characterized by its retention at elevated temperatures of hardness induced by such cold working as compared with similar alloys free from columbium.

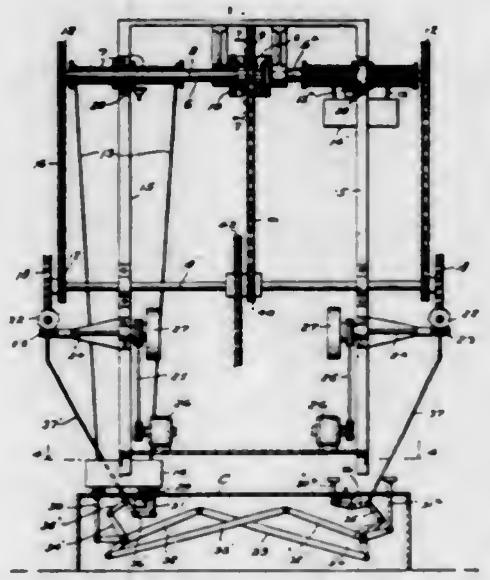
2,422,753

WEIGHT MOTOR AND POWER TRANSMISSION APPARATUS

Charles E. Sowerwine, Ames, Iowa

Application October 2, 1944, Serial No. 556,771

2 Claims. (Cl. 185—33)



1. In an apparatus of the character described, rotatably mounted spaced co-axial tubular shafts, a winding drum fixed on each of said shafts, a cable attached to each drum, a weight suspended by each cable, means to operate each drum for winding its cable thereon and thereby raising the associated weight, each operating means including gearing and a driving motor therefor, each gearing including a worm wheel and a worm movable into and out of engagement with said worm wheel to respectively effect winding of the cable on the drum to raise the weight and to permit unwinding of the cable from the drum to allow the weight to lower by gravity, switch means operable by each weight upon approaching its upward limit of movement to throw the associated motor out of operation, further switch means operable by each weight upon approaching its lower limit of movement to throw the associated motor into operation, means operable by each weight upon approaching its lower limit of movement to engage the worm of its associated gearing with the worm wheel thereof and to simultaneously disengage the worm of the gearing associated with the other weight from the worm wheel thereof, whereby the weights will be automatically alternately raised and allowed to lower, a driven shaft journaled in said tubular shafts, a ratchet driving connection between each tubular shaft and said driven shaft to effect driving of the latter by each aubular shaft upon lowering of the weight associated with the latter, and means for transmitting power from said driven shaft including a train of gearing having countershafts, and flywheels on said countershafts.

2,422,754

PREPARATION OF POLYVINYL ACETAL RESINS

Gelu Stoeff Stamatoff, Rutherford, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 13, 1943, Serial No. 479,055

11 Claims. (Cl. 260—73)

6. Process of preparing a polyvinyl acetal resin which comprises adding polyvinyl alcohol in a preponderantly water solution at a temperature of 25° C.–90° C., gradually over a period of at least two minutes and with agitation, to an aldehyde from the group consisting of benzaldehyde and saturated aliphatic aldehydes of the formula $C_nH_{2n}O$ wherein *n* is an integer from 2 to 7, inclusive, in the presence of an acid catalyst, at least 0.05 mol of aldehyde being present per 1.0 mol of polyvinyl alcohol added, the period during which said polyvinyl alcohol is gradually added, and the agitation given to the reactants being regulated so that the polyvinyl acetal resin formed is precipitated in a finelv divided state substantially free of tendency to agglomerate, and, thereafter. maintaining the reaction mixture under agitation and at a temperature of 40° C.–90° C. until the reaction of condensation between said polyvinyl alcohol and said aldehyde has proceeded to the desired end-point.

11. A polyvinyl butyral resin having the constitution, by weight:

	Per cent
Polyvinyl alcohol	15–22
Polyvinyl butyral	85–77
Polyvinyl acetate	Remainder

said resin being soluble in acetone and insoluble in water and made by the process which comprises adding polyvinyl alcohol in a preponderantly water solution at a temperature of 40° C.–60° C., gradually over a period of at least two minutes and with agitation, to butyraldehyde in the presence of an acid catalyst, at least 0.05 mol of butyraldehyde being present per 1.0 mol of polyvinyl alcohol added, the period during which said polyvinyl alcohol is gradually added, and the agitation given to the reactants being regulated so that the polyvinyl butyral resin formed is precipitated in a finely divided state substantially free of tendency to agglomerate and, thereafter, maintaining the reaction mixture under agitation and at a temperature of 40° C.–60° C. until the reaction of condensation between said polyvinyl alcohol and said butyraldehyde has proceeded to the desired end-point.

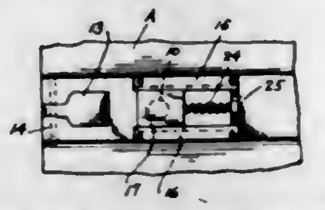
2,422,755

SAFETY DRILL

John Strother, Rome, N. Y.

Application April 27, 1944, Serial No. 532,990

2 Claims. (Cl. 192—129)



1. A safety device for an automatically driven drill having a power energy control medium, comprising a sliding safety cap closed at its top, sides and one end and laterally extending flanges formed integral with the bases of said closed side, for blocking the actuation of the said medium, and channelled rails slidably fitting said laterally extending flanges of said safety cap upon the drill for movements thereof to blocking and non-blocking position.

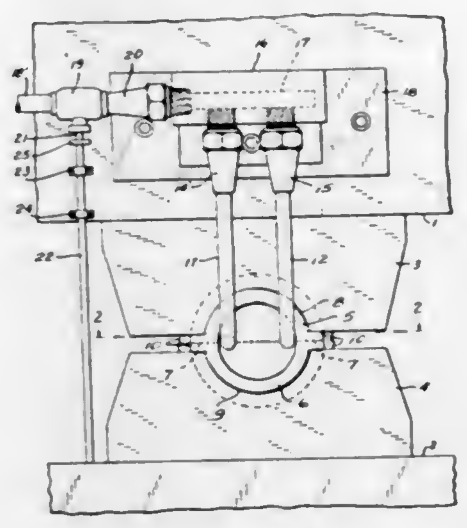
2,422,756

ELECTRIC RESISTANCE WELDING

John Struk and Robert W. Good, Brooklyn, N. Y., assignors to Murray Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York

Application March 14, 1944, Serial No. 526,419

3 Claims. (Cl. 219—4)



1. In an electric resistance welder in which two pieces of metal are welded with the formation of a burr, the combination comprising relatively movable, spaced electrode supports, electrodes carried by the supports arranged to accommodate two pieces of metal therebetween in contact with each other and upon the heating of the metal pieces in the area between the electrodes effect movement of the pieces toward each other whereby a weld is effected by the metal of one piece flowing into the other and a burr is extruded, a fluid jet positioned to direct a fluid along the weld, a source of oxidizing fluid under pressure connected to said jet, valve means interposed in the connection between the jet and the oxidizing fluid under pressure, and means operative as the weld is effected to actuate said valve means to permit the oxidizing fluid to be discharged from said jet along the weld, whereby the burr is reduced and blobs of metal removed.

2,422,757

HYDRAULIC BARKER

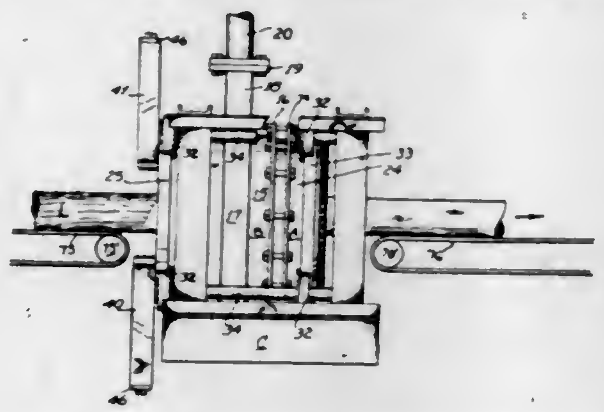
Frank H. Swift, Portland, Oreg.

Application January 17, 1944, Serial No. 518,629

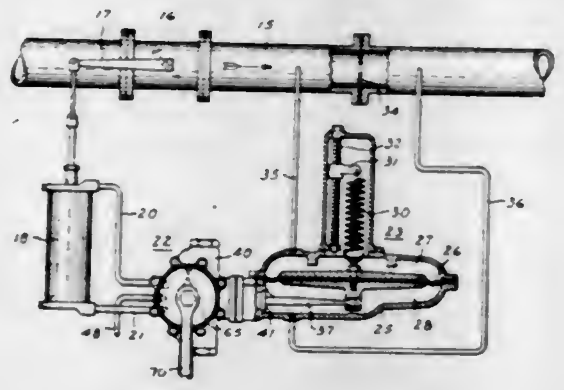
2 Claims. (Cl. 144—208)

1. In a hydraulic barker of the character described, a supporting frame, a rotating nozzle assembly, means mounted on said frame rotatably supporting said assembly and means for rotating said assembly, a debarking nozzle carried by said assembly, a central open space extending through said assembly, means for moving a log endwise through said open space, an annular stationary housing concentric with said rotating assembly, located between the longitudinal ends of said assembly and partially supported by said assembly, a ring port in said housing connecting with said assembly, means for delivering water under pres-

sure into said housing and thence into said assembly, and a spring on said supporting frame connected to said housing and acting to reduce the weight of said housing on said assembly.

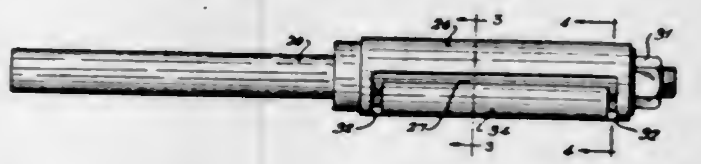


2,422,758
MANUAL CONTROL VALVE FOR REGULATORS
Paul C. Temple, Decatur, Ill., assignor to A. W. Cash Company, Decatur, Ill., a corporation of Delaware
Application January 12, 1944, Serial No. 517,956
3 Claims. (Cl. 121—46.5)



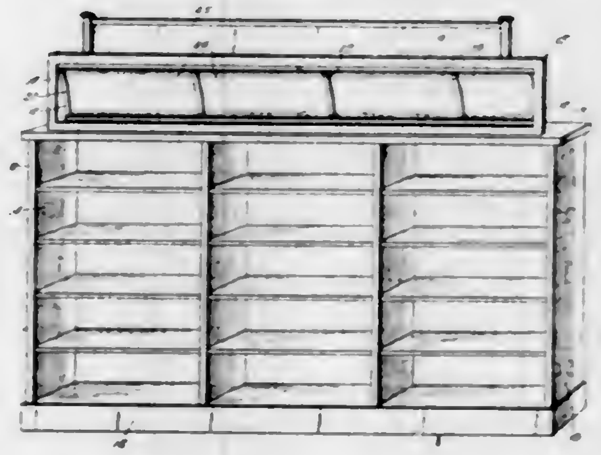
1. A regulator adapted to control the flow of pressure fluid for operation of a fluid motor comprising a casing providing an inlet chamber, an exhaust chamber and two intermediate chambers, a valve mechanism whereby the inlet chamber may be connected to one intermediate chamber while the other intermediate chamber is connected to the exhaust chamber and vice versa, a device connected to the valve mechanism to actuate the same automatically in response to variations in a control impulse, means providing a valve seat, means providing two motor ports opening at one end into the valve seat and arranged for connection at their other ends with the motor to operate the same in opposite directions, two ports opening at one end into the valve seat and connected at their other ends with the respective intermediate chambers, and two ports opening at one end into the valve seat and connected at their other ends with the exhaust chamber, a manually operable valve having a surface in engagement with the valve seat, and walls enclosing the valve and seat to provide a valve chamber in communication with the inlet chamber, the valve having two ports extending therethrough and grooves in its said surface so arranged that when the valve is in one position the grooves will connect the motor ports with the respective intermediate ports, when the valve is in a second position one valve port will be aligned with one motor port while the other motor port is connected by one of the grooves with one exhaust port, when the valve is in a third position the said one motor port will be connected by one of the grooves with the other exhaust port while the other valve port is aligned with the said other motor port, and when the valve is in a fourth position it will close both the motor ports.

2,422,759
HONE
Lawrence O. Thrun, Pine City, Minn.
Application March 23, 1945, Serial No. 584,325
4 Claims. (Cl. 51—194)



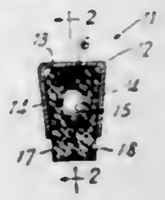
1. In an abrading tool, a shaft about which a roll of abrading material is adapted to be wound, a sleeve supported in spaced concentric relation to the shaft, said sleeve having an elongated longitudinal aperture in its periphery through which the abrading material is adapted to be payed out from the roll and wound about the sleeve to form a substantially cylindrical abrading surface on the exterior of the sleeve, said sleeve having a plurality of elongated transverse apertures communicating with the longitudinal apertures to form a yielding surface for the support of the abrading material.

2,422,760
DISPLAY DEVICE
Warren Tingdale, Chicago, Ill., assignor to National Transitads Inc., a corporation of Delaware
Application February 7, 1944, Serial No. 521,379
2 Claims. (Cl. 40—130)



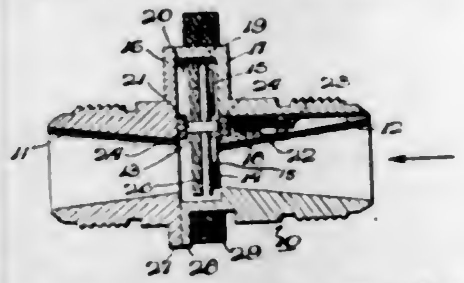
1. In a display device, a display counter having a display front, an advertising rack on the top of the counter comprising a horizontally elongated open frame having a transversely curved back with the top edge of the back affixed to the top edge of the frame and the bottom edge of the back located substantially rearwardly of the bottom edge of the frame, a horizontal mounting groove at the top edge of the back, a second horizontal mounting groove at the bottom edge of the back substantially shallower and wider than the top groove, a card unit mounted in said grooves comprising a resilient metal web having integral flanges extending along the sides of the web and forming a car card mounting means, and interlock means provided substantially in the center of said flanges for cooperation with a mounting means for drawing the edges of the web together.

2,422,761
WINDSHIELD WIPER
Henry A. Ungerland, Oceanside, N. Y.
Application November 1, 1944, Serial No. 561,335
2 Claims. (Cl. 219—19)



1. A windshield wiper comprising an elongated helical electric heating element, a relatively thick wrapper of insulating material substantially U-shaped in cross-section covering said element, said element nesting within the U against the inside of the base of the U between the arms of the U with said arms relatively short and brought together and extending from said element with their mutually adjacent surfaces in contact with each other thereby sealing said element, an elongated substantially channel-shaped housing having said wrapper and said element contained in the wrapper mounted therein with the base of said U in contact with the web of said member and with the flanges of said member in contact with said arms, said arms extending beyond the longitudinal edges of said flanges.

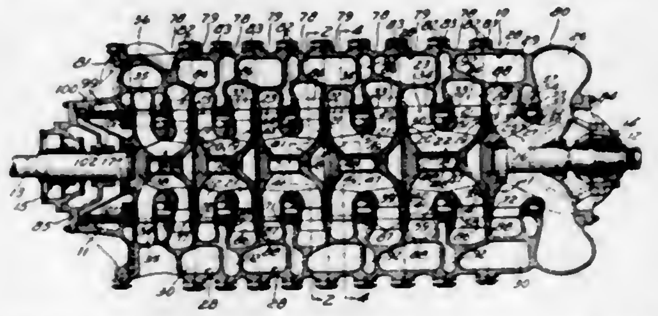
2,422,762
REMOTE INDICATING FLOWMETER
Harry A. Williams, Glenside, Pa., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 12, 1943, Serial No. 505,979
3 Claims. (Cl. 73—228)



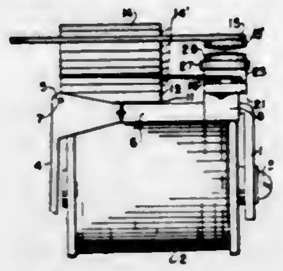
1. Apparatus for measuring the flow of fluid through a body having an inwardly converging bore and a throat portion at said inwardly converging portions, comprising an annular chamber around said throat portion, an impeller rotatably mounted in said chamber coaxially with said chamber and having a portion extending through said throat portion, resilient means adapted to oppose the rotation of said impeller, said impeller having circuit controlling means rotatably mounted therewith, an indicator for measuring the flow of fluid, means for moving said indicator in accordance with the rotations of said impeller, said means including a source of energy, a transmitter coil associated with said controlling means, repeater means in circuit with said transmitter coil and said source of energy, and indicator driving means mechanically connected to said repeater means.

2,422,763
CENTRIFUGAL COMPRESSOR
George F. Wislicenus, Summit, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application March 2, 1944, Serial No. 524,712
29 Claims. (Cl. 230—45)

1. In a centrifugal machine, a casing having a rotor chamber and a suction inlet and a discharge respectively communicating with said chamber, said casing having axially spaced stage fluid passages respectively communicating with said chamber, a rotor in said chamber, said rotor comprising stage impellers fixedly related in end to end relationship and each having a fluid passage generally U-shaped in cross-section, said second mentioned fluid passages arranged in operative series communication with said first-mentioned fluid passages and with said suction inlet and said discharge to provide a continuous fluid passage from said suction inlet to said discharge, inward flow and outward flow fluid deflecting vanes in the respective second mentioned fluid passages, said vanes being located at such radial distances from the axis of the rotor and co-acting with their respective impellers so as to resist deflection of the rotor without aid of an axial shaft, said impellers comprising axially spaced annular wall structures, annular spacers between said wall structures, shroud rings located between said wall structure, said wall structures, said spacers and said shroud rings being contoured to define said second mentioned fluid passages, said shroud rings comprising sections and the sections in each impeller being respectively connected with the inward and outward flow vanes therein, said casing having wearing surfaces in the planes of said wall structures arranged in co-active relationship with said first mentioned wearing surfaces, said second mentioned wearing surfaces having diameters at least equal to the outside diameters of the impellers whereby the rotor may be removed intact from said chamber.



2,422,764
ELECTROMAGNETIC RELAY
Fredric E. Wood, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application May 11, 1944, Serial No. 535,009
4 Claims. (Cl. 200—165)



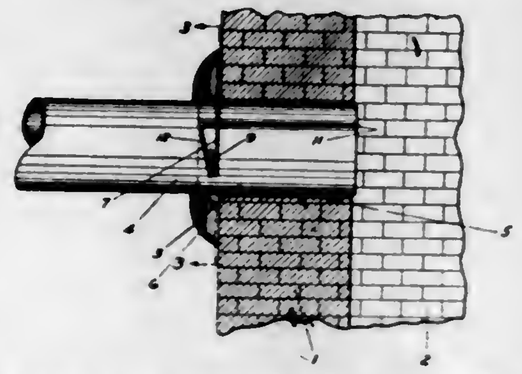
1. In a circuit closing arrangement, an operating member, a pair of contacts through which a circuit is to be closed, an insulating bar keyed to said member by means of a pair of holes in each end of the bar and pins on said member extending into said holes, a contact bar for engagement with said contacts, projections on said insulating bar, a flat bowed spring mounted between the contact bar and the insulating bar having slots in each end slidable over said projections when the spring is flexed, retaining means for limiting the movement of the contact bar away from said

member by means of said spring, a pair of tension springs engaging the ends of said projections and tending to move the contact bar away from said contacts, said bar moved to engage said contacts when the member is moved against the tension of said tension springs, said tension springs permitting free movement of said flat bowed spring along said projections when the flat spring is flexed or bowed, said tension springs and said flat spring acting together to cause a quick movement of the contact bar away from said contacts.

2,422,765

SAFE SMOKE PIPE HOLDER

Henry Yost, Kenton, Ohio
Application November 20, 1944, Serial No. 564,393
2 Claims. (Cl. 126—318)

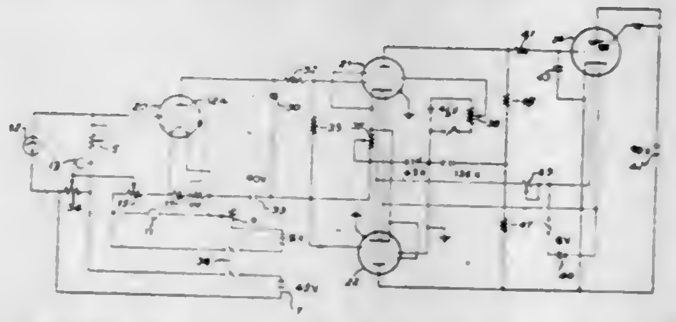


1. A guide and holder for supporting smoke pipes, having a semi-circular section bent or shaped to fit the pipe to be supported, portions on the extremities of said section which are bent to form diametrically opposed loops which extend outwardly from the ends of said section and lie in substantially the same plane as said body, legs connected by inclined short lengths to each loop, said legs extending transversely of said section and adapted to enter a wall opening in which the end of the pipe may be placed, and hooks on the ends of the legs which are bent inwardly thereof and in-parallel relation with said legs, which are adapted to be positioned over the end of said pipe to limit the insertion of the pipe into the wall opening receiving the pipe.

2,422,766

PEAK TRANSIENT METER

Donald F. Alexander, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 30, 1942, Serial No. 467,422
5 Claims. (Cl. 171—95)

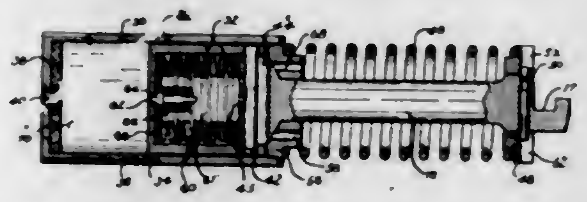


1. Means for receiving a plurality of unidirectional pulses of variable amplitude, means for rendering only the peaks of said pulses effective, a storage condenser, means for applying said peaks to said storage condenser, a timing circuit associated with said condenser for discharging said condenser at a given rate whereby the charge present on said condenser is indicative of the average peak values of said pulses, and means for indicating said average peak values.

2,422,767

PNEUMATIC BARREL BUFFER FOR GUNS

Louis A. Anderson, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application August 26, 1943, Serial No. 500,161
5 Claims. (Cl. 89—1)

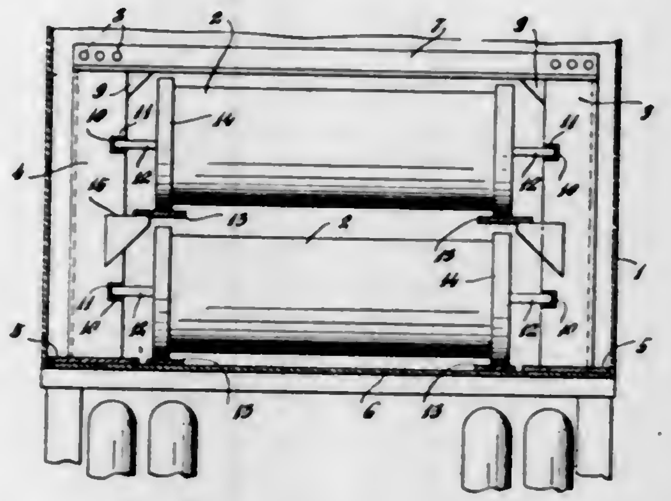


2. In a rapid firing gun, a breech housing, a barrel, a barrel extension within said breech housing, a pneumatic buffer arranged to absorb energy of recoil of said barrel and barrel extension, said buffer having piston means operating within a cylinder for compressing a body of gas, said piston having a substantial clearance within said cylinder, and a resilient connection between said piston and said barrel extension, said connection being such that it will not be substantially compressed until after the gas has been substantially compressed, said resilient connection comprising a plurality of Belleville washers disposed within said piston.

2,422,768

SECTION SPOOL CONVEYOR AND DISPENSER

George F. Benn, Greensboro, N. C., assignor to Carter Fabrics Corporation, South Boston, Va., a corporation of North Carolina
Application June 16, 1945, Serial No. 599,921
4 Claims. (Cl. 214—83)



1. A vehicle having a body open at its rear end, a frame in said body extending longitudinally therein and having side standards and transversely extending cross bars secured at their ends to upper ends of the standards, flat strips extending longitudinally of the frame inwardly of the standards and constituting tracks for engaging under ends of spools and mounting the spools for rolling movement longitudinally of the frame into and out of the body through the open rear end thereof, strips of channel metal carried by said standards at inner side edges thereof and open along their inner sides for receiving ends of shafts of the spools, a shaft rotatably mounted across the front end of said frame, shafts rotatably mounted between side walls of the body and opposite sides of the rear end of the frame, one of the last mentioned shafts constituting a drive shaft, sprocket wheels carried by said shafts, sprocket chains extending longitudinally of the frame and trained about the sprocket wheels, socket members carried by said chains for receiving shafts of spools and rolling the spools along the tracks as the chains are moved, guide strips extending longitudinally of said frame inwardly of the standards and engaging the chains to support the chains against sagging and prevent misplacement of the socket members from shafts of the spools, a ratchet wheel carried by the drive shaft, a pawl pivotally mounted and yieldably held in engagement with the ratchet wheel, and a latch movable into and out of engagement with the ratchet wheel.

2,422,769

LUBRICANT

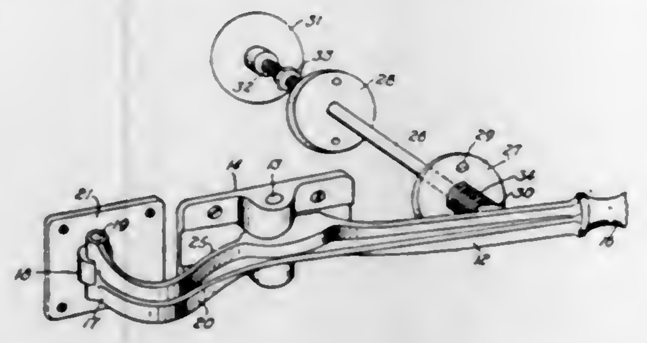
Edward S. Blake and Kenneth L. Godfrey, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 17, 1944, Serial No. 540,890
9 Claims. (Cl. 252—48.6)

1. A composition of matter comprising a major proportion of a lubricating oil and in admixture therewith in such proportion that extreme pressure properties are imparted to the oil a chlorbenzyl ester of an alkyl xanthic acid, the chlorine being linked to the phenyl nucleus of the said benzyl group.

2,422,770

DOOR CONTROL APPARATUS

Chase Blum, Cincinnati, Ohio
Application December 1, 1944, Serial No. 566,127
2 Claims. (Cl. 268—72)



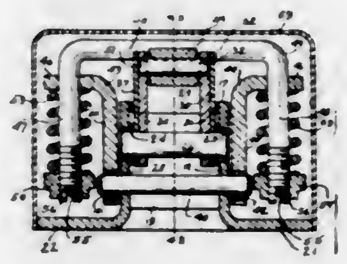
1. A door opener comprising in combination, a lever having a handle end and a contact end, and means for pivoting said lever on the door for rocking movement in a plane normal to the door, with the contact end thereof projecting beyond an edge of the door to overlie the door frame, the pivot means being so located upon the lever as to advance the contact end toward the door frame, upon displacement of the handle end away from the plane of the door, a striker element on the door frame, and anti-friction means on the contact end of the lever, in constant engagement with the striker element while the door is closed, a shaft extending through the door for displacing the handle of the lever, and a spring associated therewith to yieldingly maintain said constant engagement between one end of the shaft and the handle end of the lever, a hand grasp on the opposite end of the shaft for manually reciprocating the shaft, and adjustable stop means on the shaft between the hand grasp and the spring for limiting reciprocation of the shaft in the direction of displacement of the handle to the door opening position.

2,422,771

DOOR FASTENER

Chase Blum, Cincinnati, Ohio
Application April 13, 1945, Serial No. 588,112
11 Claims. (Cl. 292—79)

What is claimed is:

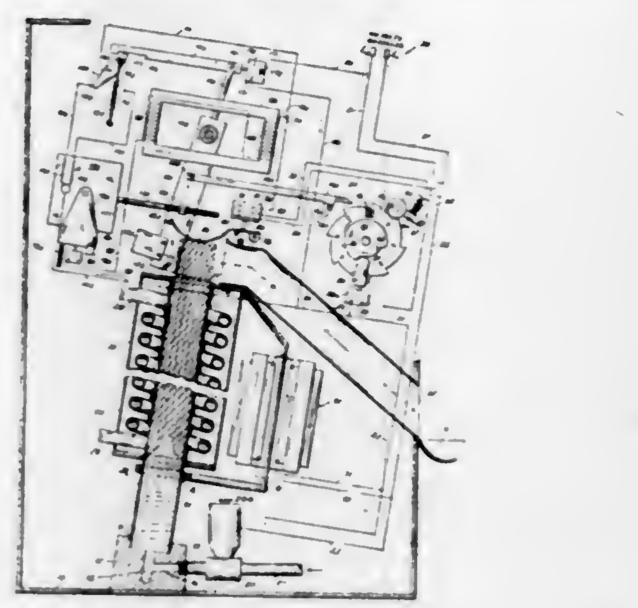


1. In a fastener of the class described, the combination of a supporting bracket, a perforated latching elements carrier, latching elements each including a roller shaft shiftable axially in the carrier perforations, a shaft retainer including spaced arms embracing the latching elements carrier and overlying the roller shaft ends to prevent axial shifting of the shafts relative to the carrier, means for oscillatably mounting the latching elements carrier and shaft retainer as a unit on the supporting bracket for oscillation to and from fastening and unfastening positions, and spring means pivotally mounted on said supporting bracket for holding the latching elements carrier and shaft retainer in their fastening and unfastening positions.

2,422,772

ICE CUBE DISPENSER

Donald I. Bohn, Pittsburgh, Pa.
Application November 11, 1944, Serial No. 562,925
19 Claims. (Cl. 62—2)

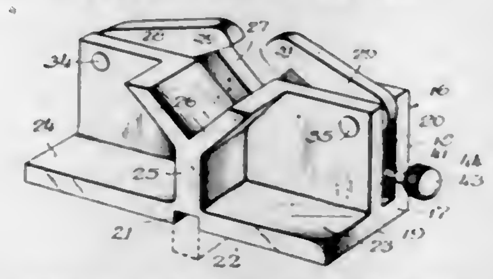


2. An ice cube dispenser comprising means for freezing a column of fluid; means for moving said frozen column in one direction; and a cut-off member for cutting off sections of said column as it moves in said one direction; and manually operated switch means for initiating the operation of said column moving means; and a connection between said cut-off member and said manually operated switch means to re-set said switch to neutral position on completion of the cutting operation; means for setting said switch means for a predetermined number of cubes; said re-setting connection operating said switch means step by step to neutral as the predetermined number of cubes is cut.

2,422,773

TOOLMAKER'S UTILITY BLOCK

Richard H. Colwill, Chicago, Ill.
Application July 24, 1945, Serial No. 606,787
6 Claims. (Cl. 90—60)

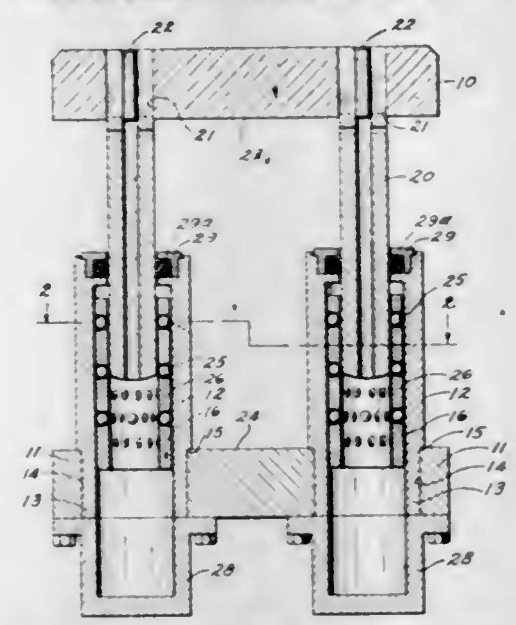


1. A utility block of the character described comprising, an angle plate provided with two upright walls defining a slotted recess therebetween, and a V portion located at right angles to the said two upright walls, bell-crank clamping elements articulately secured within the said slotted recess having forked ends at one of their termini, right and left hand threaded bearing elements provided with trunnions articulately confined in the said forked ends, and right and left hand threaded stud means engaging the said threaded bearing elements to govern the motivation of the free ends of the said bell-crank clamp elements to releasably confine a piece of work in the said V portion.

2,422,774

DIE SET

Guy O. Conner, Bedford, Ohio
Application January 22, 1944, Serial No. 519,284
22 Claims. (Cl. 164—118)



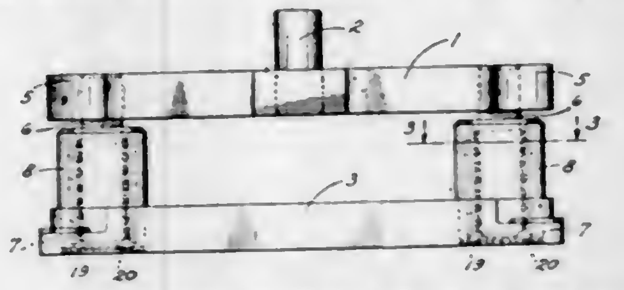
1. An apparatus of the class described comprising members adapted for relative movement toward each other, means to maintain alignment between the members comprising one or more posts carried by the one member and reciprocable in sleeves in the other member and means between the post and sleeves to decrease friction and hold the sleeves and posts against lateral movement relative to each other.

2,422,775

DIE SET

Guy O. Conner, East Cleveland, Ohio
Application June 2, 1945, Serial No. 597,321
31 Claims. (Cl. 164—118)

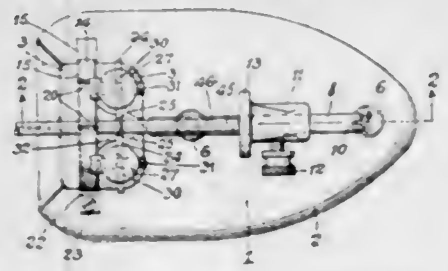
1. An apparatus of the class described, comprising die parts supporting members adapted for movement toward and from each other, guide means for maintaining alignment of said members during their movement including one or more posts carried by one of said members and one or more sockets carried by the other member, said posts and sockets being of polygonal cross section and anti-friction members disposed between said post and socket walls to provide a loaded rolling engagement therewith.



2,422,776

WIRE STRIPPER

Walter F. Cunny and Harvey E. King, Jr., Sycamore, Ill., assignors, by mesne assignments, to Ideal Industries, Inc., Sycamore, Ill., a corporation of Delaware
Application September 22, 1944, Serial No. 555,299
3 Claims. (Cl. 81—9.51)

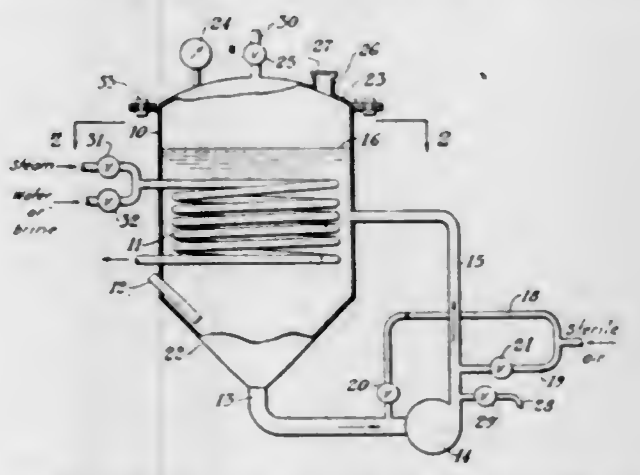


1. In combination in a wire stripper, a base, a pair of blades and a carrier for each blade, said carriers mounted for rotary movement in said base, and spring means connected to each of said carriers, and effective, when free to do so, to move the carrier to bring the blades into alignment with each other, and equalizing means effective upon said carrier moving means, said equalizing means comprising an arm pivoted on said base, and joined to said carrier moving means.

2,422,777

METHOD FOR PRODUCING PENICILLIN BY MOLD CULTURE

George M. Eisenberg, Philadelphia, and Joseph L. Metzendorf, Jenkintown, Pa., assignors to J. T. Baker Chemical Company, Phillipsburg, N. J., a corporation of New Jersey
Application December 6, 1944, Serial No. 566,896
8 Claims. (Cl. 195—36)

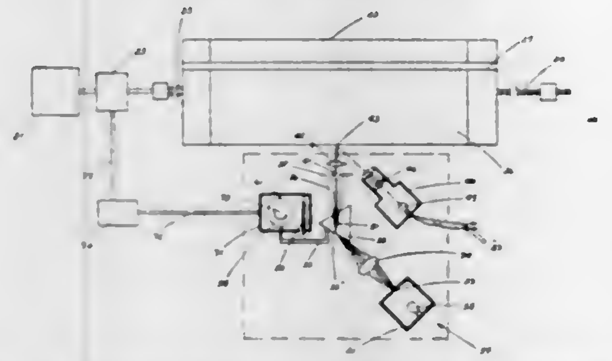


4. The method for culturing a penicillin-producing mold which includes: inoculating a liquid culture medium with a penicillin-producing mold; continuously withdrawing a portion of the inoculated medium from the culture vessel; continuously dispersing air substantially uniformly and in finely divided form throughout the withdrawn portion; and returning the medium containing the finely dispersed air to the culture vessel below the surface of and tangentially to the body of the liquid therein to impart thereto a violent swirling agitation and thereby to delay the escape of the dispersed air from the body of the liquid.

2,422,778

COLOR FACSIMILE SYSTEM

William G. H. Finch, Newtown, Conn.
Application February 15, 1945, Serial No. 577,975
3 Claims. (Cl. 178—5.4)

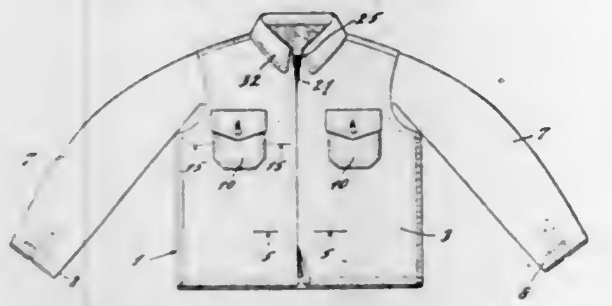


1. In a facsimile transmitter, a scanning device, comprising a drum upon which a picture is mounted, and a motor mechanism for rotating said drum in a predetermined manner; means for inducing longitudinal motion of said drum, a white light source, a prism, means for focusing light from said source on said prism, said prism separating the light into a spectrum, means for focusing said portion on an element of said picture, means comprising a lens system and photo cell for converting light reflected from said picture into electric currents; and means comprising mechanical linkages operably connected to said motor mechanism for oscillating said prism to present each portion of said spectrum to said means for selecting a said portion of said spectrum in a predetermined manner, said drum being arranged to rotate and translate axially in such a manner that each said portion of said spectrum scans each element of said picture once.

2,422,779

GARMENT

Eleanor Fligel, New York, N. Y.
Application March 7, 1945, Serial No. 581,519
7 Claims. (Cl. 2—93)

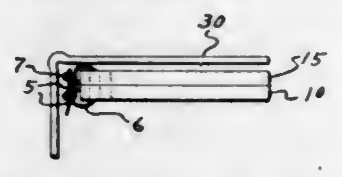


1. A reversible garment having a plurality of contrasting faces and comprising an inner portion having the form of a complete garment and an outer portion having the form of a complete garment, said inner and outer portions having a common reversible collar including two layers of material, one layer of which is connected along its bottom edge to the upper edge of said inner portion and the other layer of which is connected along its bottom edge to the upper edge of said outer portion, said layers being connected together along their top and end edges, means connecting one front edge of said inner and outer portions together and means connecting the other front edge of said portions together, complementary fastening devices for securing said front edges together when two faces of said portions are arranged in opposed relation and complementary fastening devices for securing said front edges together when the other two faces of said portions are arranged in opposed relation.

2,422,780

BOOKBINDING DEVICE

J. Hubert Garrett, Culver City, Calif.
Application January 19, 1945, Serial No. 573,601
4 Claims. (Cl. 281—16)

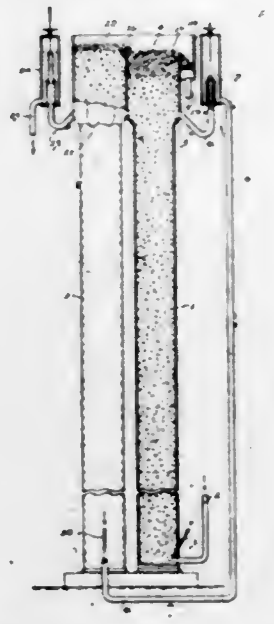


4. In a device for binding together into book form sections having their binding edges alternately slotted and recessed, a pair of parallel juxtaposed strips each presenting along one side edge longitudinally spaced projecting tabs forming loops engageable in the respective perforations of a section, one of the strips presenting adjacent its opposite side edge a plurality of longitudinally spaced slots each disposed in a plane between adjacent tabs of the strip, and the other of the strips presenting along its opposite edge a plurality of longitudinally spaced ears forming loops hingedly engageable in said respective slots.

2,422,781

GAS PURIFICATION APPARATUS AND METHOD

Herbert A. Gollmar, Mount Lebanon, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application August 29, 1944, Serial No. 551,751
7 Claims. (Cl. 23—225)



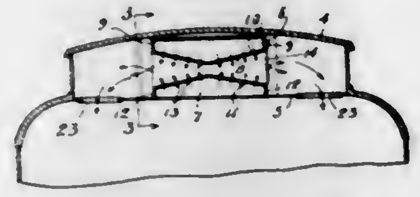
1. A process for regenerating for reuse a fouled thioarsenate solution flowing from an absorber for the removal of hydrogen sulphide from gases,

comprising: maintaining the fouled thioarsenate solution in a continuously flowing stream through two columns of soution in series, introducing air at the foot of each column sufficient in amount and pressure to regenerate fouled thioarsenate solution and to promote flotation of liberated sulphur as a foam blanket thereabove, rapidly flowing the foam blanket with solution from the second to the top of the first column in the solution flow series to remove the sulphur from the regenerated thioarsenate solution flowing in the second column, returning regenerated solution to an absorber for reuse, maintaining a deep body of slowly settling foam above the first column to minimize the solution content in said sulphur foam as flowed from said column to disposal means therefor, and removing sulphur foam from the top of the deep body.

2. Apparatus for treating a liquid to separate solids therefrom comprising: a plurality of towers closed at their bottoms, connecting means between the towers for the flow of liquid in series from the bottom of the first tower to the top thereof and from the top of the first tower to the bottom of the following tower for upward and downward flow paths respectively, through the towers and connecting means, means to introduce liquid into the bottom of the first tower and to force the liquid upwardly to the top thereof under hydraulic pressure, means for introducing a gas into the bottom of each of said towers capable of precipitating solids from the liquid, an outlet for liquid from the upper portion of the final tower, means for maintaining different liquid levels in the towers in stepwise relation with the level of the first tower as the lowest level, means for collecting a foam containing solids separated from the liquid by the gas at the top of each tower, means for flowing said foam in stepwise manner from the final to the first tower, and means for separating from the first tower the accumulated foam containing solids.

2,422,782
OVERHEAD AIR DISTRIBUTING DUCT FOR VEHICLES HAVING MEANS FOR MIXING COLD AND RECIRCULATED AIR

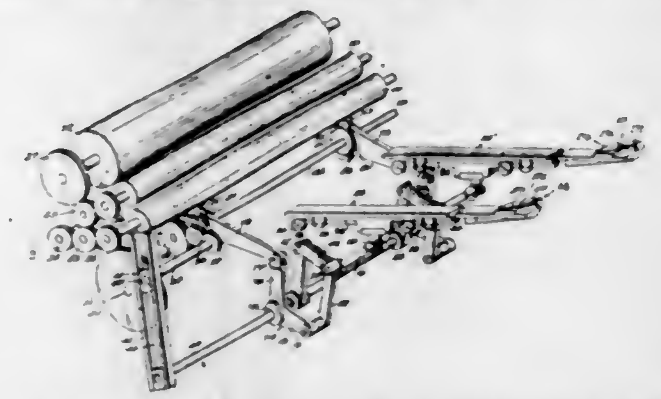
Harold Hemming, Dedham, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application September 26, 1944, Serial No. 555,793
3 Claims. (Cl. 98—10)



1. An air conditioning system for an area to be conditioned, said area having a ceiling, comprising a pair of superimposed aligned ducts enclosed in the space above said ceiling, the upper of said ducts having a lower wall spaced above the upper wall of the lower of said ducts, means for chilling air, means for supplying the chilled air, under pressure, into one of said ducts, means for supplying air recirculated from the space served with conditioned air, under pressure, into the other of said ducts, said walls having a plurality of apertures formed therein for projecting air from said ducts into the space therebetween, and means forming outlets in said ceiling on opposite sides of said ducts and extending parallel thereto for distributing into said space, the mixed air from said ducts.

2,422,783
SKIP FEED MECHANISM

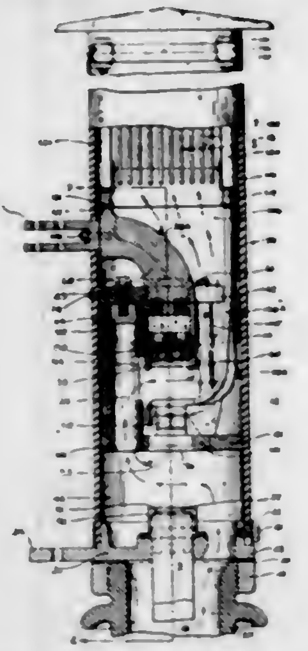
Charles Jacobson, New York, N. Y., assignor to S. & S. Corrugated Paper Machinery Co. Inc., Brooklyn, N. Y., a corporation of New York
Application November 30, 1942, Serial No. 467,344
8 Claims. (Cl. 271—44)



1. In apparatus for feeding successive blanks from the stacks, a feed arm, means for causing said feed arm to oscillate back and forth beneath said stack, means on the end of said feed arm engageable with the back end of a blank at the bottom of said stack upon completion of the stroke of said oscillating feed arm in one direction, said means feeding said blank out from said stack on movement of said arm in said opposite direction, and means for alternately changing the degree of travel of said feed arm causing said feed arm to move to engage in blanks at the bottom of the stack in each alternate stroke and causing said feed arm to move to a position short of the back end of the blank in the bottom of the stack in each interpolated stroke.

2,422,784
CIRCUIT BREAKER

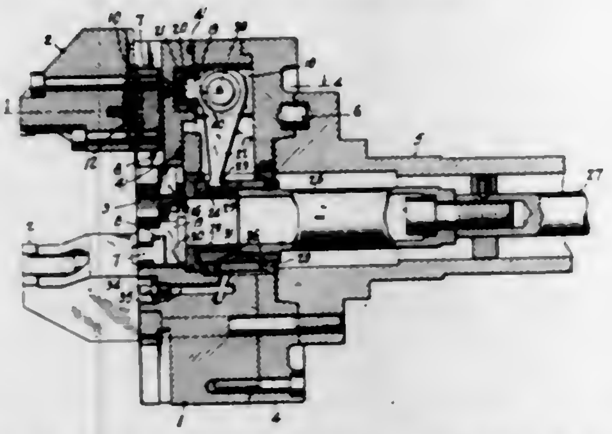
Otto Jensen, Malvern, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 30, 1944, Serial No. 556,502
8 Claims. (Cl. 200—148)



1. In a circuit interrupter having a movable contact and a complementary contact, a fluid blast arc extinguisher comprising a principal chamber; and a source of fluid under pressure connected to said principal chamber; said principal chamber being arranged to direct said fluid in a path substantially parallel to the path of movement of the movable contact; means controlled by said movable contact in the first part of its movement for interrupting the circuit controlled by said interrupter and in the further movement effecting an isolating break in series with said interruption; and means in said chamber for directing said fluid in a sinuous path; said path intercepting the path of movement of the movable contact in a plurality of regions.

2,422,785
AIR CHUCK

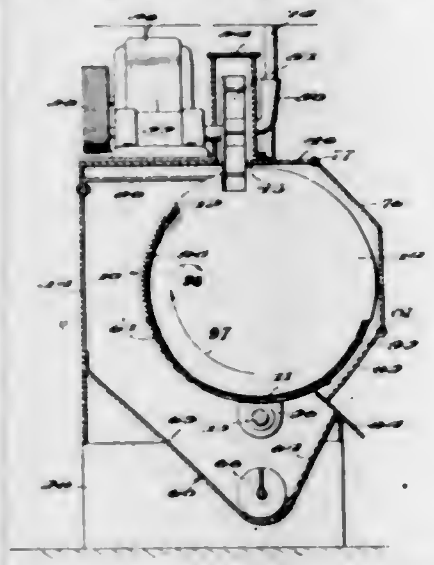
Charles H. Johnson, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application December 21, 1943, Serial No. 515,123
9 Claims. (Cl. 279—119)



7. In a chuck of the class described, a cylindrical chuck body, a plurality of radially movable jaws mounted on the front face thereof, said body having separate circumferentially spaced recesses in its rear face behind said jaws for housing corresponding actuating levers with openings in its front face for connecting the levers with the respective jaws, said jaws closing the front openings in the body, a jaw actuating lever disposed in each recess and pivoted in said body, said levers being individually removable from said recesses to the rear of the chuck body without removal of the corresponding jaw, and a back plate secured to the rear face of the body for closing said recesses to the rear.

2,422,786
TUMBLING MILL AND METHOD OF TUMBLING

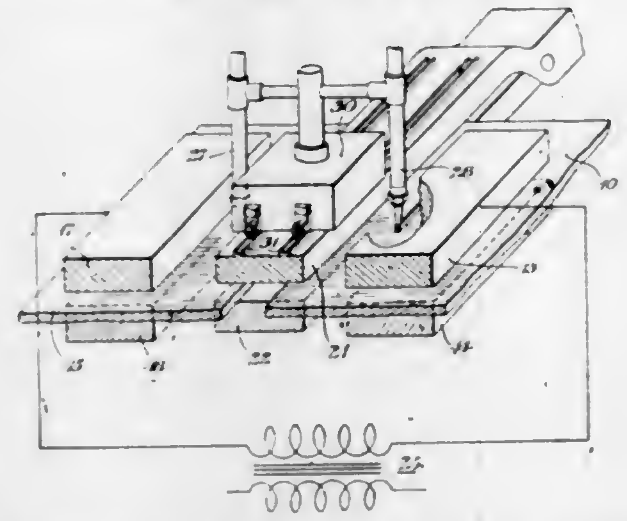
Walter L. Keefer, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application August 31, 1944. Serial No. 552,137
27 Claims. (Cl. 51—9)



10. In a tumbling mill, a unitary shell including a substantially horizontal portion and an arcuate portion extending upwardly from the horizontal portion and constituting the sole support for a group of articles, eccentric means coupled to the substantially horizontal portion of the shell, means rotating said eccentric means to move the horizontal portion of the shell in an orbital path and in timed relationship to free falling of the articles to thereby advance the articles along the horizontal portion for guided movement upwardly along the arcuate portion of the shell to a position where the articles tumble downwardly.

2,422,787
METHOD AND APPARATUS FOR TRIMMING AND BUTT WELDING THE ENDS OF METAL STRIPS, PLATES, AND THE LIKE

Henry O. Klinke, Forest Hills, N. Y., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application February 8, 1946, Serial No. 646,282
11 Claims. (Cl. 219—4)



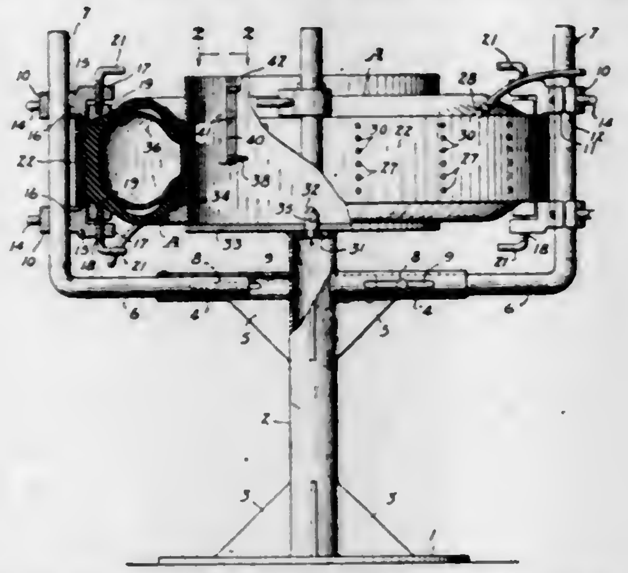
8. The method of trimming and butt welding the adjacent ends of metal strip sections, plates, and the like, which comprises clamping the end portions of the strip sections at opposite sides of the region where the trimming and welding is to be effected and along areas which are spaced apart longitudinally of the strip sections and which extend transversely of them, clamping the adjacent edge portions of the strip sections to be severed, heating the end portions of the strip sections which lie inwardly of said spaced clamped areas to approximately red heat, thermochemically cutting the end portions of the strip sections along transverse lines while they are thus heated to approximately red heat to sever the adjacent edge portions of the strip sections, withdrawing the severed edge portions of the strip sections while still clamped, and moving the trimmed and still clamped end portions of the strip sections together to effect a butt weld between the trimmed edges of the strip sections while they are at welding temperature.

2,422,788
RETREAD VULCANIZING DEVICE

Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 24, 1945, Serial No. 574,230
11 Claims. (Cl. 18—18)

7. Retread vulcanizing apparatus comprising a mold support having a series of uprights angularly spaced with respect to the center thereof and mounted for radial adjustment toward and away from said center, means for securing said uprights in adjusted positions, mold supporting

and positioning members on the uprights providing ledges upon which the bottom edge of a tread mold may rest, positioning members above the supporting members adjustably mounted on the uprights and engageable with the top edges of a tread mold, vertically disposed screws carried by each of said members, a clamping block swiveled to the upper ends of each lower screw and to the lower end of each upper screw, the upper and lower blocks having oppositely inclined faces engageable with shoulder portions of a tire casing inwardly of the tread mold.



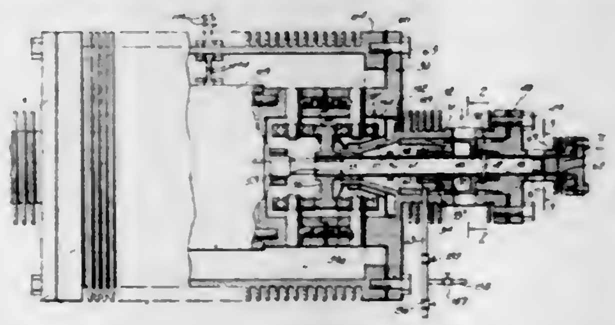
2,422,789

COMPRESSOR-MOTOR APPARATUS

Allen Latham, Jr., Jamaica Plain, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

Application June 20, 1944, Serial No. 541,159

28 Claims. (Cl. 230—185)



1. In a compressor-motor of the character described, the combination comprising a rod, fixed bearing means arranged to fixedly maintain the axial alignment of said rod and to afford longitudinal and rotational movement of said rod, a rotatably mounted power shaft in axial alignment with said rod, power transfer means between said shaft and said rod adapted to afford simultaneously continuous rotary motion of said shaft and reciprocatory and continuous rotary motion of said rod, a peripherally cylindrical piston fixed to said rod in coaxial relation thereto, a cylinder surrounding said piston and coaxial therewith and arranged for reciprocation of said piston therein, the peripheral wall of said piston being in close proximity to the inner wall of said cylinder and maintained out of pressure-contact therewith by said bearing means for said rod, chamber means which includes surface of said piston and inner wall surface of said cylinder and the capacity of which is variable upon reciprocation of said piston, an inlet for said chamber means, an outlet for said chamber means, inlet valve means for controlling said inlet, and outlet valve means for controlling said outlet, said inlet and outlet and said inlet valve means and said outlet valve means being arranged to successively direct ingress of gaseous material into said chamber means and egress of gaseous material from said chamber means during the intake and discharge strokes respectively of said piston in said cylinder.

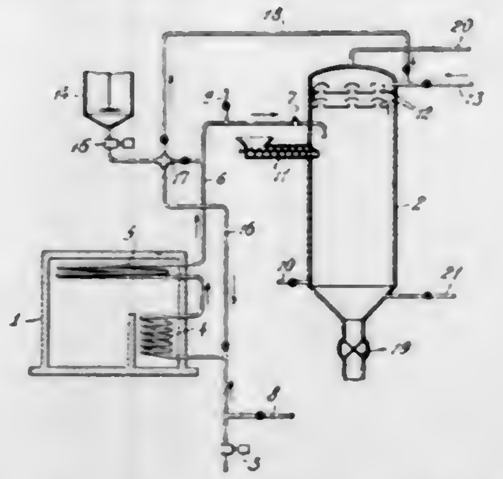
2,422,790

METHOD OF COKING OILS

Russell Lee and Henry D. Noll, Wenonah, and Vladimir A. Kalichevsky, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application December 19, 1940, Serial No. 370,813

4 Claims. (Cl. 196—55)



1. A method for preparing charging stock for catalytic cracking which comprises heating petroleum charging stock to a temperature sufficient to cause distillation to dryness, introducing the stock so heated into a vertically elongated chamber near the top thereof for free fall therein, maintaining said chamber substantially free of combustion supporting gas and products of combustion, introducing a flowing stream of granular contact mass material into said chamber below and in the path of fall of the heated stock, the flowing stream of contact mass material receiving the flowing stream of charging stock within said chamber in such manner that the vaporization takes place with the deposition of coke substantially wholly upon said contact mass without substantial alteration of the flow characteristics thereof, and separately removing vapors and coke carrying contact mass from the top and bottom respectively of said chamber.

2,422,791

ENDOTHERMIC CATALYTIC CONVERSION OF HYDROCARBONS

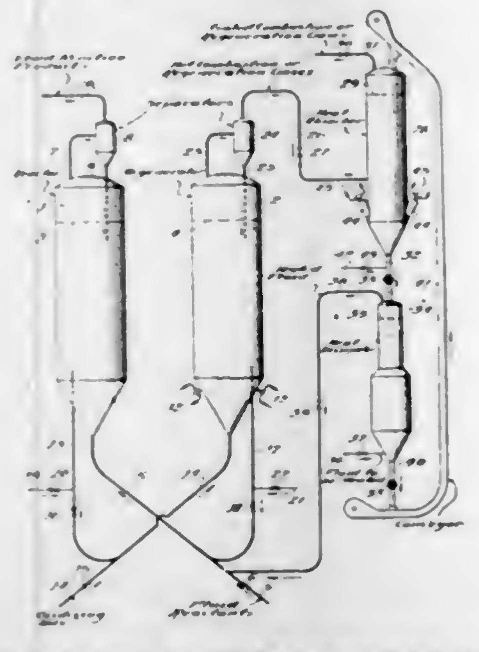
Frederick W. Leffer, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application July 30, 1945, Serial No. 607,889

17 Claims. (Cl. 196—52)

1. A continuous process for the endothermic catalytic conversion of hydrocarbons which comprises contacting the hydrocarbon conversion charge in a reaction zone with subdivided catalyst particles at reaction temperature for a sufficient time to effect the endothermic conversion, removing contaminated catalyst particles from said reaction zone and burning carbonaceous matter therefrom in a regenerating zone, separating resultant combustion gases from regenerated catalyst particles and returning the latter to the reaction zone at a temperature and in a quantity insufficient to furnish all of the heat of the

endothermic reaction, simultaneously maintaining a separate cyclic flow of solid subdivided heat retentive material different from said catalyst through a heat absorption zone and a heat dissipating zone, contacting separated combustion gases from the regenerating zone with the heat retentive material in the heat absorption zone and heating said material in the last named zone to a temperature substantially above that of the regenerated catalyst particles supplied to the reaction zone, transferring heat from said heat retentive material to a fluid heat transferring medium by direct contact of the latter with said heat retentive material in the heat dissipating zone, and supplying heated heat transferring medium from said heat dissipating zone to the reaction zone at a temperature and in a quantity sufficient to adiabatically accomplish the endothermic conversion in the last mentioned zone.



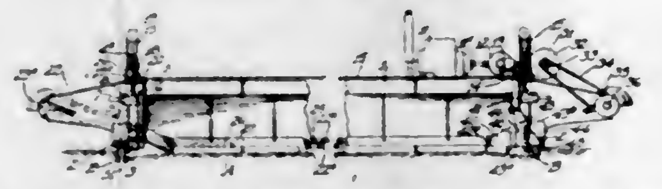
2,422,792

CARRIAGE MEANS FOR ROAD VEHICLES

William Hurst Lewis, Los Angeles, Calif.

Original application August 2, 1940, Serial No. 349,465. Divided and this application October 4, 1941, Serial No. 413,611

9 Claims. (Cl. 280—6)



5. In a machine of the class described, a frame, a plurality of supporting wheel carriages connected on vertical axes to the frame, said carriages having supporting wheels mounted on horizontal axes, separate means at the upper portions of the carriages for separately shifting said carriages about their vertical axes to predetermined angular positions, and means for positively securing the carriages in said shifted positions.

2,422,793

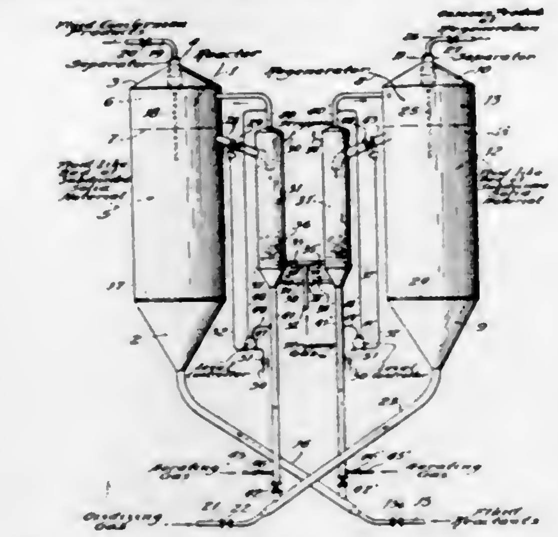
CONVERSION OF FLUID HYDROCARBONS

Jerry McAfee, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application February 18, 1944, Serial No. 522,866

6 Claims. (Cl. 196—52)

6. In the process of converting fluid hydrocarbons wherein a bed of subdivided solid catalyst is maintained in a confined reaction zone and hydrocarbon reactants are passed upwardly into said bed under conditions regulated to keep the latter in a relatively dense fluid-like state and effect the conversion reaction, said reaction being accompanied by the accumulation of contaminating volatile and non-volatile combustible products by the solid particles of said bed, and wherein contaminated solid particles are transferred from the reaction zone to a separate confined combustion zone in which combustibles are burned therefrom, resulting hot regenerated solid particles being returned from the combustion zone to the bed in the reaction zone, the improved method of substantially purging the solid particles passing from the reaction zone to the combustion zone of volatile combustibles, which method comprises withdrawing a stream of the solid particles from a point in the reaction zone beneath the upper extremity of the fluid-like bed therein and introducing the same to a stripping zone, passing the solid particles of said stream downwardly through the stripping zone in countercurrent contact with an ascending stream of stripping fluid, removing the resulting mixture of stripping fluid and stripped-out volatiles from the stripping zone, removing the purged solid particles from the stripping zone in the form of a downwardly moving relatively dense column, introducing the withdrawn purged particles to the combustion zone, and maintaining the height of said relatively dense column substantially constant by controlling the rate at which solid particles are supplied from said bed into the stripping zone in response and in inverse relation to minor variations in the height of said column.



2,422,794

EXTRACTION OF SAPONIFIABLE ACIDS

Wilmer E. McCorquodale, Jr., Ardentown, Del., and Lloyd G. Magill, Chester, and James D. Hagy, Wallingford, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application February 9, 1943, Serial No. 475,318

12 Claims. (Cl. 260—452)

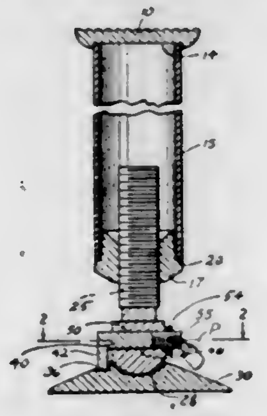
1. The method of separating saponifiable acids from a mixture of saponifiable acids and hydrocarbon oils which comprises treating said mixture with an aqueous solution of an alkali metal hydroxide in substantial excess of the amount required for complete neutralization of the acids, thereby to convert the aforesaid acids to alkali metal soaps and form a mixture comprising an oil phase and an aqueous phase containing excess alkali metal hydroxide, the ratio of said solution to acids and the alkali metal hydroxide

strength of the solution being such that within a given temperature range a predominant proportion of the soaps will be soluble in the aqueous phase while within a substantially lower temperature range a predominant proportion of the soaps will be insoluble in the aqueous phase due to said excess of alkali metal hydroxide, separating the oil phase from the aqueous phase while the phases are within said higher temperature range, directly cooling the aqueous phase to within said lower temperature range thereby to precipitate a predominant proportion of the soaps, and separating the precipitated soaps from the resultant aqueous layer.

2,422,795

LOCK

Laurence J. McKnight, Lakewood, Ohio
Application July 28, 1945, Serial No. 607,634
11 Claims. (Cl. 254—98)

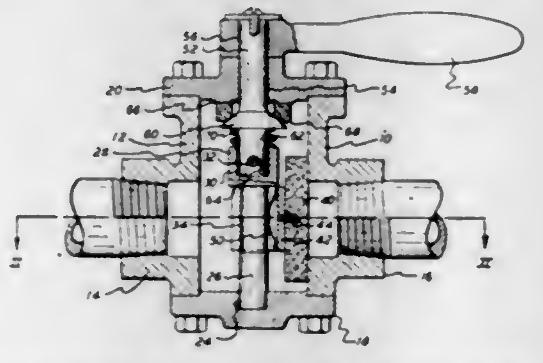


1. The combination of a load bearing part having an end adapted to be rotatably supported, a non-rotatable bearing member rotatably supporting said end, said member having a plurality of recesses adjacent said end, said end having a plurality of holes extending transversely thereof, a locking lug having a head and shank adapted to be removably positioned with its head in one of said recesses and its shank in one of said holes to lock said part and said member against relative rotation.

2,422,796

VALVE CONSTRUCTION

Rollo O. Monroe and John W. Hieronymus, Three Rivers, Mich., assignors to The Johnson Corporation, Three Rivers, Mich., a corporation of Michigan
Application July 15, 1944, Serial No. 545,028
2 Claims. (Cl. 251—102)



1. In a valve structure having an inlet, an outlet, a cylindrical chamber and a wall in which the outlet and its seat are defined, a valve assembly comprising a rotatable shaft, a part disposed on said shaft in driving relation and relatively movable in a direction toward the seat, a carbon graphite seal having a surface complementary with said chamber and floating on said part, and resilient means interposed between said part and said shaft for resiliently urging said part and seal into engagement with said seat.

2,422,797

LEAKPROOF FUEL TANK

Hans Pfleumer, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
Application March 8, 1941, Serial No. 382,378
4 Claims. (Cl. 154—139)

1. A method for manufacturing gas-expanded cell-tight rubber, said method comprising the gassing of said rubber under pressure while the same is confined within a mold and partially vulcanizing the said rubber; the removal of the rubber from the gassing means while the rubber is confined in the mold and placing the rubber in a freezing chamber while it is confined within the mold; the removal of the rubber from the freezing chamber and the subsequent removal of the rubber from the mold; confining the rubber between a plurality of sheets and completing the vulcanization thereof.

2,422,798

HYDROCARBON REACTIONS IN THE PRESENCE OF ALUMINUM HALIDE-OLEFINIC KETONE COMPLEXES

Herman Pines, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 30, 1945, Serial No. 607,907
13 Claims. (Cl. 260—666)

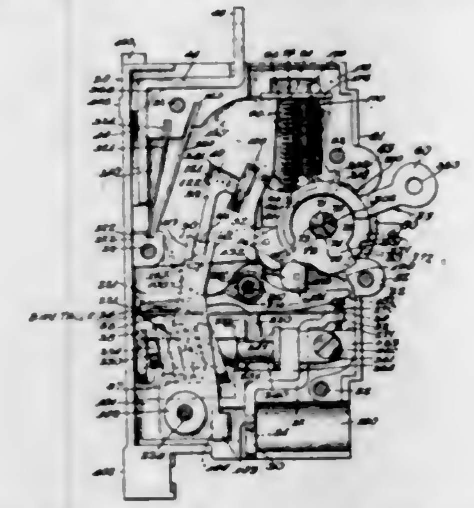
1. A hydrocarbon conversion process which comprises reacting a hydrocarbon at conversion conditions in the presence of a catalyst formed by interacting at least 1, but not more than 3 molecular proportions of an aluminum halide selected from the group consisting of aluminum chloride and aluminum bromide with an olefinic ketone.

2,422,799

CIRCUIT BREAKER

Frank J. Pokorny, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application April 27, 1940, Serial No. 331,984. Divided and this application April 27, 1943, Serial No. 484,691
2 Claims. (Cl. 200—116)

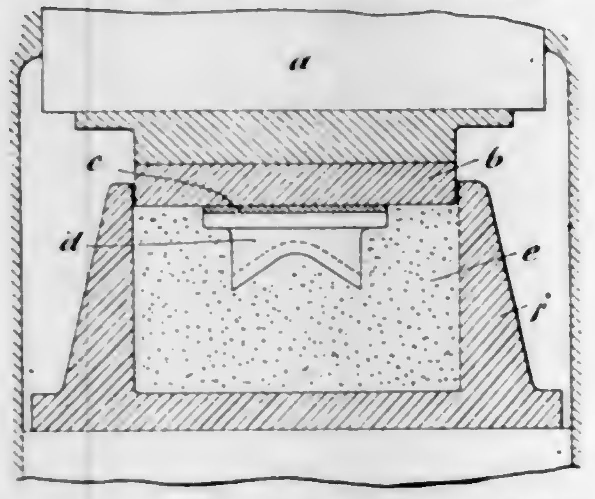
1. In a circuit interrupter, a support comprising a housing open on each side, a fixed contact and a movable contact, and means for separating said contact, a thermal element for initiating the operation of said contact separating means, said thermal element being mounted in spaced relation to a means for initiating the operation of said contact separating means, said thermal element comprising a bi-metallic strip; a lug on said support, a resilient metallic member supported at said lug, said metallic member carrying said thermal element, and an adjustment for changing the spacing between said thermal element and said means for initiating the operation of said contact separating means comprising a screw and a threaded opening in said metallic member, said screw being engaged in said threaded opening, the end of said screw pressing against said lug, rotation of said screw changing the position of said metallic member and said thermal element with respect to said lug, and said means for initiating the operation of said contact separating means; and a flat cover for said housing maintaining the elements of the circuit interrupter in position in the housing.



2,422,800

APPARATUS FOR DIE-SHAPING SHEET METAL

Jack Ransom, Cardiff, Wales, assignor of one-half to Helliwells Limited, Stratford-on-Avon, England, a British company
Application September 15, 1944, Serial No. 554,229
In Great Britain October 11, 1943
2 Claims. (Cl. 113—38)

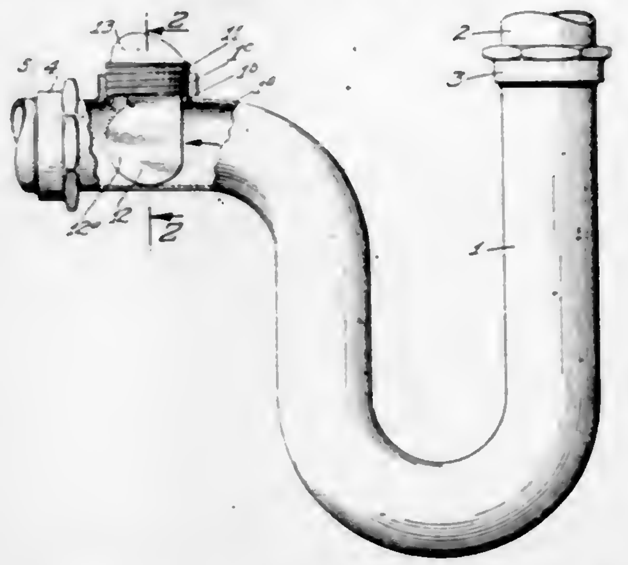


1. An apparatus for forming sheet-metal comprising, in combination, a movable upper platen, a magnetic chuck attached to the lower side of the upper platen, and a forming tool adapted to be held magnetically by the chuck, the chuck having a flat lower face and being of sufficient strength to serve as an impact piece to permit the chuck and upper platen to be operated as a drop hammer when the chuck is deenergized.

2,422,801

PLUMBING TRAP HAVING MEANS FOR CLEARING THE SAME OF STOPPAGE

William J. Rohling, Los Angeles, Calif.
Application September 11, 1943, Serial No. 501,933
5 Claims. (Cl. 182—24)

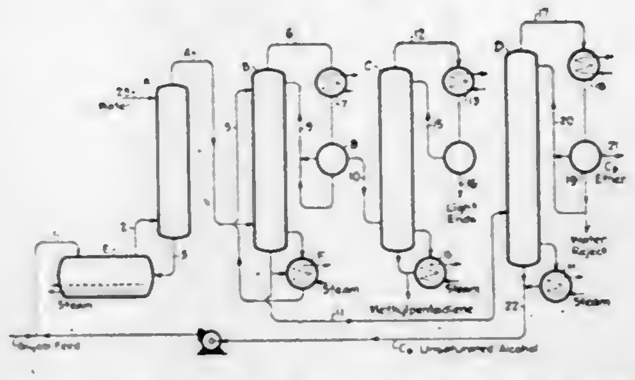


1. In a means of the class described, a trap having a gooseneck with an inlet at one end and a horizontal discharge portion at the opposite end, the horizontal portion having a cleanout opening, and a plug comprising a plug portion for the opening and a transverse vane extending from the plug portion into the passage of the horizontal portion of the trap and adapted to be rotated transversely in the passage with the rotation of the plug in the opening.

2,422,802

DEHYDRATION OF DIACETONE GLYCOL TO FORM A METHYL PENTADIENE

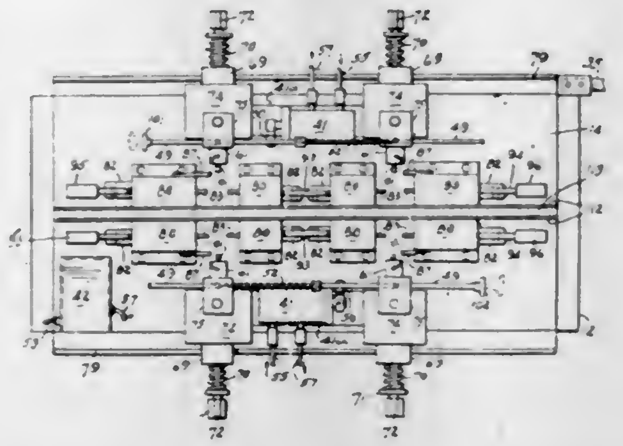
William T. Schelling, Oakland, and John Anderson, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 3, 1944, Serial No. 516,882
6 Claims. (Cl. 260—681)



5. A process for the production of a methyl pentadiene by catalytically dehydrating diacetone glycol which comprises effecting the dehydration of diacetone glycol by heating it in the liquid phase and in the presence of a dehydration catalyst under dehydration conditions in a dehydration zone in direct communication with a fractionation zone, rapidly removing ether by-products from the fractionation zone by distilling therefrom an overhead distillate comprising methyl pentadiene, unsaturated alcohol intermediate, ether by-products, light ends and water, treating the overhead distillate to remove separately methyl pentadiene, light ends, water and ether by-products from the unsaturated alcohol intermediate, and recycling the unsaturated alcohol intermediate to the dehydration zone.

2,422,803
AUTOMATIC SLOTTING MACHINE

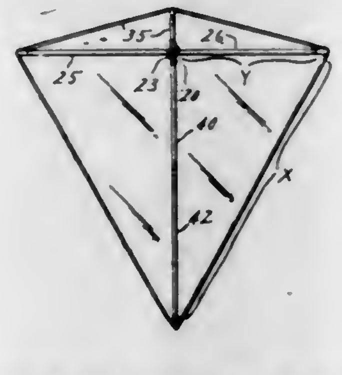
Emil A. Schigut, Van Nuys, Calif.
Application September 17, 1943, Serial No. 502,741
15 Claims. (Cl. 164—87)



1. In a machine of the character described, a work feeding chuck having a master bayonet groove therein, said chuck having a grooved collet for the flange of a blank, a relatively fixed guide engaging the groove, motor actuated driving means connected to rotate the chuck continuously, the engaging guide and slot being arranged to feed the chuck forward, following the contour of the master groove, when the chuck is rotated by the driving means, and a percussion tool disposed to punch the work continuously as the chuck is rotatively fed forward uninterruptedly generally in a spiral path, punching into the blank a slot following the contour of the master groove.

2,422,804
KITE

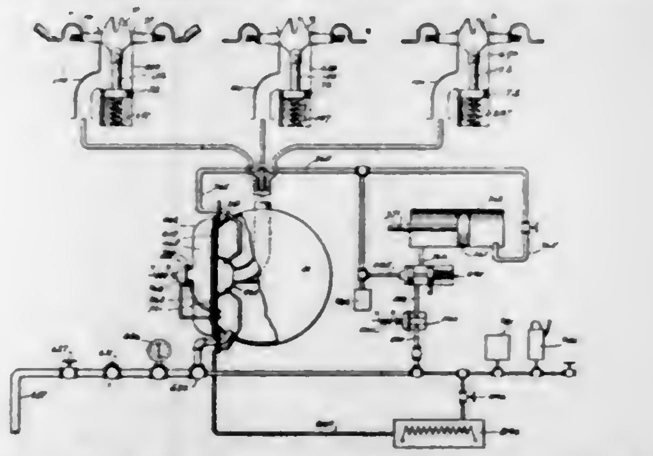
Walter H. Schroeder, Los Angeles, Calif.
Application January 26, 1946, Serial No. 643,651
6 Claims. (Cl. 244—153)



1. A demountable kite comprising a socketed frame member, a central positioning pin mounted therein, a pair of transverse kite ribs inserted in the socketed member and having endwise engagement with the pin, an upper kite rib inserted in the socketed member and having endwise engagement with a transverse kite rib, a lower kite rib inserted in the socketed member and having endwise engagement with a side of a transverse kite rib, string securing means mounted adjacent the terminal end of each rib, a cover shaped to cover the area defined by the rib members, a plurality of eyelets secured to the cover and adapted to be positioned one adjacent the terminal end of each rib member, and a string connected to each eyelet and adapted to pass over a rib end to be secured removably to the string securing means thereby removably to attach the cover in position.

2,422,805
AIR BLAST CIRCUIT BREAKER

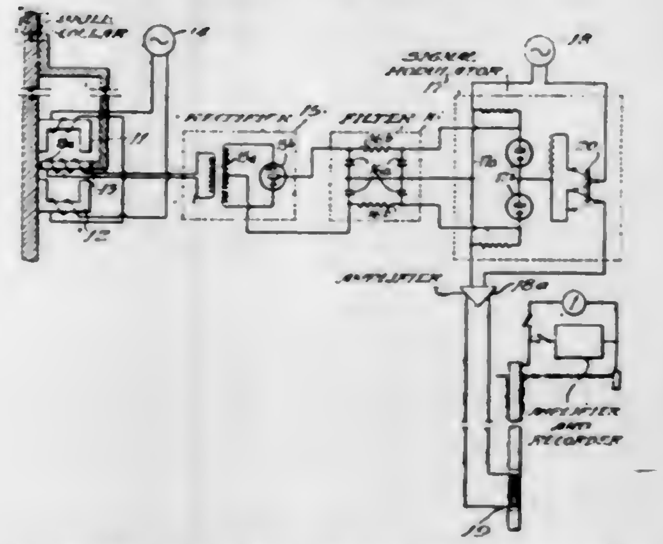
William M. Scott, Jr., Bryn Mawr, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a company of Pennsylvania
Application April 17, 1943, Serial No. 483,387
3 Claims. (Cl. 175—294)



1. In a fluid blast circuit breaker main contact members, a disconnect switch member, a source of fluid under pressure, a piston controlled by fluid from said source for operating said switch member to open and to closed position, a valve operative when open to permit the flow of fluid from said source to said piston for operating said switch member to open position, an electromagnet operative when energized to control the opening of said valve, a second valve for controlling the flow of fluid from said source to operate said switch member to closed position, an electromagnet operative when energized to control said second valve, and means controlled by fluid from said source for disconnecting said main contact members, said piston being thereafter operated to operate said disconnect switch member to open position, means operative when current ceases to flow in the circuit controlled by said circuit breaker for operating said main contacts to reengaged position, means for controlling the energization of the last mentioned electromagnet to effect reclosure of said disconnect contacts, and means for rendering said last mentioned means ineffective as soon as said disconnect contacts are closed to prevent pumping of said circuit breaker.

2,422,806
DRILL BIT PRESSURE GAUGE

Daniel Silverman and Thomas Gilmartin, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application April 28, 1944, Serial No. 533,169
5 Claims. (Cl. 73—88)

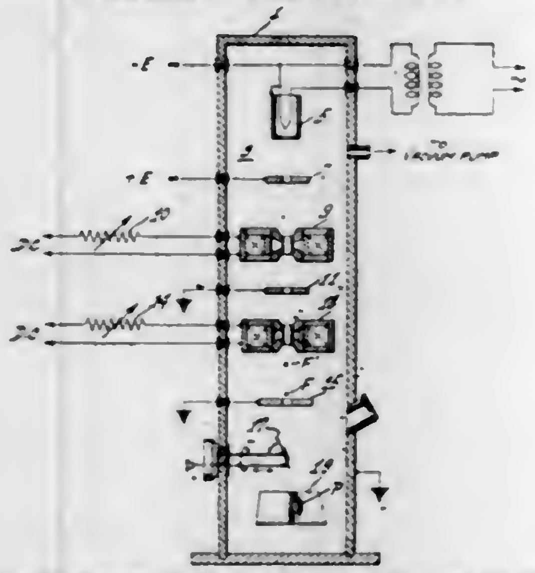


1. A system for determining the pressure on a drill bit comprising a source of electric current,

an electric strain gauge disposed adjacent said drill bit and responsive to variations in pressure on said bit and electrically connected to said source of current whereby signals are generated, a second source of electric current, means for modulating the current from said second source in accordance with said signals, means for transmitting this modulated current to the surface, and means at the surface for receiving and indicating said modulation current.

2,422,807
ART OF ASCERTAINING THE ATOMIC STRUCTURE OF MATERIALS

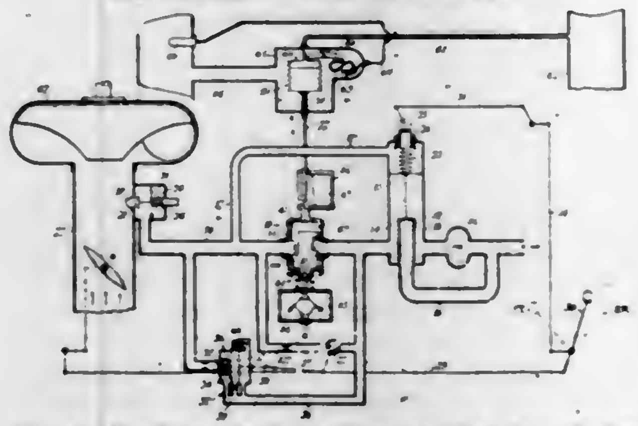
Perry C. Smith, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 29, 1945, Serial No. 585,561
3 Claims. (Cl. 250—49.5)



1. An electron diffraction instrument comprising, an electron-emissive cathode, means for holding an object in the path of said electrons at the angle required to produce a diffraction pattern of said object, a beam-forming apertured electrode mounted intermediate said cathode and said object holder, and means mounted adjacent to the cathode side of said apertured electrode for altering the angle at which said electrons pass through said apertured electrode and hence the diameter of said beam adjacent to said object holder.

2,422,808
REGULATING DEVICE FOR CONTROLLING THE SUPPLY OF FUEL AND OTHER LIQUIDS TO INTERNAL-COMBUSTION ENGINES

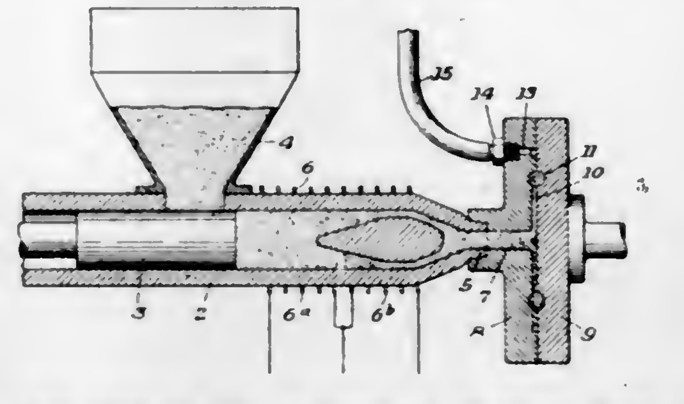
Philip Harold Stokes, Stratford-on-Avon, England, assignor to H. M. Hobson Limited, London, England
Application June 27, 1944, Serial No. 542,266
In Great Britain June 22, 1943
14 Claims. (Cl. 123—119)



1. In a fuel-metering device for an internal combustion engine, the combination with a variable area fuel-metering orifice, and a pump for delivering fuel through said orifice to the engine, of means for maintaining across said orifice a fluid pressure difference which is independent of engine speed, and means responsive to changes in engine speed for varying the effective area of said orifice as a desired function of engine speed.

2,422,809
METHOD OF MOLDING CERAMIC ARTICLES

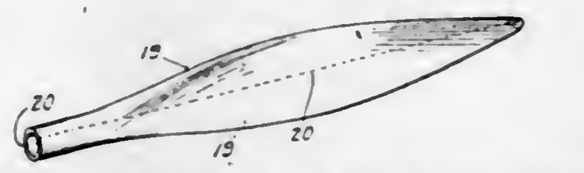
Semon H. Stupakoff, Latrobe, and Rawson E. Stark, Greensburg, Pa., assignors to Stupakoff Ceramic & Manufacturing Co., Latrobe, Pa., a corporation of Pennsylvania
Application December 9, 1942, Serial No. 468,410
11 Claims. (Cl. 25—156)



1. The method of molding a ceramic mix by injecting it from a pressure chamber into a mold cavity through a restricted passage which comprises introducing a plasticizer into the mix which is soft but in a solid form under the conditions of injection.

2,422,810
METHOD OF MAKING PROPELLER BLADES

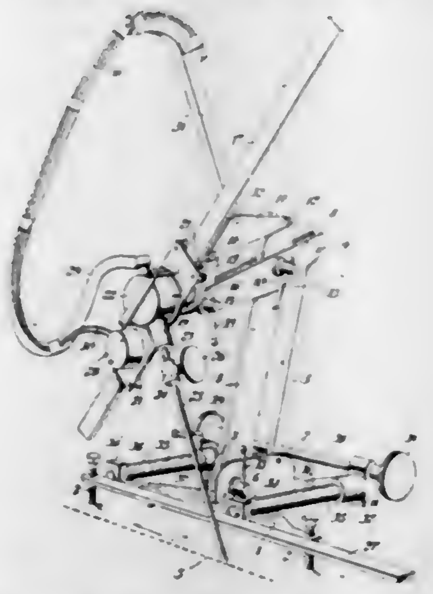
Julius B. Tiedemann, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application January 6, 1944, Serial No. 517,207
1 Claim. (Cl. 29—156.8)



In the fabrication of hollow metal propeller blades from a plurality of parts including two or more longitudinally extending sections welded together along longitudinal seams in the respective foil surfaces of the blade, the method of forming an edge section comprising rolling a plate metal blank longitudinally to taper the same in thickness and provide a longitudinally extending ridge thereon near the center line of the body portion, forming said ridge to the dimensions of a final edge of the blade with a channel in the rear surface of the blank beneath the same, clamping said ridge between narrow die members in a direction normal to the blank with one of said die members constituting a punch fitting in the channel of the blank, drawing said blank between dies while thus clamped to fold the sides of the blank along said ridge to substantially V-shape, pressing the blank between laterally movable dies and upon an internal mandrel to bring the sides into air foil shape and provide the blade twist therein, and trimming the edges of the blank for welding.

2,422,811
ARC WELDING APPARATUS

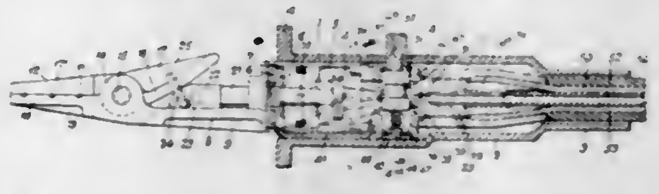
Joseph M, Tyrner, New York, N. Y., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application May 15, 1945, Serial No. 593,801
10 Claims. (Cl. 219—8)



1. Arc welding apparatus comprising means for guiding an electrode along the seam to be welded, and means for adjusting the lateral inclination of the electrode comprising an adjustable folding parallelogram support for the first-named means having a system of pivoted links and adapted when folded or unfolded to tilt the electrode laterally about its tip as a center when the tip is positioned at the seam to be welded.

2,422,812
WELDER HANDLE

Lester W. Wachter and Arthur Kimber, Streator, Ill., assignors to Anthony Company, Streator, Ill., a corporation of Illinois
Application April 7, 1945, Serial No. 587,104
16 Claims. (Cl. 219—8)

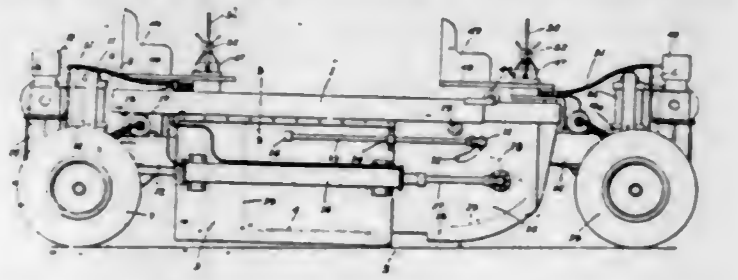


1. In combination in a welder handle, a pair of jaws, one of said jaws being fixed and the other being movably mounted upon said fixed jaw, and means for tilting said movable jaw toward and from said fixed jaw, said means including a piston and cylinder assembly, and means for supplying air under pressure to said cylinder selectively to cause said piston to reciprocate, a member mounted to be moved by said piston and adapted, when moved in one direction, to tilt said movable jaw into engagement with said fixed jaw, and a connection engaging said member and said movable jaw and adapted, when said member is withdrawn, to open said movable jaw.

2,422,813
CARRYING SCRAPER

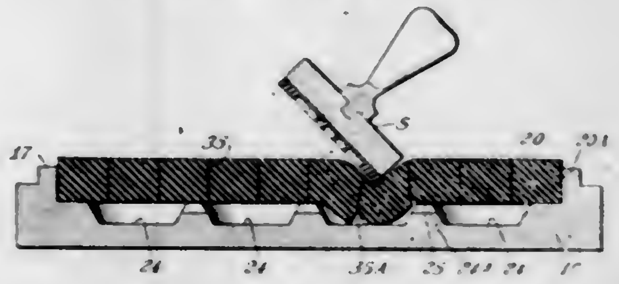
Jacob S. Walch, Stockton, Calif.
Application May 9, 1941, Serial No. 392,712
27 Claims. (Cl. 37—126)

21. In a dirt scraping and hauling vehicle, in combination, a vehicle frame, a vehicle body made up of front and rear body sections, each comprising a scraper, means for propelling said vehicle, and instrumentalities for causing relative bodily movement of the body sections toward and from one another.



2,422,814
STAMP PAD

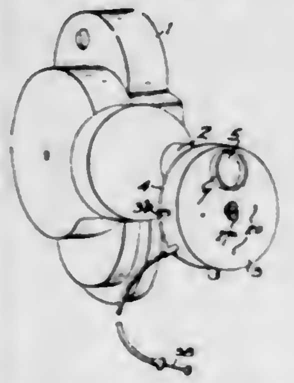
Charles F. Alexander, Chicago, Ill.
Application December 22, 1945, Serial No. 637,028
11 Claims. (Cl. 91—54.5)



11. In a stamp pad, a base formed to afford an upstanding wall and a bottom wall defining a recess having a generally flat bottom surface, said bottom wall having at least one reservoir formed therein as a depression opening through said flat bottom surface, a pad member formed from sponge rubber and disposed in said recess so as to contact said walls about the edges of the recess, a normally liquid tight resilient skin member disposed on said flat bottom surface so as to overlie said reservoir and sealed to the surfaces of said recess about the edges of said skin member, said skin member having at least one self-closing slit formed therein so as to be disposed over said reservoir.

2,422,815
TRANSITION ATTACHMENT FOR MOTION-PICTURE CAMERAS

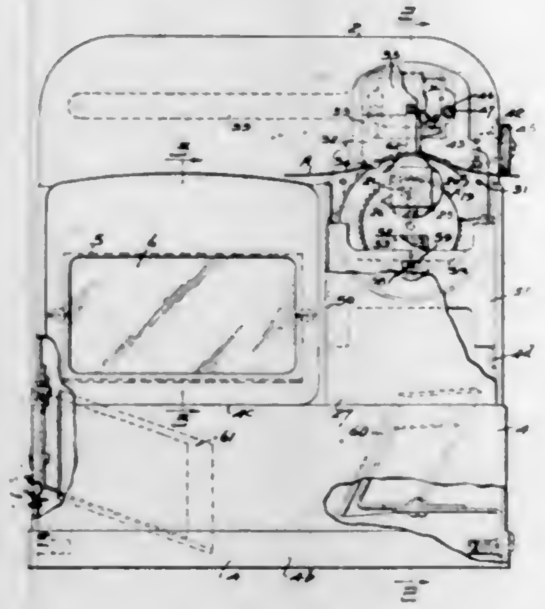
Philip Baia, Highland Park, Mich.
Application February 26, 1944, Serial No. 524,019
4 Claims. (Cl. 88—16)



3. A transition attachment for motion picture cameras including a casing having aligned apertures in the front and rear walls thereof, a hub mounted for rotation in the casing and projecting therethrough, means for limiting the rotary movement of the hub to one direction, a shaft coaxial with the hub and supported for independent rotation relative thereto with one end of said shaft supported by said hub, a coil spring having one extremity connected to the hub, a key extending from the hub for turning the latter and winding the spring, the opposite end of the spring being connected to the shaft to turn the latter, a yoke fixed on the shaft, a spring pressed stop to engage the yoke and halt rotation of the shaft, means for moving the stop to release the yoke and permit rotation of the shaft, a spindle, gear means drivingly connecting the shaft and spindle, a star wheel fixed on the spindle, a pivotally mounted verge opposite ends of which alternately engage the star wheel to maintain the speed of rotation of the shaft uniform, shutter means carried by said shaft and movable between the front and rear walls of said casing by which the passage of light through the aligned apertures therein is gradually obstructed during rotation of the shaft 180° and by which the passage of light through the aligned apertures is increased during the next rotary movement of the shaft 180°, and means on the casing for supporting the latter on a lens hood with the axis of the apertures in alignment with the apertures of said hood, said yoke being arranged on the shaft such that in one of its positions the shutter means will obstruct the passage of light through said aligned apertures and when displaced an angular distance of 180° from it's original position will unmask said apertures and permit passage of light therethrough.

2,422,816
INSPECTION PROJECTOR FOR MOTION-PICTURE FILM

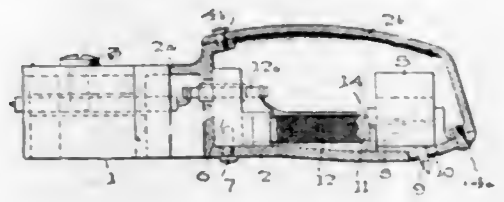
Philip Baia, Highland Park, Mich.
Application April 18, 1945, Serial No. 589,038
15 Claims. (Cl. 88—24)



1. A viewer including a casing, a rest projecting outwardly on one side of the casing over which a film is adapted to travel, a hood mounted for movement in a substantially vertical path on the outer face of the casing over the rest, said hood being adapted to guide the film over the rest, a mirror mounted in the hood, the inner side of the hood being apertured to register with an opening through the adjacent side of the casing, means dividing the interior of the casing into separate compartments, one of said compartments being enclosed in part by rest, illuminating means in the other compartment from which light passes through the casing opening and hood aperture to the mirror whence it is reflected into the first named compartment through the film and through an opening formed beneath the latter in the rest, a translucent screen in one side of the first named compartment, mirrors in the first named compartment by which the light is reflected onto the screen after passing through the opening in the rest, and lenses interposed in the light path between the illuminating means and the screen.

2,422,817
PICKUP HEAD

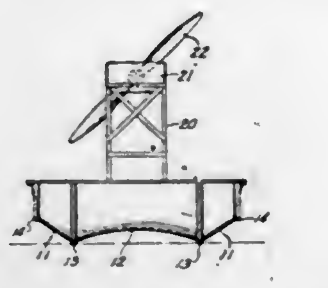
Donald J. Baker, Los Angeles, Calif.
Application March 12, 1945, Serial No. 582,332
17 Claims. (Cl. 179—100.41)



1. An electric translating device comprising, in combination, a magnet having a narrow air-gap arranged in a vertical plane, a thin, flexible, relatively broad magnetic reed mounted on-edge in the median plane of said air-gap with its axis in a substantially horizontal position, means for rigidly supporting one end of said reed with the other end thereof being free and positioned within said air-gap, said supporting means serving to prevent upward flexure of said free end but permitting lateral flexure thereof, a stylus secured to and supported entirely by the free end of said reed with its axis located substantially in the plane of said reed and extending substantially at right angles to the axis of said reed, and an electric coil surrounding a portion of said reed.

2,422,818
HYDROPLANE

Julien G. Bamberger, Milwaukee, Wis.
Application August 2, 1943, Serial No. 497,001
5 Claims. (Cl. 114—66.5)



2. In a boat, a hull having spaced apart keels which are substantially parallel and straight throughout their length from the stern of the boat at least to the farthest forward potential water line at the bow, the bottom of the hull from the stern of the boat at least to the farthest forward potential water line at the bow being substantially uniformly concave in cross-section between said keels with the longitudinal center line of the hull bisecting said concave, and said hull having longitudinally extending side portions whose longitudinal axes are substantially parallel to each other from the stern of the boat at least to the farthest forward potential water line at the bow and which flare outwardly and upwardly from said keels at an angle which does not exceed 45° with respect to the water line.

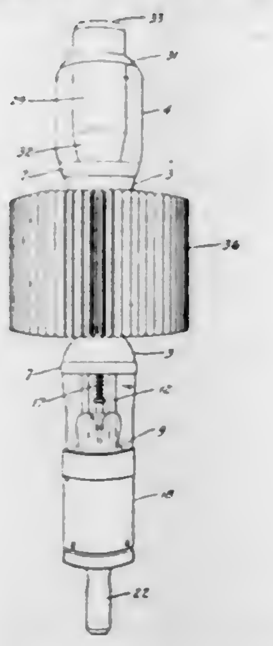
2,422,819

EXTERNAL ANODE ELECTRON TUBE

George A. Becker, San Bruno, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California

Application August 15, 1944, Serial No. 549,567

7 Claims. (Cl. 250—27.5)



1. An electron tube comprising a tubular external anode, vitreous envelope sections sealed to opposite ends of said anode, a cathode supported by one of said vitreous sections and extending into one end of the anode, cathode tensioning means supported on the last mentioned section, a tubular metallic envelope section coaxial with the anode sealed to the other vitreous section, and a grid supported by said metallic section and extending into the other end of the anode.

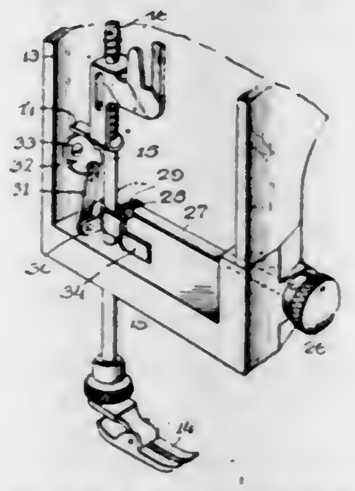
2,422,820

SEWING MACHINE

Clarence S. Best, Belvidere, Ill., assignor to National Sewing Machine Company, Belvidere, Ill., a corporation of Illinois

Application June 18, 1945, Serial No. 600,127

6 Claims. (Cl. 112—237)



1. In a sewing machine including a sewing head, presser foot, presser bar and cam-bearing means on the bar, means for actuating the presser bar to raise and lower the foot, said means comprising a rotatable control member located on the sewing head in a position visible to the operator from the front of the machine, a pair of links pivotally connected together, one of said links being fixedly connected to the rotatable control member, and a cam pivotally connected to a fixed part of the sewing head, the other of said links being pivotally connected to said cam, said cam being mounted to bear against the under side of said bearing means and adapted to lift the bearing means and presser bar when said control member is rotated to a predetermined position.

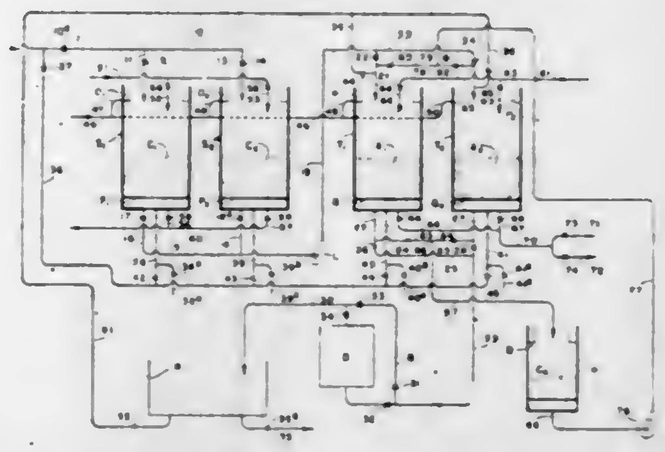
2,422,821

LIQUID PURIFIER HAVING CATION EXCHANGERS COMMUNICATING SELECTIVELY WITH ANION EXCHANGERS

Baboobhai V. Bhoota, New York, N. Y., assignor to The Dorr Company, New York, N. Y., a corporation of Delaware

Application July 22, 1944, Serial No. 546,141

3 Claims. (Cl. 210—24)



1. A system for the quasi-continuous deionization of liquids, which comprises supply means for untreated liquid, a pair of cation exchange beds, means for feeding said liquid from said supply means selectively to one of the two cation exchange beds, means for re-conditioning selectively one of the two cation exchange beds when exhausted, a pair of acid-adsorbing exchange beds, means for passing treated liquid effluent from one of the two cation exchange beds selectively to one of the two acid-adsorbing beds, effluent means for discharging selectively from one of the two acid-adsorbing beds liquid having been subjected sequentially in one of said cation exchange beds and in one of said acid-adsorbing beds, means for supplying regenerant alkali solution selectively to one of the two acid-adsorbing beds during an off period thereof, effluent means for discharging spent alkali regenerant solution selectively from one of the two acid-adsorbing beds, means for supplying wash water selectively to one of the two acid-adsorbing beds, wash water effluent means for discharging spent wash water selectively from one of the two acid-adsorbing beds, an auxiliary cation exchange bed, means for passing wash water from said wash water effluent means selectively to said auxiliary bed, discharge means for passing treated wash water having been subjected to cation exchange in said auxiliary bed to that acid-adsorbing bed whence it was passed to the auxiliary bed, and means for reconditioning said auxiliary bed.

2,422,822

PROCESS FOR BREAKING PETROLEUM EMULSIONS

Charles M. Blair, Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application October 21, 1942, Serial No. 462,887

8 Claims. (Cl. 252—342)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent, comprising an adduct selected from the

class consisting of acids, esters, anhydrides, and salts; said adduct being an acyclic alpha-beta unsaturated acid having not over 10 carbon atoms combined at an intermediate point in the carbon atom chain of a non-conjugated, unsaturated, non-hydroxylated, fatty acid acyl radical having at least 8 carbon atoms and not over 32 carbon atoms; said acyl radical being a constituent part of a member of the class consisting of salts, acids, and esters.

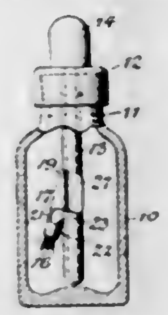
2,422,823

BRUSH ATTACHMENT FOR LIQUID APPLICATORS

Arthur R. Christensen, Lockport, N. Y.

Application January 29, 1945, Serial No. 575,160

9 Claims. (Cl. 15—140.4)



1. A liquid applicator for use on a tube adapted to hold a liquid and provided at its lower end with a liquid delivery opening; comprising a brush, and a carrier which supports said brush and which is slidable with said brush lengthwise on said tube on one side of the same and also movable transversely of said tube for placing said brush adjacent to said opening to receive liquid therefrom.

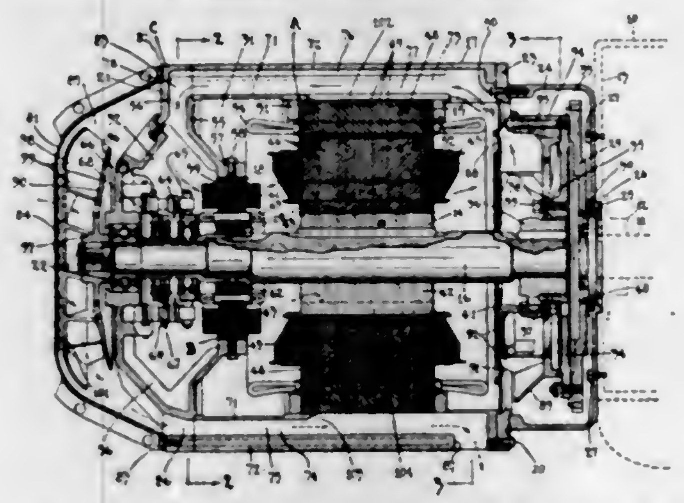
2,422,824

DYNAMOELECTRIC MACHINE

Gustav A. Clauson, Highland Park, and Rupert N. Early, Minneapolis, Minn., assignors to Electric Machinery Mfg. Company, Minneapolis, Minn.

Application April 8, 1943, Serial No. 482,274

12 Claims. (Cl. 171—252)



1. In a dynamoelectric machine, a rotor, a stator encircling said rotor, one thereof having axially extending openings therethrough, a housing having a compartment enclosing said stator and rotor and comprising an annular frame encircling said stator, said frame having axially extending recirculated air passageways, an end bell at one end of the frame and forming therewith an end chamber communicating with said compartment, a second end bell at the other end of the frame, an annulus spaced from said second end bell and forming in conjunction therewith a second end chamber, an exciter having axially extending openings therethrough and including a stator carried by said annulus and disposed interiorly of said dynamoelectric machine, a blower revoluble with said motor and disposed in the other end chamber, said blower causing circulation of air within the interior of said dynamoelectric machine through said recirculated air passageways and through the openings in said exciter and the axially extending openings of the dynamoelectric machine said second end bell and said annulus directing the air entering said second end chamber to the openings in said exciter and means for causing circulation of air exteriorly of the said housing and through said fresh air passageways.

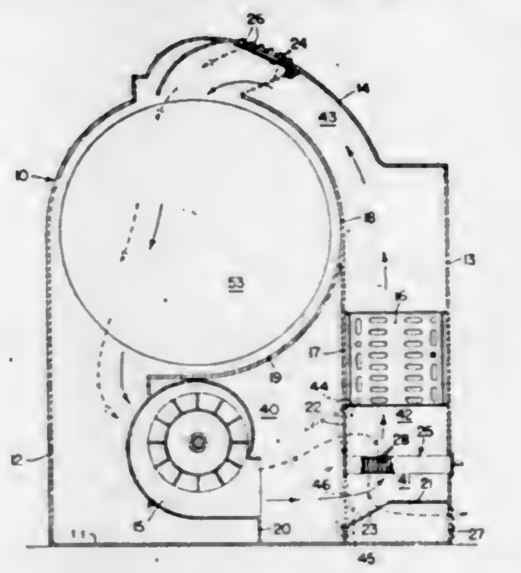
2,422,825

DELINTING SCREEN

Archibald H. Davis, Jr., Cleveland, Ohio, assignor to American Machine and Metals, Inc., East Moline, Ill., a corporation of Delaware

Application November 18, 1943, Serial No. 510,735

5 Claims. (Cl. 34—82)



3. In a drying tumbler, in combination, a housing having an air inlet and an air outlet, a stationary delinting screen and a fan in said housing, means for forming two air paths alternately connectable to the same side of said fan to opposite sides of said delinting screen, said means including dampers controlling said two air paths for reversing the air flow through said stationary screen, said screen comprising a series of adjoining cells, formed at least partly by adjacent layers of corrugated ribbon facing the air stream with its edges.

2,422,826

PRODUCTION OF PURE MERCAPTANS

Harry E. Drennan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

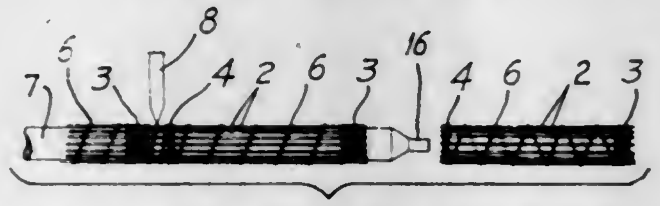
No Drawing. Application September 1, 1944, Serial No. 552,375

5 Claims. (Cl. 260—609)

1. In the preparation of pure mercaptans by the catalytic addition of hydrogen sulfide to olefin polymers, the improved method of separating pure mercaptan product from unreacted olefin polymer which comprises contacting a crude mercaptan concentrate containing alkyl mercaptan and unreacted olefin polymer with a substantially saturated solution of alkali metal hydroxide in water under conditions effecting the precipitation of solid alkali metal mercaptide, separating said mercaptide from excess solution of alkali metal hydroxide and from the bulk of said unre-

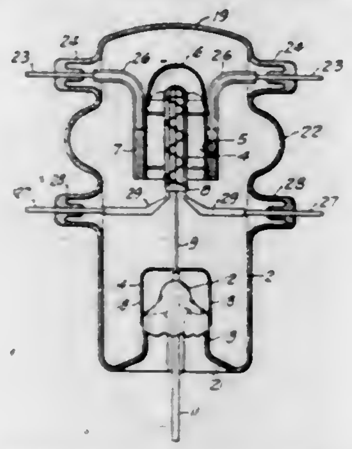
acted olefin polymer, washing the thus-separated mercaptide with a hydrocarbon wash liquid which is essentially a non-solvent for said mercaptide and which is lower boiling than said unreacted olefin polymer to remove residual amounts of the latter from said mercaptide, dissolving in said wash liquid prior to washing said mercaptide therewith sufficient of said mercaptan in substantially pure form to substantially minimize solution of said mercaptide normally occurring therein, passing a hot inert oxygen-free gas in intimate contact with the thus-washed mercaptide to volatilize therefrom residual wash liquid, contacting the thus-purified mercaptide with about ten times the stoichiometrically equivalent amount of water to hydrolyze said mercaptide and thereby forming alkyl mercaptan and an aqueous solution of alkali metal hydroxide, and separating the pure alkyl mercaptan so produced.

2,422,827
METHOD OF MAKING GRIDS
Donald F. Drieschman, San Carlos, Gordon Shepherd, Burlingame, Mendel Rabinawitz, San Francisco, Almer M. Newhall, Jr., Palo Alto, and Harold E. Sorg, Redwood City, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application March 11, 1944, Serial No. 526,093
3 Claims. (Cl. 140—71.5)



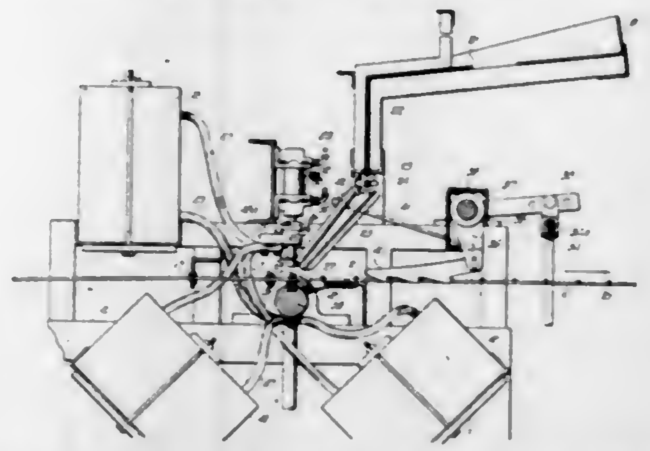
1. The method of making grids, which comprises laying a plurality of wires longitudinally along a metallic mandrel to form bars for a connected series of grids, axially advancing the mandrel and said laid wires in unison, winding another wire about the mandrel, applying a welding electrode to an intersection of the wires at the point where the wire being wound approaches the mandrel, and passing an electric current through the electrode and mandrel and the interposed wires to weld the latter together.

2,422,828
THERMIONIC TUBE
William W. Eitel and Jack A. McCullough, San Bruno, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application October 10, 1941, Serial No. 414,504
2 Claims. (Cl. 250—27.5)



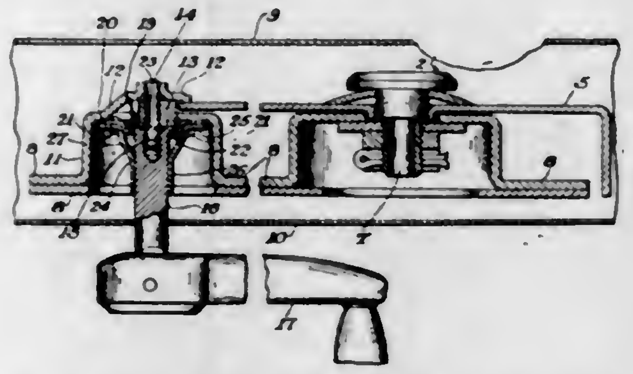
1. An electronic tube comprising a substantially cylindrical envelope, an anode and grid in the envelope, said envelope having a circumferential bulge providing an interior recess disposed about the anode, a lead connected with the anode and extending through the envelope above the bulge, and a lead connected with the grid and extending through the envelope below the bulge, said leads being disposed transversely of the envelope axis.

2,422,829
MAT WELDING DEVICE
Joseph A. Fotie, Kansas City, Mo.
Application April 2, 1945, Serial No. 586,097
5 Claims. (Cl. 219—4)



1. An apparatus for welding wire mats made up of a plurality of longitudinal and cross wires welded at their intersections, comprising a frame, straightening means mounted thereon through which the longitudinal wires are fed, cross wire feeding means supported above the frame and adapted to deliver cross wires singly and transversely of the longitudinal wires at spaced intervals, welding electrodes positioned above and below the wires where the cross wires are deposited onto the longitudinal wires, means for bringing the electrodes into welding position, a feeding device for advancing the welding mat and unwelded longitudinal wires subsequent to each welding operation, a roll supported by and rotatable on a movable carriage, power-operated means adapted to rotate the roll and shift the movable carriage said roll and carriage synchronized with the feeding device through said power-operated means to take up the length of the mat advanced by the feeding device and roll it upon the roll.

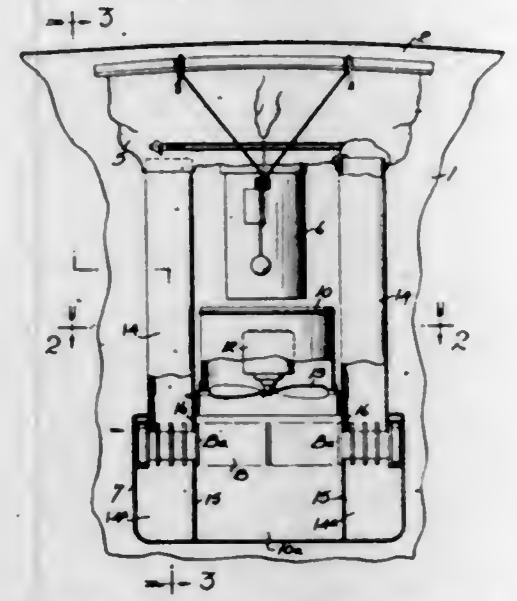
2,422,830
GEAR DRIVE FOR WINDOW REGULATORS AND THE LIKE
Leo S. Greenmun, Johnson City, N. Y.
Application September 9, 1944, Serial No. 553,390
9 Claims. (Cl. 74—414)



1. In a gear drive for window regulators and the like, a plate having a body portion and a portion struck from said body portion to form a housing, a restraining disc opposite said struck

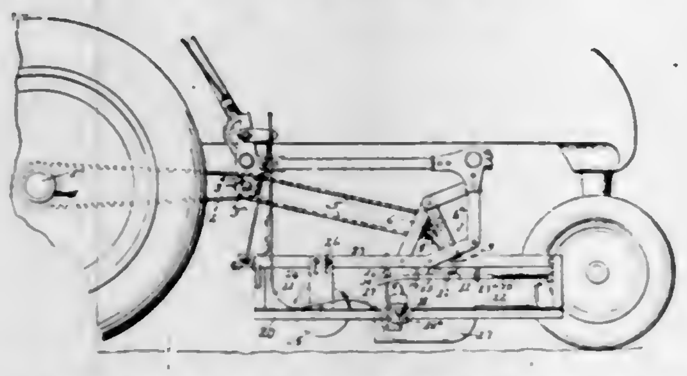
portion of said plate, a pinion disposed in said housing, and a shaft having a toothed driving head formed integrally therewith and in driving engagement with said pinion, said driving head disposed between said pinion and said disc, and said disc functioning to restrain excessive movement of said driving head from said pinion.

2,422,831
HEATER
Edmund E. Hans, Detroit, Mich.
Substituted for abandoned application Serial No. 512,979, December 4, 1943. This application June 8, 1946, Serial No. 675,386
3 Claims. (Cl. 257—137)



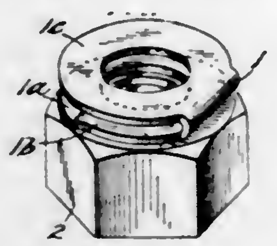
2. In a heater, an air duct mounted in a closed vehicle body and having one extremity connected to a cowl opening for the entry of fresh air, a housing open at the top into which air from the duct flows, said housing also having an outlet adjacent the bottom, a heater core mounted transversely in the housing adjacent the outlet, said housing being divided into completely separated passages which extend through and on both sides of the heater core whereby air streams flowing through the separate passages cannot mingle until after they have passed through said core, a fan in one of the passages to discharge air therein through the heater core, and that passage being spaced from the air duct to permit air from within the vehicle body also to flow thereinto.

2,422,832
TRANSPLANTER
Naaman G. Hershey, Manheim, Pa.
Application August 6, 1945, Serial No. 609,133
1 Claim. (Cl. 111—3)



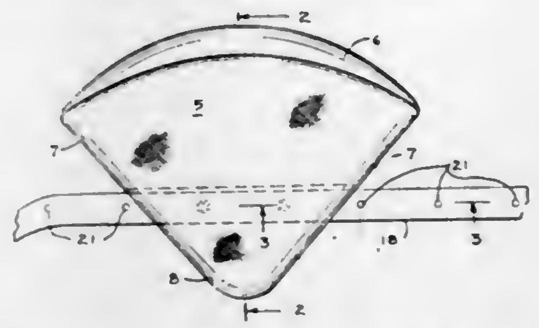
In a transplanter having an adjustable seat-supporting frame, a water pipe leading from a conventional water tank, a nozzle on the lower end of said water pipe, a valve normally closing said nozzle, vertically supported means for unseating said valve, said means carrying a roller, a rod having a downwardly turned rear end contacting with said roller, a spring to pull said rod to a forward position to permit of the valve being seated on the water-tight nozzle, a trip member carried by said rod, a cam intermittently engaging said trip member, a shaft on which said cam is mounted, a gear on said shaft, and a series of chains and gears driven from the rear axle to the wheel and actuating the gear on the shaft carrying the aforesaid cam whereby the cam is controlled in its operation by the rear axle of the transplanter.

2,422,833
STIFF NUT
Ronald D. King and Norman F. Wood, Portsmouth, England
Application May 30, 1944, Serial No. 537,988
In Great Britain May 17, 1943
Section 1, Public Law 690, August 8, 1946.
Patent expires May 17, 1963
1 Claim. (Cl. 151—30)



In a nut arranged with wrench engaging flats, a plate of resilient material folded upon itself with the folded portions disposed in parallel spaced relation and having axially alined threaded openings therein and of a cross sectional area to come within the flats of the nut, the free marginal portion of one folded plate portion being offset and the plate fixed at said offset portion to an end face of the nut with the plate portion from which it is offset spaced from said end of the nut and the plate openings being coaxially of the nut opening, and the screw threads of the threaded openings in the folded portions being out of phase with the screw threads of the nut and the spacing of the folded plate portion having the offset portion relative to the nut imparting additional friction effect to said folded plate portion.

2,422,834
SHOULDER PAD
Jacob L. Kleinman, New York, N. Y.
Application January 18, 1947, Serial No. 722,868
12 Claims. (Cl. 2—268)



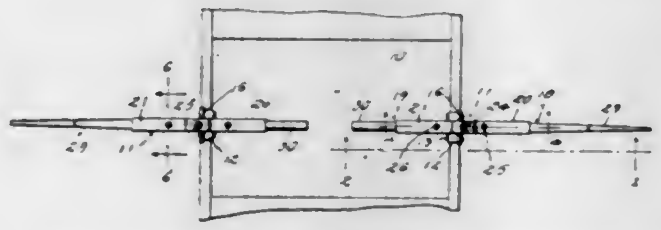
6. A shoulder-pad comprising a body portion provided with a plurality of separable jaw-portions, a spaced section between said jaw-portions, each of said jaw-portions provided with an inner face, each of said inner faces provided with snap fasteners, said spaced section adapted to support a shoulder-strap therebetween, said shoulder-

strap provided with an opening, the snap fastener of one of said faces provided with a stud adapted to be positioned within said opening and be interlocked with the snap fastener of the other of said faces, thereby closing said jaw-portions and holding said shoulder-pad in desired position, said stud adapted to be unlocked from said snap fastener and be removed from said opening thereby opening said jaw-portions and enabling the removal of said shoulder-pad from said shoulder-strap.

2,422,835

BOW FACING OARLOCK

Elwin R. Kosey, Ontonagon, Mich.
Application September 2, 1943, Serial No. 500,973
1 Claim. (Cl. 9—25)

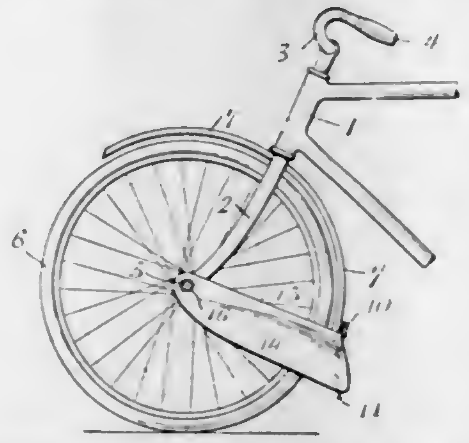


An oarlock structure of the class described comprising a plate, mounting means for attachment to a boat, said plate and mounting means having barrels rigid thereon, said barrels being pivotally connected at one edge of the mounting means on an axis transverse with respect to the plate, a hollow cylindrical socket for an oarblade section, a bolt pivoting said section to the plate on one side of said means, a hollow cylindrical socket for an oar handle section, a bolt pivoting the latter section to the plate on the other side of said means, the plate having an elongated slot through which one of the bolts passes to enable shifting movement of one of the sockets, said bolts extending across the interior of the sockets in positions to prevent undue extension of the oarblade section and handle section into the respective sockets, a roller operable in the elongated slot mounted by the adjacent bolt, said roller having flanges overlapping the upper and lower surfaces of the plate, one end of one of the sockets being reduced, the end of the other socket being solid and extending into the reduced portion, and means pivotally connecting the sockets at said reduced portion and solid portion.

2,422,836

MUDGUARD FOR BICYCLES

Joseph Alphonse Larivière, Ste. Henedine, Quebec, Canada
Application April 6, 1946, Serial No. 660,060
6 Claims. (Cl. 280—152.1)

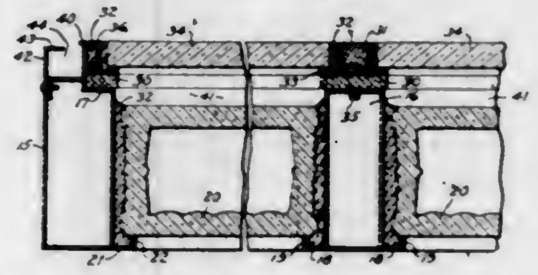


4. In combination with the front wheel of a bicycle having a fender over the same, a mudguard comprising a downwardly facing channel secured transversely on the rear portion of said fender, a pair of shields extending from said channel to the center of said wheel, said shields having tongues secured in said channel, a flexible flap secured in and depending from said channel, the lower edges of said shields being bent outwardly from said wheel, and means for securing said shields to the center of said wheel.

2,422,837

PANEL CONSTRUCTION

George H. Lenke, Elmhurst, Ill., assignor of one-half to Julius J. Ohlis, Oak Park, Ill.
Application November 30, 1945, Serial No. 631,910
7 Claims. (Cl. 108—16)

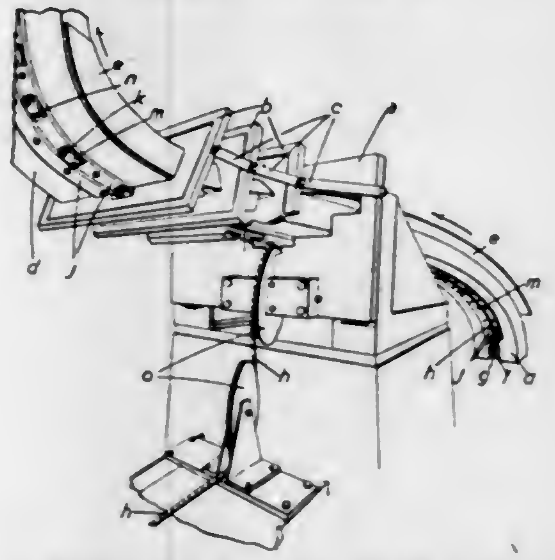


5. A light-transmitting panel construction comprising framing and double glazing, the framing comprising members establishing a light-transmitting cell, said members having projections extending inwardly of said cell, a glazing disposed in said cell and supported by said projections, a second glazing and a shield therefor, said shield having inwardly extending flanges adjacent its lower edge establishing a lower angular pocket formation embracing the upper edge portions of said first mentioned glazing, said shield further provided with an upper angular pocket formation to receive and to support said second glazing in spaced relation to said first glazing, and sealing means for said glazings.

2,422,838

APPARATUS FOR FLANGING SHEET METAL STRIPS

William White MacArthur, Gerrards Cross, and Geoffrey Leonard Freeman Welham, South Ruislip, England, assignors to The Fairey Aviation Company Limited, Hayes, Middlesex, England
Application March 8, 1946, Serial No. 652,950
In Great Britain January 19, 1945
3 Claims. (Cl. 153—3)

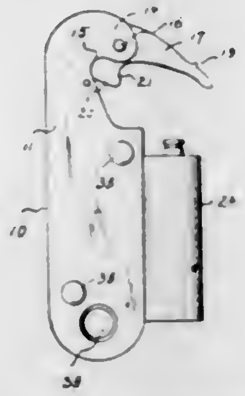


1. In a device for flanging sheet metal plates, strips and the like and of the type in which a work piece to be formed is moved through a stationary abutment and through forming means with a clamping member having the desired configuration and moving through said forming means from its leading end to its trailing end during its working movement, means for moving said clamping member comprising a groove extending longitudinally of the member, a flexible cable dimensioned to lie within said groove, said cable being attached to the trailing end of said clamping member and passing through said abutment, a plurality of cable retaining members mounted on said clamping member for movement between inoperative positions clear of said groove and operative positions in which they retain said cable within said groove, and means for automatically moving said retaining members to operative position to retain said cable in said groove upon movement of said clamping member through said abutment in a first direction, and means for automatically moving said retaining members to inoperative positions to permit said cable to leave said groove upon movement of said clamping member through said abutment in a second direction opposite to said first direction.

2,422,839

RELEASE COUPLING FOR PARACHUTES

James J. Maskey, Detroit, Mich.
Application August 17, 1945, Serial No. 611,202
5 Claims. (Cl. 294—83)



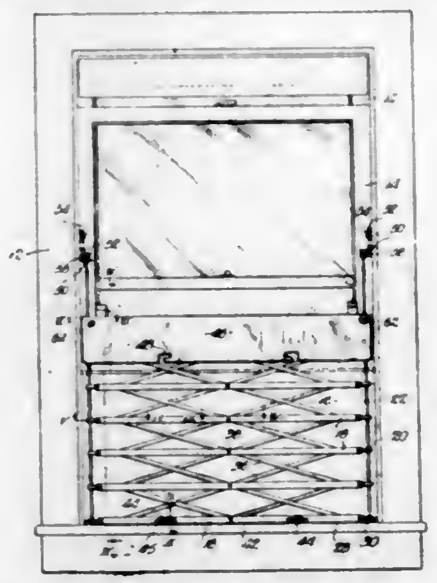
1. A coupling of the kind described including a body, forming in its upper portion a shallow inverted hook, a claw pivotally mounted in said upper portion of the body and adapted to be swung against said body to close the open side of the hook, the claw including a shank having an inwardly curved outline for reception of a parachute suspension link adapted to bear against said shank from below, a retractable rod adapted to be brought manually against the side of the claw to retain it in a link enclosing position, means in the lower end of the coupling for attachment to a load, the initial application of the load to the coupling causing said suspension link to bear against the shank of the claw to disengage same from contact with the rod, automatic means to cause the withdrawal of the rod from the path of the claw, and spring means to swing the claw to open position on cessation of the pull of the load.

2,422,840

WINDOW GUARD

John L. Mayer, Kansas City, Mo.
Application October 22, 1945, Serial No. 623,786
9 Claims. (Cl. 160—34)

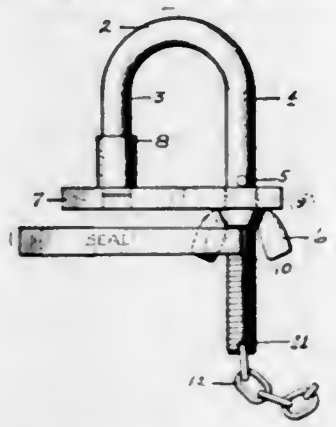
1. A guard for windows having a reciprocable sash and a frame defining an opening for the sash, said guard comprising an expansible grille having its lower portion anchored to the sill of the window frame and its upper portion secured to the window sash to extend over the opening formed by the frame as the sash is moved to the open position; a guide rail for the grille at each side of the opening; and structure for interlocking the guide rails and a portion of the grille to secure the latter and the sash to which the grille is secured against movement.



2,422,841

FASTENING DEVICE

Marvin Paul McClain, Richmond, Va., assignor of one-half to James N. Johnson, Baltimore, Md.
Application December 11, 1944, Serial No. 567,619
1 Claim. (Cl. 292—328)



In a device of the character described consisting of a U-shackle provided with a short arm and a long threaded arm, the short arm extending to a point beyond the unthreaded portion of the long arm; a pin disposed in said long arm just above its threaded portion; a bar provided with a socket member extending therefrom and adapted to receive the end of said short arm prior to engagement of the pin against the bar; an orifice disposed in said bar for accommodating said long arm; a nut mounted in threadable fashion on said long arm and adapted to support said bar and secure said bar against said pin.

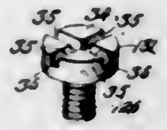
2,422,842

ROTARY RELAY AND CONTACTS THEREFOR

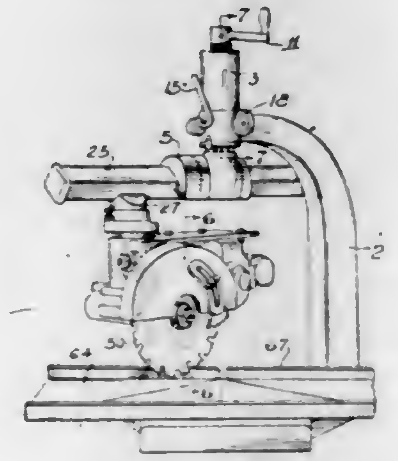
Cecil Patrick Molyneux, Great Neck Estates, and Vernon D. Roosa, Ardsley, N. Y., assignors to Queensboro Manufacturing Company, Long Island City, N. Y., a partnership
Application September 29, 1943, Serial No. 504,224
28 Claims. (Cl. 201—48)

1. A rotary relay for controlling electrical circuits comprising, in combination, an electric mo-

tor having a rotor and a stator one of which includes a field winding adapted to be supplied with control current, said rotor being floatingly mounted and normally biased to an axially displaced position with respect to said stator, a pair of cooperating contacts adapted to be connected in circuit with an electrical device for controlling flow of current therethrough, and means mechanically connected to said rotor to cause the latter in its axial movement to move one of said contacts with respect to the other.

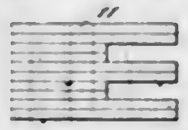


2,422,843
UNIVERSAL CUTOFF SAW
George Mooradian, Los Angeles, Calif.
Substituted for application Serial No. 334,374, May 10, 1940. This application September 16, 1944, Serial No. 554,447
1 Claim. (Cl. 143—6)



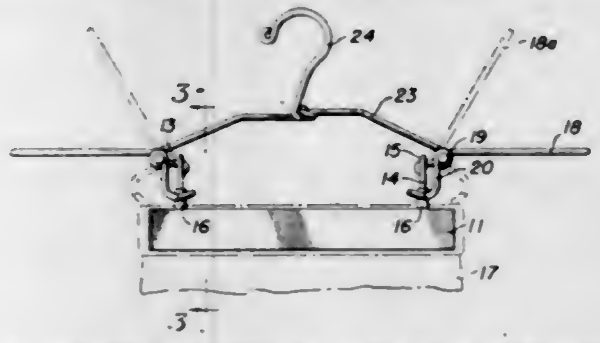
A rotary cut-off saw as described comprising a base having a pedestal and a work table thereon, a spindle housing on said pedestal, a bearing casing having a plurality of horizontally spaced bearings therein, and a spindle extending upwardly from the casing, a supporting and elevating screw for said spindle mounted on and extending into said housing and having a crank handle, said spindle having a plurality of longitudinal grooves, a collar on said spindle supported by said housing, a pin extending from said collar into one of said grooves, angle indicating means on said collar and housing, said collar being adapted to pivot with said spindle, said spindle adapted to reciprocate with respect to said collar and housing, a saw support bar having a substantially rectangular section longitudinally reciprocable in the bearings of said bearing casing, the diagonal axes of said section being horizontal and vertical respectively, a bearing member secured to said support bar and adapted for rotation about a vertical axis with respect thereto, a plurality of stops secured to said bearing member, and a retractable stop element on said support bar adapted to limit the rotation of said bearing member, a frame secured to said bearing member adapted for pivotal movement about a horizontal axis, angle indicating indicia on said frame and bearing member, and a rotary saw shaft and a motor drive therefor on said frame.

2,422,844
CLEVIS CONSTRUCTION
Richard L. Mullaney, Avon, Conn., assignor to The Whitney Chain & Mfg. Co., Hartford, Conn., a corporation of Connecticut
Application September 8, 1945, Serial No. 615,166
5 Claims. (Cl. 59—86)



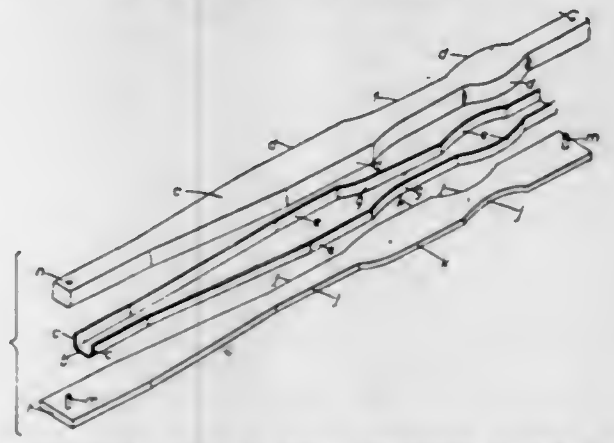
5. A clevis comprising a plurality of sheet-metal stampings assembled in face-to-face contact and of a contour to register with one another throughout an edge portion of each stamping, such edge portions of the assembled stampings presenting a continuous groove extending transversely of the assembly, and weld metal filling the said groove.

2,422,845
CLOTHES HANGER
John P. Niskanen, Detroit, Mich.
Application May 20, 1946, Serial No. 670,872
5 Claims. (Cl. 223—91)



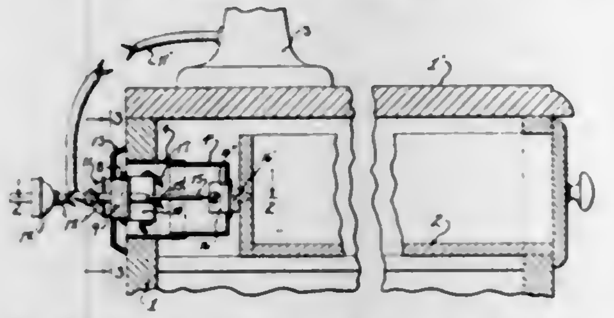
1. A clothes hanger of the kind described including a clamp comprising two elongated flat members each disposed normally in a vertical plane and being in a hinged relation to each other, and a foldable arm at each end of the clamp, said arm being adapted to be swung down from a substantially vertical to a substantially horizontal position, each arm including a forked lever to cause the members of the clamp to be forced towards each other, when said arm has been swung to its horizontal position.

2,422,846
APPARATUS FOR FLANGING SHEET METAL STRIPS
Reginald Perkins, Hayes, England, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England
Application March 8, 1946, Serial No. 652,951
In Great Britain January 25, 1945
4 Claims. (Cl. 153—3)



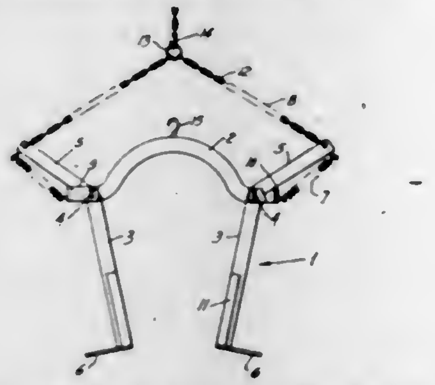
1. Improved means for flanging sheet metal plates, strips and the like comprising two plates, strips or the like between which the work is clamped, one of which constitutes a former and the other of which constitutes a control plate, and one or more pairs of dies through which the work may be drawn, the former corresponding in cross-sectional shape with the sectional configuration, at different transverse planes, of the work to be produced, and the control plate also corresponding in cross-sectional shape with the work, but in an inverse sense, the dies being adapted to press the work against one side, or against the opposite sides, of the former, and each of the dies being adapted to co-operate with the side of the control plate remote therefrom in order that the width of the finished work may vary at predetermined positions along its length.

2,422,847
AUTOMATIC LIGHT CONTROL
Hugo Peter, Milwaukee, Wis.
Application July 25, 1945, Serial No. 606,991
1 Claim. (Cl. 240—4)



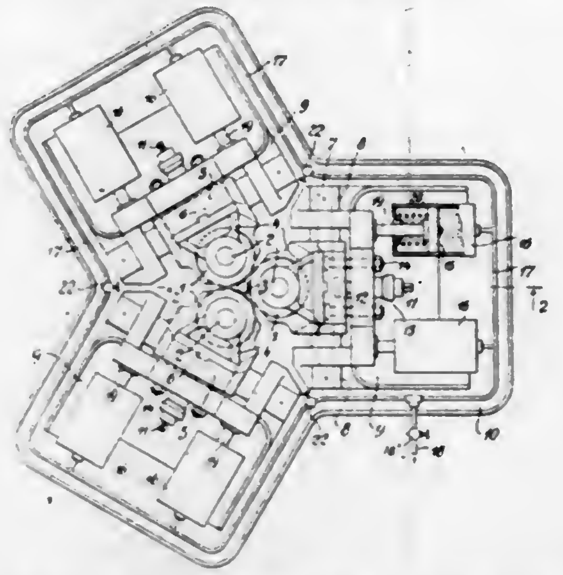
In a table frame having a back wall and a slidable drawer varying in space from the back wall and an electric lamp mounted on the table frame; the combination of means for energizing the lamp when the drawer is open including a fixed switch box section secured to the back wall, a second switch box section closed at its bottom in adjustable telescopic union with the fixed switch box section, an electric section connecting the fixed box section and lamp and a spring controlled switch extending through the adjustable box section engageable with the inner end of the drawer for controlling said circuit, irrespective of the space between the back wall of the table and the inner end of the drawer.

2,422,848
TIRE LIFTING TOOL
William R. Peters, Yreka, Calif.
Application March 19, 1945, Serial No. 583,572
3 Claims. (Cl. 294—97)



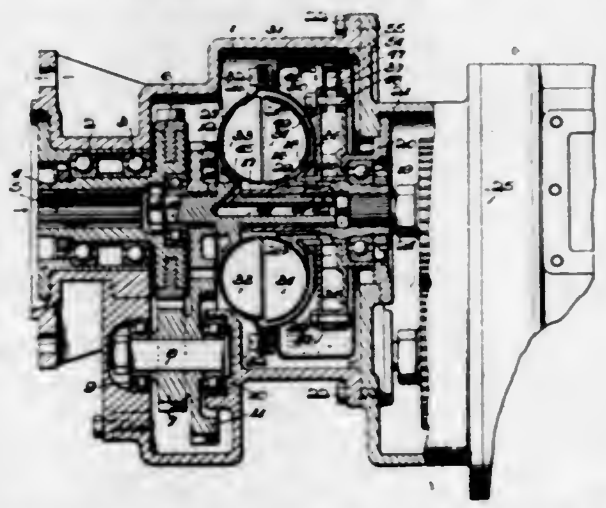
1. A tool for lifting a horizontally disposed tire, comprising a cross-member having stops at the ends thereof, a pair of tongs suspended from the ends of the cross-members inside of the stops and having inclined arms extending outwardly, shoes at the lower ends of the tongs and adapted for engagement underneath the tire, springs attached to the ends of the cross member and the ends of the arms for pulling the arms into contact with the stops whereby the tongs are made to converge toward one another and the shoes are made free for lowering through the tire opening, and a chain connecting the upper ends of the arms for spreading the shoes to engage underneath the tire when upward pull is exerted on the chain.

2,422,849
SCREW THREADING MACHINE
Werner Plagemann, Berlin, Germany; vested in the Attorney General of the United States
Application October 7, 1940, Serial No. 360,152
In Germany October 11, 1939
4 Claims. (Cl. 80—6)



1. In a screw threading machine, the combination of a plurality of rotary thread rolling dies adapted to thread a blank received between the same; a bed plate; a mounting for each of said dies comprising a supporting member slidable on said plate, a carrier member pivoted on said supporting member, a yoke adjustable on said carrier member, and a shaft journaled in said yoke, on which the die is mounted; means to slide each of said supporting members; and means to rotate said shafts.

2,422,850
HYDRAULIC COUPLING TYPE OF VARIABLE-SPEED TRANSMISSION
Finley R. Porter, South Hampton, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 26, 1943, Serial No. 507,703
2 Claims. (Cl. 60—54)



1. In hydraulic transmission apparatus adapted for operation between an aircraft engine and

an engine accessory, the combination of a housing adapted at one end for mounting on the engine and at the other end for attachment to the accessory, a first driving shaft at said one end adapted for attachment to a rotative engine element, a second driving shaft, a gear train connected between said shafts for increasing the speed of said second shaft relative to the speed of the engine element, a driven shaft telescopically related to said second shaft rotatable relative thereto and adapted for attachment to a shaft of the accessory, a fluid coupling including a first coupling member fixed to said second shaft and a second coupling member fixed to said driven shaft, means fixed to said first coupling member forming therewith the coupling fluid chamber enclosing said second coupling member and also forming a sump outside said chamber having fluid communication therewith, a stationary hollow disc-like receptacle within said sump and having a radially inner support at said other housing end, said receptacle communicating at its radially inner portion through ducts in said driven shaft and said second driving shaft with said coupling chamber and having a peripheral opening, a hollow scoop of substantially sector-shape pivotally mounted locally adjacent to the periphery of said receptacle for movement in said opening, said scoop facing the direction of rotation of said sump and having a deflector vane operated by the fluid in the sump for varying the position of the scoop and the rate of fluid intake thereof to the receptacle in accordance with the rate of rotation of the sump, and spring means connected between said scoop and said receptacle for biasing the scoop about its pivot oppositely to the direction of rotation of the sump.

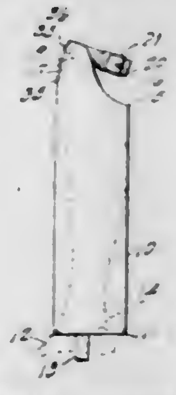
2,422,851

RAIN LEGGING

Mildred Randall, Berkeley, Calif.

Application November 28, 1945, Serial No. 631,325

2 Claims. (Cl. 36—2)



1. A rain legging comprising; a sleeve-like member having a knee portion and a garter, and a series of attaching means on said knee portion, and cooperative attaching means on said garter for selective detachable connection of said garter to said knee portion for adjusting the relative elevation of the legging.

2,422,852

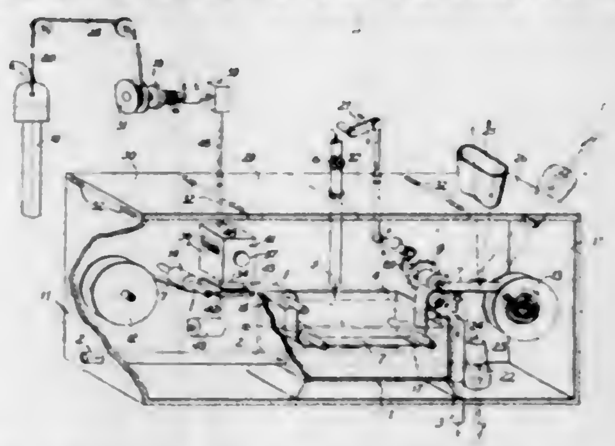
PROCESS OF DETECTING OIL DISPERSED IN WELL DRILLING FLUIDS

George L. Ratcliffe, Los Angeles, Calif., assignor to National Lead Company, Los Angeles, Calif., a corporation of New Jersey

Application July 11, 1942, Serial No. 450,605

12 Claims. (Cl. 73—153)

9. The process of detecting oil during drilling of a well by the employment of a drilling fluid, comprising, contacting the drilling fluid from the well with successive parts of a record base preferentially affected by oil and marking the successive parts of the record base with the well depths corresponding to the marking of the medium by the oil.



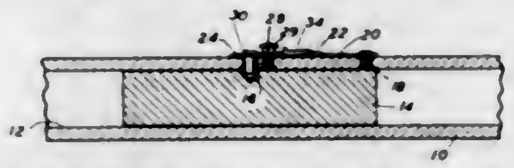
2,422,853

BOLT STOP FOR FIREARMS

Eugene G. Reising, Hartford, Conn.

Application November 29, 1943, Serial No. 512,128

3 Claims. (Cl. 42—16)



1. In a firearm, a receiver and a moving breech bolt therein, a leaf spring secured at one end to the receiver, a part of said spring offset away from the receiver, a lug on said part, means providing for projection of the lug into the receiver upon tensioning of the spring, means on the bolt for engagement by the lug when thus projected, and means latching the spring in bolt-stopping position of the lug.

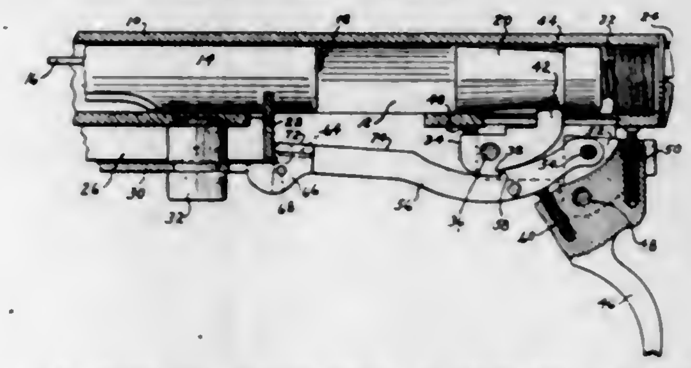
2,422,854

DISCONNECTOR FOR FIREARMS

Eugene G. Reising, Hartford, Conn.

Application November 28, 1944, Serial No. 565,446

13 Claims. (Cl. 42—3)



1. A firearm comprising a receiver having a bolt chamber, a bolt therein movable between breech open and closed positions, an action bar movable therewith, a sear, an element arranged to actuate the sear, a trigger arranged to actuate said element, said element being movable between operative and inoperative positions, pivotable means on the element in the path of the action bar providing a surface for movement of the element to inoperative position upon movement of the bolt towards breech open position, said means maintaining the element in inoperative position during the last portion of, but only until the end of, the breech closing motion of the bolt.

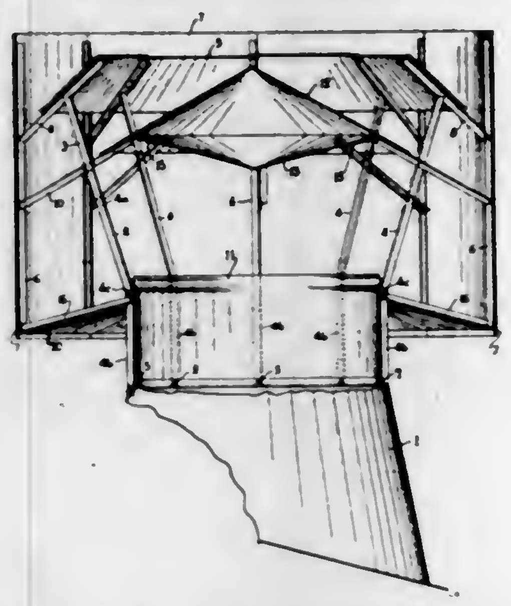
2,422,855

VENTILATOR CONSTRUCTION

Walter Rutter, Peninsula, Ohio, assignor to The Burt Manufacturing Company, Akron, Ohio, a corporation of Ohio

Application July 14, 1944, Serial No. 544,864

5 Claims. (Cl. 98—84)



1. In a circular ventilator construction, an annular base, an air shaft within the base and a plurality of rigid truss members radially arranged about the base, each truss member comprising a main strut, the lower portion of which is parallel to the air shaft and attached to the base, and the upper portion of which flares outwardly, and a secondary strut located outwardly of the main strut, a plurality of transverse braces attached to the struts and supporting the secondary strut from the main strut, one of said braces being attached at a midway point to the main strut to provide an overhanging portion extending inwardly of the ventilator, a cap attached to the several overhanging portions, and a wind band carried by the several secondary struts.

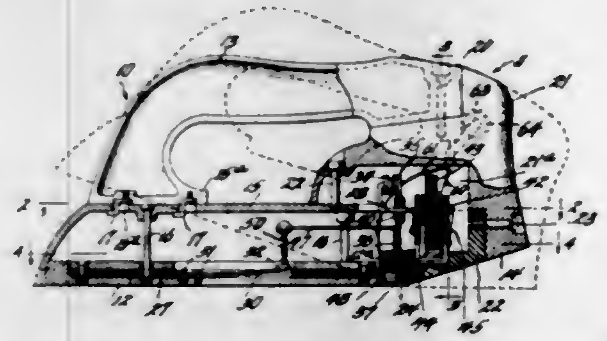
2,422,856

TILTING ELECTRIC FLATIRON

Earl Martin Schara, Washington, D. C., assignor of one-half to William B. Croney, Chicago, Ill.

Application May 18, 1944, Serial No. 536,154

3 Claims. (Cl. 219—25)



1. A flatiron having forward and rear portions provided, respectively, with work-engaging surfaces disposed in intersecting planes, the weight of the iron being so distributed that the work-engaging surface of the rear portion normally engages the work and the work-engaging surface of the forward portion is lifted out of contact with the work, and electrical heating means including a heating element mounted wholly on the forward portion and a thermostatic control device for regulating the heating action of said heating means, said device having a manually operable adjusting element, the rear portion of the iron having a recess formed therein, opening to a side surface thereof, within which said adjusting element is housed.

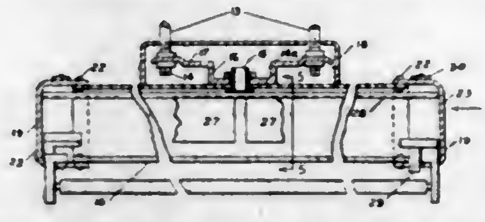
2,422,857

FLUORESCENT LAMP FIXTURE

Harry U. Schockett, Denver, Colo.

Application July 31, 1944, Serial No. 547,439

3 Claims. (Cl. 240—51.11)



1. A fluorescent lamp fixture comprising a tubular body of round cross section, means for supporting the body, and a removable cap at each end, the caps having side walls adapted to telescope over the ends of the body, means for securing the caps to the body in any desired relative rotary position, the cap walls having holes for the reception of fluorescent lamp sockets, lamp sockets positioned in the holes and operatively secured in place, whereby the caps and sockets can be assembled as independent units and attached to the body fully assembled.

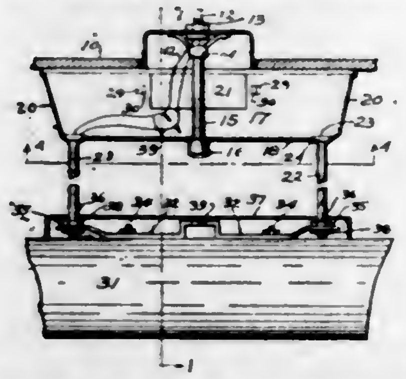
2,422,858

SUPPORT FOR FLUORESCENT LAMP FIXTURES

Harry U. Schockett, Denver, Colo.

Application October 21, 1944, Serial No. 559,783

3 Claims. (Cl. 248—345)



1. A combined fixture support and ceiling canopy for use in suspending an electric light fixture, comprising a long box, at least one of the elongated sides having an opening through which access may be had to the interior thereof, the bottom of the box having an opening for the reception of a supporting element, a box-like closure positioned on the outside of the canopy, in position to cover the opening, and means comprising tongues projecting from the end walls of the closure and outwardly flared, positioned to engage the walls of an opening to removably secure the closure to the canopy, the interconnections being releasable from the outside by pressure exerted on the end walls of the closure.

2,422,859

PRODUCTION OF NITRILES OF UNSATURATED ACIDS

Walter A. Schulze and John E. Mahan, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application May 4, 1944, Serial No. 534,161

10 Claims. (Cl. 260—464)

1. A process for the production of a nitrile of an unsaturated carboxylic acid which comprises

the reaction of hydrogen cyanide and a conjugated diolefin selected from the group consisting of aliphatic and cycloaliphatic diolefin hydrocarbons in the presence of an aqueous slightly acidic solution of cuprous chloride containing a solubilizing salt selected from the group consisting of ammonium and alkali-metal chlorides at a temperature between 100° and 500° F. and under pressure sufficient to maintain complete liquid phase conditions.

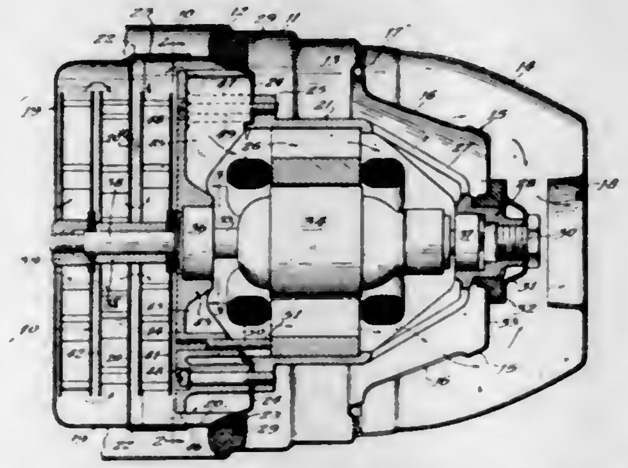
2,422,860

VACUUM CLEANER

Arthur W. Seyfried, Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application March 7, 1945, Serial No. 581,423

6 Claims. (Cl. 230—55)



1. A vacuum cleaner comprising a fan unit, a motor, housings for containing said fan unit and motor, said fan unit and motor having a shaft mounted axially in said housings, a bearing for the shaft between the fan unit and motor, and means for controlling the directions of the air currents leaving the fan, said means being an integrally formed unit comprising a bearing support for the shaft bearing, a baffle plate extending radially from the bearing support, the peripheral edge of the baffle plate being spaced from the fan housing and providing a passageway for air between said plate edge and the housing, and a plurality of vanes on that face of the baffle plate adjacent the motor between said bearing support and the peripheral edge of the plate, said vanes engaging air currents leaving the fan after they have passed between the baffle plate edge and the fan housing, and directing said currents inwardly toward the motor shaft and then axially through the motor.

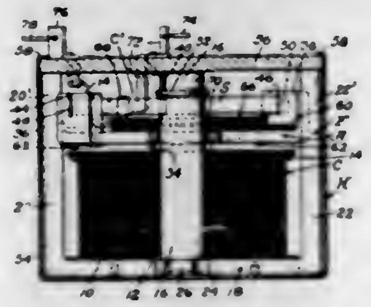
2,422,861

DYNAMICALLY BALANCED RELAY

Alfred Skrobisch, New York, N. Y., assignor to Eastern Air Devices, Inc., Brooklyn, N. Y., a corporation of New York

Application September 28, 1943, Serial No. 504,168

6 Claims. (Cl. 175—336)



1. A dynamically balanced relay comprising an electromagnet coil, a metallic field forming the magnetic paths therefor consisting of a core mounted centrally of the coil and a U-shaped piece the branches of which lie on opposite sides of the coil and the base of which lies along an end of the coil, the core being attached centrally to the base, the ends of said branches forming field pole pieces for the coil, a movable armature at the other end of the coil rotatably mounted about the axis of said core and having its pole pieces extending radially in opposite directions from said axis to lie adjacent the field pole pieces, and a spring for said armature anchored fixedly at the axis of said core and also extending radially in opposite directions from said axis and connected at its free ends to the ends of said armature.

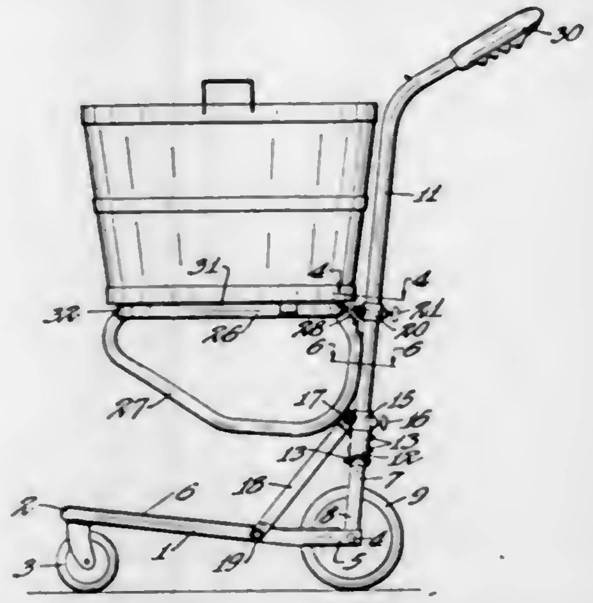
2,422,862

FOLDING UTILITY CART

Svend H. Stottrup, Waterloo, Iowa, assignor of one-third to Sigurd Stottrup and one-third to Helge Stottrup, both of Waterloo, Iowa

Application March 20, 1946, Serial No. 655,670

8 Claims. (Cl. 280—36)



1. In a device of the class described, a horizontally disposed lower frame, wheels mounting said frame, an upwardly and rearwardly extending handle pivotally associated with the rear end of said frame, an adjustable collar vertically slidable on said handle, a horizontally disposed upper frame connected to said collar by a horizontal pivot, a depending portion of said upper frame member engaging said handle immediately below said collar and limiting the downward pivotal movements of said frame.

2,422,863

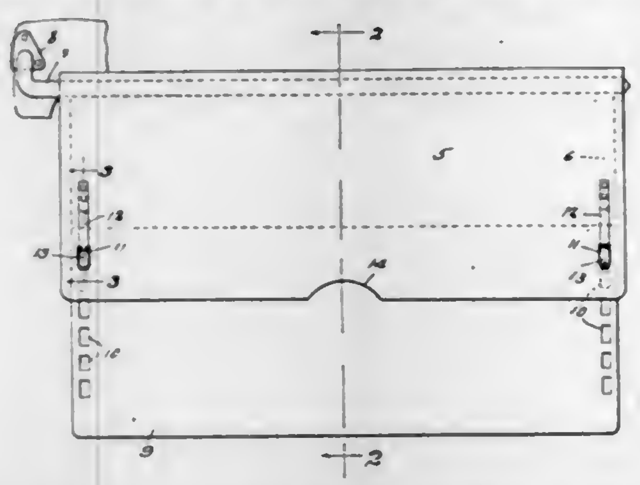
WINDSHIELD VISOR

Lowry B. Stroth, Wellston, Ohio

Application April 2, 1945, Serial No. 586,115

2 Claims. (Cl. 296—97)

1. A wind shield visor comprising a main visor section adapted to be supported adjacent to a wind shield, said main visor section having a compartment open along one of its edges, an extension section constructed of translucent material adapted to move into the compartment, said main visor section having openings formed adjacent to the side edges thereof communicating with the compartment, said extension section having lines of openings formed along the side edges, said openings adapted to register with the openings of the main visor section, and spring arms secured to the main visor section and adapted to extend through registering openings of the main visor section and extension section, securing the extension section against movement within the compartment.



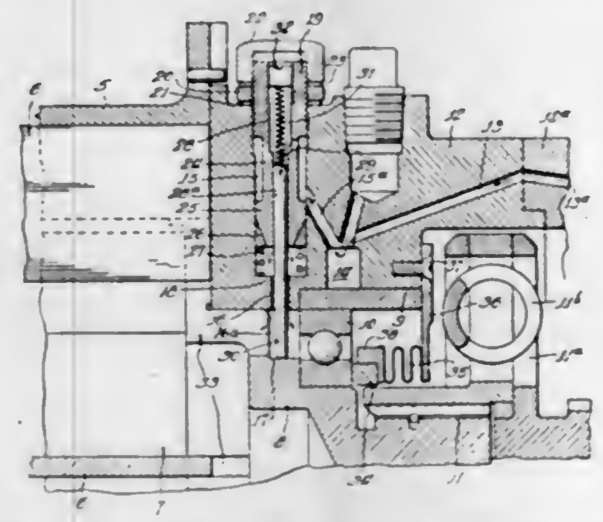
2,422,864

PUMP LUBRICANT METERING ARRANGEMENT

Clarence L. Taylor, East Cleveland, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application November 15, 1943, Serial No. 510,331

5 Claims. (Cl. 184—6)



1. A lubricant metering arrangement embodying a housing, a metering chamber in said housing, means for supplying lubricant to said chamber, a hollow sleeve adjustably mounted in said metering chamber, means placing said metering chamber in communication with a rotatable member in said housing, a vibratory metering pin in the bore of said sleeve with a protruding portion extending into contact with an annular portion of the rotatable member to effect vibration of said metering pin, and elastic means urging said metering pin into engagement with the annular portion of the rotatable member.

2,422,865

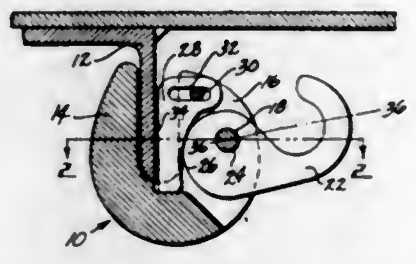
QUICK DETACHABLE HOOK

James I. Tucker, Los Angeles, Calif.

Application January 4, 1945, Serial No. 571,300

14 Claims. (Cl. 248—228)

1. A hook adapted for attachment to a support comprising: at least one member having a surface adapted to engage one side of a structure; a clamping shoe carried by said member, capable of limited linear displacement toward and away from said surface and adapted to presurally change a second side of said structure; and a load member pivotally attached to said member and provided with means to force said shoe into clamping engagement with said structure upon pivotal movement of said load member.



2,422,866

DIAGNOSTIC PREPARATIONS

Hermann Vollmer, New York, N. Y.

No Drawing. Application March 9, 1945, Serial No. 581,940

10 Claims. (Cl. 167—78)

1. Diagnostic preparation consisting of an emulsion of a solution of a film forming substance in a volatile solvent adapted to form after volatilization of said volatile solvent a flexible solid film, of a non-volatile fluid vehicle substance being insoluble in said solution of said film forming substance, and of a diagnostic substance adapted to create a skin reaction incorporated in and retained by said non-volatile fluid vehicle substance.

7. Diagnostic preparation consisting mainly of an emulsion of a solution of pyroxylin in a volatile solvent forming the continuous phase of said emulsion, and of non-volatile glycerinated tuberculin incorporated in said collodium solution in such proportion as to be insoluble in the same and to form the non-continuous phase of said emulsion.

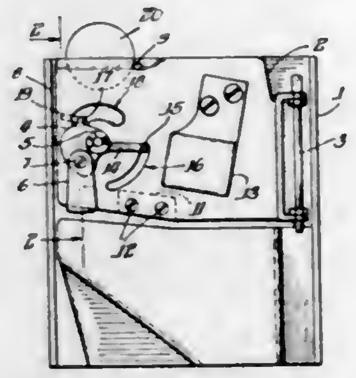
2,422,867

COIN SELECTOR

Fred E. Wallin, St. Louis, Mo., assignor to National Slug Rejectors, Inc., St. Louis, Mo., a corporation of Missouri

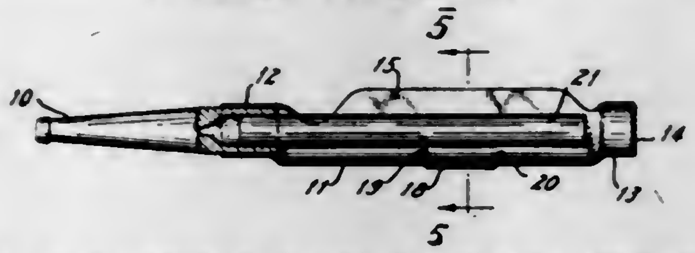
Application August 7, 1944, Serial No. 548,414

1 Claim. (Cl. 194—102)



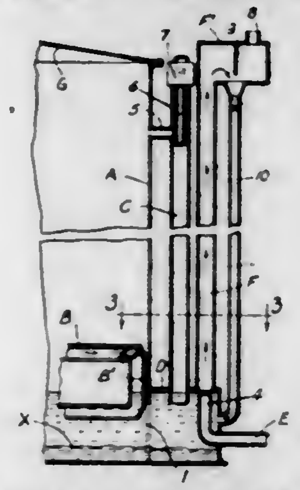
In a coin separator, a frame, means forming entrance, acceptance and rejection passageways, a rocker, means pivoting said rocker on said frame at substantially the junction of said passageways, a counterweight and means pivotally mounting said counterweight on one side of a vertical line passing through the pivot of said rocker, said rocker having two spaced abutments projecting into said entrance passageway, the distance between said abutments being sufficient to support a coin of a diameter equal to or greater than a coin of an acceptable diameter and to pass a coin between them of insufficient diameter, the pivot of said counterweight and at least one of said abutments being located on opposite sides of said vertical line passing through the pivot of said rocker to thereby cause pivoting of said rocker and counterweight and permit the passing of said coin into said acceptance passageway and sustain a coin having a weight less than the weight of an accepted coin between said abutments even upon the deposit of a second coin, the other of said abutments having a projection serving to partially support a second coin.

2,422,868
CIGARETTE HOLDER
Ernest A. Walters, Detroit, Mich.
Application February 7, 1947, Serial No. 727,215
4 Claims. (Cl. 131—175)



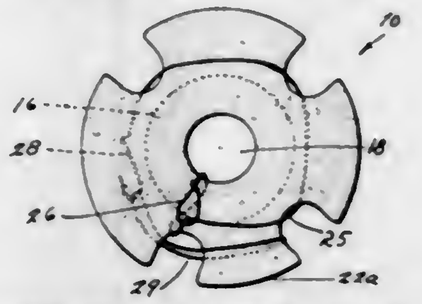
3. In a cigarette holder of the kind described in combination with the mouthpiece, a cigarette enclosing trough open at top and having a split cylindrical end sleeve for frictional engagement with the outer end of the mouthpiece, the bottom of the enclosure being provided with two lateral slits spaced from each other, and a cigarette supporting member having a flat body and two end prongs turned upwardly and passing through said slits into the interior of the casing to support a cigarette therein out of contact with the wall of said casing.

2,422,869
GAGING AND SAMPLING APPARATUS FOR LIQUID STORAGE TANKS
John H. Wiggins, Chicago, Ill.
Application February 5, 1945, Serial No. 576,300
3 Claims. (Cl. 137—21)



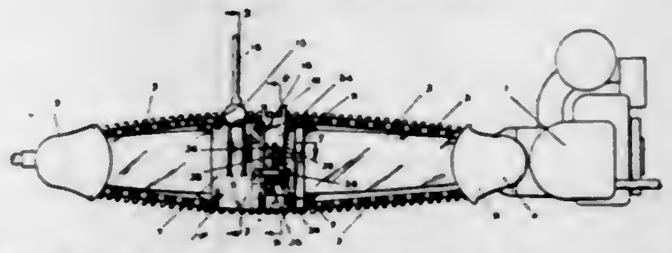
1. A liquid storage tank provided with a reservoir arranged on the exterior of the tank adjacent the bottom of the tank and provided with a top, the tank side wall having an opening located below the top of said reservoir, that establishes communication between said reservoir and the tank, a gage and sampling well formed by a tubular member that projects downwardly through the top of said reservoir and terminates at a level below said top, and a pipe for supplying the liquid to the tank, provided with an upwardly-projecting discharge portion that terminates inside of the reservoir at a level higher than the lower end of the tubular member that constitutes the gage and sampling well.

2,422,870
COMBINATION SHEATH AND REEL FOR LEADERS
Jerry Willis, Santa Ana, Calif.
Application August 17, 1943, Serial No. 498,990
2 Claims. (Cl. 43—31)



1. In combination, a sheath for the orderly arrangement and protection of leaders and hooks attached thereto for fishing lines, said sheath comprising a pair of matched semi-flexible discs, said discs being fixedly secured together and having an opening extending through the center thereof, said discs being provided with unequally spaced recesses in the periphery thereof whereby tab-like extensions of unequal length are created extending radially from a portion of the sheath, the relationship between said opening and any one of said recesses being such as to provide an anchorage for a first leader looped to pass through said opening and through a recess, said tab-like extensions being adapted to receive said leader or leaders wound thereon in such manner as to cause a hook on said leader to nest between one of the pairs of tab-like extensions, and flexible means looped over a last remaining hook and over another one of the tab-like extensions whereby the last said hook is held in nested position between a pair of said extensions.

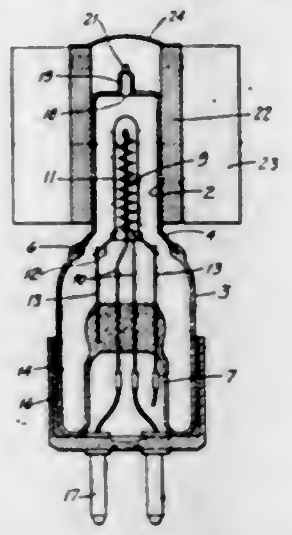
2,422,871
CHAIN SAW SETTING, JOINTING, AND FILING DEVICE
Ryce H. Wilson, Roseburg, Oreg.
Application June 1, 1944, Serial No. 538,265
5 Claims. (Cl. 76—70)



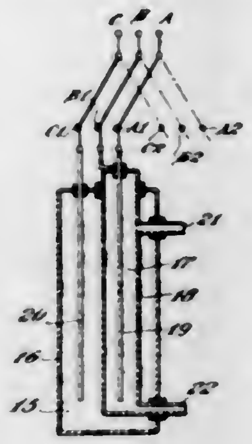
1. A saw chain supporting and cutting tool guiding device comprising a frame formed with a channel to receive and guide the saw chain carrying the saw teeth, a plate, means for securing the plate to the frame, an element adjustably carried by said plate and provided with guiding surfaces adapted to support and guide a cutting tool when moved transversely of the saw teeth and means for adjusting the element relative to the plate to move the guiding surfaces toward and from the saw chain and frame.

2,422,872
COOLER AND EXHAUST TUBULATION FOR EXTERNAL ANODE ELECTRON TUBES
Martin E. Wolfe, Lomita Park, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application July 6, 1945, Serial No. 603,471
3 Claims. (Cl. 250—27.5)

1. An electron tube comprising an envelope, a metallic anode forming part of said envelope, a cathode in the envelope, an exhaust tubulation projecting from the anode ported into the envelope, and a cooler structure on the anode having a portion enclosing said tubulation.

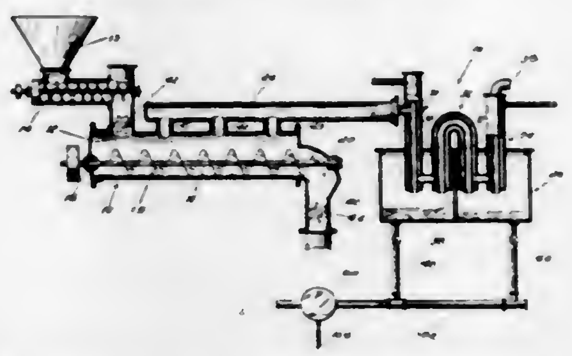


2,422,873
ELECTRICAL CONDUCTIVITY CELL
William F. Wolfner, II, Asbury Park, N. J., assignor to Photoswitch Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application May 19, 1943, Serial No. 487,672
1 Claim. (Cl. 175—183)



Apparatus for detecting the electric conductivity of fluid of varying temperature comprising: a first and a second vessel of which at least the second is conductive and which are adapted to receive a first and a second fluid, respectively, one of which fluids is of known conductivity and the other of which is of unknown conductivity; five mounting bushings, four of which are mounted in the walls of said first vessel and the fifth of which is of insulating material and is mounted in the wall of said second vessel; said second vessel being mounted in the first of said bushings, extending substantially within said first vessel, and having a portion exterior to said first vessel mounting said fifth bushing; a first and a second pipe means extending through the second and third of said bushings, rigidly connected to said second vessel, and adapted to pass fluid through said second vessel; a first probe electrode extending substantially into said first vessel through and supported by the fourth of said bushings; a second electrode extending substantially into said second vessel through and supported by said fifth bushing; and three terminals adapted for making connections to said first electrode, said second electrode and said second vessel respectively.

2,422,874
PROCESS OF OBTAINING THEOBROMINE AND OTHER PRODUCTS FROM COCOA MATERIALS
Benjamin J. Zenlea, Ozone Park, N. Y., assignor to Rockwood & Co., Brooklyn, N. Y., a corporation of Delaware
Application August 12, 1944, Serial No. 549,232
12 Claims. (Cl. 260—256)

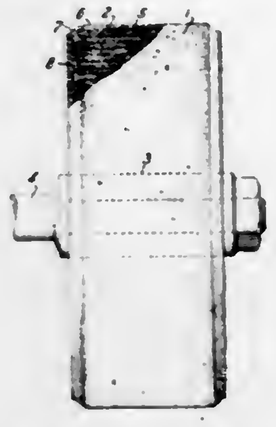


11. A process of treating theobromine containing material for obtaining theobromine therefrom, comprising passing said material continuously through a heating zone, heating said material while said material is passing through said zone at a temperature of about 550° F. to 800° F. for a time sufficient to break up the complexes in said material and to vaporize the theobromine therefrom, with incidental liberation of other vapors and gases, continuously removing said theobromine and other vapors from said zone to a condenser to form a distillate from said vapors, and treating said distillate to remove the theobromine therefrom.

2,422,875
PROCESS OF REFINING HYDROCARBONS
Per Henning Wilhelm Ågren, Nynashamn, Sweden, assignor to A. Johnson & Co., New York, N. Y., a company of Delaware
No Drawing. Application June 24, 1944, Serial 542,004. In Sweden August 17, 1942
9 Claims. (Cl. 196—24)

1. A process for the refining of hydrocarbons, comprising contacting said hydrocarbons with a catalyst at least partly consisting of aluminous cement, having a content of Al_2O_3 of at least 25 per cent.

2,422,876
LAMINATED ABRASIVE TOOL
George W. Allred, Mayodan, N. C.
Application January 5, 1945, Serial No. 571,418
7 Claims. (Cl. 51—190)



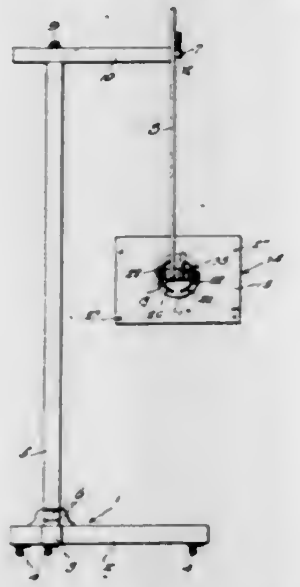
1. An abrasive tool comprising a plurality of superposed layers of sheet material, each layer comprising a portion coated with abrasive and uncoated portions, said uncoated portions being

folded between adjacent layers of said coated portions and said layers being secured together by adhesive attachment between uncoated surfaces thereof.

2,422,877

BOOKHOLDER

Edward H. Anderson, Chicago, Ill.
Application July 12, 1944, Serial No. 544,558
2 Claims. (Cl. 45—80)

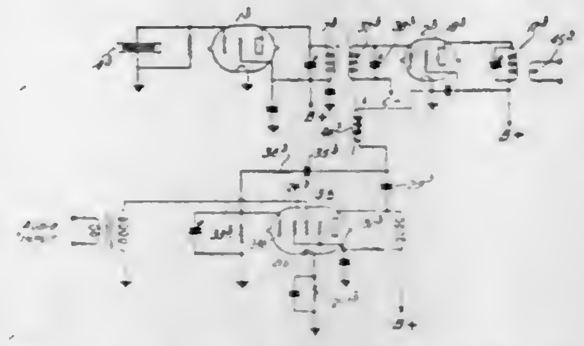


1. A book holder of the character described comprising a base, a standard rising from said base, a horizontal arm pivotally mounted for horizontal swinging adjustment on the upper end of the standard, a hanger, said hanger having spaced openings therein, a shank projecting longitudinally from the free end of the arm and engageable selectively in the openings for pivotally and vertically adjustably mounting the hanger on the arm, an arm pivotally mounted for vertical swinging adjustment on the lower portion of the hanger, a plate mounted for rotary adjustment on the free end of the second-named arm, and means for securing a book in position on said plate.

2,422,878

HIGH LEVEL MODULATION SYSTEM

John J. Antalek, Chicago, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Application November 13, 1943, Serial No. 510,121
14 Claims. (Cl. 179—171.5)

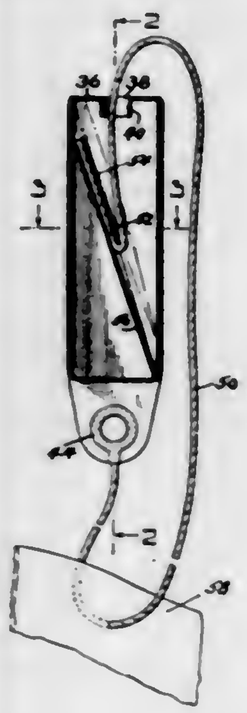


7. Method of high level modulation in a system wherein a first voice frequency actuated electronic tube circuit exhibiting variable capacity effects is caused to modulate the radio frequency energy in a second tuned circuit to which said tube circuit is coupled, including the steps of adjusting said electronic tube circuit so that the voice-frequency actuated tube thereof exhibits saturation characteristics in the grid potential-anode current curve thereof and maintaining bias and modulation of said tube at such relative levels that the point of zero modulation is nearer the saturation point of said anode current curve than the minimum anode current point and the modulation causes greater effective changes in the tube reactance in one direction than in the other direction.

2,422,879

SEAL

William Artzt, New Rochelle, and Mark Rubinoff, New York, N. Y., assignors to Sealtag, Inc., New York, N. Y., a corporation of New York
Application March 17, 1944, Serial No. 526,979
6 Claims. (Cl. 292—307)



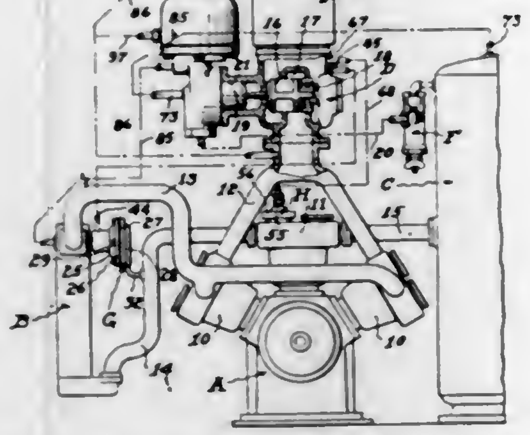
1. A seal comprising an elongated hollow body member comprising spaced front and rear members provided with overlapping flanges along their edges and an integral connection between one pair of ends of said members constituting an end wall of said body member, said end wall being provided with a needle orifice, the other pair of ends of said members extending beyond the ends of said flanges and in overlapping engagement with each other, a filament having one of its ends lying between said overlapping ends, means securing said overlapping ends together and securing said end of said filament therebetween, a needle carried by the other end of said filament and adapted to be passed through said needle orifice into said body member, and means constituting a portion of said body member for preventing withdrawal of said needle from said body member.

2,422,880

COMPRESSOR SYSTEM

Charles S. Baker, Corning, N. Y., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application June 27, 1944, Serial No. 542,286
4 Claims. (Cl. 230—26)

1. A compressor system including first and second stage compression cylinders, an intercooler interposed therebetween, a discharge receiver for the second stage cylinder, a pressure operated unloader for the first stage cylinder, means to operate the first stage unloader upon reaching a predetermined maximum discharge pressure in the receiver, and means acting independently of the first said means and in response to the pressure in the intercooler to operate said first stage unloader at the end of each period of operation of the compressor.



2,422,881

LUBRICATING OILS

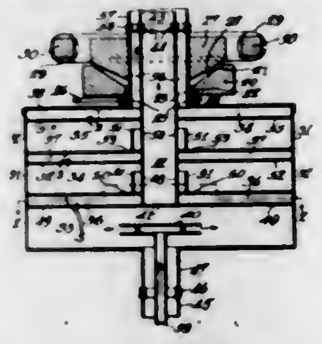
Charles M. Blair, Jr., St. Louis, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application February 20, 1946, Serial No. 649,124
10 Claims. (Cl. 252—56)

1. A composition of matter, consisting of a mineral lubricating oil and a relatively small amount of an aliphatic saturated alcohol-alpha-beta unsaturated dicarboxy acid-unsaturated aliphatic alcohol condensation product; said alcohols containing at least 8 and not more than 22 carbon atoms; said acid having not over 5 carbon atoms and said unsaturated alcohol having at least 3 intervening carbon atoms between the carbon atom to which the hydroxyl group is attached and the nearest ethylenic carbon atom; said condensation product resulting from a reaction in which the molal proportions of the alpha-beta unsaturated dicarboxy acid to the unsaturated alcohol are within the range of about 1.5 to 2.5 and the saturated alcohol reactant is such that the total equivalents of alcoholic reactants is about equal to the equivalents of dicarboxy acid used; said additive being present in amount varying from 0.025% to about 5%, by weight, on the basis of the lubricating oil with which it is admixed.

2,422,882

SEPARATION OF FLUIDS BY SIMULTANEOUS CENTRIFUGATION AND SELECTIVE DIFFUSION

Arthur Bramley, Long Branch, N. J.
Application November 4, 1942, Serial No. 464,509
15 Claims. (Cl. 233—1)

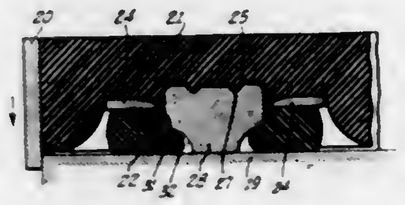


15. A solid-wall-type centrifuge having an unobstructed rotatable chamber provided with an inner porous division wall with capillary passages constituting the inner boundary of said chamber, means for introducing gases, vapors, or a mixture of gases and vapors within the unobstructed chamber, means for rotating the centrifuge and whirling under a centrifugal force of at least several thousand times gravity, the gases, vapors or a mixture of gases and vapors about the chamber and across the porous division wall at a speed markedly greater than the speed of travel of the porous division wall to aid in selectivity of separation, means for drawing off lighter components through the porous division wall and means for drawing off heavier components at a radially outer portion of the chamber.

2,422,883

METHOD AND APPARATUS FOR FLANGING SHEET METAL

Henry H. Bruderlin, Hermosa Beach, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif., a corporation of Delaware
Application January 24, 1942, Serial No. 428,094
9 Claims. (Cl. 113—44)



8. A device for forming a flanged article from a sheet, comprising the combination of: a die block having a front face to receive the sheet and a side face over which an edge portion of the sheet is to be formed; a body of material having the general characteristics of rubber; means for moving said body toward the front face of said die block so that it will apply pressure to said sheet to form the same on said die block; a movable member surrounding said die block and having a non-yielding front face including a surface inclined acutely toward the side of said die block, against which acutely inclined surface said flowable material is adapted to force the peripheral margin of said edge portion and bend said peripheral portion frontwardly at an acute angle with reference to the rest of said edge portion while resisting inward movement of said edge portion towards said die blocks; and resilient means surrounding said die block and supporting said movable member so that its pressure against said edge portion of said sheet will increase as said edge portion and said movable member are moved rearwardly across said side of said die block.

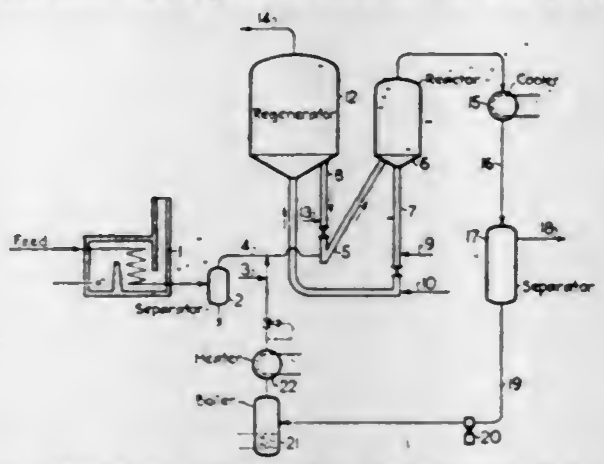
2,422,884

ISOMERIZING OLEFINS USING BORIC OXIDE ON ALUMINA AS CATALYST

James Burgin, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 26, 1943, Serial No. 480,706
5 Claims. (Cl. 260—683.2)

1. In a process for the catalytic conversion of an isomerizable olefinic compound to an olefinic isomer thereof, the improvement which comprises contacting the olefinic compound to be isomerized under isomerizing conditions with a catalyst consisting essentially of an adsorptive alumina obtained by the partial dehydration of an alumina

trihydrate crystallized from an alkali aluminate solution and having incorporated on the available

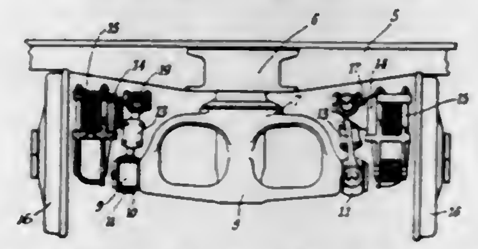


surface between about 1.5×10^{-4} and 9.5×10^{-4} grams of boric oxide per square meter.

2,422,885
SWING LINK CONSTRUCTION

Robert J. Burrows and Alfred O. Williams, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application February 6, 1945, Serial No. 576,465
8 Claims. (Cl. 105—190)

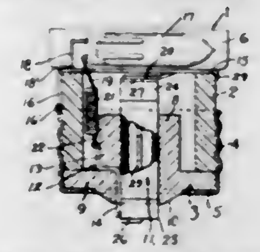


2. In a rail truck, a side frame member, a bracket secured thereon having oppositely extending pivot arms provided with axially extending arcuate recesses in the ends thereof, a transverse bolster having pivot arms at the end thereof adjacent said frame member extending parallel to said first pivot arms and having corresponding recesses, swing links having bearing portions at the ends thereof including fixed bushings receiving said arms, said bushings including radially inwardly directed tongue portions having rocking contact in said recesses, and means for securing said links together intermediate their ends for conjoint movement.

2,422,886
INDICATOR FUSE PLUG

Melvin G. Chittum, Brooklyn, N. Y.

Application September 28, 1945, Serial No. 619,048
4 Claims. (Cl. 200—121)



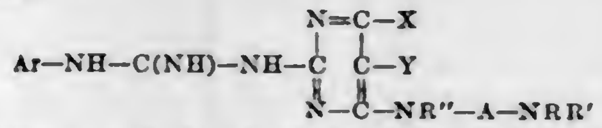
1. An indicator fuse plug comprising an inner section, an outer section having a recess in its outer portion, a flanged thimble for securing said sections together, means on said inner section adapted to receive and support a fuse cartridge therein, a fuse cartridge provided with an inlet and an outlet terminal mounted within said means, a transversely arranged conductor within said recess and supported by the outer section, said conductor having a depending leg and a tongue deflected toward the inner section and located in the path of said cartridge, said tongue being in engagement with the outlet terminal of said cartridge, the depending leg of said transversely arranged conductor being electrically connected to said thimble, a glow lamp having a pair of terminals mounted within said recess, one of the pair of terminals of said glow lamp being directly connected to said transversely arranged conductor, a resistance element, a conductor on said inner section having an end thereof in contact with the inlet terminal of said cartridge and its opposite end connected to the complemental end of said resistance element, and a second conductor leading from the other of the pair of terminals of said glow lamp and connected to the other end of said resistance element.

2,422,887
PYRIMIDINE COMPOUND AND PROCESSES FOR MAKING THE SAME

Francis Henry Swinden Curd and Francis Leslie Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application September 25, 1944, Serial No. 555,750. In Great Britain September 29, 1943
10 Claims. (Cl. 260—251)

1. As new compounds, the free base form and salts of the pyrimidine derivatives of the formula—



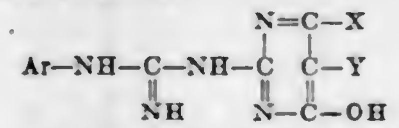
wherein Ar is an aromatic radical having not more than 10 carbon atoms in its cyclic skeleton and having its extranuclear valencies satisfied by attachment to members selected from the group consisting of hydrogen, alkyl, phenyl, alkyloxy, halogen, nitro and cyano; the pair of symbols X and Y represent substituents selected from the following group namely: (*a*) a single divalent aliphatic hydrocarbon radical which forms with 5- and 6-carbon atoms an alicyclic ring, (*b*) two hydrocarbon radicals, (*c*) one hydrocarbon radical and one hydrogen atom, and (*d*) two hydrogen atoms; R'' is a member of the group consisting of hydrogen, alkyl, alkoxyalkyl and dialkylaminoalkyl; A is a linking radical selected from the group consisting of aliphatic, alicyclic and aliphatic-carbocyclic radicals; and NRR' represents a basic radical selected from the group consisting of primary, secondary and tertiary amines and heterocyclic nitrogenous bases.

2,422,888
PYRIMIDINE COMPOUNDS AND METHOD OF MAKING THE SAME

Francis Henry Swinden Curd and Francis Leslie Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application September 25, 1944, Serial No. 555,751. In Great Britain September 29, 1943
9 Claims. (Cl. 260—251)

2. As new compounds, the pyrimidine derivatives of the formula



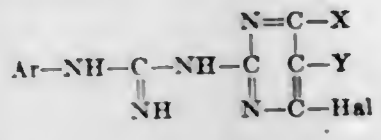
wherein Ar is an aromatic radical which contains not more than 10 carbon atoms in its cyclic skeleton and which is devoid of acidic substituents, while X and Y represent substituents selected from the group consisting of hydrogen and hydrocarbon radicals.

2,422,889
PYRIMIDINE COMPOUNDS AND PROCESS FOR MAKING THE SAME

Francis Henry Swinden Curd and Francis Leslie Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application September 25, 1944, Serial No. 555,752. In Great Britain September 29, 1943
9 Claims. (Cl. 260—251)

2. As new compounds, the pyrimidine derivatives of the formula



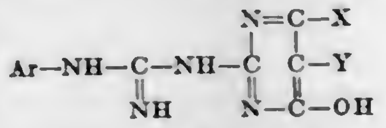
wherein Hal is a halogen atom, Ar is an aromatic radical which contains not more than 10 carbon atoms in its cyclic skeleton and which is devoid of acidic substituents, while the pair of symbols X and Y represent substituents selected from the following group, namely: (*a*) a single divalent aliphatic hydrocarbon radical which forms with the 5- and 6-carbon atoms an alicyclic ring, (*b*) two hydrocarbon radicals, (*c*) one hydrocarbon radical and one hydrogen atom, and (*d*) two hydrogen atoms.

2,422,890
PYRIMIDINE COMPOUNDS

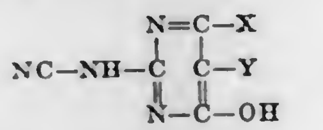
Francis Henry Swinden Curd and Francis Leslie Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application January 10, 1945, Serial No. 572,247. In Great Britain February 4, 1944
7 Claims. (Cl. 260—251)

3. Process for the manufacture of 2-arylguanidino-4-hydroxypyrimidines of the general formula



wherein the symbols Ar, X and Y have the meanings assigned to them hereinbelow, which comprises reacting an arylamine of the general formula Ar—NH_2 with a 2-cyanimino-4-hydroxypyrimide of the general formula

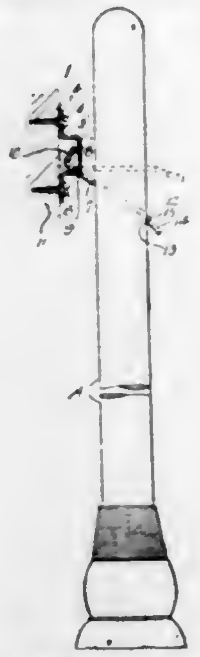


the symbol Ar in the above formulas being an aryl radical free of acidic substituents, while the pair of symbols X and Y represent substituents selected from the following group, namely: (*a*) a single divalent aliphatic hydrocarbon radical which forms with the 5- and 6-carbon atoms an alicyclic ring, (*b*) two hydrocarbon radicals, (*c*) one hydrocarbon radical and one hydrogen atom, and (*d*) two hydrogen atoms.

2,422,891
BROOM HOLDER

William F. Dickson, St. Louis, Mo.

Application September 12, 1945, Serial No. 615,881
1 Claim. (Cl. 24—249)

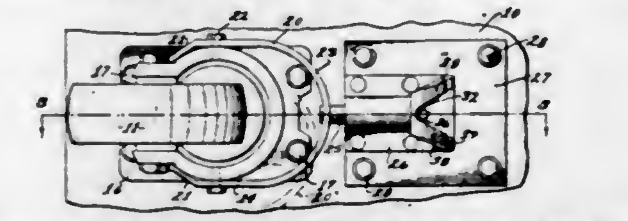


A holder for hanging brooms, brushes, mops and the like, having a bracket provided with a U-shaped portion terminating at its ends in ears adapted to be secured to a support with the front wall of the U-shaped portion of the bracket lying parallel with and spaced from the wall to provide a space therebetween, a handle holding plate having a handle receiving opening therethrough, said plate having a hinged connection with the U-shaped bracket at the lower front corner thereof, the inner end portion of the plate to the rear of the hinged connection terminating in an upwardly projecting flange arranged to function in the space between the wall and the U-shaped bracket portion to limit both upward and downward arcuate movement of the handle holding plate, and an arcuately shaped handle biting edge arranged at the lower forward edge of the handle receiving opening with the upper forward edge of the handle receiving opening arranged to lie slightly below the upper plane of the rearward adjacent portion of the plate and in a position forward to that of the handle biting edge on the lower edge of the wall of the handle receiving opening.

2,422,892
CASTER LOCKING ATTACHMENT

Frederick H. Forbes, Pasadena, and Charles F. Forbes, Los Angeles, Calif.

Application August 14, 1944, Serial No. 549,344
3 Claims. (Cl. 16—35)



3. In anti-swivel means for a caster having a caster wheel supporting frame mounted for rotation about a vertical axis and adapted to support the caster wheel with its horizontal axis of rotation to one side of said vertical axis, a plate mounted on said frame and presenting an arcuate section outwardly of said frame opposite said caster wheel, said arcuate section being eccentrically disposed with relation to said vertical axis and having a recess for the reception of a locking bolt.

2,422,893

COCONUT METHOD

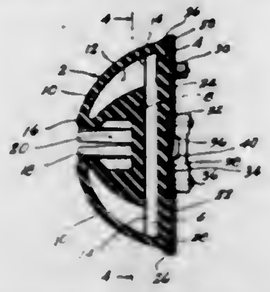
Jesse Clayton Forkner and John Hood Forkner, Fresno, Calif.
No Drawing. Application April 11, 1944, Serial No. 530,562
8 Claims. (Cl. 99—125)

1. In a method for manufacturing a skin free coconut product, the steps of grinding dried coconut with the skins, removing oil from the resulting material, and then removing skins by subjecting the material to separating forces.

2,422,894

TRUSS PAD

Fred J. Grubb, Marshall, Mich.
Application October 1, 1946, Serial No. 700,515
3 Claims. (Cl. 128—118)

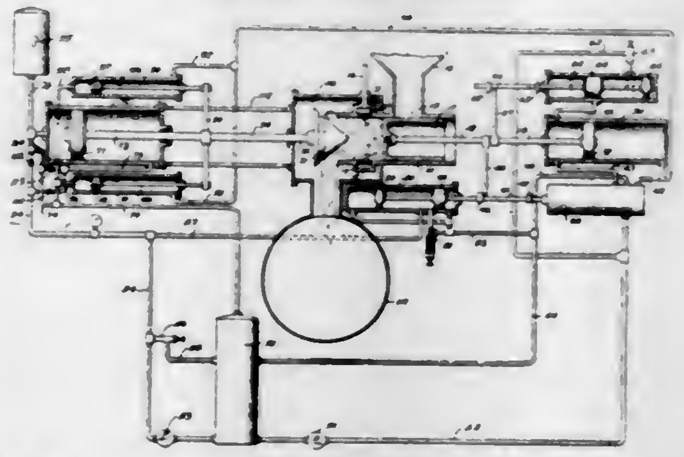


1. A truss comprising a back plate, a hollow resilient air filled casing carried on said back plate, a plurality of hollow air filled resilient fingers protruding out of said casing, with their interiors communicating with the interior of said casing, said fingers being disposed about an axis substantially perpendicular to said back plate and normally spaced from each other.

2,422,895

PRESSING APPARATUS

August F. Habenicht, Tinley Park, Ill.
Application July 20, 1944, Serial No. 545,803
7 Claims. (Cl. 100—50)

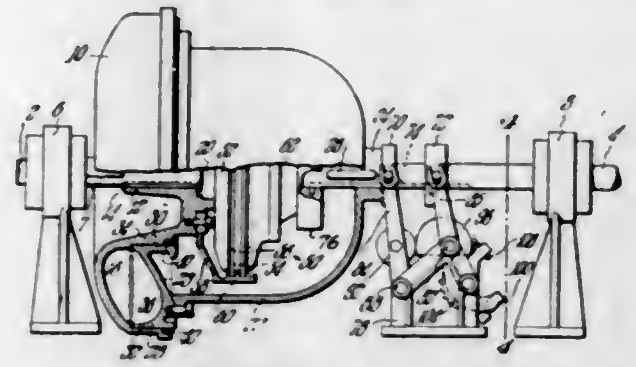


1. A press for separating liquid from solid matter, comprising a cylinder, an inlet through which said matter is introduced into the cylinder, an outlet through which said solid matter may pass from said cylinder after being pressed, means for withdrawing liquid from said cylinder as said matter is pressed therein, a piston adapted to press said matter forwardly in said cylinder from said inlet, a second piston adjacent said outlet and adapted to yield to pressure of said matter upon forward movement of said first-mentioned piston, means for driving said second piston rearwardly to force the pressed matter through said outlet, and means for actuating said last-mentioned means for operation when said first-mentioned piston is at approximately the forward end of its stroke.

2,422,896

CLUTCH MECHANISM

Millard F. Hayes, Hudson Falls, N. Y., assignor to The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y., a corporation of New York
Application April 7, 1945, Serial No. 587,134
5 Claims. (Cl. 192—3.2)

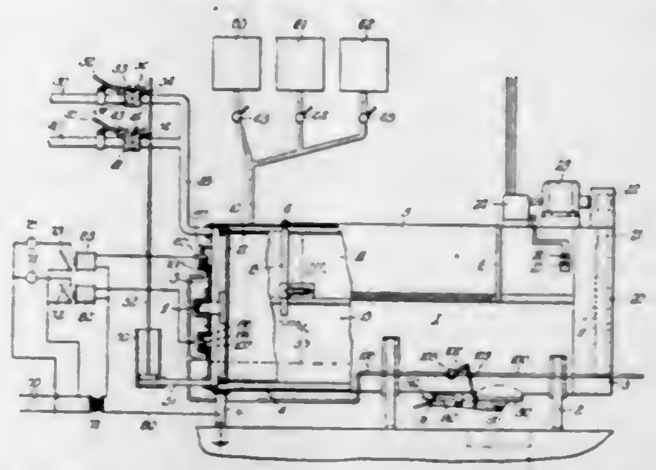


1. A clutch construction comprising in combination, a drive member provided with fluid clutch forming pockets and having friction clutch means associated therewith, a first driven member having clutch forming pockets thereon and being movable towards said drive member into clutching position with the pockets thereof cooperating with those of the drive member and away therefrom, and a second driven member having friction clutch means thereon and being movable independently of the first driven member towards said drive member into clutching position with the clutch means thereof cooperating with the clutch means of the drive member and away therefrom.

2,422,897

ART OF CLEANING FABRICS

George P. Hebard, Davenport, Iowa, and Herman E. Sheets, St. Paul, Minn., assignors to American Machine and Metals, Inc., East Moline, Ill., a corporation of Delaware
Application May 22, 1943, Serial No. 487,992
2 Claims. (Cl. 8—159)

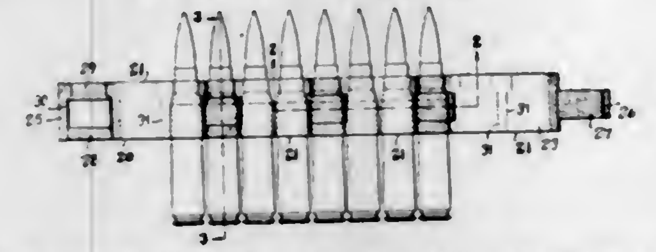


1. The process of removing soil from fabrics which comprises agitating the fabrics in a series of successive baths, the quantity of water in each bath bearing a fixed relation to the quantity of fabrics; adding soap to each bath at the beginning of the agitation thereof at a fixed rate which is faster than the rate at which the soap can be neutralized by the soil present with the quantities of water and fabrics present until an initial blanket of suds is formed to a predetermined level; terminating the supply of soap when said blanket of suds is formed; continuing agitation until the entire period of agitation of each bath has lasted for a fixed length of time; the rate of soap feed being such that upon the termination of the soap feed there is present in the bath soap sufficient to produce a suds of at least a predetermined depth above the initial suds level when the end of the period of agitation is reached if the fabrics are clean at that time, but insufficient to produce such a depth of suds at that time if the fabrics are not clean; and stopping the series of baths at the end of the first period of agitation in which the suds is of at least said predetermined depth above the initial suds level at the end of the period.

2,422,898

CARTRIDGE FEED BELT FOR MACHINE GUNS

James A. Hendley, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application August 12, 1943, Serial No. 498,291
4 Claims. (Cl. 89—35)

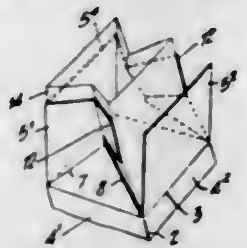


1. A cartridge feed-belt unit for machine guns comprising: a feed-belt unit formed of two plies of woven fabric and having at least one flexible complete cartridge-receiving pocket and a central tongue-loop at one end and spaced-apart tongue-loops at the other end with a strap-portion connecting the outer ends of said spaced-apart tongue-loops together; the central tongue-loop being constructed and arranged to overlap and extend between the spaced-apart tongue-loops of an adjacent similar feed-belt unit and have a cartridge extend through the said overlapped loops to connect said two units together; and the spaced-apart tongue-loops of said first-mentioned feed-belt unit being constructed and arranged to be similarly connected to the central tongue-loop of another similar feed-belt unit, and each said tongue-loop being flexible and formed as an integral part of said feed-belt unit and of portions of said two plies of woven fabric of substantially equal length.

2,422,899

PACKAGE

Stig Bertil Hogdal, Danderyd, Sweden
Application March 26, 1945, Serial No. 584,925
In Sweden August 15, 1944
2 Claims. (Cl. 229—14)

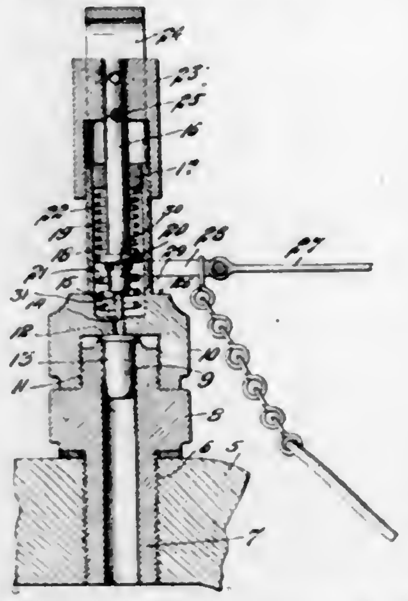


1. A package for the purpose set forth, comprising a box of stiff material and an unslitted lining inserted therein, said box having side panels and, at least at one end, a set of end panels foldably connected with the respective side panels of the box for closing the package, one of said end panels being separate from the adjoining end panels, while the remaining end panels are joined with each other at the corners of the box, the two opposite ones of said joined end panels having oblique fold lines extending from their bottom corners to approximately their centres and longitudinal central fold lines extending from approximately said centres to the outer edges of the panels, each of said panels also having a portion cut away leaving outwardly thereof a flap-like portion foldable around the longitudinal central fold line of the respective panel.

2,422,900

FIRING MECHANISM

Arthur Hubalek, Brooklyn, N. Y.
Application July 4, 1945, Serial No. 603,223
1 Claim. (Cl. 89—27)



Gun firing mechanism comprising a cartridge holder having a cartridge chamber, a breech piece having a wall closing said cartridge chamber and provided with a firing pin passage, a seat at the outer end of said passage, a firing pin operable in said passage, a relatively long, light, flexible coil spring operable to project said firing pin through said passage, a relatively short, stiff, heavy spring operable when engaged with said seat to hold said firing pin against the opposition of said lighter spring retracted in said passage and releasable means for withdrawing said firing pin and tensioning said lighter spring sufficiently to enable it to overcome the heavier spring and when said means is released project said firing pin from said passage, said heavier spring being attached to the firing pin and withdrawn thereby clear of said seat, said firing pin having an annular groove and said heavier spring having a smaller convolution engaged in said groove and whereby said heavier spring will remain at all times attached to said firing pin and thereby be surely withdrawn from engagement with said seat when said firing pin is withdrawn ready for firing, said means for withdrawing said firing pin and tensioning the lighter spring including a yoke pivoted on the firing pin, the breech piece having a shoulder engageable by one end of the yoke for enabling the yoke to hold the firing pin cocked in firing position with the heavier spring retracted clear of its seat.

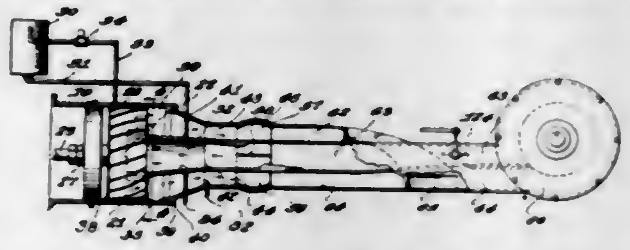
2,422,901

ROTARY PUMP

George D. Hunter, Rocky Mount, N. C.
Application July 5, 1941, Serial No. 401,248
3 Claims. (Cl. 103—87)

1. A rotary pump comprising a collar having an opening provided therein, a blade attached at one end to the collar and projecting radially from said collar, a casing in which said blade is rotatably mounted, an inlet conduit projecting into said collar and providing a bearing surface upon

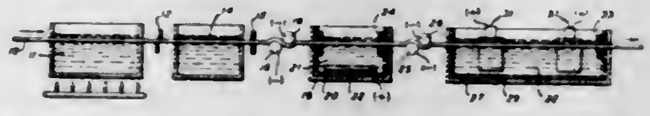
which said collar may freely rotate, said casing forming about said inlet conduit an annular fluid discharge passage, a driving member, said blade extending from said collar at an acute angle to the axis of rotation of the collar and said blade being attached at the other end to the driving member, means for closing the other end of said blade to passage of fluid, the driving member and the collar aforesaid being positioned in a spaced relation whereby upon a fluid medium being introduced through the inlet conduit the fluid medium may upon rotation of said blade be fed to the blade through the space provided between the collar and the driving member and forced out said discharge passage, and driving means for rotating said blades.



2,422,902

METHOD OF ELECTROLYTICALLY CLEANING AND PLATING CONDUCTORS CONSISTING PRINCIPALLY OF COPPER

Kenneth M. Huston, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 24, 1942, Serial No. 432,149
3 Claims. (Cl. 204—32)

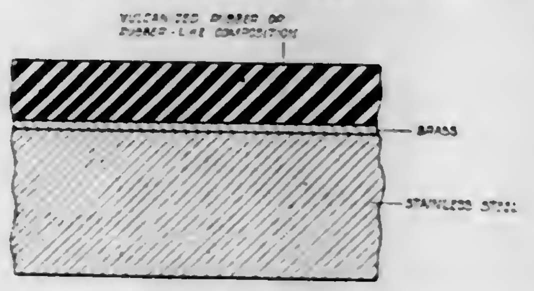


1. The process for treating conductors consisting principally of copper, which comprises making such a conductor an electrode in an electrolytic cell in which the electrolyte consists solely of an aqueous solution of fluosilicic acid containing at least 10% but not more than about 60% of said acid, and immediately introducing said conductor into a lead plating bath consisting essentially of a solution of lead fluosilicate and free fluosilicic acid.

2,422,903

PROCESS FOR ELECTROLYTICALLY TREATING STAINLESS STEEL ARTICLES

Kenneth M. Huston, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 21, 1944, Serial No. 532,182
1 Claim. (Cl. 204—34)



The process for treating stainless steel articles, which comprises electrolyzing such an article as an anode at an anode current density of from about 350 to about 540 amperes per square foot in an electrolyte consisting of a water solution of fluosilicic acid of from about 10% to about 60% concentration for a period of from about twenty seconds to about two minutes while maintaining the electrolyte at a temperature not exceeding about 85° F., washing the thus-treated article with water, and making the wet article the cathode in a cyanide brass plating bath of such composition as to deposit thereon a brass plate containing from about 70% to about 80% of copper.

2,422,904

METHOD OF PREPARING $\Delta^{1,4}$-ANDROSTADIENOL-17-ONE-3 AND ITS DERIVATIVES

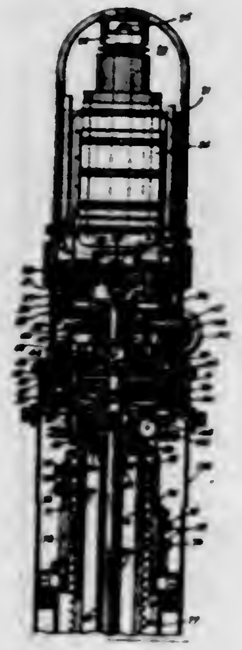
Hans Herloff Inhoffen, Berlin-Wilmersdorf, and Gerhard Zühlsdorff, Berlin N. 65, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application February 11, 1941, Serial No. 378,378. In Germany May 29, 1936
7 Claims. (Cl. 260—397.4)

1. In a process for the manufacture of valuable steroid hydroxy ketones which are twofold unsaturated in ring A, the step which comprises heating an androstanol-17-one-3 dihalogenated in ring A with collidine until halogen hydride is split off.

2,422,905

CONTROL MECHANISM FOR REVERSIBLE ELECTRIC MOTORS

George W. Jackson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 1, 1945, Serial No. 591,385
10 Claims. (Cl. 192—142)

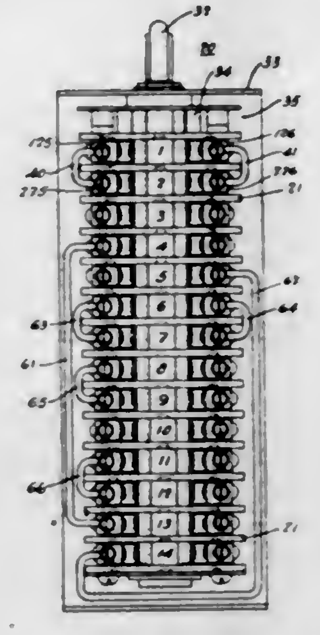


1. In combination with a reversible electric motor, two switches in circuit with the motor, each operative to control motor operation in a respective direction; cooperating screw and nut members, one of which is rotated by the electric motor, the other being held nonrotatable, but movable axially on said one member in response to rotation thereof; a torque bar connected to the rotated member so as to turn therewith; a collar supported by the rotated member and slidable axially thereon; a tiltable lever engaging the collar and operative thereby to actuate the switches; means on the axially movable member for engaging the torque bar to prevent its rotation and thereby cause twisting thereof when said movable member reaches one or the other of its predetermined positions on the rotated member; and means supported by the rotated member, connecting the collar with the torque bar, said means being inactive while the torque bar rotates with the rotated member, but rendered active to move the collar axially on the rotated member for actuating the tiltable lever, when said torque bar is engaged and held against rotation by the axially movable member.

2,422,906

STAR-DELTA MOTOR CONTROLLER

Frederick F. Johnson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application filed June 22, 1944, Serial No. 541,515
3 Claims. (Cl. 172—280)



1. A controller for a 3-phase A. C. motor having a stator winding for N pole series-delta operation or for

$$\frac{N}{2}\text{-pole}$$

parallel Y operations and having end terminals T7 and T3 and intermediate terminals T5, T2, T6, T1, T4 and having a stator winding for N'-pole series-delta operation or for

$$\frac{N'}{2}\text{-pole}$$

parallel Y operation and having end terminals T17 and T13 and intermediate terminals T15, T12, T16, T11, T14, N' being a number less than N and greater than

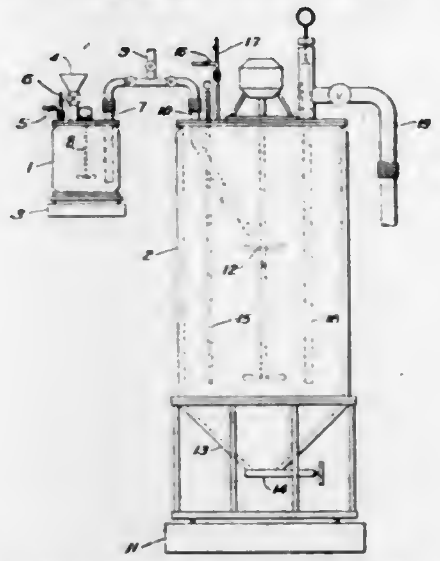
$$\frac{N}{2}$$

said controller having line terminals 1, 2 and 3 and conductors referred to hereinafter by I, II, III, IV, V (IV being connected to T7) and a single controlling member having four positions forward (F) from off position and four position reverse (R) from off position and having fourteen switches variously operated by the controller member for making the following connections: switch 1, line 1 to conductor I in F positions 1, 2, 3 and 4, line 2 to conductor I in R positions 1, 2, 3 and 4; switch 2, line 2 to conductor II in F positions 1, 2, 3 and 4, line 1 to conductor II in R positions 1, 2, 3 and 4; switch 3, conductor I to T6 and conductor II to T4 in positions 3, F and R; switch 4, conductor I to T11 in positions 2, F and R, and conductor II to T14 in positions 4, F and R; switch 5, conductor I to T16 in positions 4, F and R, and conductor II to T12 in positions 2, F and R; switch 6, conductor I to T1 and conductor II to T2 in positions 1, F and R; switch 7 conductor IV to T1 and T2 in positions 3, F and R; switch 8, conductor IV to T3 in positions 1, F and R; conductor IV to T3 and conductor III to T5 in positions 3, F and R; switch 9, conductor III to T3 in positions 1, F and R; switch 10, line 3 to conductor III in positions 1, 2, 3 and 4, F and R; switch 11, conductor III to T13 in positions 2, F and R, and conductor III to T15 in positions 4, F and R; switch 12, conductor V to T13 and T17 in positions 2 and 4, F and R; switch 13, conductor V to T11 in positions 4, F and R; and switch 14, conductor V to T12 positions 4, F and R.

2,422,907

PURIFICATION OF ACID POTASSIUM FLUORIDES

Paul R. Johnson, Claymont, Del., assignor to the United States of America, as represented by the Director of the Office of Scientific Research and Development
Application January 30, 1945, Serial No. 575,321
7 Claims. (Cl. 23—88)

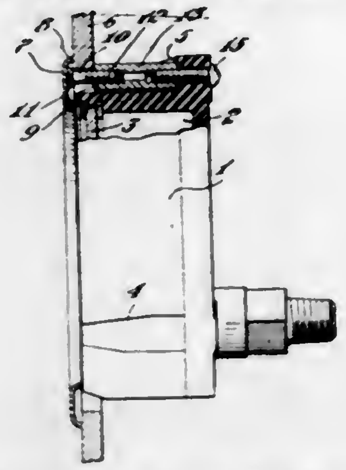


1. The method of removing iron dissolved in molten acid potassium fluoride, which comprises adding a sodium fluoride to the molten salt to precipitate a solid fluoride of sodium and iron and separating the precipitated solid fluoride from the molten salt.

2,422,908

MEANS FOR MOUNTING DIAL INSTRUMENTS

Samuel Kahn, Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application November 10, 1944, Serial No. 562,859
7 Claims. (Cl. 248—27)



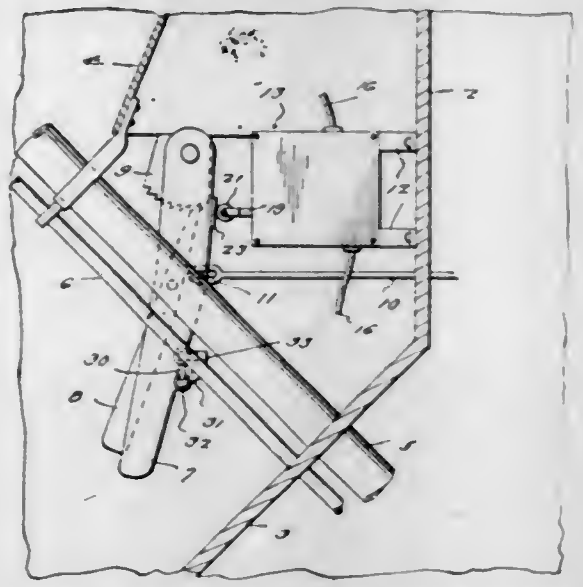
1. The combination with a dial instrument having a case provided with a transparent front panel and having a part provided with a forwardly directed abutment surface and with an aperture whose axis is perpendicular to the plane of the

transparent panel, attaching means designed to secure the instrument case in an opening in a support with the transparent panel substantially flush with the forward surface of the support, said attaching means comprising a ring of a diameter greater than that of the opening in the support and designed to engage the forward surface of the support bordering the opening, an elongate stud fixed at its forward end to the ring, tubular spacers each internally screw threaded at both ends, each spacer being of an external diameter such that when engaged with its stud its forward end bears against the rear surface of the support thereby to clamp the ring against the front surface of the support, each spacer having a rear surface designed to engage a surface of the instrument case thereby to locate the forward face of the case in desired relation to the plane of the front surface of the support, and screws designed to pass through openings in corresponding parts of the case and to engage the internal threads at the rear ends of the spacers, thereby detachably to secure the case to the ring.

2,422,909

SAFETY STARTER SWITCH

Oscar A. Kangas, Frazee, Minn.
Application December 21, 1943, Serial No. 515,167
6 Claims. (Cl. 192—2)

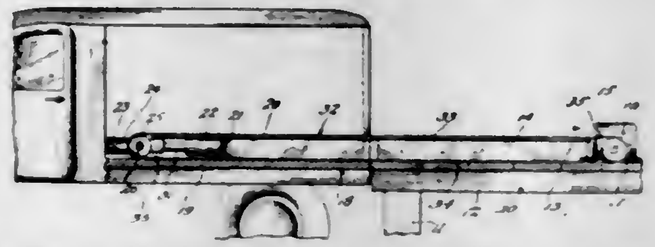


1. In combination with the hand brake lever and variable speed transmission operating means of a motor vehicle, a starter switch operatively connected to the lever for actuation to closed position thereby, and means operable by the transmission operating means for blocking the lever for preventing closing of the starter switch when said transmission is in any of its speeds.

2,422,910

APPARATUS FOR LOADING TRUCKS

John Katinos, Jr., Oakmont, Pa.
Application April 9, 1945, Serial No. 587,361
10 Claims. (Cl. 214—38)

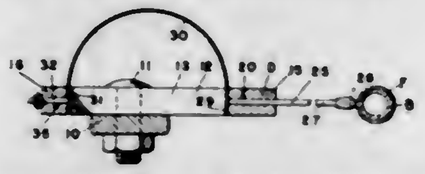


1. In a truck loader, a belt conveyor supporting element within the body of a truck, a belt conveyor supporting element wholly outside of the truck body, a two part conveyor belt adapted to run over the conveyor supports, detachable means joining the two parts of the belt together at opposite ends and means for driving the conveyor belt as a unit when the parts thereof are joined.

2,422,911

ELECTRIC WEFT DETECTOR FOR LOOMS

Charles B. Keenan, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application March 18, 1946, Serial No. 655,103
9 Claims. (Cl. 139—273)

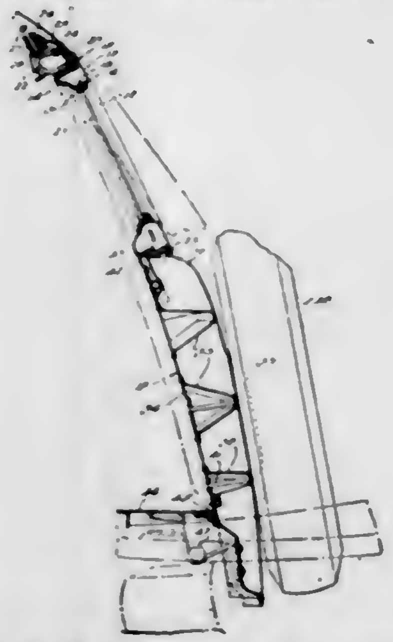


1. A detector element for an electric weft detector, said element comprising a normally flat elongated sheet metal spring, a metallic detector finger permanently connected to one end of the spring and extending laterally therefrom, and a binding post permanently connected to the other end of the spring and projecting laterally therefrom.

2,422,912

CLOSURE FOR AUTOMOBILE BODIES OF STATION WAGON TYPE

William F. Kling, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application October 16, 1944, Serial No. 558,835
1 Claim. (Cl. 296—44)

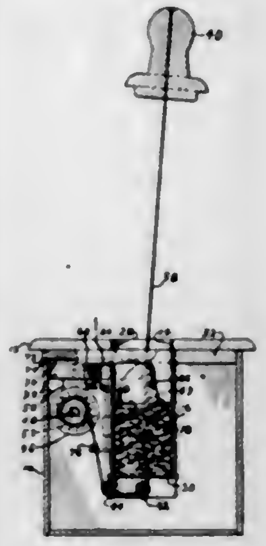


In a vehicle body having a door opening in the rear wall defined by side pillars, a header and a floor panel, a closure for said opening embodying an upper window frame and a lower panel element, a flange on the lower edge of said frame overlapping the top edge of said lower panel element, hinges securing the upper edge of the frame to the header, hinge means securing the lower portion of the lower panel element to the floor panel, latch means for securing the lower panel element in closed position, locking means for said frame which also locks said lower panel element in position by means of said overlapping flange, spring means operating on the hinges of said frame for moving said frame ajar when the locking means is released to permit the lower panel to be raised and lowered without interference with the upper window frame, and spring means attached to said lower panel element for counterbalancing the weight of said element.

2,422,913

AMUSEMENT DEVICE

John M. Leach, Port Washington, N. Y.
Application December 3, 1945, Serial No. 632,373
6 Claims. (Cl. 46—146)

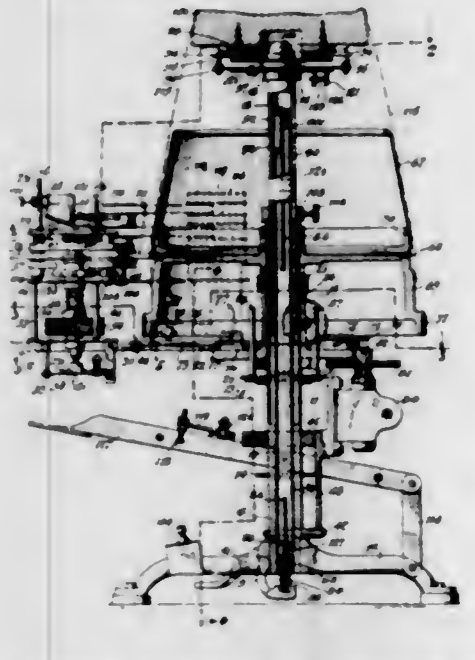


1. An amusement device comprising a casing, a resilient replica of a reptile contained therein, releasable mechanism holding the reptile in compressed condition within the casing, a cable within the casing, distinct from said releasable mechanism and having lateral guidable connection with the reptile, means for withdrawing the cable from the casing, and means operated by movement of the cable when it is at least in part withdrawn from the casing to release the releasable mechanism to permit the reptile to spring from the casing while laterally guided by the cable.

2,422,914

GARMENT TRIMMING MACHINE

Henry Lehde, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Samuel Shefsky, Brooklyn, and Philip L. Rudich, New York, N. Y.
Application March 2, 1940, Serial No. 321,894
56 Claims. (Cl. 164—71)

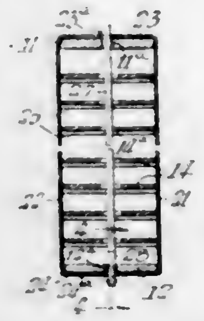


1. In a garment trimming machine, a supporting standard adapted to support a garment form, a drum surface supported by said standard around which the lower portion of the garment may be draped, means for cutting the bottom of the garment, and means for smoothing the garment material being cut, said smoothing means including a smoothing belt, means for moving said smoothing belt into and out of pressing engagement with the garment material draped around said drum surface, and means for driving said smoothing belt.

2,422,915

VENETIAN BLIND

Paul Lippert, Chicago, Ill.
Application July 31, 1944, Serial No. 547,421
9 Claims. (Cl. 160—173)

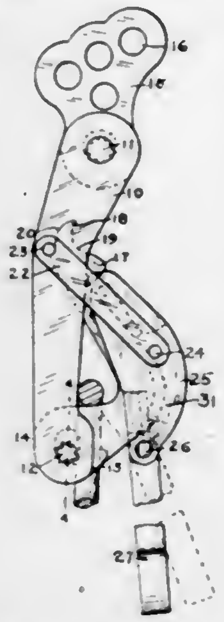


1. In combination with the raising and lowering cord of a Venetian blind that includes a foot rail having an opening therein, means for detachably connecting one end of said cord to said foot rail, and including a member attached to the cord and swingable from a position substantially in line with the cord to facilitate passage through said opening in said foot rail to a position crosswise of the cord to prevent its withdrawal through said opening.

2,422,916

PELICAN HOOK

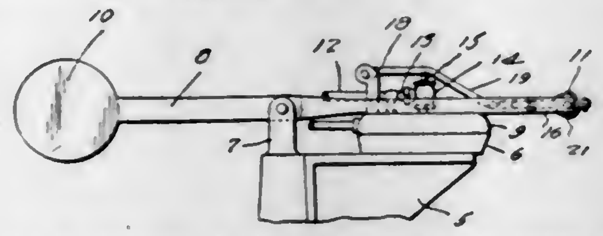
William Robert MacCluney, Dearborn, Mich.
Application September 7, 1944, Serial No. 552,956
7 Claims. (Cl. 294—83)



1. A pelican hook comprising a main link having at one end a chain receiving portion, a pivoted arm pivoted to the other end of said link, said arm having a chain receiving portion, a closing lever, a connecting link pivoted at one end to said main link and at the other end to said closing lever, said closing lever having a handle and an engaging arm for engaging the free end of said movable arm, said movable arm having a recess near its end into which said engaging arm moves as the closing lever is turned about its pivot, said parts being so proportioned that the closing of the closing link will move the movable arm bodily upwardly against the direction of strain between the chain receiving portions.

2,422,917
GARMENT PRESS HAVING A STEAMING DEVICE

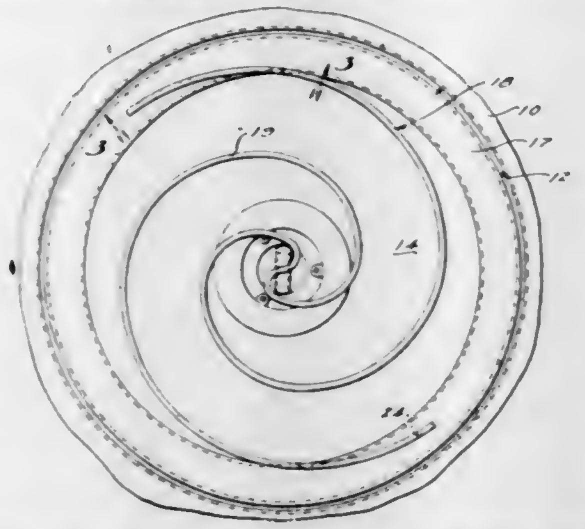
John Mallouf, Las Vegas, N. Mex.
Application October 18, 1944, Serial No. 559,209
2 Claims. (Cl. 38—15)



1. In a garment press, a stationary lower pressing member, a vertically movable upper pressing member having a steaming device, a steaming valve for controlling flow of steam to the steaming device and arranged above the upper pressing member, said valve including an upwardly seating valve member having an upwardly projecting rod and a seating spring to allow closing of the said valve under its action, a bracket carried by the upper pressing member rearwardly of said steaming valve, a lever pivoted at one end to said bracket for vertical swinging movement, said lever extending forwardly across and in contact with the upper end of said valve rod and then forwardly and downwardly to a point at the front of the upper pressing member, spaced supports projecting forwardly from said upper pressing member at opposite sides of said lever, a handle disposed between and supported by the forward ends of said supports, said handle extending transversely of the lever and rotatably mounted on its own axis, and at least one arm fixed to said handle and projecting rearwardly to a point beside the forward end of said lever, the rear end of said at least one arm being loosely pivoted to the forward end of said lever so that use of the handle in lowering the upper pressing member will effect depression of the arm and actuation of the lever to open the steaming valve.

2,422,918
BURNER GRID

Herbert E. Mills, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application July 5, 1943, Serial No. 493,539
1 Claim. (Cl. 126—214)



A grid embodying an inverted channel-shaped ring having apertures through the top portion, and a grid element embodying arms having portions disposed in said apertures and spiraling from the ring inwardly to the center of the grid, the top surface of said grid being spaced a predetermined distance above said ring.

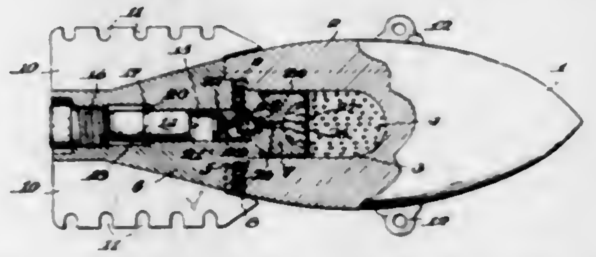
2,422,919
MANUFACTURE OF CHLORINATED POLYTHENES

James Robertson Myles and Philip James Garner, Northwich, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application November 18, 1942, Serial No. 466,058. In Great Britain November 26, 1941
3 Claims. (Cl. 204—163)

1. A process for the manufacture of chloropolythene which comprises dissolving polythene in boiling carbon tetrachloride, cooling the resulting solution with rapid stirring to a temperature of about 25° C., displacing the air in the said mixture with an inert gas during the said boiling and cooling whereby a suspension of polythene is produced, replacing the said inert gas by chlorine containing about 0.1% of oxygen, illuminating the resulting mixture with artificial illumination rich in green and yellow light of 4785 Å. and below but not rich in ultraviolet radiation, removing at least a part of the heat of the resultant reaction, continuing the introduction of the said chlorine until a chloropolythene containing about 50% by weight of chlorine is obtained, and thereafter separating the said chloropolythene from the resulting reaction mixture.

2,422,920
ARMOR-PIERCING DROP BOMB

Harry J. Nichols, New York, N. Y.
Application August 18, 1942, Serial No. 455,227
9 Claims. (Cl. 102—2)

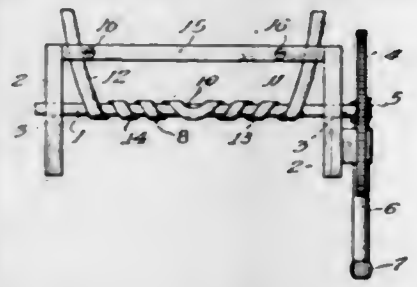


7. An explosive armor-piercing drop bomb comprising, in combination, a massive monoblock head and chambered body, a high explosive ejection charge contained within said chambered body, a rearwardly tapered tail portion having piston means mounted in and slidable rearwardly in said chambered body, a detonating device carried by said tail portion for detonating said ejection charge with precise timing after impact of the head of the bomb with a resistant target, means including said piston for utilizing the reactive force of the detonation of said ejection charge to augment the forward momentum of said head and body; said head, body, and tail portion combined being of streamlined form and having fins attached to the tail portion of the bomb for aiding in true flight.

2,422,921
ADJUSTABLE CAPILLARY LEAK

Alfred O. C. Nier, New York, N. Y., Edward P. Ney, Charlottesville, Va., and Mark G. Inghram, New York, N. Y., assignors to the United States of America, as represented by the Director of the Office of Scientific Research and Development
Application July 6, 1944, Serial No. 543,699
11 Claims. (Cl. 251—5)

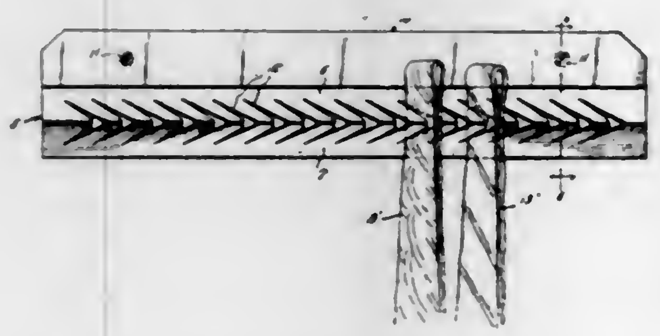
1. In a device for regulating the flow of small amounts of fluid, the combination comprising a rotatable shaft, and a flexible tubing coiled about said shaft, said tubing having a portion connected with the shaft for rotation therewith,



whereby the radius of curvature of the coil and passage size of the coiled tubing may be varied by rotation of the shaft.

2,422,922
NECKTIE RACK

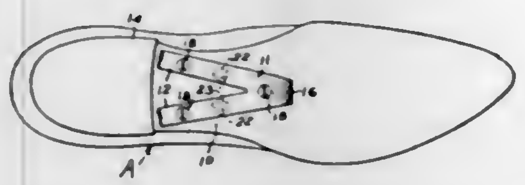
Harry M. Nudelman and Louis Nudelman, Chicago, Ill.
Application March 26, 1945, Serial No. 584,886
4 Claims. (Cl. 211—124)



2. A necktie rack comprising a horizontal elongated tubular body of triangular cross section and composed of rearwardly diverging integral top and bottom walls and a vertical back wall, said body having a longitudinal series of uniformly spaced tie-receiving slots in the front portion thereof, said slots opening through the body at the juncture of the top and bottom walls and extending rearwardly in said top and bottom walls at an oblique angle to the longitudinal axis of the body, and end walls closing the ends of the body and comprising folded flaps integral with the ends of the top wall.

2,422,923
ARCH SUPPORT

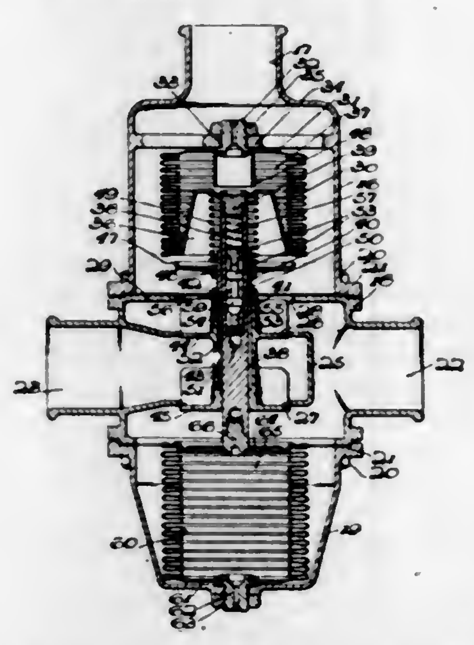
Joseph Pell, Detroit, Mich.
Application May 7, 1946, Serial No. 667,794
3 Claims. (Cl. 36—76)



1. An arch support for footwear, comprising a rigid substantially V-shaped tread member, a springy substantially V-shaped piece, both located within the shank area, means for loosely anchoring the tread member in the shank area, and also matching the said piece with the latter and against the shank area, and compression springs between the tread member and piece.

2,422,924
TEMPERATURE REGULATOR

Louis M. Puster, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware
Original application October 21, 1942, Serial No. 462,845. Divided and this application August 7, 1944, Serial No. 548,464
6 Claims. (Cl. 236—34)



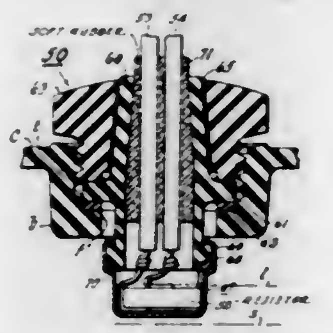
1. In a temperature regulator for the cooling system of an internal combustion engine of the type employing a radiator and a by-pass around said radiator and a thermostatically operated regulator for predetermining the flow of cooling medium through either or both of said radiator and said by-pass including a thermostat subjected to the temperature of the cooling medium, a valve stem attached to said thermostat, a sleeve surrounding said stem and slidably mounted thereon, main and by-pass valve means mounted on said sleeve and forming with said sleeve a unit adapted to be slid lengthwise of said stem, resilient means cooperating with said unit and urging the same in a direction to close the by-pass valve, a detent interposed between said stem and sleeve for normally locking said sleeve against slidable movement on said stem, and means responsive to a dangerous rise in the temperature of the cooling medium for normally holding said detent in sleeve-locking position but operable upon the occurrence of the dangerous temperature to release said detent and permit said resilient means to move said sleeve and associated valve means to a position closing said by-pass and opening wide said main valve.

2,422,925
RESISTANCE UNIT FOR BATTERY FILLER PLUGS

William J. Rady and Lyman A. Rice, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 23, 1945, Serial No. 606,667
3 Claims. (Cl. 136—181)

1. A resistance unit for use in a battery charging system having a voltage regulator sensitive to battery temperature comprising, a battery cell cover having an internally threaded filler opening and having an internal annular flange; a tubular body of acid resisting material adapted to be mounted in the filler opening, said body having means extending from its tubular part and adapted to be supported by the flange of the cover and providing for the venting of the battery, said body extending below the cover; a thin wall

cell member of acid resisting material attached to the body at the end within the battery and extending below the normal level of the battery electrolyte; means for closing the upper end of the body and including two lead wires; a resistance element located in the cell member and connected with the lead wires; and a bushing threadedly engaging the internally threaded filler opening for retaining the body upon the cover flange, said bushing being spaced from the body to permit venting the battery.



2,422,926

ALKYL-SUBSTITUTED AROMATIC SULFONATES

Howard F. Reeves, Jr., Wyandotte, Mich., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan
No Drawing. Application April 1, 1944, Serial No. 529,135
5 Claims. (Cl. 260—505)

1. The process of making higher alkyl aromatic hydrocarbon substituted products which comprises chlorinating a mineral hydrocarbon wax having a melting point of not less than 30° C. to a degree of chlorination corresponding to 190 to 390 mol per cent chlorination, condensing the resultant chlorinated wax with an aromatic hydrocarbon, and then sulfonating the resultant condensation product.

2,422,927

MANUFACTURE OF ARTIFICIALLY COLORED GRANULES

Frank P. Reynolds, East Walpole, Mass., assignor to Bird & Son, inc., East Walpole, Mass., a corporation of Massachusetts
No Drawing. Application January 27, 1945, Serial No. 574,967
7 Claims. (Cl. 117—100)

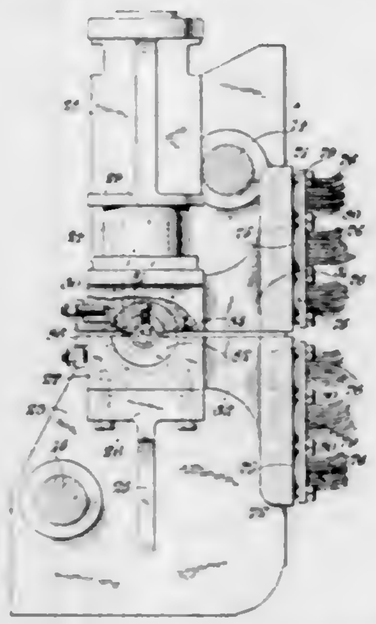
1. The method of coating roofing granules which includes mixing particles of a refractory granule base with substantially dry hydrous plastic clay and substantially dry powdered silicate of soda, adding to the mixture a small amount of water, and heating said granules to a temperature sufficiently high to react the hydrous plastic clay and silicate of soda in situ inter se thereby producing on said particles an insoluble exterior weather-resistant coating.

2,422,928

ELECTRICAL FORGING MACHINE

Carlo Rogati, London, England, assignor to Omes Limited, London, England, a British company
Application July 12, 1945, Serial No. 604,684
In Great Britain April 20, 1944
5 Claims. (Cl. 219—3)

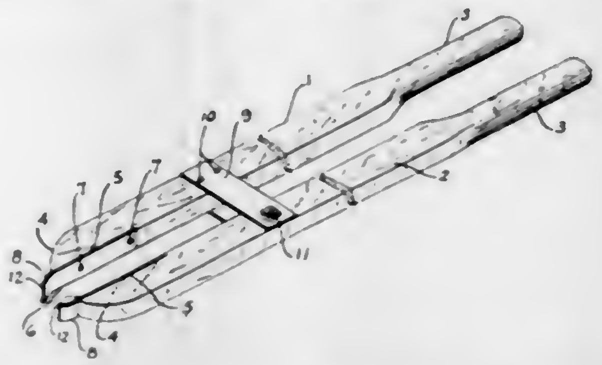
1. In an electrical forging machine the combination of a frame comprising guides, a vice electrode supported on the guides comprising two work-gripping vice-jaws, one movable toward and from the other and means to operate said movable vice-jaw, the vice-jaws when closed being separated along a plane of division, a second electrode supported by the frame and insulated from the first electrode, said second electrode being located so as to be symmetrically cut by said plane of division, means to move one electrode along the guides relatively to the other, and a transformer comprising a secondary winding located so that it is symmetrically cut by said plane of division, one end being connected as to the part lying on one side of said plane to one vice-jaw and as to the part lying on the other side of said plane to the other vice-jaw and the other end of said winding being connected to the second electrode.



2,422,929

WEED REMOVER

James A. Roller, Dayton, Ohio
Application July 21, 1945, Serial No. 606,386
1 Claim. (Cl. 294—50.8)

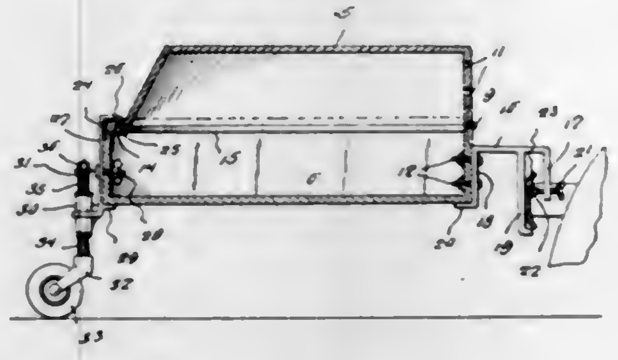


A weed puller comprising a pair of rigid arms of substantially equal lengths and adapted to be grasped by both hands of the operator and provided at the weed pulling end with a pair of jaws which extend beyond said arms and having inwardly curved tips, and a pair of straps positioned respectively on opposite sides of the arms, said straps being rigidly secured to one of the arms and swivelly secured to the other of the arms, one of said jaws being adapted to be inserted into the ground as far as the root of the weed and the other of the jaws being adapted to be swung through a descending arc to meet the other jaw on the opposite side of the root when the upper ends of the arms are spread apart, said jaws being adapted to contact one another at their curved tips and having a constant width as far as said tips, of substantially the same size as the thickness of said arms.

2,422,930

FOLDING TRAILER BOAT

Leonard J. Rutledge, Jackson, Mich.
Application January 8, 1945, Serial No. 571,773
1 Claim. (Cl. 9—2)

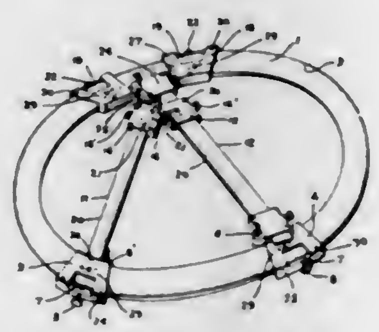


In a trailer boat comprising front and rear sections hinged together, said front section being foldable over the rear section, said rear section having decking and a reinforcing strip constituting an elevated ledge secured to the upper edge of its stern on said decking, said decking having a slot in its middle portion in juxtaposed position relative to said strip, a bracket detachably secured to the stern of the rear section on the outside thereof and including a substantially vertically extending sleeve bearing, a pin rotatably and slidably mounted in said bearing, coil springs mounted on said pin above and below the bearing to yieldably cushion the pin relative to the bearing, a wheel journalled in a trailing caster yoke on the lower end of said pin, means to retain the upper spring on the pin, said bracket having a portion constituting an upright bar, said bar having a hook on its upper end hooking over the elevated ledge and engaging in the slot of the decking, said bar having on its lower portion a flange engaging the bottom of the boat in opposed relation to the hook, in combination with a detachable bolt securing said bar to the stern of the boat.

2,422,931

MEASURING INSTRUMENT

Rudolph H. Sachtleber, East Orange, N. J.
Application October 27, 1944, Serial No. 560,549
4 Claims. (Cl. 33—98)



1. In an instrument for determining angles and sides of triangles, the combination of a ring having a 180° scale extending about the entire circumference of the ring to represent the sum of the angles within a triangle, two angle defining bars extending transversely of the ring and having sliding connections with said ring to coact with said scale, and means pivotally connecting said bars one with the other, said means being slidably connected with each of said bars between the sliding connections between the respective bars and said ring.

2,422,932

IMPROVED SYNTHETIC RUBBERS

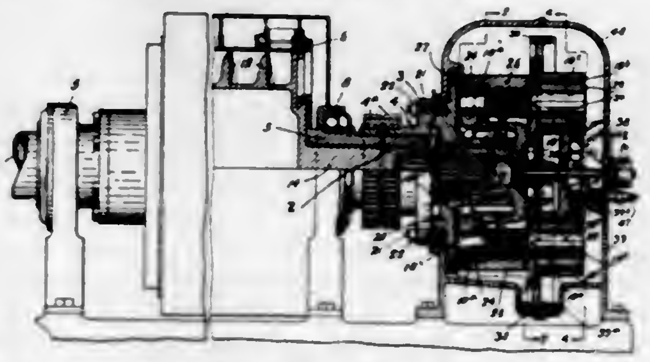
Herman E. Schroeder, Brandywine Hundred, and Charles J. Mighton, Christiana Hundred, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 6, 1944, Serial No. 552,934
2 Claims. (Cl. 260—86.5)

1. The process for obtaining a synthetic rubber of improved milling characteristics, which comprises incorporating sorbic acid with a butadiene-1,3/styrene synthetic rubber wherein the weight ratio of butadiene to styrene is between about 60/40 to about 75/25, said acid being present in an amount within the range of from 1% to 5% of the weight of said synthetic rubber.

2,422,933

GEAR DRIVE

Edward F. Small, Newton, Mass., assignor to Bird Machine Company, South Walpole, Mass., a corporation of Massachusetts
Application August 25, 1944, Serial No. 551,086
10 Claims. (Cl. 74—305)

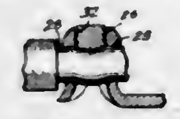


1. A device of the class described, having in combination two concentric shaft elements one outside the other adapted and connected to be driven at different speeds from a single source of power directly applied to the outer one only of said elements, a gear cage wholly supported by and rotatably mounted upon one of said elements but connected to rotate directly the other of said elements, pinion-gear stub shafts carried by said gear cage in parallel relation to but spaced from the common axis of said concentric shaft elements so as to rotate bodily in an orbit, and gearing means connecting said stub shafts and the other of said elements, each of said stub shafts being geared to a central fixed shaft.

2,422,934

SOLDERLESS CONNECTOR FOR ELECTRICAL CONDUCTORS

Henry M. Stieglitz, St. Louis, Mo., assignor to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri
Original application February 19, 1941, Serial No. 379,607. Divided and this application February 26, 1944, Serial No. 524,114
4 Claims. (Cl. 173—269)

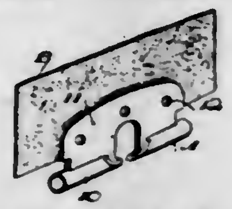


1. A one-piece solderless connector of copper bar stock, said connector having an inverted cup-shaped cylindrical portion open at the bottom, a flat bar portion integral with and extending from the bottom of said cylindrical portion, an opening through the top of said cup-shaped cylindrical portion, the internal diameter of the opening being substantially the same as the internal di-

ameter of the cylindrical portion, a pair of opposed sharp-edged openings through the cylindrical portion of the connector and aligned with the flat bar portion of the connector, threads through the opening and down into the cylindrical portion, and a securing means engaging said threads adapted to depress a conductor inserted through the opposed openings below the bottom edge of said openings.

2,422,935
LUG FOR GUIDE CARDS

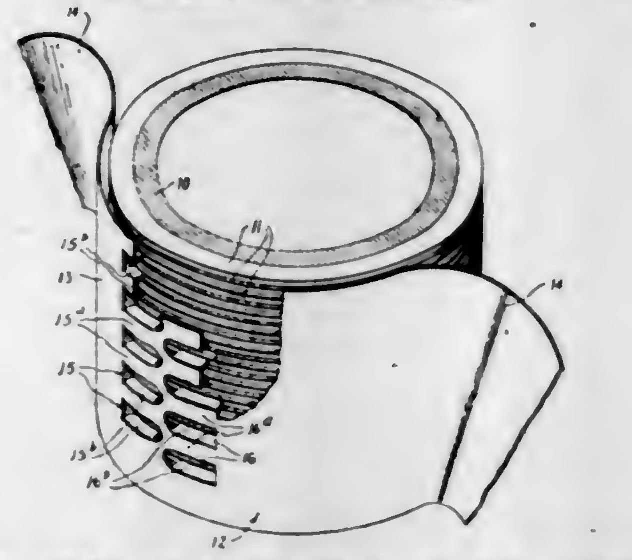
Clarence W. Straubel and John S. Holbrook, Youngstown, Ohio, assignors to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application September 5, 1944, Serial No. 552,776
2 Claims. (Cl. 129—16.7)



1. A lug to be attached to the bottom portion of a guide card or the like, said lug comprising an elongated bottom portion of substantial thickness cross sectionally rounded at its bottom to engage the upper side of a drawer channel, means extending upwardly from said bottom portion for attaching the lug to an index or divider card, said lug having a medial vertically elongated slot to accommodate a drawer-carried anchoring member, said slot extending through the bottom portion of said lug to enable the lug portions to either side thereof to be flexed for the purpose of disposing the member in said slot, the mouth of said slot being of lesser width than said member whereby the lug and the card are held against upward removal therefrom, and the slot-formed inner end portions of the said bottom portion of said lug being flared from the central vertical plane of said bottom portion to adapt the lug to be disposed diagonally in either of two substantially opposite directions relative to the anchoring member to facilitate its application to and removal from said anchoring member.

2,422,936
APPARATUS FOR COOLING CYLINDERS

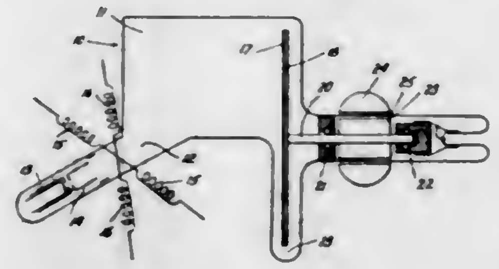
Russell P. Sweger, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application April 21, 1944, Serial No. 532,089
4 Claims. (Cl. 257—261)



4. A baffle for directing a cooling medium around an engine cylinder comprising an arcuate piece of sheet metal having the metal thereof intermediate its edges struck inwardly from the concave side of the piece to form rows of holes staggered relative to each other, the struck-out metal forming generally parallel flanges disposed at opposite edges of the holes and substantially perpendicular to said concave side and extending circumferentially of the baffle whereby the adjacent flanges form an air passage between them.

2,422,937
TUBE FOR COLOR TELEVISION

Constantin S. Szegho, Chicago, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Application December 3, 1943, Serial No. 512,709
11 Claims. (Cl. 250—164)



1. In a cathode ray tube, the method of securing polychromatic reproduction with discrete phosphors exhibiting diverse colors when excited by an electron stream, which includes the steps of subjecting a first phosphor to the electron stream, removing said phosphor from the path of said stream, and placing another phosphor in said path, said discrete phosphors being selected so as to yield respective luminous outputs located in different portions of the visible spectrum.

2,422,938
METHOD OF EXTRACTING L-THYROXINE FROM THYROPROTEIN

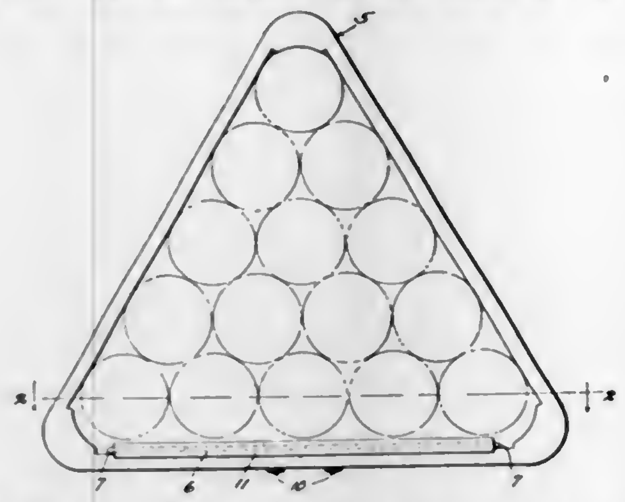
Charles W. Turner and Ezra P. Reineke, Columbia, Mo., assignors to American Dairies Incorporated, Kansas City, Mo., a corporation of Maryland, and The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
No Drawing. Application July 31, 1943, Serial No. 496,952
9 Claims. (Cl. 260—519)

9. A hydrolytic decomposition method of obtaining levorotatory thyroxine from thyroprotein compositions without racemization, comprising the steps of hydrolyzing a thyroprotein by placing it in a mixture of substantially equal volumes of N-butyl alcohol and an aqueous solution of a mineral acid selected from the group consisting of sulfuric acid and hydrochloric acid, and boiling the mixture until it becomes negative to the biuret reaction, and then isolating levo thyroxine therefrom.

2,422,939
FRAME FOR POOL BALLS

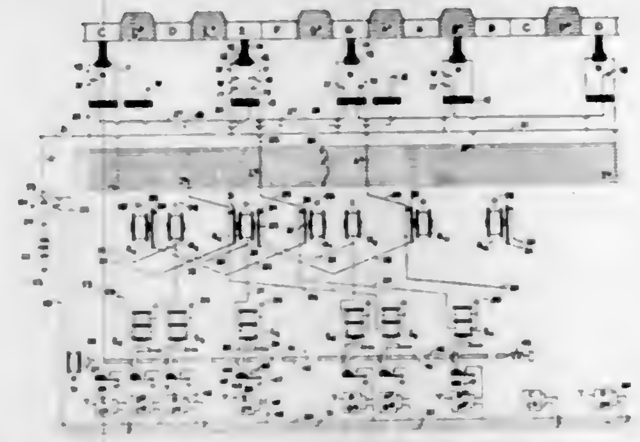
Michael Volpe, Pittsburgh, Pa., assignor of fifty per cent to George I. Feilbach, Pittsburgh, Pa.
Application July 6, 1945, Serial No. 603,455
2 Claims. (Cl. 273—22)

2. In a pool ball rack, a frame, a presser member comprising a yieldable wire member constructed to provide an upper section and downwardly extended ends, portions of the wire member extending inwardly from the ends in parallel spaced relation with the upper section, providing yieldable supporting arms, means for securing the supporting arms to the rack at the inner ends of the supporting arms, and a tubular member mounted for rotary movement on the upper section.



2,422,940
MUSICAL INSTRUMENT

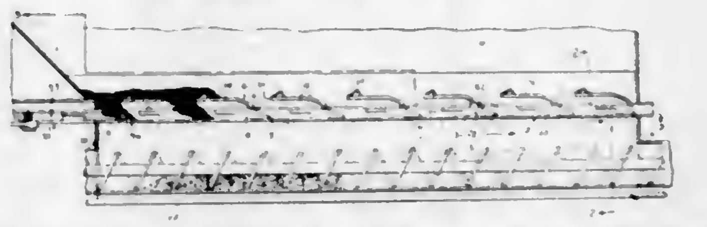
Harold M. Waage, Princeton, N. J.
Application October 9, 1945, Serial No. 621,238
7 Claims. (Cl. 84—1.01)



1. A musical instrument of the type having a keyboard, a tone producing element for each key thereof and an action for effecting the sounding of the tones of said tone producing elements when the keys are actuated respectively, in combination with an electrical switch for each key, each switch having two terminal elements and two pairs of contacts normally spaced therefrom respectively, an electrical circuit connected with a source of current, one of the terminal elements of each switch being connected to one of the wires of said circuit, circuit wires respectively connecting one pair of contacts of each switch with contacts of the switches of keys located four semitones above and three semitones below respectively, circuit wires respectively connecting the other pair of contacts of each switch with contacts of switches of the keys located three semitones above and four semitones below respectively, means carried by the keys respectively for effecting engagement of said contacts with the terminal elements upon depressing of the keys, double armature relays corresponding in number to the number of the keys in an octave of the keyboard with the corresponding notes of the octaves having the same relay, double coil solenoids corresponding in number to the number of keys in an octave of the keyboard with the corresponding notes of the octaves having the same solenoid, circuit wires connecting the opposite terminal element of each switch with a winding of the solenoid of the key separated six semitones therefrom and with one of the armatures of the relay of the key separated two semitones therefrom whereby switches of corresponding keys of each octave are in circuit with the same solenoid and are normally in circuit with the same armature, circuit wires connecting said relays in circuit with the other winding of the solenoids respectively and with the relays normally in circuit with the other armature of the relays of the keys separated three semitones therefrom respectively and with one armature of each relay with the opposite armature of the relay of the keys separated five semitones therefrom, said tone producing elements each being connected with the other wire of the first named electrical circuit and each having means for emitting an enharmonic tone lower in pitch than the normal tones thereof, and normally open electrical switch means connected with said last named means and adapted to be closed by the movements of the armatures of the solenoids when the same and the relays are energized by the actuation of the keys when a chord is played on the keyboard to thereby effect the sounding of the enharmonic tones of lower pitch of at least one of the tone producing elements corresponding to the keys actuated.

2,422,941
FEEDER FROM TENDER OR HOPPER

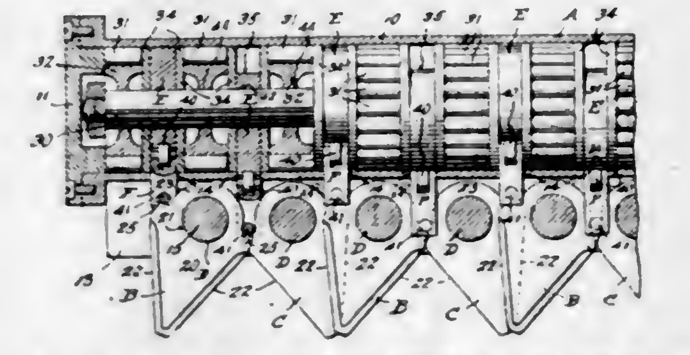
Ernest C. Webb, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application May 20, 1944, Serial No. 536,523
6 Claims. (Cl. 198—15)



1. In a fuel feeder of the class described, the combination of a fuel hopper, a worm trough disposed at the bottom of said hopper, a worm in said trough, a floor plate for said trough above said worm having a plurality of openings formed therein, a horizontal reciprocating feeder frame on said floor plate having spaced transverse feeder bars adapted to move fuel along said floor plate toward said openings, and transverse cover plates disposed over said feeder bars, said cover plates having their rearmost portions spaced from said feeder bars and from said floor plate, the rearmost edge of each cover plate being spaced from the foremost edge of the next rearward cover plate.

2,422,942
CUTTER BAR

Chester F. Wood, Stony Brook, N. Y.
Application August 15, 1944, Serial No. 549,519
2 Claims. (Cl. 56—297)



1. In a cutter bar of the type including a plurality of upper and lower cutter blades having outwardly converging shearing edges at the op-

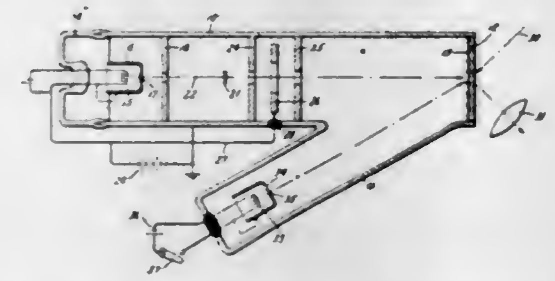
posite sides thereof and being pivotally mounted for swinging movement with the upper blades alternating with the lower blades and adapted to move across the shearing edges of the lower blades and said blades having lateral edge portions formed with angulated shoulders arranged in overlapping relation, a driven rotary shaft, longitudinally spaced cam disks mounted on said shaft and having eccentric peripheries with the highest portions of the peripheries of adjacent disks being diametrically disposed, reciprocatory thrust elements mounted for guided sliding movement and having furcations straddling the overlapped lateral edge portions of adjacent blades, said thrust elements being arranged in engagement with said cam disks respectively and having abutments located between the furcations disposed in engagement with the shoulders of said overlapped lateral edge portions of adjacent blades for imparting relative swinging movement of the upper blades with reference to the lower blades upon turning of said shaft.

2,422,943
ELECTRON MICROSCOPE

Charles H. Bachman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application February 1, 1944, Serial No. 520,609

2 Claims. (Cl. 250—49.5)



1. An electron microscope comprising means for producing a directed beam of electrons, means for suporting an object desired to be examined in the path of said beam, an electron lens positioned to act upon said beam after it leaves said object, a viewing screen constituted by a thin layer of alkali-halide crystals and characterized by the fact that said crystals are changed in color by said electrons and retain said change in color for a substantial period of time, and means comprising an auxiliary source of radiation for erasing said color change from said screen.

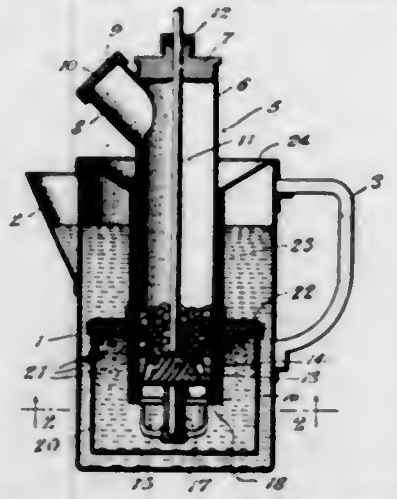
2,422,944
APPARATUS FOR MAKING COFFEE INFUSIONS

Boris Bogoslowsky, Jackson Heights, N. Y.

Application April 19, 1945, Serial No. 589,225

2 Claims. (Cl. 99—286)

1. Apparatus for making an infusion of coffee, comprising, a water container, a grinder unit projecting below the normal water level in said container, said grinder unit having a coffee bean compartment sealed with air tight closure, grinding means in said compartment, said compartment having a discharge opening below said grinding means, said grinding means being below the normal water level in said container but protected from contact with the water by the pressure existing in said sealed compartment, said discharge opening providing a passage through which ground coffee and carbon dioxide gas released during grinding may be discharged directly and continuously into the water below the surface thereof, and a bladed member mounted to rotate with said grinding means, said member being located between said grinding means and said discharge opening and also protected from contact with the water by the pressure existing in said compartment.

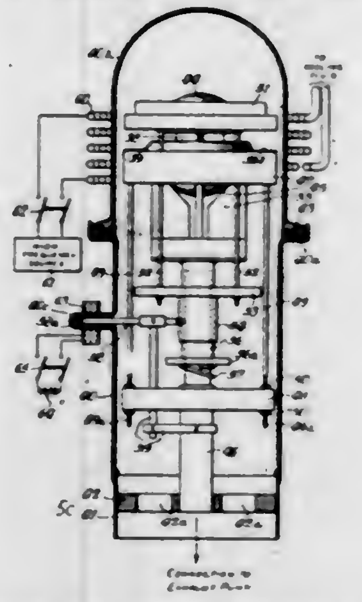


2,422,945
APPARATUS FOR MANUFACTURING ELECTRON DISCHARGE DEVICES

William S. Brian, Owensboro, Ky., assignor, by mesne assignments, to General Electric Company, a corporation of New York

Application November 23, 1944, Serial No. 564,768

5 Claims. (Cl. 316—19)



1. Apparatus for manufacturing electron discharge devices of the type including a unitary electrode assembly, a sealing stem and at least one enclosing shell comprising, an exhaustible container, means within said container for supporting said electrode assembly and stem in fixed relation, means within said container for supporting said shell in spaced relation to said stem, means for subjecting said assembly, said stem and said shell to exhausting and heating media, and means external to said container for initiating movement of said second supporting means to bring said shell into sealing engagement with said stem while subject to said exhausting and heating media.

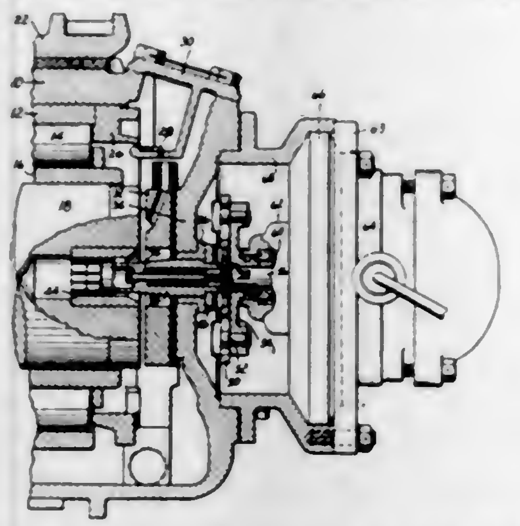
2,422,946
RAILWAY JOURNAL BOX

Richard J. Brittain, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 25, 1942, Serial No. 459,730

12 Claims. (Cl. 64—1)

1. In a device of the character indicated, an axle housing having a transverse end wall to resist axle thrust, an axle journalled for rotation in the housing with provision for axial movement, a casing supported beyond the end wall and supporting a driven shaft in alignment with the axle, a driving member journalled for rotation in and supported by the end wall, the driving member extending into the center of the axle and having a splined connection therewith, the portion of the driving member at the axle side of the supporting end wall being no larger than the journalled portion for endwise removal through the end wall, and a coupling between the other end of the driving member and the driven shaft.

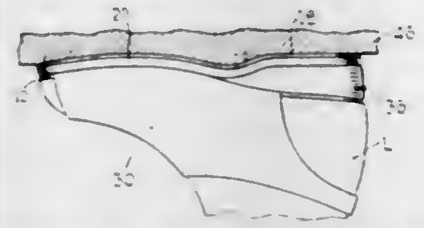


2,422,947
SHOE

Dominick J. Calderazzo, South Orange, N. J.

Application July 31, 1944, Serial No. 547,386

3 Claims. (Cl. 12—142)



1. A process of fabricating a platform shoe comprising temporarily attaching an insole to a last, placing an upper on said last, overlying the edges of said upper over edge portions of said insole and adhesively securing the same thereto, adhesively securing the upper surface of a heel wedge having heel and shank portions to the heel and shank portions of said upper and insole, arranging a midsole having heel, shank and foreportions directly upon an outsole having heel, shank and foreportions and sewing said midsole and outsole together around their entire peripheries with through-and-through stitching, adhesively securing the foreportions of said midsole to the foreportion of said upper and insole, adhesively securing the heel and shank portions of said midsole to the heel and shank portions of said heel wedge, levelling said shoe, and stripping the same from the last.

2,422,948
FERROUS ALLOY

Arthur T. Cape, Columbus, and Charles V. Foerster, Canton, Ohio, assignors to Coast Metals, Inc., Canton, Ohio

No Drawing. Application February 9, 1945, Serial No. 577,145

1 Claim. (Cl. 75—128)

A ferrous alloy containing from about 3% to about 5% carbon, from about 2% to about 10% nickel, from about 8% to about 22% chromium, from about 6% to about 12% molybdenum, and from about 2.25% to about 5.5% silicon, in accordance with the following schedule:

Nickel	Silicon
Percent	*Percent*
2–4	2.25–5.5
4–7	3.50–5.5
7–10	4.00–5.5

the remainder of the alloy being substantially all iron, and the silicon being present in an amount which renders the metal in the "as-cast" state no longer austenitic but ferritic.

2,422,949
FERROUS ALLOY

Arthur T. Cape, Columbus, and Charles V. Foerster, Canton, Ohio, assignors to Coast Metals, Inc., Canton, Ohio

No Drawing. Application February 9, 1945, Serial No. 577,146

2 Claims. (Cl. 75—128)

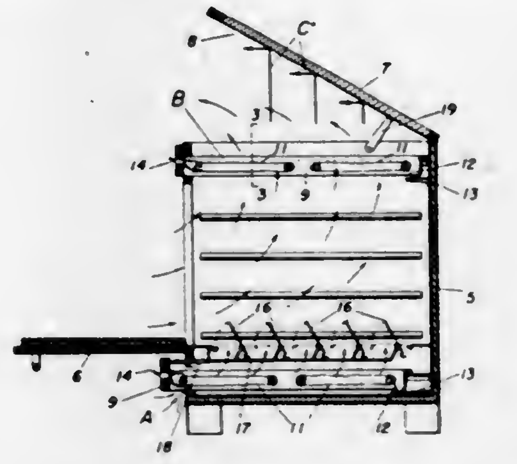
1. A ferrous alloy containing from about 3.75% to about 4.6% carbon, from about 8% to about 28% chromium, from about 6% to about 12% molybdenum, from about 1% to about 3% silicon, and nickel in appreciable amounts up to about 1.75%, the balance of the alloy being substantially all iron.

2,422,950
ELECTRICAL STOVE ARRANGEMENT

James Cash, San Francisco, Calif.

Application October 16, 1945, Serial No. 622,492

1 Claim. (Cl. 219—35)

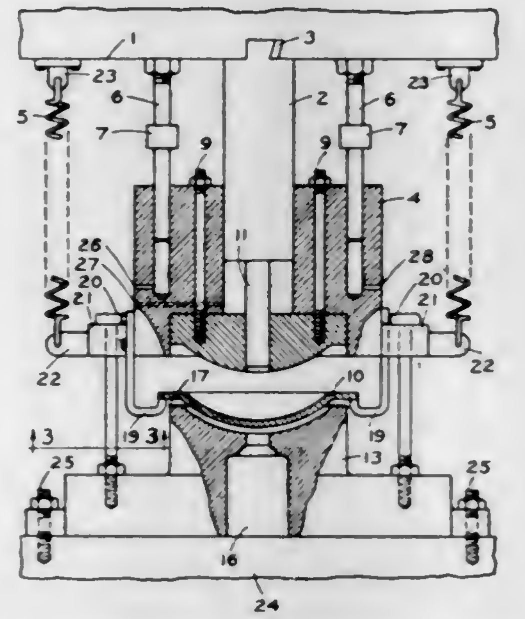


In a stove, a housing having a hinged cover, the lower surface of which is polished to form a reflecting surface, a pair of removable, superimposed heating elements and frames therefor positioned in said housing and capable of directing heat against said cover when said cover is in closed position, whereby said heat will be transmitted through said cover, by conduction, and to reflect infra-red rays from the under side of said cover when said cover is raised out of alignment with the top of said housing, and a plurality of pivoted dampers connected to the lower of said heating elements, whereby when said frame is moved outwardly from said housing, said dampers will be swung to open position to permit air circulation therethrough.

2,422,951
COLD STERILIZING SOLUTIONS
Goldsmith Hall Conant, Jr., Albany, N. Y.
No Drawing. Application April 11, 1942,
Serial No. 438,643
1 Claim. (Cl. 167—19)

A cold sterilizing solution including the reaction product of the mixing of a phenyl mercury compound selected from the group consisting of the nitrate and the borate, a much larger amount of an ethanol amine, and an acid selected from said group in an amount insufficient to neutralize said amine, and water holding the reaction product and amine in solution.

2,422,952
SHAPING, PUNCHING, AND TRIMMING DIE MECHANISM
Guy L. Dakin, Dansville, Mich.
Application September 20, 1944, Serial No. 554,987
2 Claims. (Cl. 29—34)

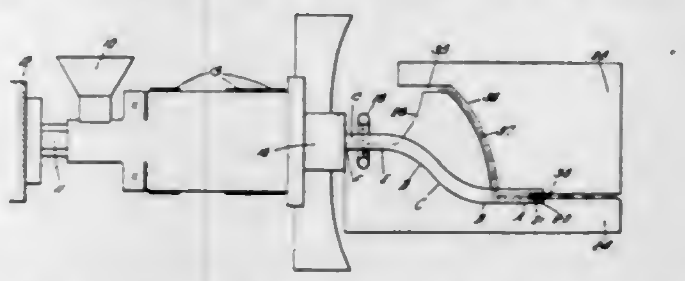


1. In a metal punching and trimming die apparatus, a ram, a plunger attached to the ram, the plunger having a punch projecting from the end thereof, a die carrier movably fitting the plunger, said carrier having an upper die secured thereto, said upper die having a passage for the said punch, side springs connecting the said ram and the said carrier, rods projecting from the said ram and engaging the said carrier, said rods having thereon collar blocks arranged to bear upon the said carrier, a lower die having an opening for the passage of the said punch, guide rods projecting upwardly from the base of said lower die and constructed and arranged to guide the said carrier, and the said lower die having a chamber arranged to receive parts of the flashing of the work piece punched out by said punch.

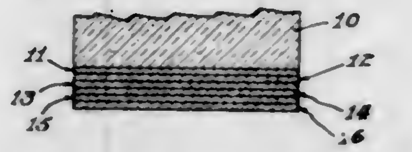
2,422,953
PROCESS AND APPARATUS FOR EXTRUDING
Drury Norman Davies and Frederick Henry Churchman, Feltham, England, assignors to Cellomold Limited, Feltham, Middlesex, England, a British company
Application November 23, 1943, Serial No. 511,442
In Great Britain December 14, 1942
12 Claims. (Cl. 18—12)

1. A process for extruding from an extrusion aperture a material especially a thermosetting resinous composition which remains only transiently deformable after extrusion, consisting in extruding such material under such conditions that it is deformable on issuing from the said aperture but rapidly becomes rigid, and guiding a rigid part of the extrusion in an accurately predetermined path in such a manner that said part acts through the progressively increasing length of rigid extrusion as a lever which shapes the still deformable material progressively at or near to the extrusion aperture, while maintaining the still deformable extruded material out of contact with surfaces capable of deforming it.

7. Apparatus for extruding from an extrusion aperture a material especially a thermosetting resinous composition which remains only transiently deformable after extrusion, comprising an extrusion machine having an extrusion opening, a device adapted to be attached to the rigid end of the extruding material, means to guide said device in an accurately predetermined curved path to support the still deformable material between said rigid end attached to said device and the extrusion opening of said machine away from any shaping surfaces, said path determining the forming of the material to a required shape progressively only at or near said extrusion opening and only in the direction of bend present in the finished extrusion, and said guide means comprising one or more edge cams.



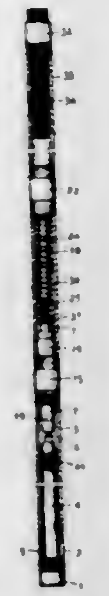
2,422,954
SELECTIVE REFLECTOR
Glenn L. Dimmick, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1942, Serial No. 464,018
6 Claims. (Cl. 88—105)



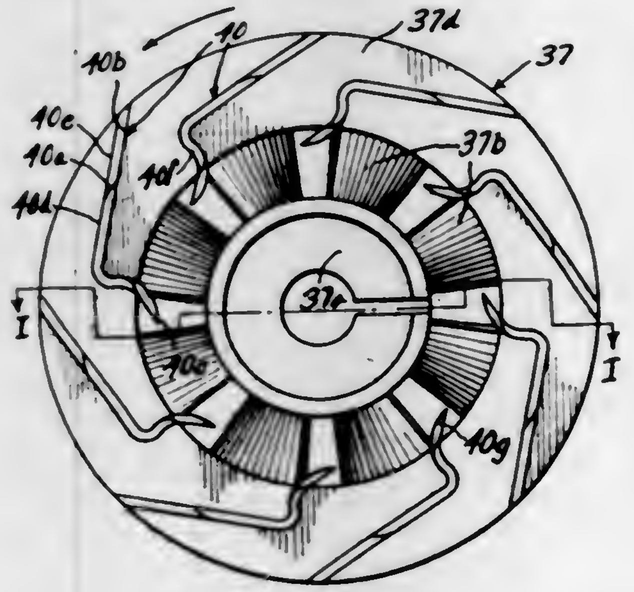
1. A selective reflector comprising a transparent glass supporting body and alternate transparent layers, in the order named, of a compound comprising thorium and fluorine, produced by heating $ThF_4 \cdot H_2O$ in an inert atmosphere at a red heat, and zinc sulphide, said layers each having the optical thickness of one quarter wavelength of light of a given color.

2,422,955
CORE RECOVERING DEVICE
Charles Francis Duffield, Adelaide, South Australia, Australia
Application July 18, 1944, Serial No. 545,518
In Australia August 16, 1943
6 Claims. (Cl. 255—72)

1. For use in diamond and rotary drilling, a core recovering device comprising a bit, a hollow member extending upwardly from said bit, a core tube within the said hollow member coaxial with the hollow member and slidable therein, a guide extending upwardly from the said hollow member, a hollow valve member slidable in the guide, said valve member having a central aperture opening outwardly of the valve member at its upper and lower ends, a pivot on the core tube engaging the valve member, a valve housing extending upwardly from said guide, a closure member stationarily secured to the valve housing in the path of said valve member and arranged to close the upper end of the central aperture in the said valve member when the core tube has been moved upwardly a certain distance by the core building up in the core recovering device while the device is being rotated to take a core, a spring between the valve member and the valve housing, urging the valve member downward, a conical face in the bit adjacent the lower end of the core tube, a core grip positioned on said conical face and surrounding said core tube, and stop means on the hollow member above the core grip in the path of the core grip operable, when the core being cut has risen to a predetermined height within the core recovering device and has raised the core tube above the core grip, to release the core grip from the core tube for core gripping action.



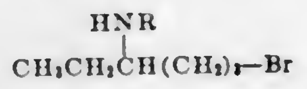
2,422,956
VAPOR SEPARATING PUMP AND IMPELLER
Miles Lowell Edwards, Longview, Wash.
Application July 14, 1945, Serial No. 605,107
11 Claims. (Cl. 103—113)



1. A pump comprising a casing having an open-ended fluid flow passage with a communicating pumping chamber therearound, an impeller in said passageway having an axial flow passageway therethrough and a ring of spaced pumping vanes defining channels therebetween discharging into the pumping chamber, said vanes having offset radially extending inner end portions projecting into said passageway and defining therebetween a plurality of elongated relatively large separating chambers, and forwardly extending legs on said end portions arranged to scoop material in the passageway into said separating chambers.

2,422,957
1-BROMO-4-(N-ALKYLAMINO)-HEXANES AND PROCESS OF MAKING THEM
Robert C. Elderfield, Hastings on Hudson, and James D. Head, New York, N. Y., assignors to the United States of America, as represented by the Director of the Office of Scientific Research and Development
No Drawing. Application April 8, 1946,
Serial No. 660,415
3 Claims. (Cl. 260—583)

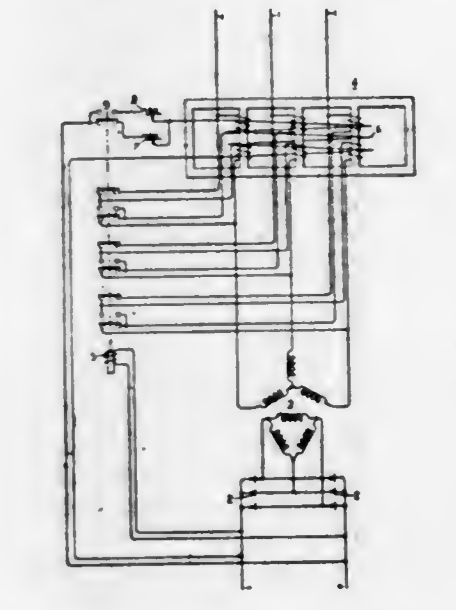
1. 1-bromo-4-(N-alkylamino)-hexanes represented by the formula



$$CH_3CH_2\overset{\overset{\text{HNR}}{|}}{C}H(CH_2)_3{-}Br$$

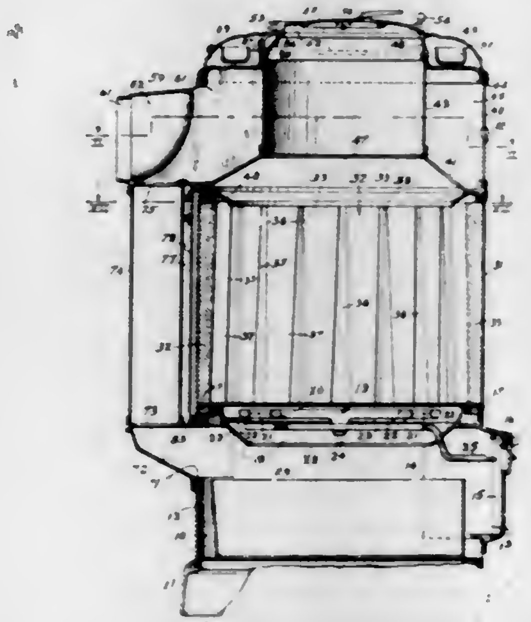
wherein R represents a lower alkyl hydrocarbon radical having from 1 to 6 carbon atoms; and salts thereof.

2,422,958
SATURABLE REACTOR SYSTEM
Alvin L. Embry, Revere, Mass., assignor to General Electric Company, a corporation of New York
Application January 29, 1945, Serial No. 575,119
4 Claims. (Cl. 171—242)



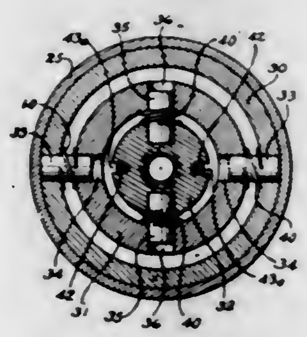
1. A variable reactor comprising, in combination, a magnetic core, an alternating-current circuit including a plurality of windings on said core, a direct-current circuit including a winding on said core in non-inductive relation to said alternating-current circuit, and circuit controlling means for varying the current in said direct-current circuit independently of the current in said alternating current circuit, additional circuit controlling means for varying the electrical connections between the windings in said alternating-current circuit and interconnecting means for coordinating the operation of both of said circuit controlling means.

2,422,959
DOWNDRAFT MAGAZINE HEATER
Harry H. Fleer, Quincy, Ill., assignor to Gem City Pattern Co., Quincy, Ill., a corporation of Illinois
Application August 23, 1943, Serial No. 499,600
4 Claims. (Cl. 126—74)



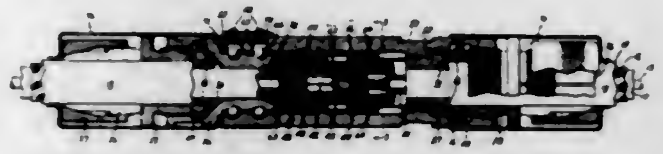
1. In a magazine heater of the type adapted to burn solid fuel, a body member enclosing a combustion chamber, means for supplying updraft air to the bottom of the combustion chamber, means for supplying downdraft air to the top of the combustion chamber, an annular flue around the means for supplying downdraft air, an upstanding flue conduit extending alongside of the body member connecting the bottom of the combustion chamber with the annular flue, a smoke outlet on said body member communicating with said annular flue, a baffle in said annular flue between the upstanding flue conduit and the smoke outlet arranged to direct gases from the upstanding flue conduit completely around the annular flue before reaching the smoke outlet, and a damper controlled passage between the top of the combustion chamber and the annular flue whereby said heater can be operated on an updraft or a downdraft principle with the downdraft air being preheated before it reaches the combustion chamber.

2,422,960
ELIMINATION OF VIBRATION ERRORS IN MAGNETIC COMPASSES AND THE LIKE
Gabriel M. Giannini, West Los Angeles, Calif., assignor to Autoflight Corporation, Burbank, Calif., a corporation of Delaware
Application September 26, 1944, Serial No. 555,829
2 Claims. (Cl. 248—358)



1. In instruments of the type of a magnetic compass and which embody a frame, a normally vertical shaft mounted in bearings fixed in the frame to rotate about a normally vertical axis, and a magnet unit surrounding the shaft axis; mounting means for the magnet unit on the shaft, said mounting means including a gimbal joint of three normally concentric and annularly spaced elements, means mounting the inner one of said elements on the shaft for rotation therewith and vertical freedom with reference thereto, resilient means constraining said vertical freedom, pivotal connections joining the intermediate element to the inner and outer elements, respectively, on axes mutually at right angles, said pivotal connections allowing translational movements of the respectively connected elements along the pivotal axes, and resilient means associated with the said elements and pivotal connections constraining their relative translational movements.

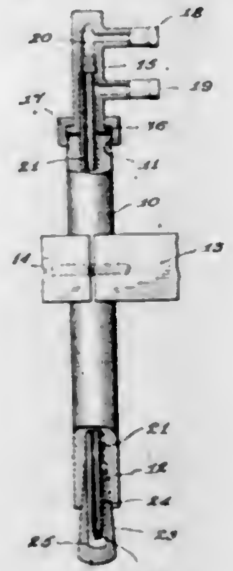
2,422,961
ROTATING JOINT FOR CONCENTRIC CABLES
Eric A. Hallstrand, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application March 24, 1943, Serial No. 480,266
8 Claims. (Cl. 173—324)



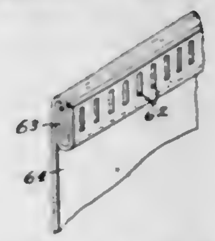
1. In a rotating coupling for adjacent sections of a transmission line having inner and outer conductors coaxially disposed, the combination of, rotatable means connecting the inner conductors of said sections, tubular housing members conductively connected to the outer conductors of said sections and having their adjacent ends spaced apart by a substantial distance, a sleeve member surrounding said adjacent ends and conductively connecting said housing members, said sleeve member having one of its ends frictionally contacting the outer surface of one of said housing members and having a plurality of contact members at its opposite end rotatably to engage the outer surface of the other of said housing members, and means enclosing said housing members and said sleeve member comprising rotatable means journalled on one of said housing members.

2,422,962
WELDING ELECTRODE COOLING
Franz R. Hensel and Earl I. Larsen, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application March 11, 1944, Serial No. 526,074
8 Claims. (Cl. 219—4)

1. In a cooling system for a pressure exerting welding electrode, the combination which comprises a hollow tubular electrode holder adapted to be clamped to the arm of a welding machine, an electrode held in one end of said holder and having an inner recess therein in communication with the space within said holder, an inlet tube for cooling fluid extending through said tubular holder into the recess of said electrode, and conduit means for introducing cooling fluid into said recess through said inlet tube and for discharging such fluid therefrom through said tubular holder, the terminal regions of the walls of said inlet tube internally defining a contracting entrance cone and a constricted throat and externally defining with the surface of said recess an expanding annular channel.

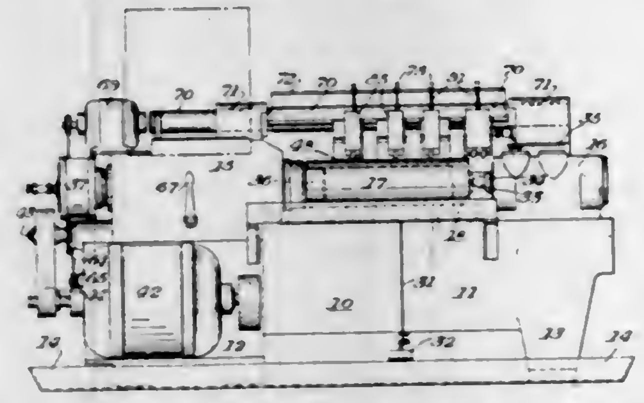


2,422,963
MEANS FOR FORMING PLEATS
Alexander McDonald Hess, Jamaica, N. Y.
Original application July 26, 1939, Serial No. 286,573. Divided and this application July 21, 1943, Serial No. 495,581
7 Claims. (Cl. 160—348)



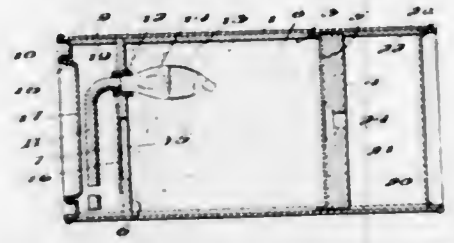
4. A drape pleating tape formed of relatively stiff material and formed as two separable layers lying face to face and joined along one long edge, one layer being formed with a plurality of openings adapted to receive a rod and impregnated with a thermo-plastic substance.

2,422,964
LATHE
Robert L. Hibbard, Bellevue, Pa., assignor of one-half to William K. Stamets, Mars, Pa.; Stewart C. Hibbard, Robert L. Hibbard, Jr., and Hays M. Junkin, executors of said Robert L. Hibbard, deceased
Application February 3, 1943, Serial No. 474,506
9 Claims. (Cl. 82—14)



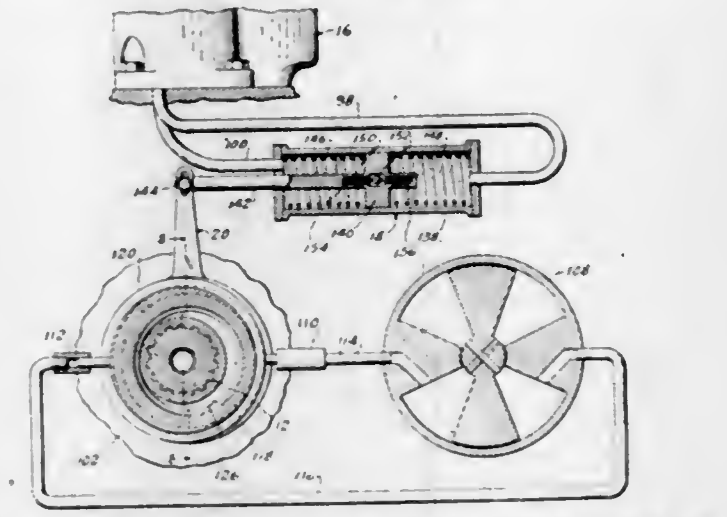
1. A lathe for turning work pieces of circular cross section which comprises a pair of opposed housings, an axially aligned chuck and tail stock rotatably supported in the housings for carrying the work piece therebetween, means for rotating the chuck to revolve the work piece, a carriage having its ends journaled in the housings and arranged to be moved parallel with the axis of the work piece, a plurality of rocker arms pivotally supported on the carriage to move independently in planes normal to the axis of the work piece, cutting tools mounted on the rocker arms, a cam bar having its ends secured against movement in the housings, cams adjustably fastened to the cam bar, a cam engaging roller on each rocker arm, spring means for retaining the cam rollers in engagement with their respective cam surfaces, and means for moving the carriage longitudinally to cause the cam rollers to vary the positions of their respective cutting tools and simultaneously turn the surface of the work piece.

2,422,965
ALUMINOTHERMIC UNIT
Herbert E. Hirschland, Cranford, and Saul Ricklin, Rahway, N. J., assignors to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey
Application March 17, 1944, Serial No. 526,970
7 Claims. (Cl. 263—48)



2. An aluminothermic unit comprising an outer casing forming an enclosed space, a fuse plate and a heat-resistant pouring plate provided with a pouring hole and serving to divide said enclosed space into an upper fuse compartment, a central aluminothermic compartment and a lower pouring compartment, a bottom plate sealing the pouring compartment and a top plate sealing the fuse compartment, at least one fuse passing through said sealing plate, and a mass of ignition powder in contact with the lower end of said fuse and with an aluminothermic powder filling said aluminothermic compartment.

2,422,966
PROPELLER CONTROL
Walter Scott Hoover, Montreal, Quebec, Canada
Application March 14, 1941, Serial No. 383,392
5 Claims. (Cl. 170—163)

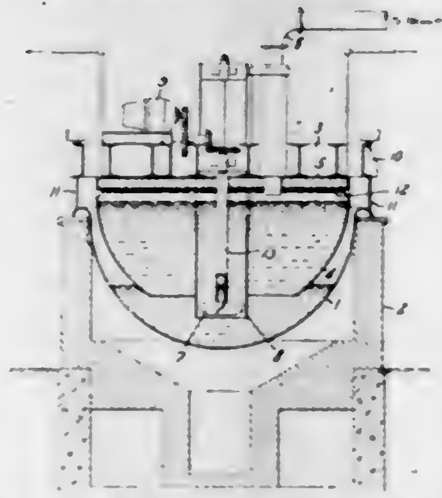


1. Mechanism for operatively connecting a speed-responsive governor mounted on a fixed support with a relatively rotatable controllable-

pitch propeller comprising, a mechanical device for controlling pitch changing movements of said propeller and having one portion mounted on said support and having another portion carried by said propeller, and a servo-motor mounted on said support and actuated by fluid controlled by said governor and operatively connected with said one portion of said mechanical device, said servomotor comprising a cylinder, a piston in said cylinder movable in opposite directions from a neutral position, means resiliently urging said piston toward said neutral position, and a restricted, normally open, fluid passage from one side of said piston to the other and means for closing said passage.

2,422,967
REFINING OF LEAD

William T. Isbell, Herculaneum, Mo., assignor to St. Joseph Lead Company, New York, N. Y., a corporation of New York
Original application May 25, 1944, Serial No. 537,265. Divided and this application November 20, 1944, Serial No. 564,320
5 Claims. (Cl. 266—37)

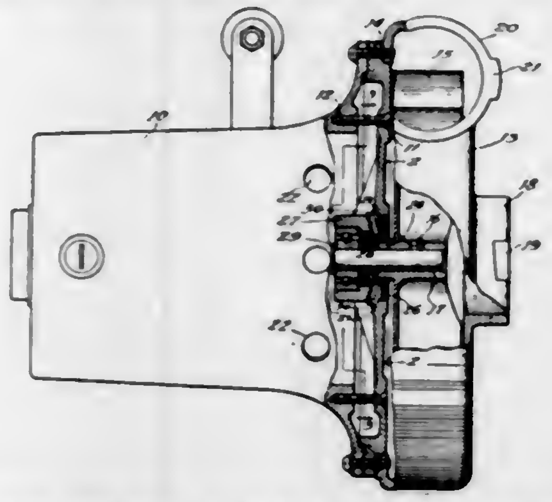


1. Apparatus for the vacuum evaporation of zinc from zinc-bearing lead comprising a container adapted to hold a charge of lead, heating means for maintaining the lead in the container in molten condition, a bell member adapted to fit into said container, constituting a substantially closed chamber except for an opening at the bottom for the access of said molten lead, means for evacuating the interior of the bell member, and means for cooling the upper portion of the bell member.

2,422,968
SUCTION-BLOWER DEVICE

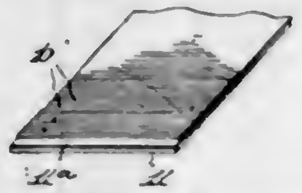
John P. Jason, Chicago, Ill., assignor to Breuer Electric Mfg. Co., Chicago, Ill., a corporation of Illinois
Application December 11, 1943, Serial No. 513,890
1 Claim. (Cl. 230—117)

In a suction blower device of the class described, an electric motor having a casing opened at one end to the atmosphere, a plate-shaped partition secured to the open end of the motor casing and having a central opening formed therein to receive a motor shaft, a fan casing formed with a suction inlet and exhaust outlet and an open end, said fan casing being mounted on said partition and having its open end closed by same, a centrifugal fan disposed within the fan casing and secured to the end of the motor shaft on the opposite side of the partition from the motor, the central opening in said partition being formed with an annular recess defining an air chamber between the motor shaft and the wall defining said central opening, gasket means mounted within said central opening of the partition and disposed at opposite ends of said annular recess defining the air chamber, said partition having an unobstructed air duct passage leading from said annular recess defining the air chamber around the shaft to exhaust within the interior of the motor casing, and an anti-friction bearing mounted in said central opening formed in said partition and adjacent the motor side of said annular recess to provide an auxiliary support for the motor shaft.



2,422,969
DECORATIVE PRODUCTS COMPRISING GLASS FIBERS

Robert I. Johns, Brooklyn, N. Y.
Application October 7, 1944, Serial No. 557,671
7 Claims. (Cl. 154—46)

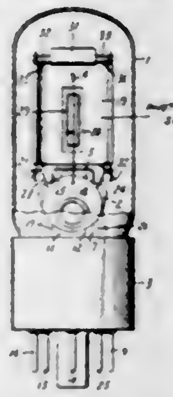


1. A decorative material including a backing, a plurality of members formed from glass and substantially cylindrical in cross-section, the members being thin and flexible but of sufficient rigidity normally to retain a rectilinear form, the backing having applied to one side thereof a solution in a vaporizable solvent of a water resistant plastic substance of the type to produce a transparent body on drying, the members being arranged in the applied substance while said substance is still associated with the solvent so that portions of the members contiguous to the substance are wetted thereby, the members being arranged in side-by-side relationship and in close proximity to each other, and a coating of said substance applied over the members as arranged on the backing, the coating being in sufficient volume to penetrate between the members and consolidate with the substance as originally applied to the backing.

2,422,970
PHOTOELECTRIC DISCHARGE DEVICE

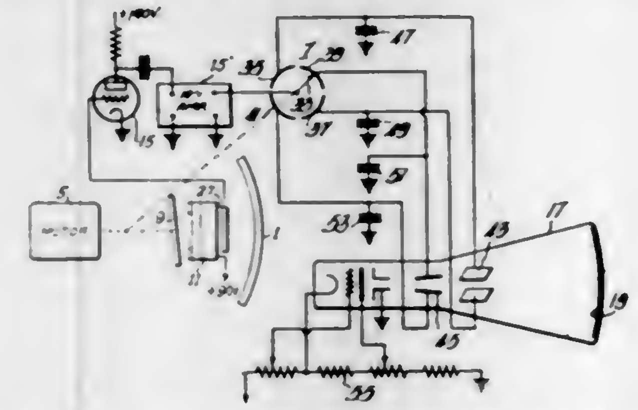
William L. Jones, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 24, 1942, Serial No. 459,563
19 Claims. (Cl. 250—169)

1. An electric discharge device including a plurality of electrodes comprising an anode, a cathode and a control member, and a heat shield structure positioned between said cathode and said control member to intercept heat radiated from said cathode comprising a metal surface the projected area of which is substantially equal to the projected area of said control member and comprising a hollow member extending through said control member providing a region for the establishment of an electric discharge between said cathode and said anode.



2,422,971
HEAT RESPONSIVE INDICATOR

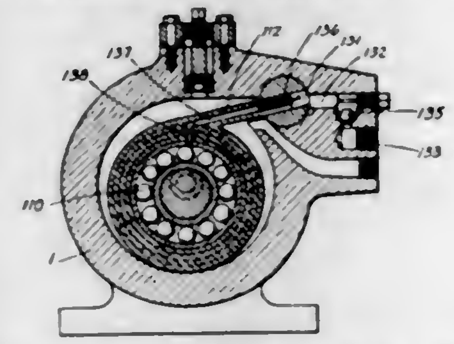
Ray D. Kell and William A. Tolson, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application December 29, 1942, Serial No. 470,520
13 Claims. (Cl. 250—11)



1. A heat responsive device including a heat responsive detector, means for applying to said detector heat waves from an object to be indicated, means for varying the application of said heat waves to said detector for generating electric currents having a phase dependent upon the relation of the effective axial reference line of said detector and the line from said detector through said object, and an indicator responsive to said currents for indicating the relation of said reference line and said line through said object.

2,422,972
WINGED-STRAP ROTARY COMPRESSOR

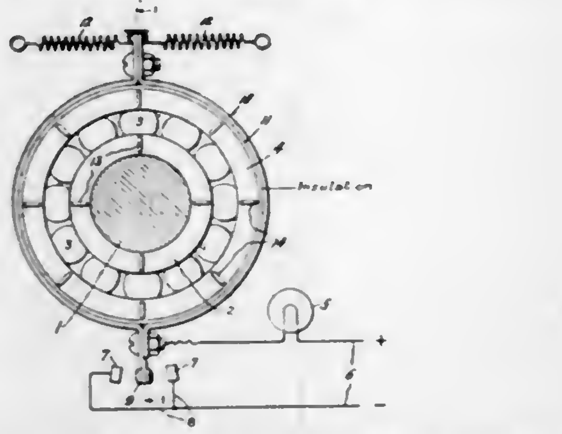
Frank W. Knowles, Seattle, Wash.
Application May 26, 1944, Serial No. 537,475
4 Claims. (Cl. 230—147)



2. An eccentric winged strap rotary pump having a housing, in said housing an eccentric winged strap and an oscillatory member slidably entered by the wing of said strap, said wing having one face tangential to the outer surface of said strap, and an outlet valve in opposed relation to said tangential face.

2,422,973
ROTATION INDICATING SIGNAL SYSTEM AND CONTROL DEVICE

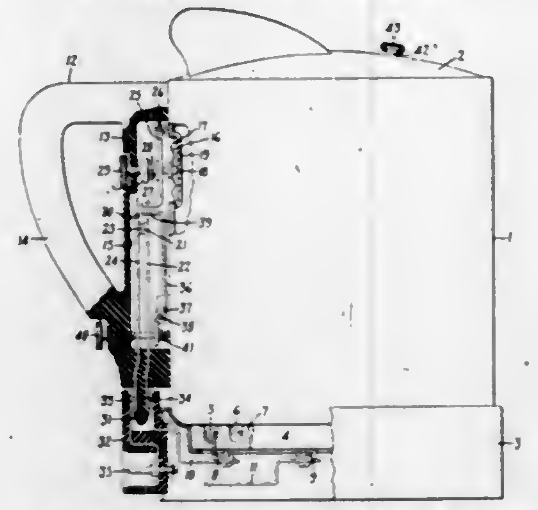
Harold M. Martin, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 17, 1944, Serial No. 563,915
7 Claims. (Cl. 200—153



1. A rotation indicating signal system control device including a rotatable member, a bearing mounted on said rotatable member, electrical contacts biased out of electrical contact with each other on non-rotation of said rotatable member and operable to closed circuit position in response to rotation of said rotatable member in either direction, means for electrically connecting a source of electrical power supply to said contacts, means including vanes on said bearing for transmitting torque on rotation of said rotatable member for operating said electrical contacts to a closed circuit position, and means connecting a signal device in circuit with said contacts for indicating rotation of said rotatable member by closure of said electrical circuit between said contacts.

2,422,974
CONTROL MEANS FOR PRESSURE COOKERS AND THE LIKE

Heber L. Newell, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application October 11, 1945, Serial No. 621,686
5 Claims. (Cl. 219—43)



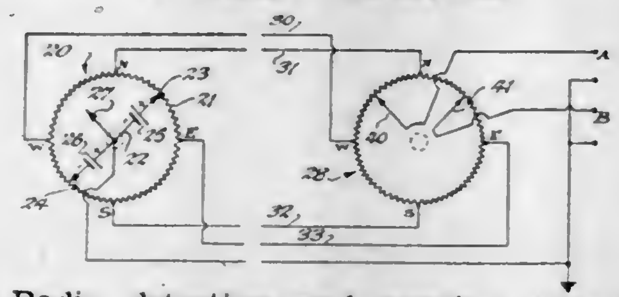
1. In a pressure cooking device, a closed cooking container, a separate base for supporting said container and from which the container is removable, an electric heating unit on said base for applying heat to said container, a control switch

for said heating unit mounted on said container, means also on said container for operating said switch alternately to heater energizing and deenergizing conditions depending upon the fall and rise of the pressure in said container from a predetermined value, and plug and socket connection elements for connecting said control switch in the energizing circuit of said heating unit, one element mounted on and in fixed relation to said container and the other mounted on and in fixed relation to said unit, said plug element being inserted into said socket element through the act of placing said container on said base.

2,422,975

REMOTE CONTROL OF DEFLECTION IN CATHODE-RAY TUBES

Madison G. Nicholson, Jr., Snyder, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y.
Application March 28, 1944, Serial No. 528,395
9 Claims. (Cl. 250—11)

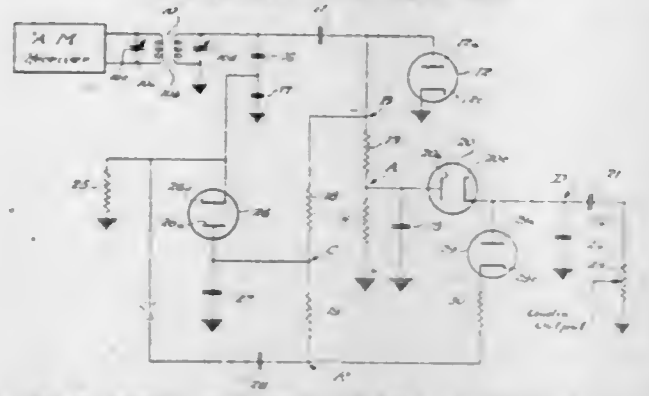


5. Radio detection and ranging apparatus, comprising, in combination, a transmitter including a rotating antenna, a receiver synchronized therewith including a cathode ray tube, a direction indicating transmitting element synchronized with said antenna, having a continuous impedance, rotary means synchronized with said antenna for applying a potential difference at opposite points on said impedance, a second continuous impedance, a plurality of connections between symmetrical points on said impedances, a movable selecting connection to said second impedance, and connections from said selective connection to said cathode ray tube to control the lateral deflection thereof.

2,422,976

NOISE REDUCER FOR AMPLITUDE MODULATION RECEPTION

Madison G. Nicholson, Jr., Snyder, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y.
Application June 29, 1944, Serial No. 542,739
7 Claims. (Cl. 250—20)

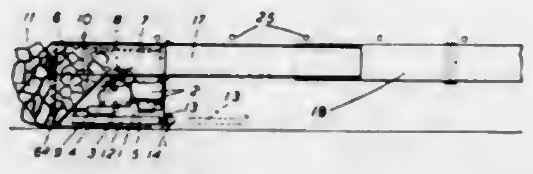


1. In a radio receiver of the amplitude modulation type, in combination, a signal demodulator, a capacity charged thereby, an audio output circuit containing capacity, a connection between said output circuit and said demodulator and a second connection between said output circuit and the first capacity, and means for interrupting both of said connections during the occurrence of noise pulses substantially exceeding the level of one hundred per cent positive modulation peaks.

2,422,977

MECHANICAL LOADER

Tage Georg Nyborg, Worcester, England, assignor of one-half to The Mining Engineering Company Limited, Worcester, England
Application November 23, 1943, Serial No. 511,434
In Great Britain November 23, 1942
3 Claims. (Cl. 262—1)

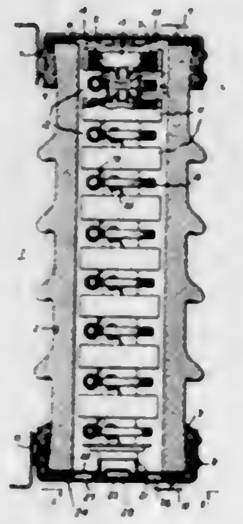


1. A loading machine for longwall mining including a wide mouthed shovel, a motor, mechanism driven by the motor to reciprocate the shovel, a trough adapted to receive material from the shovel and arranged so that it will feed a face conveyor disposed to one side of the machine and of the mouth of the shovel, the said motor and mechanism being arranged in a space representing the distance between a corner of the mouth of the shovel and the adjacent edge of the trough, the shovel extending back at an incline from the said corner to the trough and the said motor and mechanism lying behind the incline.

2,422,978

LIGHTNING ARRESTER

Arthur A. Olsen, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 5, 1945, Serial No. 581,082
5 Claims. (Cl. 175—30)

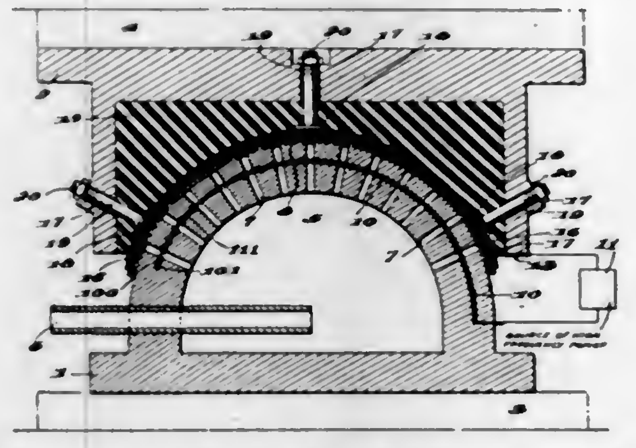


1. In a lightning arrester comprising an insulating casing, a gap structure in said casing, means including a conducting member for sealing one end of said casing, a diaphragm for sealing the other end of said casing, said gap structure being sufficiently displaced from said diaphragm that heat from said gap structure will not adversely affect said diaphragm, closure means including a conducting member for said other end of said casing for protecting said diaphragm, said diaphragm acting as a pressure relief device upon failure of said arrester by being burned through by the arc striking between said conducting members within said casing and which might otherwise cause said casing to shatter with great violence, and means comprising openings in said closure means for permitting gases passing through the hole burned in said diaphragm by the arc upon failure of said arrester to escape to atmosphere.

2,422,979

APPARATUS FOR FABRICATING PARTS BY BONDING STRIPS OF MATERIAL

Joseph S. Pecker, Philadelphia, Pa., assignor to Machine & Tool Designing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 3, 1943, Serial No. 489,548
3 Claims. (Cl. 144—281)

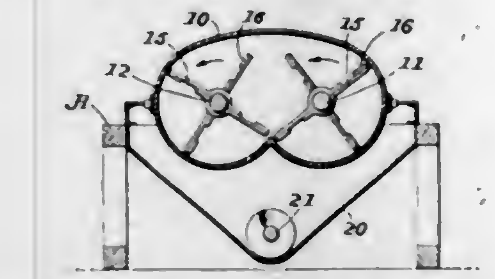


1. In an apparatus for fabricating parts by bonding strips of material, an upper and a lower mold, said lower mold having a hollow interior and having a source of minus pressure connected thereto, a plurality of apertures extending from said interior to the molding surface of said mold, and an electrical conductor plate embedded in said lower mold, the entire area of said plate being substantially equidistantly spaced from the molding surface of said mold, a plurality of apertures in said plate, said apertures being in alignment with the apertures of said lower mold, a ram, said upper mold being connected to said ram, said upper mold having a recess, a cushion member mounted within said recess, a second electrical conductor plate, means for attaching said last named plate and cushion to said upper mold whereby when said ram and upper mold descend said last named plate may have limited cushioning movement within said recess to permit said plate to conform to the opposite curvature of said lower mold, and means for electrically connecting said plates to a source of electrical potential of radio frequency.

2,422,980

ASBESTOS SPINNING FIBER

Lee Collin Pharo, Thetford Mines, Quebec, Canada, assignor to Johnson's Company, Thetford Mines West, Quebec, Canada
Application February 2, 1944, Serial No. 520,802
4 Claims. (Cl. 19—65)

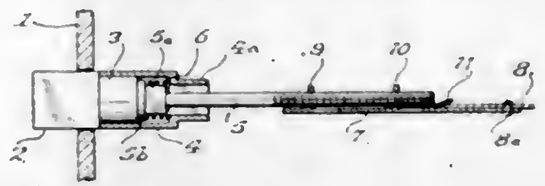


1. A process of treating asbestos, which comprises the steps of, eliminating from asbestos masses the longest and shortest fibers whereby the average fiber length of the masses is in the range from about ⅝ inch to about ⅞ inch and the greater portion of the fibers exceeding ⅝ inch, fiberizing the masses, liberating from about 90% to about 98% of the fibers in the masses substantially completely and allowing the remainder of the masses to retain a substantially harsh condition.

2,422,981

PUSH BUTTON FOR RADIO RECEIVERS

Marion J. Pifer, Williamsville, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y.
Application September 12, 1945, Serial No. 615,757
6 Claims. (Cl. 74—10)

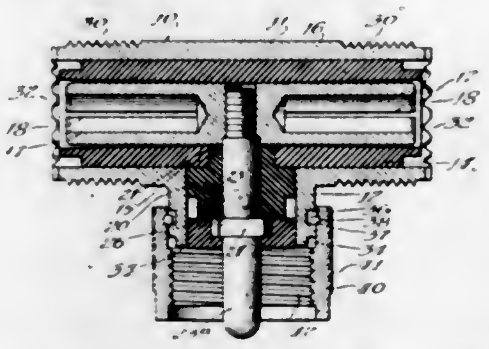


1. A new article of manufacture comprising a push button head terminating at its rear end in a stud, a sleeve mounted on said stud, the rear end of said sleeve terminating in a non-circular opening, a bolt positioned with its head within said sleeve, a spring normally biasing the head of said bolt against the rear face of said stud, said bolt having adjacent its head a portion shaped to fit the opening in the rear of said sleeve when the head is pulled outwardly, whereby the bolt may be rotated by pulling the push button head out and rotating said head.

2,422,982

COAXIAL CABLE CONNECTOR

Edward Clarke Quackenbush, Roselle, Ill.
Application January 7, 1943, Serial No. 471,543
5 Claims. (Cl. 174—87)

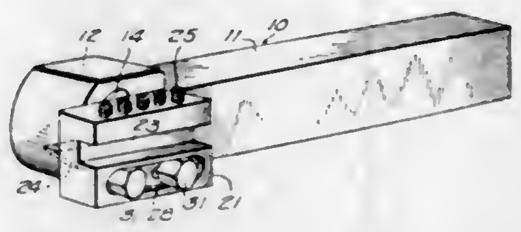


1. In an electric connector for coaxial cables, a metallic casing having angularly disposed intersecting legs, tubular insulating sleeves mounted in said legs and snugly engaging the inner walls thereof, said sleeves being formed for abutting interlocking engagement to provide a substantially homogeneous insulating structure free of voids to insure the maintenance of uniform electrical characteristics throughout the length of the connector, electrical contacts snugly mounted within their respective insulating sleeves, and means for detachably connecting said sleeves and contacts in assembly relation.

2,422,983

TOOL HOLDER

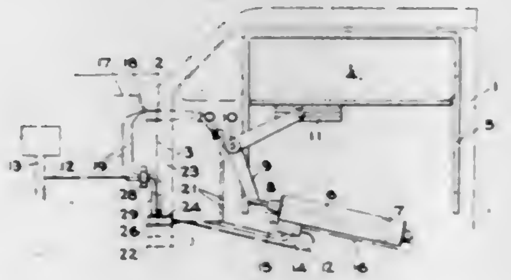
Charles L. Ramsey, Los Angeles, Calif.
Application February 8, 1945, Serial No. 576,802
6 Claims. (Cl. 29—98)



1. A tool holder comprising a pair of elements adapted to be arranged against each other, one

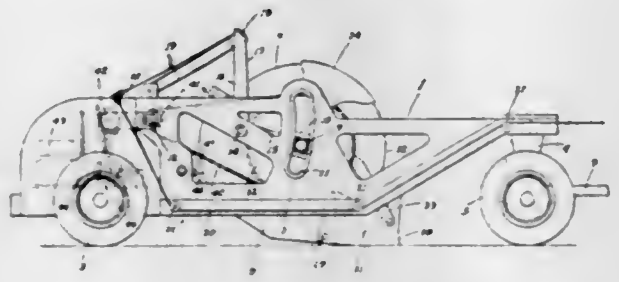
of said elements being provided with a pair of arcuate slots and the other element being provided with a pair of aligned slots, one of said elements provided with means for securing a tool thereto, and a bolt extending through each of said aligned slots and through one of said arcuate slots to clamp said elements together.

2,422,984
WINDOW SYSTEM
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application June 2, 1944, Serial No. 538,493
11 Claims. (Cl. 296—44)



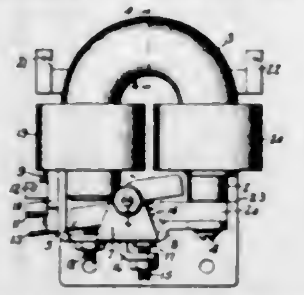
1. A motor vehicle having a doorway with a pillar element supporting a door element by hinge means for swinging movement, a power line leading across the hinge line of the door element, means on one of the aforesaid elements supporting the power line substantially at the hinge axis, and an arm carried by the other of the aforesaid elements and terminating substantially on the hinge axis but spaced therealong from said supporting means to cooperate with the latter in disposing a portion of the power line lengthwise of and substantially coincidental with the hinge axis.

2,422,985
EARTH HANDLING IMPLEMENT
Laurence L. Reckler, Sparks, Nev.
Application July 4, 1944, Serial No. 543,466
25 Claims. (Cl. 262—2)



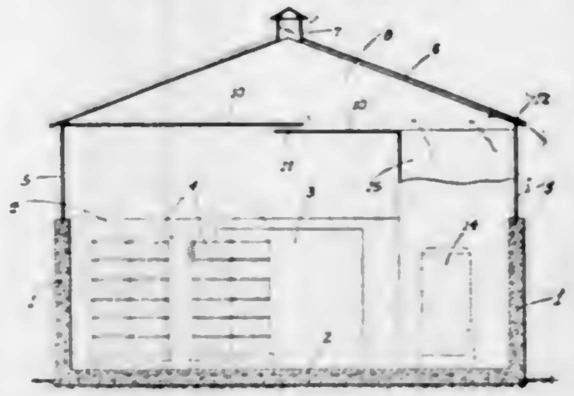
2. A rotary bowl unit for an earth handling implement, comprising a rotary bowl having a loading opening on one side thereof, a door assembly mounted on the bowl for movement between open and closed positions relative to said opening, and means to open and close said door assembly; the latter including a door movable from closed to open position about an axis extending immediately along the lower edge of said opening when the latter is in a predetermined loading position, and an earth cutting and digging blade on the door along the edge thereof which is opposite said axis, the door opening means being operative to maintain said door in rigid open position, whereby with the forward movement of the implement the digging blade will dig material which will be forced over the door and directly into the drum through said opening.

2,422,986
TIME DELAY RELAY
Robert C. Ring, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 10, 1944, Serial No. 534,960
5 Claims. (Cl. 175—372)



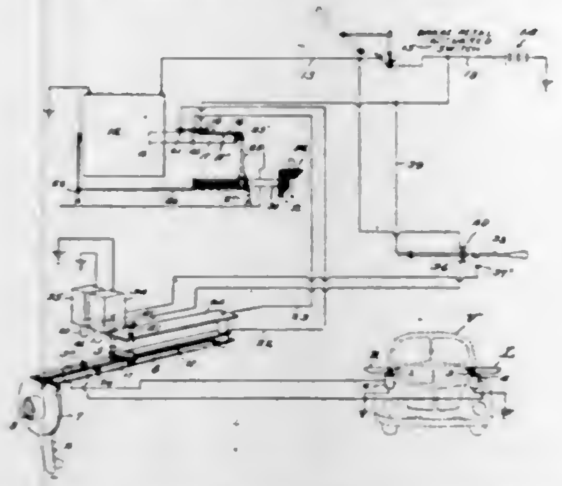
1. An electromagnetic time element device comprising an integral magnetizable core curved to provide a pair of juxtaposed polar ends, a sleeve of substantially non-magnetic electric conducting material encasing said core for substantially its full length, a movable armature providing a magnetic circuit between said polar ends, and an exciting winding encircling said core to establish a magnetic flux therein.

2,422,987
STORAGE WAREHOUSE PROVIDING FOR THE DISSIPATION OF MOISTURE RELEASED FROM STORED DEHYDRATED FRUITS
Earle L. Roberts, Modesto, Calif.
Application February 12, 1944, Serial No. 522,102
1 Claim. (Cl. 98—29)



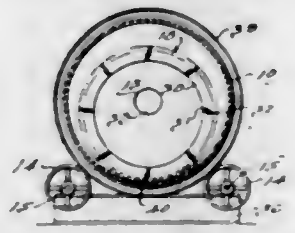
A storage warehouse for the purpose set forth and which comprises a storage area consisting of a floor and lower side walls, both such floor and walls being substantially impervious to heat and moisture, the walls projecting upwardly from the floor a predetermined distance to form a storage area of desired capacity therebetween, upper walls mounted on and generally conforming to the contour of the lower walls and having substantially air tight connection with the latter, such upper walls being of heat conducting material and forming a free air space therebetween, whereby air in such space may become heated by conduction from the outside atmosphere, the space between the lower walls being freely open into the space between the upper walls whereby as heated air is generated between the upper walls it will rise and expand and tend to draw any moisture from about produce stored between the lower walls, into the space between the upper walls, a ventilated roof above the upper walls to permit the escape of the rising warm air from the space between such upper walls, and a ceiling interposed between the upper walls and the roof, such ceiling comprising flat members disposed in overlapping spaced relation whereby to permit of free movement of air through the ceiling while forming a surface to catch any condensed moisture.

2,422,988
DIRECTION SIGNAL FOR VEHICLES
Cornelius Dunham Schurter, Long Beach, Calif.
Application March 12, 1945, Serial No. 582,349
5 Claims. (Cl. 177—329)



1. The combination with a motor vehicle, of a direction signal including a signal indicator, an electromagnetic device for operating the same, a switch, and means controlled by the momentary closing of the switch for energizing said device, said means including a solenoid for a slidable core, a movable contact carried by the core, a fixed contact electrically joined to the electromagnetic device and normally spaced from the movable contact but positioned for engagement thereby when the core is shifted from normal position by the solenoid when energized, a core-returning feed screw, means operated by the movement of the motor vehicle for actuating said feed screw, and means for coupling the core to the feed screw when said core is brought to one extreme position by the energized solenoid.

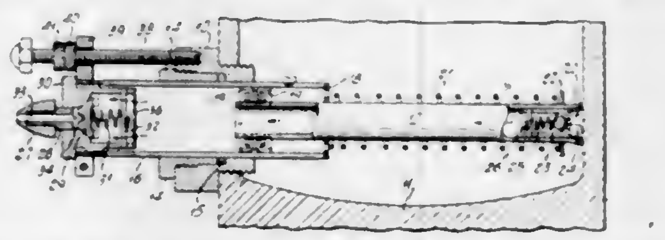
2,422,989
ROTARY PELLETING OF FURNACE BLACKS
Robert W. Skoog, Borger, Tex., assignor to United Carbon Company, Inc., (Maryland), Charleston, W. Va., a corporation of Maryland
Application December 21, 1944, Serial No. 569,253
2 Claims. (Cl. 259—3)



1. Apparatus for agglomerating finely divided pulverulent solids and comprising a rotatably mounted horizontal drum, and a free-rolling mixing and blending member mounted in said drum and of less diameter than said drum, said member comprising a plurality of spaced hoops joined by longitudinally extending bars each having a plurality of teeth spaced longitudinally thereof and extending outwardly therefrom to points of contact with the walls of said drum.

2,422,990
WAX INJECTOR
Benjamin Spanier, New York, N. Y.
Application October 10, 1945, Serial No. 621,558
3 Claims. (Cl. 222—125)

1. A device of the character described comprising a receptacle having an opening in the front wall thereof, a threaded main supporting nut removably secured therein adapted to support an injector unit, said unit comprising a cylindrical relatively movable barrel passing through said nut and directly supported thereby in horizontal position, a perforated disc secured to the inner end of said barrel, said disc having a central opening, a tubular relatively stationary plunger having its innermost end in contact with the rear wall of the receptacle, said plunger passing through the central opening in the disc and supported thereby, a piston packing disposed in said barrel and fixed to the plunger near the outermost end thereof, a radially extending member secured to the plunger near its inner end, a helical expansion spring mounted around said plunger, the ends of said spring bearing respectively against said radial member and disc so as to keep the inner end of the plunger in engagement with the rear wall of said receptacle and normally to keep the barrel in projected position, a sleeve in threaded engagement with the outer end of the barrel, a conical stem valve slidably supported by the sleeve, a nozzle mounted on the outer end of the stem valve, a spring within the sleeve acting on the stem valve to hold it normally closed, said stem valve having a longitudinal duct and transverse ducts formed therein to afford a communicating passage from the sleeve through the stem valve and nozzle when the stem valve is pushed inwardly, and a check valve located within said plunger near the inner end thereof, whereby when the nozzle and barrel are pushed inwardly fluid within the receptacle is ejected through the plunger, barrel and nozzle.



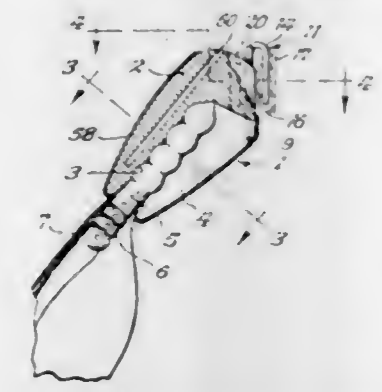
2,422,991
PRODUCTION OF HYDROPOLYMERS
Leslie Christopher Strang, Sunbury-on-Thames, England, assignor, by mesne assignments, to Anglo-Iranian Oil Company Limited, London, England, a company
No Drawing. Application January 7, 1942, Serial No. 425,861. In Great Britain December 23, 1940
4 Claims. (Cl. 260—683.6)

1. A process for the production of isoparaffins from olefins comprising catalytically polymerising an olefinic feedstock at a temperature of from 160° to 190° C. and non-destructively catalytically hydrogenating polymer products of the polymerisation reaction, the said feedstock comprising normal butenes and isobutene in a normal butenes-isobutene ratio in the order of 1.5:1 to 2.5:1 and propene in a proportion in the order of 60% to 130% wt. on the isobutene content of the feedstock.

2,422,992
NECKTIE
Alfred F. Taborski, Buffalo, N. Y.
Application May 4, 1945, Serial No. 591,922
15 Claims. (Cl. 2—153)

1. A preformed necktie comprising a knot portion having an opening in a wall thereof and a core surrounding said opening and formed of spring fingers which are arranged side by side, between them defining a passage, and extending

in a direction lengthwise of the core for a substantial distance, said fingers along said passage being undulatory with the valleys and ribs extending in directions crosswise of the fingers, a plug having a size to enter said passage between said fingers and having peripheral grooves and ribs with which the undulations of said fingers may engage to yieldingly lock the plug within said core, and a drape secured to the lower end of said plug and coupled to the knot portion through said plug, and with the drape and plug closing said opening and the drape concealing the outer end of said plug.



2,422,993

MANUFACTURE OF THREADS, FILAMENTS, FILMS, AND THE LIKE FROM ALGINATES

Ernest Edward Tallis, Meriden, England, assignor to Courtaulds Limited, London, England, a British company

No Drawing. Application December 8, 1943, Serial No. 513,465. In Great Britain February 19, 1943

1 Claim. (Cl. 18—54)

A process of producing alginate threads free from stuck filaments which comprises extruding a solution of sodium alginate through a multihole jet into a coagulating bath consisting of water, about 5% of calcium chloride, from 0.01% to 0.10% of cetyl pyridinium chloride and from 0.1% to 5% of acetic acid and thereafter collecting the threads formed in a centrifugal spinning box.

2,422,994

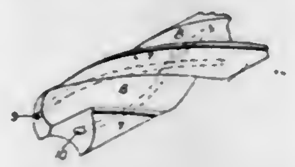
TWIST DRILL

George F. Taylor, Grosse Pointe Woods, Mich., assignor to Carboloy Company, Inc., Detroit, Mich., a corporation of New York

Application January 3, 1944, Serial No. 516,796

3 Claims. (Cl. 77—68)

1. An extruded and sintered cemented carbide twist drill adapted for deep metal drilling, said drill having a longitudinally extending spiral hole positioned entirely within one of the drill lands.



3. An extrusion die, the bearing surface of said die consisting of two connected, oppositely disposed, triangular-shaped openings adapted to permit formation in the extruded material of the usual flutes and lands in a twist drill, at least one of said openings being provided with a mandrel rigidly secured to the entrance end of the die and extending through said opening.

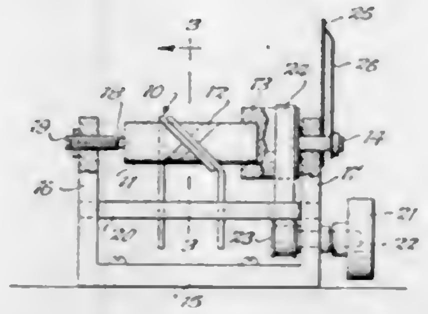
2,422,995

TUNER CONSTRUCTION

Innokent N. Vorie, Elma, N. Y., assignor to Colonial Radio Corporation, Buffalo, N.Y.

Application August 8, 1945, Serial No. 609,593

5 Claims. (Cl. 171—242)



1. In tuning apparatus, in combination, a core of comminuted paramagnetic material, longitudinally fixed but free for rotation, a coil surrounding said core, said coil having the plane of its windings disposed at an angle to the axis of said core, and said core having a short-circuited turn of good conducting material encircling said core, and having its plane disposed at an angle with respect to the axis of the core.

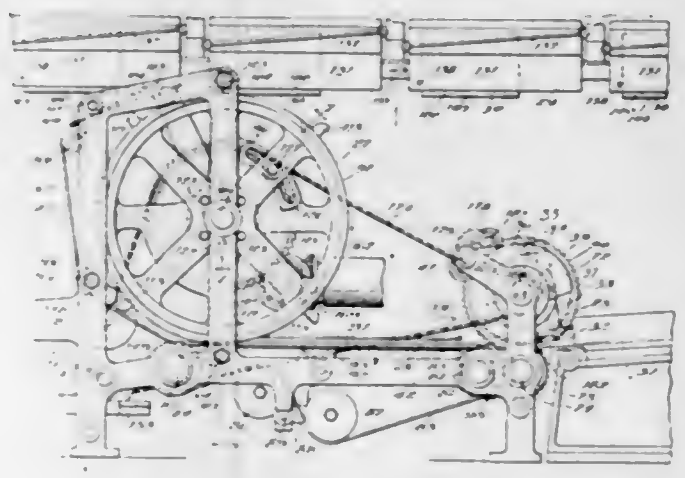
2,422,996

COVER APPLIER

Elmer E. Wendt, Hinsdale, Ill., assignor to W. F. Hall Printing Company, Chicago, Ill., a corporation of Illinois

Application September 1, 1944, Serial No. 552,363

17 Claims. (Cl. 11—4)



1. In a book covering machine, an endless book conveyor for supporting a plurality of books with their backs exposed, abutment means provided on said book conveyor at equally spaced intervals for engagement with one end of said books, a timing shaft, a timing wheel having its periphery disposed substantially tangential to the back of any books carried by said book conveyor, said timing wheel being secured to said timing shaft and formed with equally spaced drip grooves in the outer periphery thereof arranged to receive glue drippings from the rearward edges of books being covered, a pair of cover carrier wheels mounted on said timing shaft on opposite sides of said timing wheel, stop lugs provided on said cover carrier wheels for engagement with the forward edges of covers, and endless belts for holding covers in position upon said cover carrier wheels prior to mounting of said covers upon the exposed backs of the books by means of said timing wheel.

2,422,997

PROCESS FOR PREPARING SECONDARY POLYHYDROXYALKYLARYL AMINES

Heinz Moritz Wuest, Upper Montclair, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application December 15, 1944, Serial No. 568,389

8 Claims. (Cl. 260—211)

1. Process of making a secondary polyhydroxyalkylaryl amine which comprises hydrogenating an aldonic acid lactone and an aromatic primary amine selected from the group consisting of the primary amines of the benzene and naphthalene series and of compounds capable of producing these primary aromatic amines by catalytic hydrogenation, in an organic solvent in the presence of a noble metal catalyst, under a hydrogen pressure of at least 100 atmospheres and temperatures below 100° C.

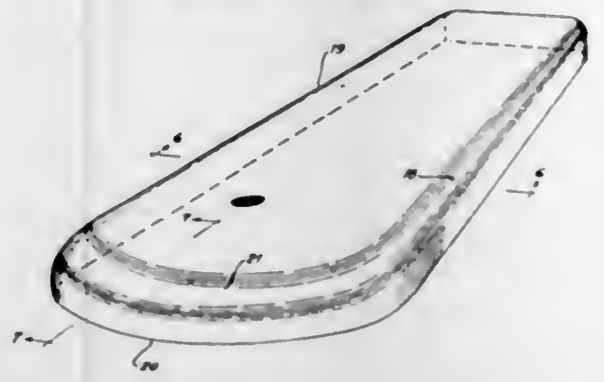
2,422,998

METHOD OF MAKING LAMINATED CORRUGATED ARTICLES

Douglas D. Adams and Karl Rollius, Canton, Ohio, assignors to Old King Cole, Incorporated, Canton, Ohio, a corporation of Ohio

Application July 31, 1945, Serial No. 608,028

2 Claims. (Cl. 154—110)



2. The method of making a shaped laminated paper article including the steps of cutting a plurality of flat plies of corrugated paper into a predetermined pattern, applying plastic adhesive to certain surfaces of the plies, superposing said plies with the adhesive coated surfaces abutting each other, die-forming said superposed plies simultaneously into a channel shaped contour curved transversely of the direction of the corrugations by slippage of the plies one upon another, and maintaining the plies in said contour until the plastic adhesive has set.

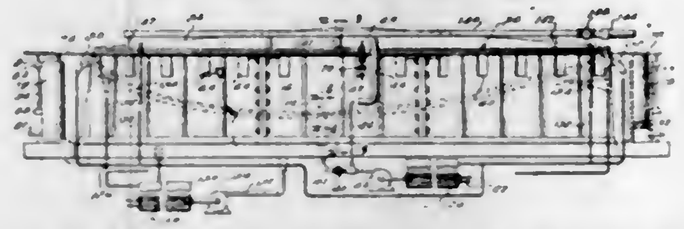
2,422,999

METHOD OF AND APPARATUS FOR MOLDING PLASTIC MATERIAL

William Harold Bagley, Jr., Detroit, Mich., assignor of one-half to Progressive Welder Company, Detroit, Mich., a corporation of Michigan

Application April 27, 1945, Serial No. 590,557

12 Claims. (Cl. 18—19)



12. Plastic molding apparatus comprising, in combination, a mold having a flat face and a mold cavity opening thereonto, said mold being formed to provide a chamber surrounding that wall thereof forming said cavity, a cover member overlying said flat face and said mold cavity, clamping means co-operable between said mold and said cover member for relatively drawing one toward the other thereof whereby to enable a sheet of plastic to be marginally clamped between them, a liquid tank, heating means operatively associated with said tank for heating liquid therein, means for withdrawing heated liquid from said tank and delivering it to said mold cavity, means for introducing air under pressure to that face of said cover opposed to said mold cavity, a second liquid tank, means for refrigerating liquid in said second tank, and means for delivering said refrigerated liquid from said second tank to said chamber.

2,423,000

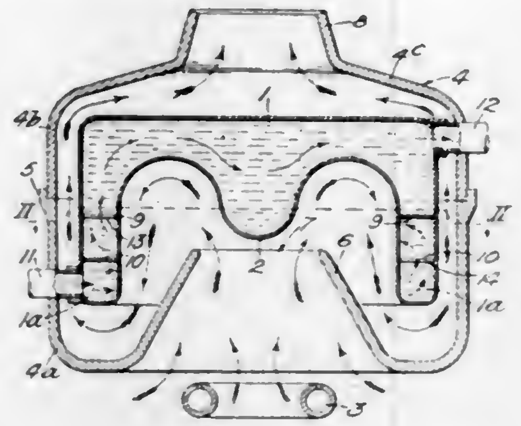
WATER HEATER

Tom Bennett, Droylsden, Manchester, and Edward Hurst, Denton, Manchester, England, assignors to themselves and G. Carner & Co. Limited, Manchester, England, a company of Great Britain

Application July 24, 1944, Serial No. 546,356

In Great Britain August 3, 1943

3 Claims. (Cl. 122—160)



1. A water heater comprising a boiler of saddlelike section in all vertical planes passing through its centre in plan, this boiler being mounted, and having substantially uninterrupted clearance all round it, in a heat-insulating casing, the latter having a hollow baffle or deflector formation extending all round a central opening in its bottom and constructed to extend into the underspace of the boiler with substantially uninterrupted clearance all round between itself and the wall of said underspace and the top of said casing being spaced from the top of said boiler and having a central opening, whereby heat from a burner or fire directed by said baffle or deflector formation into said underspace will be constrained to flow over substantially the whole of the upper and side walls of such underspace, substantially wholly around and under the lower edge and up on and substantially wholly around the outside of the depending outer part of said saddle-section boiler and finally over substantially the whole of the top of the boiler to said central opening in the top of said casing.

2,423,001

THREAD CUTTER FOR SEWING MACHINES

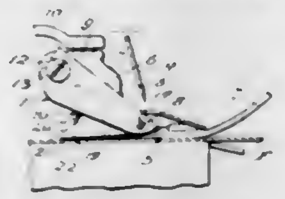
Arthur Blowers, Fort Plain, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Application August 13, 1945, Serial No. 610,490

4 Claims. (Cl. 112—252)

1. A thread chain severing device for sewing machines comprising a supporting bracket

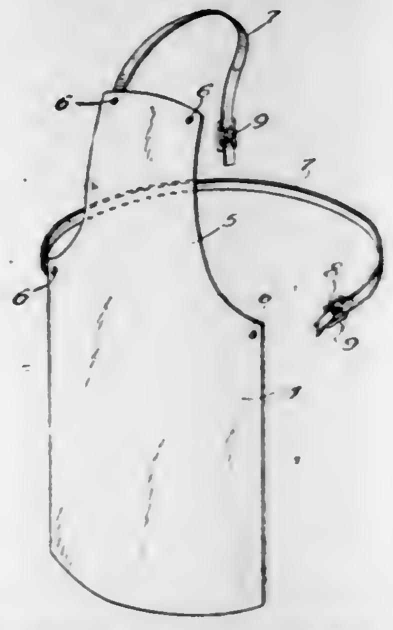
adapted to be attached to the sewing machine above the work support, a guide, a cutting blade carried by said guide, said guide having a thread directing finger projecting rearwardly from and beyond said blade, the upper edge of said finger extending forwardly past the edge of said blade so that threads moved along said finger will contact said blade, means for supporting said guide on said bracket so that the finger is free to move toward and away from said work support, said guide being disposed relative to the presser foot so that said finger will rest on the fabric section while stitching and will move down into engagement with the work support when the fabric section passes from beneath the finger and so that when the stitched fabric section is being removed from the machine, the stitching threads will engage said finger and be directed onto the cutting blade for the severing of the same.



2,423,002

PROTECTIVE SAFETY GARMENT

Allen R. Bray, Chicago, Ill., assignor to Standard Safety Equipment Co., a corporation of Illinois
Application October 15, 1945, Serial No. 622,370
3 Claims. (Cl. 2—52)



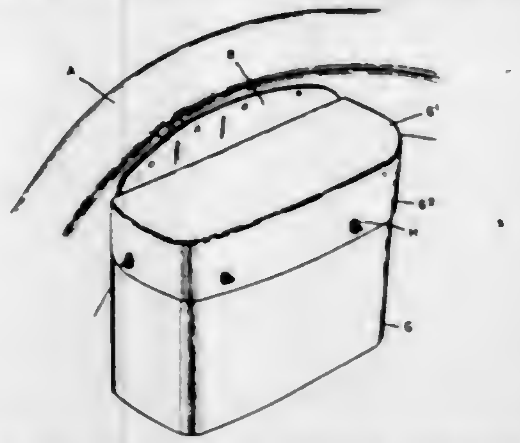
3. A protective safety garment comprising a flexible apron having secured to each of its two side edge portions an inwardly facing snap-fastener member, a securing strap adapted to extend from the garment edges around the back of the wearer's body and having near each end of the strap an outwardly facing snap-fastener member complemental to the adjacent snap-fastener on the apron and adapted to be snapped thereto to hold the apron on the wearer, whereby in an emergency the garment may be quickly removed by a single outward pull on the garment by the wearer.

2,423,003

MOTORCYCLE SADDLE BAG

Joseph Buegeleisen, Detroit, Mich.
Application March 11, 1946, Serial No. 653,474
3 Claims. (Cl. 224—32)

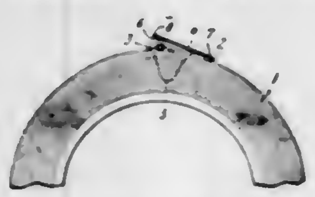
1. A detachable saddle bag for motorcycles and a mounting therefor comprising a plate permanently attached to a mud guard of the motorcycle adjacent to a side thereof and forming a reinforcement therefor, said plate having its upper edge substantially corresponding to the curvature of the guard and its lower edge substantially horizontal, a series of studs projecting outward from said plate, a saddle bag having grummets therein for respectively registering with said studs, and a locking bar within the bag for engaging the portions of the studs projecting beyond said grummets.



2,423,004

TAPE DISPENSER

Henry E. Butler, Scotia, N. Y.
Application December 14, 1945, Serial No. 635,079
5 Claims. (Cl. 164—84.5)

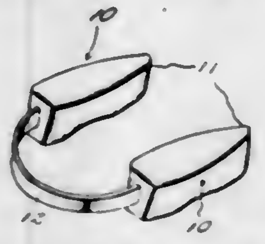


1. The combination with a roll of adhesive tape of a dispenser comprising a pin positioned under the outer layer of the tape adjacent to its end, a strap of a width equal at least to the width of the tape which extends transversely of the roll outside the outer layer, means connecting the ends of the pin to the strap in spaced relation thereto with the pin spaced from the ends of the strap, one end of said strap having an edge over which the tape may be torn, and means providing a fulcrum for the strap on the side of the pin opposite to that of the tearing edge whereby the strap may be turned on its fulcrum to cause the pin to lift the free end of the tape loose from the roll.

2,423,005

DENTAL IMPRESSION EQUALIZER

Hyman F. Chaiken, Wilkes-Barre, Pa., assignor to Samuel H. French and Co., Philadelphia, Pa., a corporation of Pennsylvania
Application March 2, 1944, Serial No. 524,720
3 Claims. (Cl. 32—17)

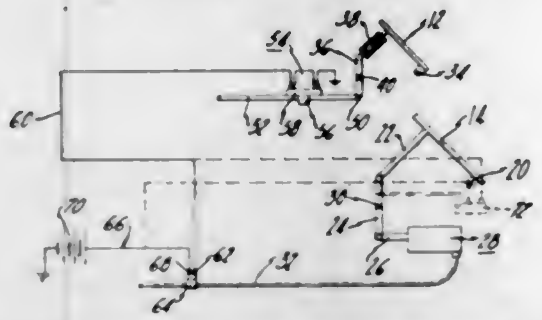


1. A pressure equalizer for use in making lower dental ridge impressions, comprising two weight bodies having a greater length than width and of a size to position in the mouth, and an intermediate relatively light-weight coupling between ends of the bodies, said bodies being maintained with the unconnected ends in divergent relation and conforming to the isosceles trapezoid pattern of the bicuspid and molar area of the lower dental ridge.

2,423,006

BRAKE SYSTEM

Allan C. Chambers and Frank B. Willis, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 10, 1944, Serial No. 544,178
6 Claims. (Cl. 192—3)



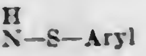
1. In a vehicle having an accelerator treadle which controls a throttle and a brake pedal for applying brakes, means for locking the throttle, means which respond automatically to brake applying movement of the brake pedal to operate said locking means, and resilient means between the accelerator treadle and the throttle for absorbing any thrust on the accelerator treadle subsequent to locking the throttle.

2,423,007

DI(ARYL SULFENE) AMIDES AS CO-ACCELERATORS

Ralph A. Coleman, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 7, 1945, Serial No. 615,073
5 Claims. (Cl. 260—795)

1. A method of vulcanizing a rubber which comprises incorporating therein sulfur, a primary organic nitrogen-containing rubber-vulcanization accelerator, and a compound having the general formula



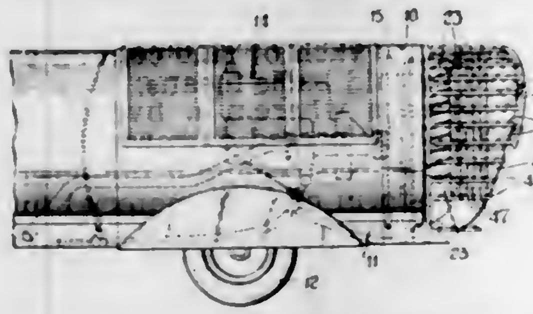
$$\text{Aryl}-\text{S}-\overset{\text{H}}{\text{N}}-\text{S}-\text{Aryl}$$

where aryl represents an aromatic nucleus of the group consisting of the benzene, naphthalene, and biphenyl series.

2,423,008

SPRAYING MACHINE

George W. Daugherty, Orlando, Fla.
Application November 28, 1944, Serial No. 565,438
7 Claims. (Cl. 261—30)

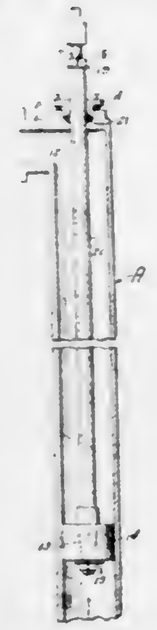


1. In a machine of the class described, an air tunnel, means whereby a blast of air is generated through said air tunnel for forming a fine fog of spraying material, air guiding means secured at that end of the tunnel through which the blast of air issues and with parts thereof in spaced relation to the end of the tunnel, and a series of air guiding fins formed substantially parallel to the periphery of the air tunnel and positioned in parallel longitudinally spaced relation to the end of the tunnel for receiving the air blast from said air guiding means whereby to impart further direction thereto.

2,423,009

SLEEVE

William H. Defoe, Carmi, Ill.
Application August 20, 1945, Serial No. 611,604
1 Claim. (Cl. 74—579)

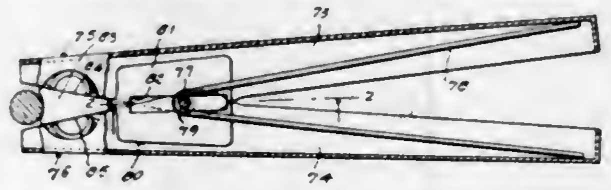


A rod protector of the kind described, comprising a solid drill rod, threads on said rods at each of its opposite end portions, a shoulder formed integral with said rod adjacent one of its threaded end portions, a tapered portion formed integral with said shoulder and said rod intermediate said shoulder and said last mentioned threaded end portion, said tapered portion at its upper end being larger in diameter than said rod and at its lower end of the same size as said rod, a head on said tapered portion, a tubeform sleeve embracing the rod between the shoulder thereon and the threaded portion most remote therefrom, and means on the threaded portions for holding the sleeve and head fixed against the shoulder on said rod.

2,423,010

KEEPER INSERTING TOOL

Charles A. Dougherty, Wilmington, Del.
Application September 30, 1944, Serial No. 556,589
2 Claims. (Cl. 81—5.1)

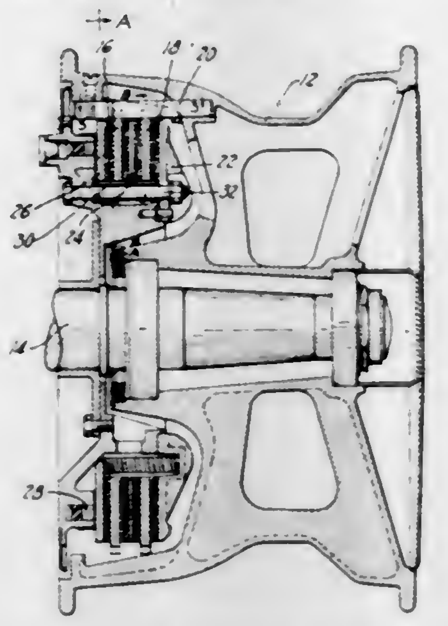


1. A valve keeper inserting tool comprising a pair of pivoted handles, a pair of confronting jaws carried by said handles, said jaws being U-shaped in transverse section and the parallel walls of each jaw having arcuate cutouts with the cutout of one wall of less depth than the cutout of the other wall, and an intermediate jaw within the walls of said pair of jaws and movable

lengthwise therebetween, said intermediate jaw having outwardly divergent opposite sides confronting said cutouts whereby to hold semi-circular keeper parts in outwardly divergent relation.

2,423,011
DISK BRAKE

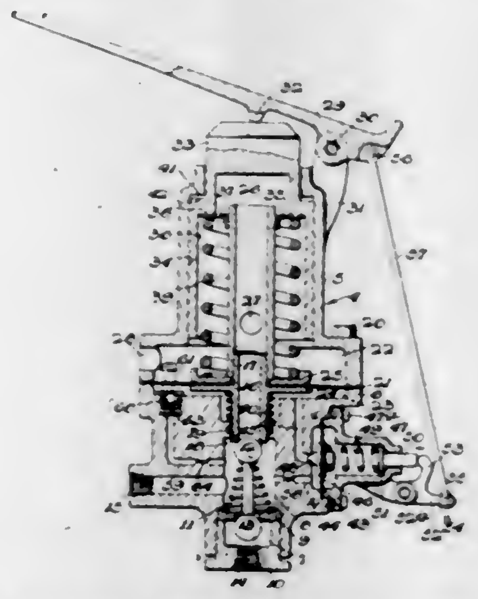
William H. Du Bois, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 17, 1944, Serial No. 531,436
10 Claims. (Cl. 188—72)



1. In a disk brake having a rotating disk, a driving key having a surface inclined with respect to a line parallel to the axis of the disk and in driving contact with the disk, said disk being adapted to slide along the driving surface of said key.

2,423,012
FLUID PRESSURE CONTROL MECHANISM

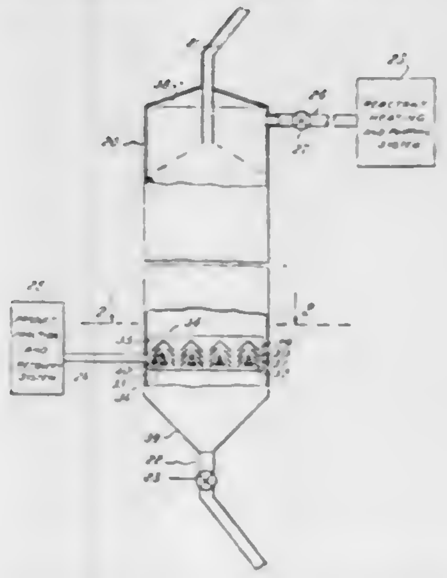
Wilfred A. Eaton, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application May 18, 1945, Serial No. 594,513
15 Claims. (Cl. 303—54)



1. Self-lapping fluid pressure control valve mechanism including a casing having inlet and outlet chambers, a valve for controlling the flow of fluid between said chambers, a valve operating element, operating means for moving said element in one direction to open the valve, means for moving the element in the opposite direction and for controlling the operation of the element for establishing and maintaining a pressure of fluid in the outlet chamber substantially proportional to the degree of force exerted on said element by said operating means including a pressure responsive member connected with the element and adapted to be subjected to the pressure of fluid in the outlet chamber, means for subjecting the pressure responsive member to the pressure in the outlet chamber including a fluid passage connected with the outlet chamber and means including a valve controlled by the pressure of fluid in the outlet chamber for preventing the flow of fluid through said passage and the application of said fluid to said pressure responsive member until the pressure in said outlet chamber substantially reaches said proportional pressure.

2,423,013
METHOD AND APPARATUS FOR CONTACTING GASES WITH PARTICLE FORM SOLID MATERIALS

Louis P. Evans, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application September 6, 1944, Serial No. 552,828
16 Claims. (Cl. 196—52)

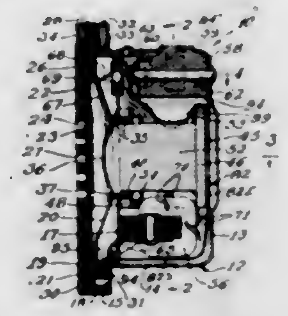


1. An apparatus for contacting gases with moving particle-form solid material comprising: an elongated vessel suitable for confining a substantially-compact downwardly-moving column of particle-form solid material, means to introduce said solid to the upper end of said vessel, means to withdraw said solid from the lower end thereof, means to admit reactant fluid into said vessel, a plurality of spaced baffle means positioned within said vessel to define a plurality of spaced zones from which said column flow is excluded and serving to provide a plurality of upwardly-sloping superposed passages for gas flow from said column into each of said column excluded zones, said passages being of progressively decreasing length the lower their position in said vessel, and means to withdraw gas from each of said column excluded zones defined by said baffle means.

16. In a process wherein a hydrocarbon reactant material is passed downwardly within a substantially compact column of downwardly moving particle-form contact material in a confined conversion zone to convert said reactant material to gaseous hydrocarbon products that method for withdrawing gaseous products from the column of contact material in said conversion zone which method comprises: withdrawing said gaseous products from said column through a plurality of uniformly spaced apart outlets while baffling the gas flow within said column prior to its entrance to said outlets so as to provide prior to the entrance of gas to any given outlet its disengagement from said solid at a plurality of surfaces at a plurality of levels, disengaging said gas from said solid at all of said surfaces at a linear rate of gas flow substantially below the linear rate of gas flow in said column thereabove.

2,423,014
PRESSURE-EQUALIZING HOUSING FOR TRANSDUCERS

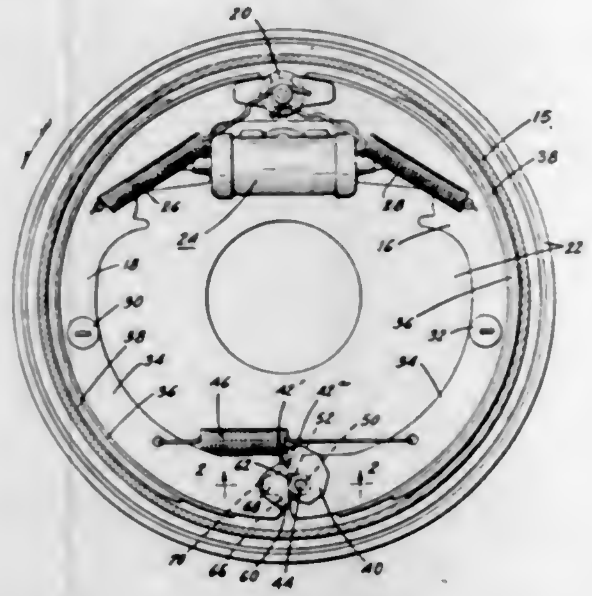
Webster E. Gilman, Chicago, Ill., assignor to Permoflux Corporation, Chicago, Ill., a corporation of Illinois
Application May 10, 1943, Serial No. 486,285
9 Claims. (Cl. 179—179)



2. In a transducer, imperforate diaphragm means, electrical means disposed on one side of said diaphragm means and operatively associated therewith in transducing relation, and means cooperating with said diaphragm means to afford a normally air tight enclosure about said electrical means and including normally closed pressure responsive valve means operable upon a predetermined reduction in the surrounding air pressure to enable air to flow into or out of said enclosure.

2,423,015
BRAKE ADJUSTING MEANS

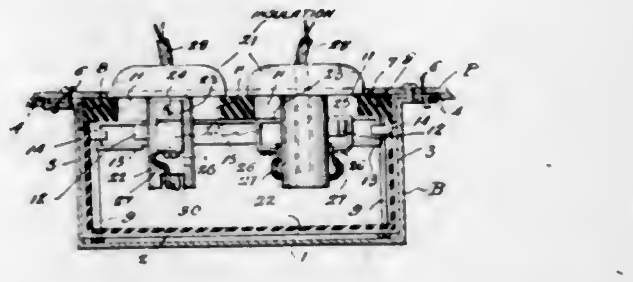
Rudolph A. Goepfrich and Bryan E. House, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 18, 1943, Serial No. 502,858
26 Claims. (Cl. 188—79.5)



1. In a brake having a rotatable member and a substantially non-rotatable member movable into frictional engagement with said rotatable member to resist rotation thereof, means for adjusting the released position of said substantially non-rotatable member comprising an element movable to effect relative movement between said substantially non-rotatable member and a second substantially non-rotatable member, said element having the outline of an irregular polygon, the edges of which constitute a plurality of substantially flat intersecting surfaces of engagement thereon, a selected one of which engages a substantially flat surface of one of said substantially non-rotatable members when the brake is released, said element being movable to change the surface of engagement which is in contact with said substantially non-rotatable member, thereby effecting relative movement between said substantially non-rotatable members and adjusting the released position clearance between the first of said substantially non-rotatable members and the rotatable member.

2,423,016
ELECTRIC OUTLET BOX

Elmer E. Granger, Reno, Nev.
Application August 15, 1944, Serial No. 549,611
1 Claim. (Cl. 173—330)



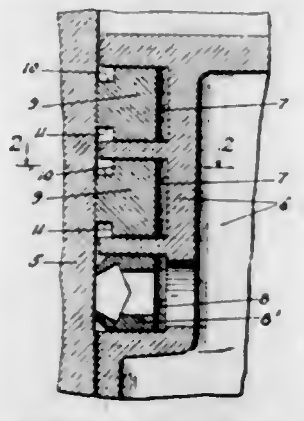
An electric outlet comprising a casing open at its outer end, a cover for the casing formed with an opening having portions of reduced width extending longitudinally of the cover, buss strips in said casing extending longitudinally thereof adjacent its side walls and formed with terminal portions extending outwardly through openings in the side walls and adapted to have circuit wires connected therewith, lugs projecting inwardly from the side walls and engaging the buss strips intermediate the length thereof, lugs projecting from end walls of the casing and overlapping ends of the buss strips to removably hold the buss strips in place, a plug inserted through the opening of the cover and having a wire passage, and terminal strips extending longitudinally of the plug at opposite sides thereof, said terminal strips having rear ends secured to the plug and their front ends free and adapted to have wires of an electric cord passed through the passage connected to them, and said terminal strips being bent to form U-shaped arms projecting radially from the plug at opposite sides thereof for passing through the reduced portions of the openings in the cover and engaging under the cover with their outer ends bearing against the buss strips when the plug is inserted and turned to a position disposing the arms transversely of the casing.

2,423,017
PISTON RING

Gerald M. M. Grant, Los Angeles, Calif.
Application July 16, 1945, Serial No. 605,241
2 Claims. (Cl. 309—45)

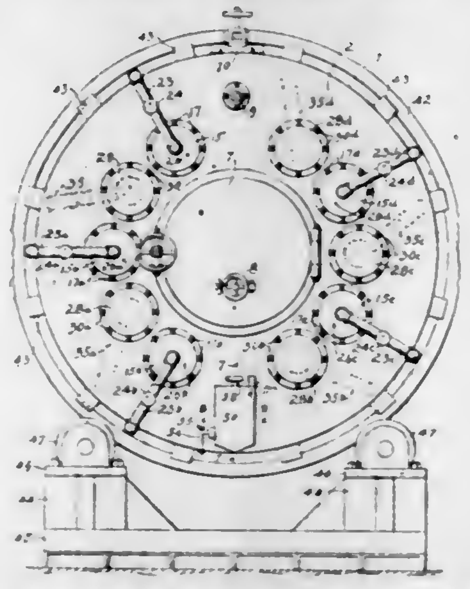
1. A compression piston ring having a body to fit a piston ring groove and having its wall-engaging face reduced with continuous and uninterrupted rectangular annular channels in its

upper and lower corners, not to exceed $\frac{35}{1000}$ of an inch in depth from the periphery of the ring.



to retain oil therein for sealing purposes on the compression stroke.

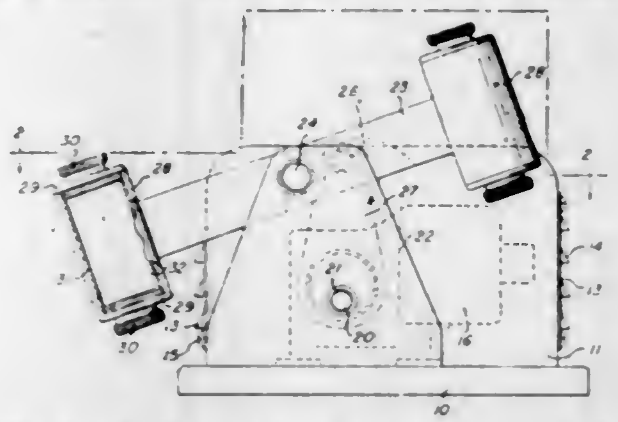
2,423,018
ROTARY DRUM FURNACE
Henry M. Griffoul, San Jose, Calif.
Application October 14, 1942, Serial No. 462,045
1 Claim. (Cl. 263—32)



A furnace of the character described comprising, a hollow cylindrical drum having rails mounted upon and encompassing its peripheral surface, fixedly positioned roller elements disposed to receive said rails and support said drum, driving means for the roller elements, heating tubes disposed within the drum in parallel relationship with its axis and concentrically disposed relative thereto, said tubes being disposed adjacent the inner periphery of the drum, and extending through the ends thereof, cap members closing the ends of the tubes, a fuel discharge nozzle disposed in the alternate ends of successive tubes, a manifold disposed on one end of the drum, fuel conducting pipes connecting the manifold with each nozzle, and tube means for discharging the burnt gases from the several heating tubes disposed within the drum wall and directly connected to said heating tubes at the ends remote from the nozzles and discharging at points adjacent said manifold.

2,423,019
SHAKER FOR BURRING SMALL PARTS
David T. Haines, Sr., Dallas, Tex.
Application October 8, 1945, Serial No. 620,971
3 Claims. (Cl. 51—163)

1. A machine of the kind described, comprising a vertically movable rocking beam, barrel-like containers at opposite ends of the beam and having abrasive linings thereto, said containers being internally threaded at each end thereof, screw threaded removable ends on the containers,

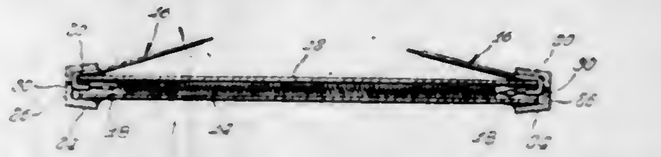


knurled knobs on said ends for the removal thereof and power means for imparting rocking movement to the beam.

2,423,020
PROCESS FOR TREATMENT OF LUMBER AND OTHER FOREST PRODUCTS
Joye C. Haun, San Francisco, Calif., assignor to Electric Steel Foundry, Portland, Oreg., a corporation of Oregon
No Drawing. Application April 7, 1944, Serial No. 530,062
13 Claims. (Cl. 260—110)

1. The method of treatment of wood for the removal of the pitch which comprises subjecting the wood to the dissolving action of water and acetone to dissolve the pitch, and segregating the pitch from the water-acetone solution by the action of carbon tetrachloride in an amount of 5% to 20% by volume of the acetone, which combines with part of the acetone to form an acetone-carbon tetrachloride solution to which the pitch is transferred from the water-acetone solution.

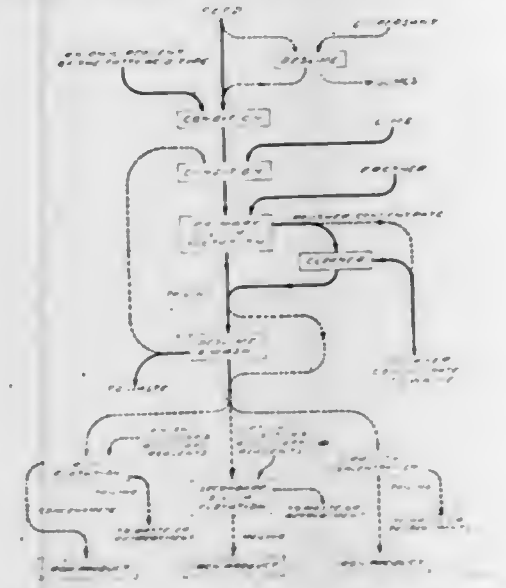
2,423,021
RESISTOR BALLAST
Edward Henckler, Jersey City, and Harry Weber, Ridgefield Park, N. J.
Application October 18, 1945, Serial No. 623,070
5 Claims. (Cl. 201—64)



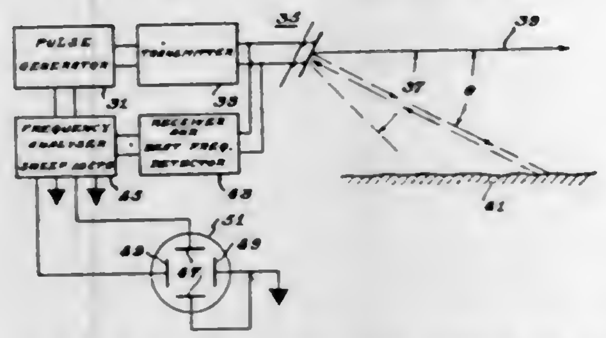
1. A resistor ballast comprising an insulation tube, a longitudinally expanded helix of resistance wire disposed within said tube and extending longitudinally thereof, said helix having its opposite ends adjacent the opposite ends, respectively, of said tube, and closure members secured to the opposite ends, respectively, of said tube, said helix being disposed with its turns disposed around a longitudinal air passage internally of the helix and said closure members being provided with openings for the circulation of air through said tube longitudinally of said helix and through said passage internally of said helix.

2,423,022
FROTH FLOTATION OF SILICA FROM IRON ORE BY ANIONIC COLLECTORS
Earl Conrad Herkenhoff, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application April 10, 1944, Serial No. 530,370
7 Claims. (Cl. 209—166)

1. In a method of beneficiating iron ores containing silica-bearing gangue by froth flotation, an ore pretreatment process which comprises the steps of making a pulp of ore having a particle size suitable for use as flotation feed, subjecting the pulp to two successive conditioning operations, in the first with an effective amount of an anionic reagent selected from the group consisting of the long-chain, aliphatic fatty-acids, talloel, sulfonated derivatives of these materials, oil-soluble, sulfonated petroleum hydrocarbons, water-soluble, sulfonated petroleum hydrocarbons, the sodium, potassium and ammonium soaps of such materials and mixtures thereof, and in the second with at least a sufficient amount of an alkaline-earth metal oxide to convert the anionic reagent to insoluble soaps thereof and to produce an alkaline pH, and subjecting the conditioned pulp to a froth flotation operation whereby a concentrate relatively rich in silica and a tailing containing a major proportion of the iron minerals are produced.



2,423,023
OBSTACLE DETECTION BY RADIO WAVES
William D. Hershberger, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1938, Serial No. 232,631
4 Claims. (Cl. 250—1.56)


PULSE GENERATOR
TRANSMITTER
FREQUENCY ANALYSER SWEEP METER
RECEIVER AND BEAT FREQ. DETECTOR
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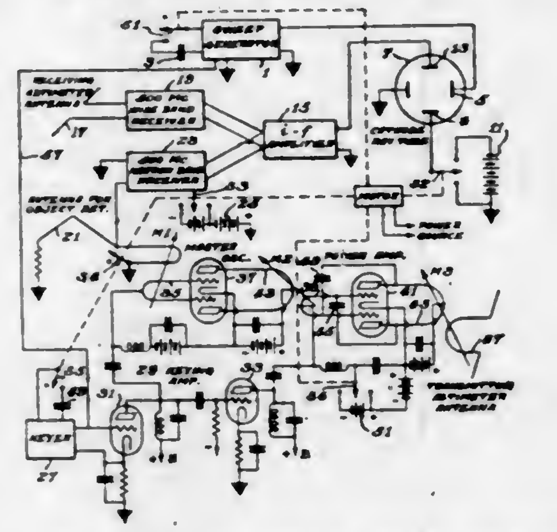
1. A pulse-echo system for observing velocity and distance of objects along a course including means for directively radiating a pulse of radio-carrier frequency energy, means for receiving said pulse after reflection from said object, means for obtaining demodulation currents of a frequency equal to the difference in the carrier frequency of said radiated pulse and the carrier frequency of said received reflected pulse due to Doppler effect, means for analysing the energy distribution of said demodulation currents as a function of their frequency, means for indicating the time between said transmission and reception, and means for indicating the relative direction of said object as a function of said demodulation currents.

2,423,024
RADIO PULSE ALTIMETER AND OBJECT DETECTOR
William D. Hershberger, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 26, 1941, Serial No. 424,530
13 Claims. (Cl. 250—1.66)

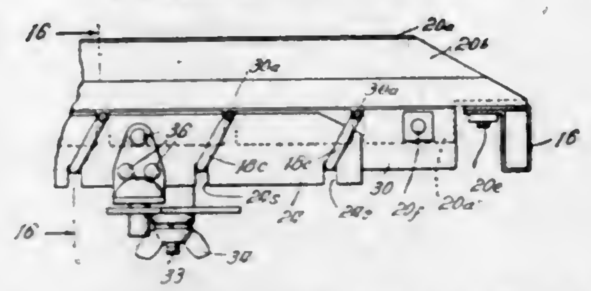


1. A radio pulse system for measuring altitude and for detecting objects including means for generating a pulse of radio frequency energy, means for radiating said pulse toward an object to be detected, means for receiving said pulse after reflection, an indicator connected to said receiving means for indicating the presence of the object by indicating the reception of said pulse, means for amplifying a portion of said generated pulse of radio frequency energy, means for radiating said amplified pulse toward the earth to measure altitude, means for receiving said amplified pulse after reflection from the earth, and means including said indicator for indicating distinctively the altitude by indicating the reception of said amplified pulse.

2,423,025
ALKAMINE ESTERS OF DIARYLPROPIONIC ACIDS
Roger B. Holmes, South River, N. J., and Arthur J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 31, 1942, Serial No. 437,021
10 Claims. (Cl. 260—469)

1. β-diethylaminoethyl β,β-diphenylpropionate.

2,423,026
ADJUSTABLE BAR, FRAME THRESHER SCREEN
William A. Holtzman, Peoria, Ill., assignor to Hart-Carter Company, Peoria, Ill., a corporation of Delaware
Application May 21, 1942, Serial No. 443,919
4 Claims. (Cl. 209—394)



1. In a thresher screen having side and end rails formed in hollow rectangular sections with

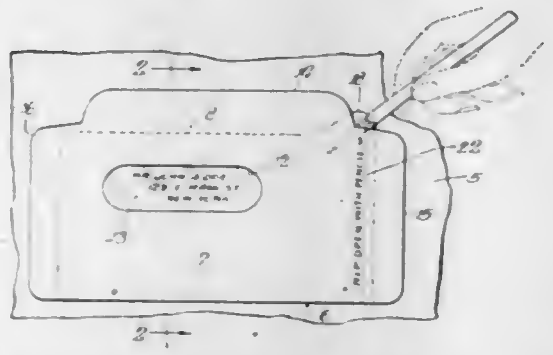
inwardly extending flanges, pivot sockets embossed in the flanges of the side rails, pivotally adjustable cross wires having adjustment cranks and mounted in the sockets, sieve slats mounted on the wires, a rail removably mounted on the frame for holding the cross wires and slats in operative position and for permitting their removal for replacement and repairs, an adjustment rack mounted in the cranks of the cross wires, a control arm connected to the rack, and adjustable anchor means mounted on the removable rail to hold the rack and slats in adjusted position, the arrangement providing adjustment mechanisms mounted on the removable rail independent of the frame to permit removal of the slats for replacement and repairs.

2,423,027
EXPRESS RECEIPT HOLDER

Alfred J. Hopkins, River Forest, Ill., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill., a corporation of Illinois

Application July 26, 1945, Serial No. 607,245

2 Claims. (Cl. 229—72)



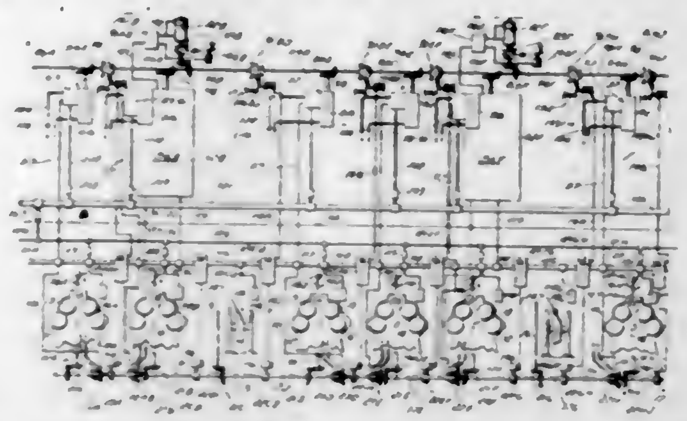
1. An envelope type holder of the character described, comprising a single, generally rectangular sheet of fibrous material cut and folded along a medial line to provide a front wall and a rear wall each of generally rectangular shape, said front wall having marginal portions at its free edges extending beyond the corresponding marginal edges of the rear wall along the three edges constituting the free edge perimeter of the rear wall except for a relatively short distance at one free edge corner, said rear wall, at said corner, having a marginal part projecting outwardly beyond the front wall, the rear faces of said front wall marginal portions, except for a distance corresponding to said short distance at said corner, and the rear faces of the marginal edges of the rear wall about its perimeter including said projecting marginal part, being gummed for attachment to another object, said front wall having a weakened line extending a substantial distance from a point adjacent to said corner, along one of its marginal edges and inside of its gummed margin.

2,423,028
ELECTRIC CONTROLLER FOR MULTIUNIT MACHINES

Albert J. Horton, White Plains, and William C. Wieking, Woodhaven, N. Y., assignors to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application August 7, 1944, Serial No. 548,438

10 Claims. (Cl. 270—5)



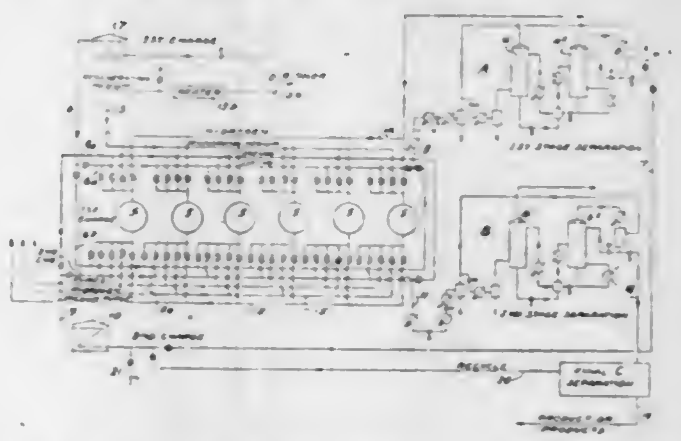
1. A control system for a printing machine comprising a plurality of printing units and folders connected to a drive shaft, a first driving motor associated with one of the units and having gearing and connections to the drive shaft for driving the machine at slow speed and at running speeds, second driving motors for the remaining units having connections to the shaft for driving the machine at running speeds only; including a speed controller for each of the driving motors, a control cable section for each printing unit and for each folder, a sectionalizing switch for connecting the control cable section of each unit and each folder with the control cable section of an adjacent unit or folder, a control shaft for each speed controller, a pilot motor connected to one of the control shafts, couplings to connect the several control shafts together, a master panel associated with the speed controller for the first driving motor to control the pilot motor and thereby operate all of the speed controllers, first actuating the first driving motor to operate the machine at slow speed, and subsequently actuating all of the motors to accelerate the machine and drive it at high speed, the pilot motor being reversely operable to decelerate the machine to an intermediate speed, and then again actuate the first driving motor to operate the machine at slow speed.

2,423,029
PROCESS FOR PRODUCING DIOLEFINS

Eugene J. Houdry, Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application July 18, 1942, Serial No. 451,413

6 Claims. (Cl. 260—680)



1. In effecting dehydrogenation of paraffinic and olefinic hydrocarbons to produce corresponding olefins and diolefins, respectively, the process comprising subjecting a paraffinic hydrocarbon of from four to five carbon atoms to dehydrogenation in the presence of a bed of dehydrogenation catalyst under conditions at which there is substantial and practically clean dehydrogenation of the same to the corresponding olefin, subjecting said bed of catalyst to a recurring cycle wherein it is alternately contacted with aliphatic hydrocarbon charge including said paraffin and regenerated by burning of deposit resulting from conversion of said charge, effecting the contacting portion of said cycle under conditions such that the catalyst bed supplies heat of conversion

of said charge with resultant progressive decrease in catalyst temperature within a range throughout which there is substantial dehydrogenation of said charge and the regenerative portion of the cycle under conditions such that the heat resulting from burning of said deposit is retained by said catalyst bed with resultant increase of its temperature substantially equal to its aforesaid temperature decrease, feeding during the contacting portion of the cycle in addition to the aforesaid paraffin an olefin of the same number of carbon atoms which is dehydrogenated in the presence of said catalyst and within the temperature range of said cycle to produce in addition to the corresponding diolefin coky deposit in excess of the amount which restores to the catalyst bed during its regeneration the heat absorbed by conversion of said olefin, and so controlling the proportion of olefin to paraffin feed that the total coky deposit produces upon burning and stores within the catalyst bed substantially the quantity of heat released by the same to conversion of the total charge.

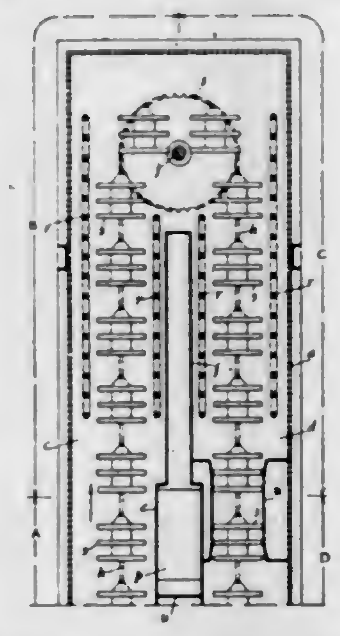
2,423,030
ELEVATOR TYPE MEANS FOR DRYING CERAMIC WARE

John Arthur Johnson, Brown Edge, Stoke-on-Trent, England

Application February 15, 1945, Serial No. 578,092

In Great Britain February 16, 1944

2 Claims. (Cl. 34—189)



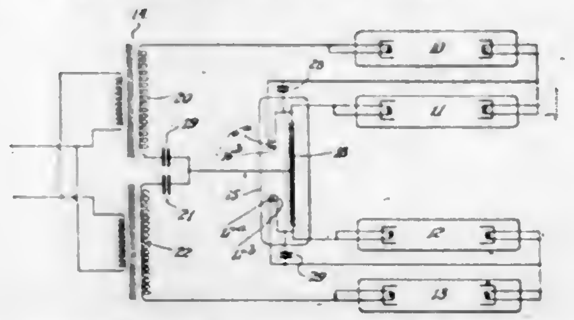
1. Means for drying ceramic ware, comprising in combination a vertical chamber, a hollow bi-compartmental partition consisting of upper and lower parts arranged in the chamber and dividing the latter into two compartments which intercommunicate at their upper ends, and which form with the hollow partition an air circulating path within the chamber, the lower part of the partition being provided with an air inlet, and the upper part being provided with an air outlet, an endless conveyor having ascending and descending parts respectively situated in the two compartments, and means communicating with the air inlet and outlet of the partition for causing heated air to flow through the upper part of the partition to the compartment containing the descending part of the conveyor, from this compartment to and downwardly through the other compartment, and from the latter compartment into the lower part of the partition, the upper part of the partition being provided at the side adjacent to the compartment containing the descending part of the conveyor with air outlet openings, and the lower part of the partition being formed at the opposite side with air inlet openings.

2,423,031
FLUORESCENT GASEOUS DISCHARGE LAMP SYSTEM AND THERMAL STARTING SWITCH

Jacob Kurtz, Teaneck, N. J., James Waldie, New York, N. Y., and Joseph Spina, Cliffside Park, N. J., assignors to Callite Tungsten Corporation, Union City, N. J., a corporation of Delaware

Application June 4, 1942, Serial No. 445,734

5 Claims. (Cl. 315—245)



1. In combination, a transformer having a primary and secondary windings, four gaseous discharge lamps, a thermostatic switch having a heating coil, divided into two halves, and two pairs of bimetallic contacts controlled by the two halves of the heating coil, respectively, a circuit including in series the secondary winding, two lamps, a condenser, and one half of the heating coil, a short circuit across one of the last mentioned two lamps over the bimetallic contacts adjacent said one half of the heating coil, a second circuit including in series the second secondary winding, the two other lamps, a condenser and the other half of the heating coil, and a short-circuit across one of the two last mentioned lamps over the bimetallic contacts controlled by the last mentioned half of the heating coil.

2,423,032
RECLAIMING SYNTHETIC RUBBER WITH AN AMINE

Rée Vilma le Beau, Cambridge, Mass., assignor, by mesne assignments, to Midwest Rubber Reclaiming Company, East St. Louis, Ill., a corporation of Delaware

No Drawing. Application January 9, 1943, Serial No. 471,882

12 Claims. (Cl. 260—36)

2. The process of reclaiming a vulcanized rubbery polymer selected from the group consisting of choroprene polymers and butadiene 1, 3, polymers and mixtures thereof comprising subjecting a mixture of the vulcanized rubbery polymer with a mono-amino compound which is ammonia having at least one hydrogen thereof replaced by a monovalent hydrocarbon radical to live steam.

2,423,033
RECLAIMING SYNTHETIC RUBBERS WITH A FATTY ACID AND LIVE STEAM

Rée Vilma le Beau, Cambridge, Mass., assignor, by mesne assignments, to Midwest Rubber Reclaiming Company, East St. Louis, Ill., a corporation of Delaware

No Drawing. Application July 24, 1944, Serial No. 546,428

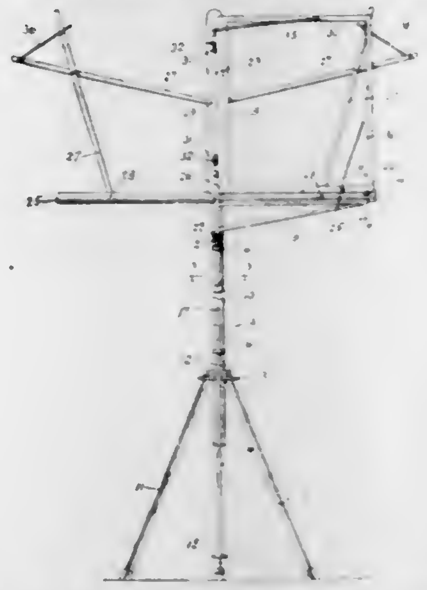
7 Claims. (Cl. 260—23)

1. That step in the manufacture of reclaimed previously vulcanized rubbery synthetic polymers

selected from the group consisting of polymers and copolymers of butadiene and chloroprene polymers and mixtures thereof which comprises heating such materials by contact with live steam in the presence of three to thirty-five percent of a saturated fatty acid having from six to eighteen carbon atoms and which does not contain hydroxyl groups in the chain other than in the carboxyl groups and a solvent for the acid which swells the rubber.

2,423,034
CONVERTIBLE MUSIC STAND

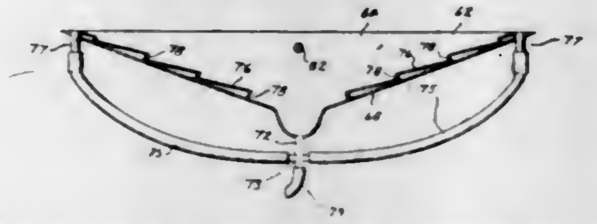
Rayford Lisenbee, Winona, Miss.
Application May 31, 1944, Serial No. 538,143
1 Claim. (Cl. 84—500)



A stand of the kind described, comprising a tubular supporting fixture having a flat faced attaching ear formed thereon at an angle thereto, a coupling stud on the fixture, a foldable sheet rack fixture having a keeper on the rear thereof which is separably engaged by the attaching ear on the coupling stud, an open frame hinged central to the rack fixture, for sheet turning, tensioning means acting on the frame for moving the same from one side of the rack fixture to the other side thereof, a foot treadle operated latch comprising a vertical rod formed with a laterally directed triangular shaped latching arm, the outer free end of which is provided with an upstanding latching tip movably fitted with the fixtures for engaging and releasing this frame when under tension at one side of the rack fixture, means for limiting the movement of the latch relative to the frame, sheet clips carried by the foldable legs on the supporting fixture, a bracket on the lower end of said fixture, to which said legs are pivotally connected rack fixture and frame, respectively, and means for urging the latch in latching position with respect to the frame.

2,423,035
FRUIT JUICE CONCENTRATOR

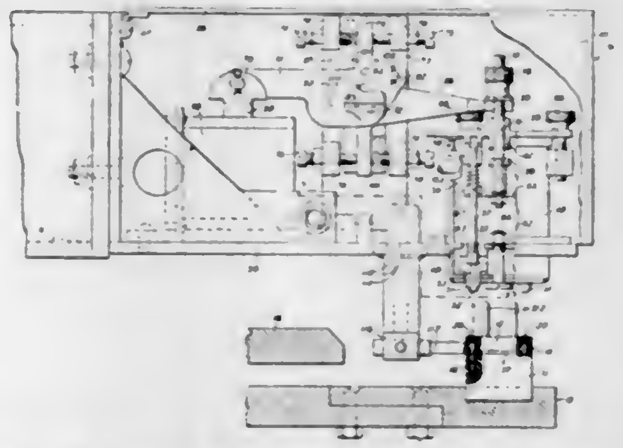
Juan Draghi Lucero, Mendoza, Argentina
Application January 14, 1946, Serial No. 641,142
2 Claims. (Cl. 159—37)



1. An apparatus of the type described, comprising a body, means for agitating the body, a steam chamber in said body, outlet and inlet means for said chamber, a discharge trough and outlet for said body, a corrugated plate in said body to receive a liquid thereon to be concentrated by the action of steam thereon, and stepped baffle plates on the bottom of said body.

2,423,036
ASSEMBLING MACHINE

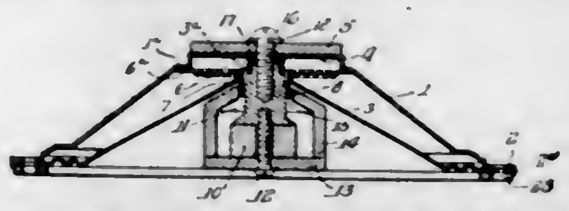
Nelson H. Mageoch, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 25, 1944, Serial No. 546,561
5 Claims. (Cl. 91—44)



5. In an assembling machine, a continuously rotatable support having a circular portion adjacent its periphery to support units formed of casings and covers therefor joined by threaded members disposed in apertures of the casings and covers, and to move them in a circular path, spacing members on the support adjacent the periphery thereof to space the units like distances apart, a container for a sealing material, a nozzle disposed over the path of the threaded members, a valve normally closing the nozzle operable into open position, a solenoid energizable to operate the valve to successively free quantities of the material to pass through the nozzle and into the apertures of the cover over the threaded members, and a switch in an electrical circuit, including the solenoid, successively actuated into closed position by the units.

2,423,037
ELECTRODYNAMIC LOUD-SPEAKER

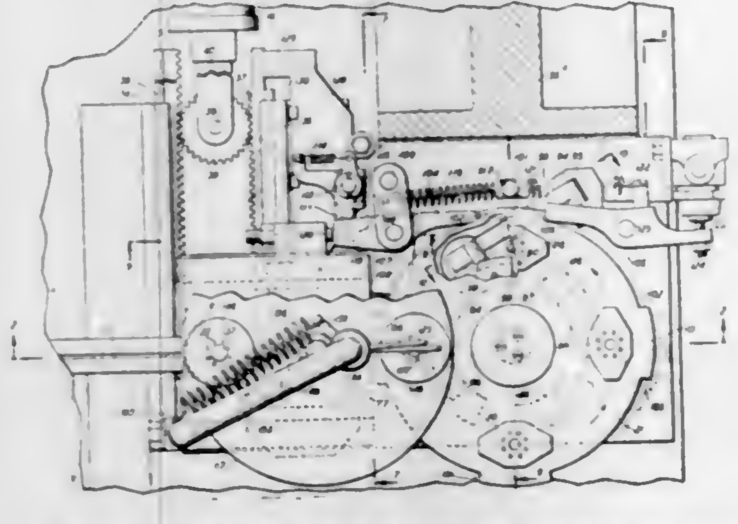
John F. Marquis and Carleton T. Weibler, St. Charles, Ill., assignors to Operadio Manufacturing Co., St. Charles, Ill., a corporation of Illinois
Application November 3, 1944, Serial No. 561,776
4 Claims. (Cl. 179—115.5)



1. A loud speaker comprising a rigid unitary supporting housing having the general outline of the frustum of a cone, said housing having a wall at the small end and having accurately finished supporting means at said wall, a sub-assembly comprising a voice coil support, speaker diaphragm and cylindrical voice coil, said speaker diaphragm being of the conical type with the small end joined to said voice coil, means for securing the large end of said speaker diaphragm to the large end of said housing, means for securing said voice coil support to the housing in an accurate position with respect to the finished supporting means of said housing wall to accurately pre-position said voice coil, a two-piece field structure comprising an axial pole piece and annular pole piece, said two pole pieces having accurately finished surfaces defining an annular air gap adjacent one end of said axial pole piece, means for rigidly supporting said annular pole piece solely from said axial pole piece at the other end of said axial pole piece, said axial pole piece having the one end thereof accurately finished to cooperate with the finished supporting means at said housing wall and means for rigidly supporting said axial pole piece at said one end only from said housing wall, said field structure being adapted to be symmetrically disposed within the space enclosed by said housing with the accurately finished housing part and axial pole end cooperating to provide an inverted dynamic speaker assembled in preadjusted centered relation.

2,423,038
ASSEMBLING APPARATUS

Harry H. Merwin, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 10, 1944, Serial No. 534,967
9 Claims. (Cl. 218—0.5)

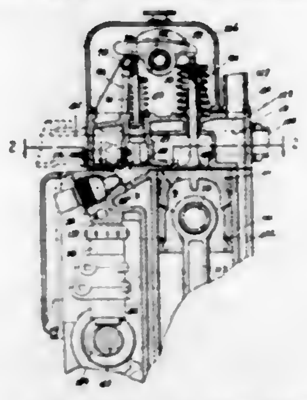


1. In an assembling apparatus, means to supply terminals, an element rotatable relative to the supply means formed to successively receive groups of the terminals therefrom and maintain them in a given spacing, a dial rotatable intermittently relative to a receiving station, holders for successively receiving the groups of terminals in the given spacing, carried by the dial, a transfer unit, means to move the unit relative to the element to cause the unit to remove the group of terminals therefrom, and means to rotate the unit a given distance to transfer the said group of terminals to the receiving station.

2,423,039
DIFFERENTIAL CONVERTIBLE GASOLINE-DIESEL ENGINE

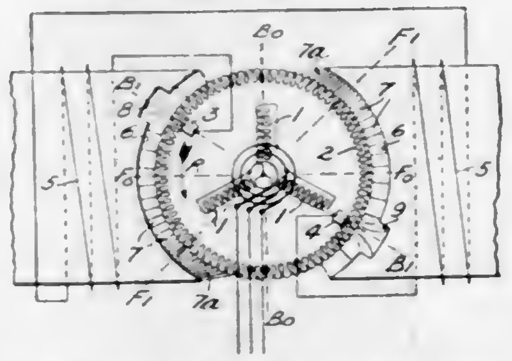
Lauritz N. Miller, Eugene, Oreg.
Original application March 31, 1938, Serial No. 199,210. Divided and this application March 21, 1942, Serial No. 435,730
2 Claims. (Cl. 123—32)

1. In a Diesel engine having a cylinder bore with a piston therein, a fuel receiving chamber adjacent thereto, passage means therebetween, island means in said passage means, and fuel injection means in the chamber, the chamber having a face inclined away from the bore and passage means, and another face angular to the first face, the fuel injection means being in the second mentioned face and discharging toward the passage means and island means, the fuel injection means having a longitudinal axis substantially parallel to the first mentioned face and located in the lower portion of the second mentioned face of the chamber.



2,423,040
DYNAMOELECTRIC MACHINE

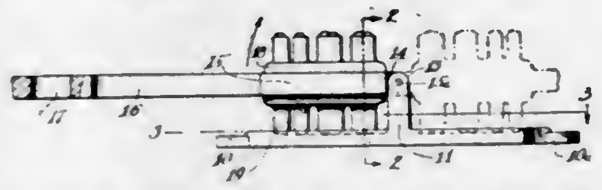
Cecil William Haviland Minchin and Arthur James Parsons, Dursley, England, assignors to Mawdsley's Limited, Dursley, England, a company of Great Britain
Application October 3, 1944, Serial No. 556,960
In Great Britain October 7, 1943
5 Claims. (Cl. 171—241)



1. A self-excited alternator comprising a fixed field magnet system, a direct current exciting winding therefor, an armature mounted to rotate between the poles of the field magnet system, an alternating current winding on the armature, slip rings to which said winding is connected, a direct current winding on the armature, a commutator to which said winding is connected, brushes on the commutator connected to the exciting winding a brush being movable and set away from the neutral brush axis in a predetermined optimum position for the purpose of enabling the alternating current armature reaction suitably to vary the direct current voltage as the alternating current load on the machine increases, and a greater air gap between a pole face and the armature where the direct current conductors are under commutation.

2,423,041
DENTAL CROWN CAP PRESS

Anton F. Miskunas, Chicago, Ill.
Application March 15, 1946, Serial No. 654,581
3 Claims. (Cl. 113—39)



1. A dental crown cap press comprising an elongated base with a standard in the center, the

top surface of the base on one side of the standard having a series of indentations corresponding in formation to crown caps for upper teeth and on the other side a series of indentations corresponding in formation to crown caps for lower teeth, and a member connected to the standard for movement in the direction of either series of indentations, such member presenting punches in either case matching and directed toward the related indentations.

2,423,042

POLYMERIZABLE MIXED ESTER OF AN UNSATURATED POLYCARBOXYLIC ACID, PHTHALIC ACID, AND A LOWER ALIPHATIC GLYCOL

Irving E. Muskat, Plainfield, N. J., assignor to Marco Chemicals, Inc., Sewaren, N. J., a corporation of New Jersey

No Drawing. Application November 17, 1943, Serial No. 510,664

7 Claims. (Cl. 260—75)

1. The polymerizable mixed ester of an unsaturated, alpha beta polycarboxylic acid and about 0.05 to 0.35 mole of phthalic acid and about 0.5 to 1.5 moles of ethylene glycol per mole of said unsaturated acid.

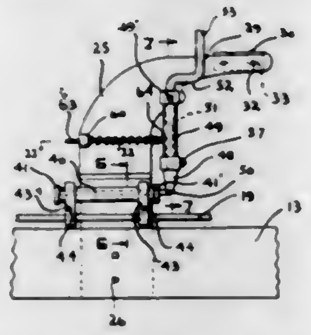
2,423,043

CLUTCH CONTROL

Calmer Olstad, Nerstrand, Minn.

Application September 14, 1945, Serial No. 616,235

4 Claims. (Cl. 74—481)



1. In a control device of the character described, a frame, a control rod, a sleeve having an end cap secured to said control rod, an actuating rod in said sleeve adapted to abut said end cap, a lever pivotally secured to said actuating rod, a bracket secured to said frame, spring means between said bracket and said lever, and latch means for said lever carried by said bracket.

2,423,044

ARYL POLYMERCURY NAPHTHENATES AND THEIR PRODUCTION

Milton Nowak, Brooklyn, N. Y., assignor to Nuodex Products Co., Inc., Elizabeth, N. J., a corporation of New York

No Drawing. Application March 23, 1945, Serial No. 584,492

4 Claims. (Cl. 260—434)

1. A new compound having the formula $R(Hg)_m(X)_n$: wherein X represents naphthenic acid, R represents an aryl group, one valence of each mercury (Hg) atom being attached directly to a carbon atom of the aryl group, the other valence of each mercury atom being linked to one mol of the naphthenic acid by replacement of the acidic hydrogen of the acid, m represents the entire number of mercury atoms within the range 2 to 5, both inclusive, and n represents an equal number of mols of naphthenic acid.

2,423,045

LIQUID PHASE CATALYTIC REACTIONS OF HYDROCARBONS

Herbert J. Passino, Englewood, and John S. Rearick, Short Hills, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application September 4, 1943, Serial No. 501,338

19 Claims. (Cl. 196—54)

12. A method for carrying out liquid phase catalytic hydrocarbon reactions involving the use of an aluminum halide catalyst which comprises dissolving said hydrocarbon reactants and aluminum halide in a normally liquid solvent consisting essentially of substantially completely halogenated hydrocarbons containing at most minor proportions of halogen atoms other than fluorine and less than two weight per cent of hydrogen, and maintaining said solution at suitable reaction conditions for a time effective to complete the desired catalytic reaction.

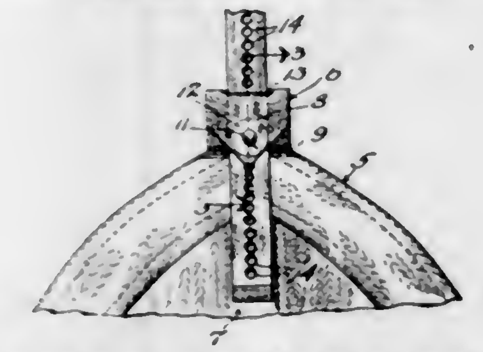
2,423,046

GARMENT SHOULDER STRAP AND FASTENING MEANS THEREFOR

Vivian Airhart Patterson, Opelousas, La.

Application June 13, 1945, Serial No. 599,236

3 Claims. (Cl. 2—42)



3. In a garment shoulder strap and adjustable fastening means for the free end portion of said shoulder strap, in combination, a garment, a shoulder strap adapted to be permanently secured at one end to a predetermined part of said garment, a tab secured at one of its ends to said garment, said tab being folded upon itself transversely at a point between its opposite ends and defining a strap loop, the folded portion of said loop being provided with a slot, the free end of said shoulder strap extending slidably through said slot and being slidably shiftable between the end portions of said looped tab, connecting snap-fasteners mounted on the respective end portions of said tab and separately connecting said end portions together, said free end portion being adjustably connectable with said snap-fasteners, this by way of longitudinally spaced button-holes provided in said free end portion.

2,423,047

TRACTOR OPERATED LOG AND TREE SAW

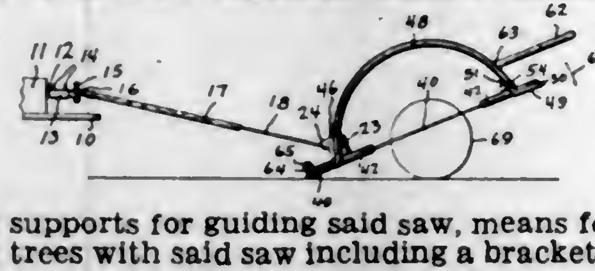
August F. Pfingsten, Rock Rapids, Iowa

Application June 18, 1945, Serial No. 600,026

1 Claim. (Cl. 143—19)

A tractor operated saw comprising an arcuate frame-work for receiving a log therein, said frame-work including a pair of rotatable pulleys journaled one at each end thereof, a band saw engaged with said pulleys, means for driving one of said pulleys from a tractor power take-off shaft, including a drive shaft connected to said power take-off shaft, said drive shaft including mutually attached sections permitting longitudinal movement of the drive shaft, said drive shaft including universal joints at the terminals

thereof for permitting desired pivotal movement of the saw, a casing positioned above one of said pulleys, a bevel gear attached at a terminal of said drive shaft, a further beveled gear meshing with said bevel gear, one of said band saw pulleys being driven by said further bevel gear, a clutch member interposed between said further bevel gear and said pulley, said frame including a part of arcuate supports, handles attached to said supports for guiding said saw, means for cutting trees with said saw including a bracket member attached to the tractor draw bar, an extensible vertical rod attached to said bracket, a pair of eye-bolts attached to the saw frame for receiving said vertical rod, whereby said saw will be positioned on its side to cut through a vertical tree.



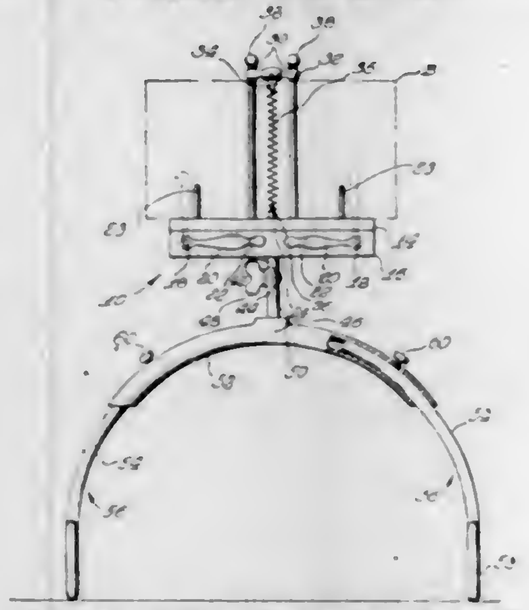
2,423,048

BOOKHOLDER

Anthony Poch, Fernie, British Columbia, Canada

Application November 14, 1945, Serial No. 628,407

3 Claims. (Cl. 45—82)



1. A device of the character described, comprising an elongated base having a bevelled portion interposed between a depending portion and a horizontal base portion, marginal page holders pivotally mounted on said depending portion, oppositely and parallelly spaced groups of upstanding posts on said horizontal base portion, a semi-circular projection formed on the rear of said horizontal base portion, upstanding book supports secured to said projection, a book retainer slidably mounted on said supports having a depending pin in alignment wtih an upstanding pin secured to said horizontal base portion, said depending pin and said upstanding pin adapted to be positioned in the break of a book supported on said horizontal base portion and means for supporting said base in an elevated position from the floor.

2,423,049

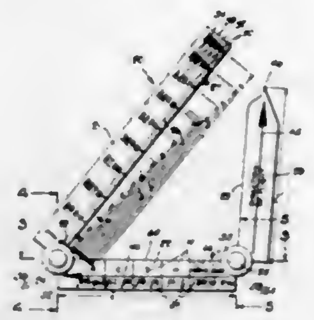
ANGLE-MEASURING INSTRUMENT

John P. Putnam, Boston, Mass., assignor to The Reece Corporation, a corporation of Maine

Application May 8, 1945, Serial No. 592,565

5 Claims. (Cl. 33—98)

4. An angle-measuring instrument having three linear elements pivotally connected end-to-end so as to be foldable, one of the outer elements having graduations spaced from its pivoted end in chord lengths subtending different arcs of a quadrant of a circle and being marked, in four separate groups, in degrees azimuth of the angles subtended by said arcs in the four compass quadrants, respectively, of said circle, the intermediate element bearing a longitudinal arrow pointing toward the pivot connection with said one element, the cardinal compass points N, E, S and W and, grouped with said points, the angular degree ranges 0–90, 90–180, 180–270 and 270–360, respectively, and the two non-graduated elements being each of a length equal to the radius of said circle.



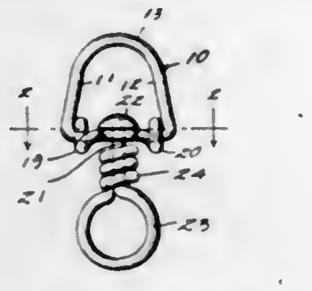
2,423,050

WIRE SWIVEL

Raymond R. Rundell, Miami, Fla.

Application June 19, 1944, Serial No. 541,070

3 Claims. (Cl. 59—95)



1. A wire swivel comprising a U-shaped member, oppositely extending overlapping extensions carried by the free ends of said member, said extensions including complementary intermediate arcuate eye forming members, and a locking eye carried by one extension disposed at substantially right angles relative thereto and engaging about the other extension whereby said extensions are locked to each other, and a headed shaft swivelly engaging in the eye formed by said arcuate eye forming members.

2,423,051

SELENIUM DEPOSITING MACHINE

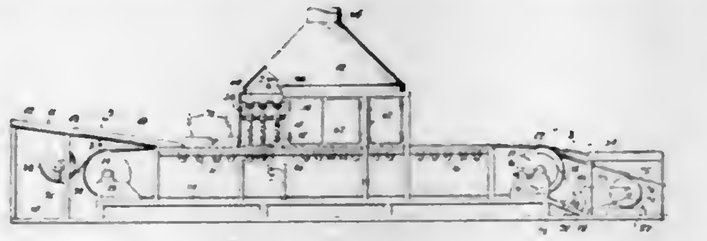
Cleveland Scudder Smith, Jr., West Orange, N. J., and Sol Blumenthal, Indianapolis, Ind.; said Smith assignor to Samuel Ruben, New Rochelle, N. Y., and said Blumenthal assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application September 5, 1945, Serial No. 614,517

14 Claims. (Cl. 91—12.2)

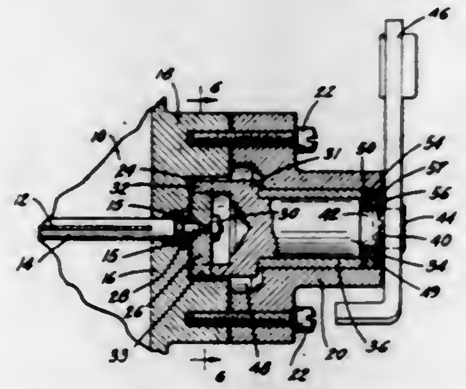
14. A machine for depositing a layer of material on a succession of base members, comprising a belt conveyor for advancing said base members, means driving said conveyor, means for adjusting the speed of said conveyor, a roll of web material, means mounting said roll to feed said web along said belt, and a plurality of boilers spaced along the path of travel of said conveyor, said boilers having means to vaporize said material

and to discharge the vapors onto the base member on said conveyor, means discharging said base members with said web after passage beneath said boilers, and feed means comprising a hopper and a screw conveyor extending along the top of each boiler to supply thereto material to be vaporized.



2,423,052
SEAL

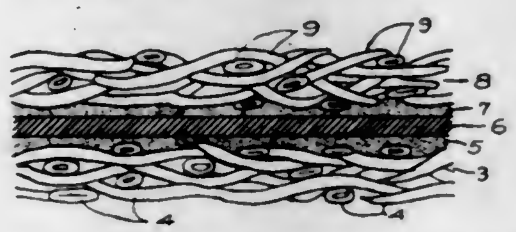
Robert W. Sloane, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 12, 1943, Serial No. 510,006
11 Claims. (Cl. 286—7)



10. In a driver assembly: a housing having a bore therein, an enlargement in said bore forming a fixed shoulder in said housing, a shaft rotatably mounted in the bore and having a shoulder spaced longitudinally relative to the fixed shoulder and within the smaller portion of said bore, a thin resilient seal engaging the shoulders, and resilient means to press said seal into sealing engagement with said shoulders.

2,423,053
LAMINATED PAPER PRODUCT

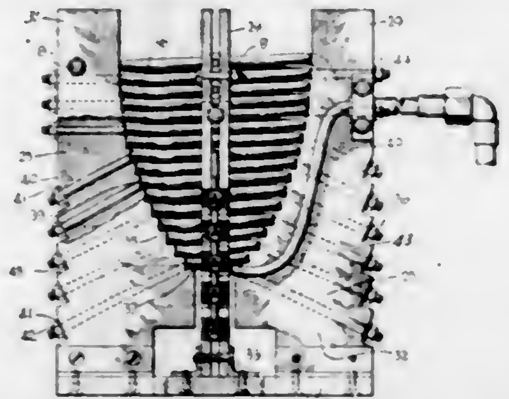
Raymond A. Steffen, Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application August 2, 1944, Serial No. 547,809
5 Claims. (Cl. 154—50)



1. In a laminated paper product comprising at least one fibrous paper layer and a layer of moistureproofing material containing a modicum of free oily material, a layer of paper coating composition composed primarily of adhesive and mineral filler in proportion to render said layer more oil-absorbent than said paper layer, separating said moistureproofing layer from said fibrous paper layer.

2,423,054
SUPPORT FOR INDUCTION HEATING COILS

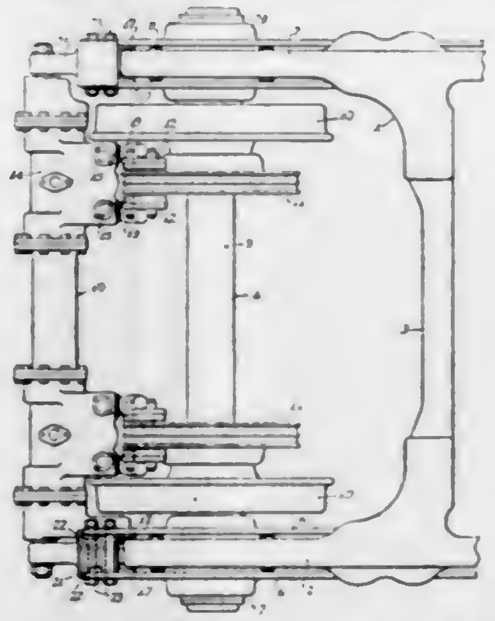
Harold A. Strickland, Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 1, 1943, Serial No. 500,772
2 Claims. (Cl. 219—13)



1. In a heating apparatus, a base, a heating coil, right angled support plates extending radially from a common center on said base for supporting said coil, said plates being in pairs and having their inner edges stepped for the reception of the individual coil turns, and means for fixedly holding said turns in position in said steps, said holding means comprising bolts positioned between said plates and secured to individual coil turns at one end and to the outer edges of the pairs of supporting plates at the other end, the point of plate edge attachment for the most of the bolts being below the plane of the respective associated coil turn.

2,423,055
BRAKE MOUNTING

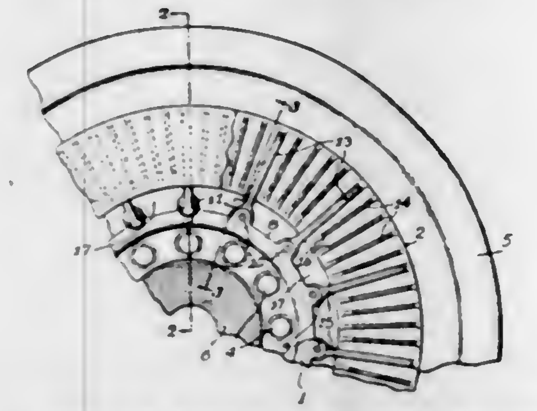
John P. Tarbox, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 14, 1944, Serial No. 568,097
3 Claims. (Cl. 188—59)



1. In a brake arrangement, a wheel and axle assembly, equalizers supported from the opposite ends thereof and having end extensions beyond their points of support on said assembly, a rotary brake disc secured to said assembly, brake shoes in cooperative relation to said disc and operating means therefor, and a transversely extending brake support member carrying said shoes and their operating means and arranged wholly outwardly of said assembly, and connected by articulated joints to the end extensions of said equalizers, the shoes being supported from said members in offset relation toward the axle of said assembly whereby a braking torque is developed in said member per se, the joints being arranged to wholly counteract said developed braking torque yet to permit free relative oscillation of said equalizers.

2,423,056
BRAKE ROTOR

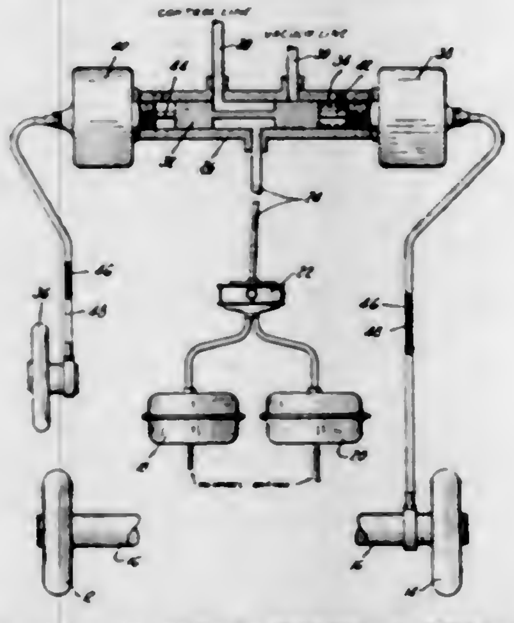
John P. Tarbox, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 1, 1945, Serial No. 580,336
3 Claims. (Cl. 188—218)



1. A combined brake rotor and blower comprising spaced annular plate members joined together at circumferentially spaced points by generally radially extending braces, at least certain of said braces having inward extensions terminating inwardly of the plate members in circumferentially spaced bulbous extremities, all said parts forming an integral casting, and a support member having a peripheral portion having generally radially extending faces cast into said bulbous extremities.

2,423,057
AUTOMATIC BRAKE CONTROL

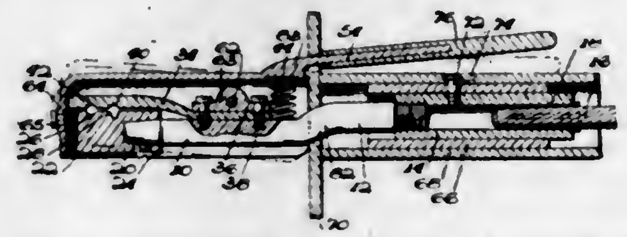
Thomas H. Thomas and Earl R. Price, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 29, 1944, Serial No. 537,862
3 Claims. (Cl. 188—181)



1. For use in a vehicle having a fluid pressure braking system including brake applying means, an operator operated control for the same, and a conduit interconnecting the operator operated control and the brake applying means, means for automatically restricting the brake application to overcome wheel sliding comprising valve means interposed in the conduit for regulating brake applying pressure, said valve means being normally positioned so as not to interfere with control of the brake applying means by the operator, but being movable to a position in which it causes reduction of the brake applying pressure regardless of the operator's actions, resilient means normally retaining the valve means in non-interfering position, a centrifugal governor rotating at a speed proportional to that of a braked wheel and tending to hold the valve in non-interfering position with the force developed, and a second centrifugal governor rotating at a speed proportional to that of a free-running wheel and tending to move the valve into brake pressure reducing position, the brake applying pressure being reduced whenever a predetermined differential develops between the speeds of the free-running and braked wheels.

2,423,058
ELECTRODE HOLDER

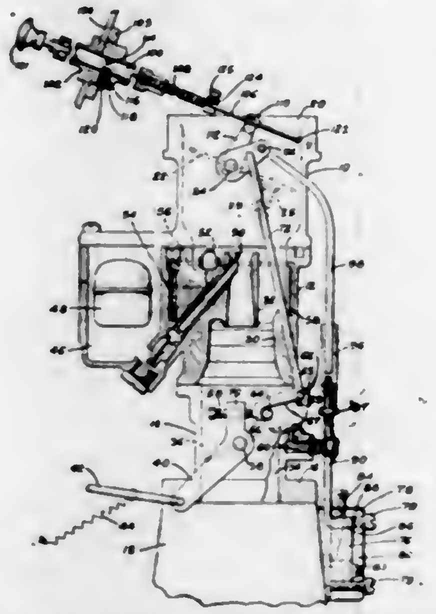
Frank G. Van Dyke, Detroit, Mich.
Application September 30, 1943, Serial No. 504,481
7 Claims. (Cl. 219—8)



1. In an electrode holder the combination of pivoted male and enclosing female rod gripping jaws, an opening through the wall of the female jaw receiving the electrode rod, and spring tension means tending to close said jaws.

2,423,059
CARBURETOR

Albert H. Winkler, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 18, 1943, Serial No. 476,263
7 Claims. (Cl. 123—119)



1. In an internal combustion engine carburetor having an induction passage: an unbalanced choke valve in said passage; temperature responsive means for controlling the opening of the choke valve, said temperature responsive means being located adjacent a source of engine heat; means limiting valve closing movement of the temperature responsive means for preventing

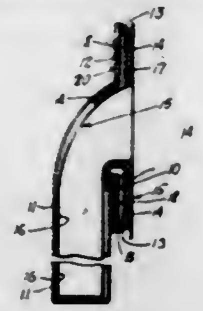
same from fully closing the choke valve; a one-way connection between the temperature responsive means and choke valve whereby the latter may be fully closed without disturbing the position of the temperature responsive means; and manual means adapted to control the choke valve irrespective of the force exerted thereon by the temperature responsive means.

2,423,060
COLOSTOMY APPLIANCE

Henry C. Zaro, New York, N. Y.

Application December 17, 1943, Serial No. 514,643

2 Claims. (Cl. 128—283)



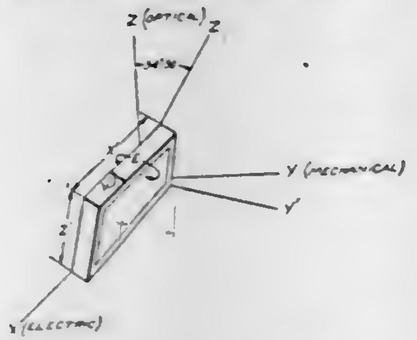
1. A colostomy appliance comprising a holder having an opening, a receptacle secured to said holder and depending from said opening, a replaceable receptacle having a flat collar surrounding an opening, and having an excrement receiving bag depending from said latter opening through said first opening into said first receptacle, an absorbent pad having an opening and having a flat part surrounding said latter opening and being positioned between said holder and said collar and having a tubular part extending from said latter opening into said first receptacle, said pad being separated by said bag from any received excrement, and means supporting said holder and adapted to secure said appliance to the body of the wearer.

2,423,061
PIEZOELECTRIC DEVICE AND METHOD OF MANUFACTURE

Henry M. Bach, Lawrence, N. Y., assignor to Premier Crystal Laboratories, Inc., New York, N. Y., a corporation of New York

Application April 29, 1944, Serial No. 533,317

4 Claims. (Cl. 171—327)



1. The method of manufacturing piezo crystals for utilization mainly of the thickness shear mode of vibration which comprises cutting a crystal plate so that its surface of greatest area lies substantially parallel to the "X" axis of the mother crystal and inclined at an angle of between 33° and 36° with relation to the optical axis of the mother crystal as measured in a plane perpendicular to said surface, the X and Y' crystal dimensions being proportioned in the ratio of approximately 2.6 to 1, where X is the dimension along the electric axis, and Y' is the dimension along the axis perpendicular to said surface.

2,423,062
RESOLUTION OF α-HYDROXY-β:β-DIMETHYL-γ-BUTYROLACTONE

Franz Bergel, Aaron Cohen, Alexander Lang Morrison, and Albert Ronald Moss, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application September 30, 1944, Serial No. 556,656. In Great Britain October 1, 1943

11 Claims. (Cl. 260—344)

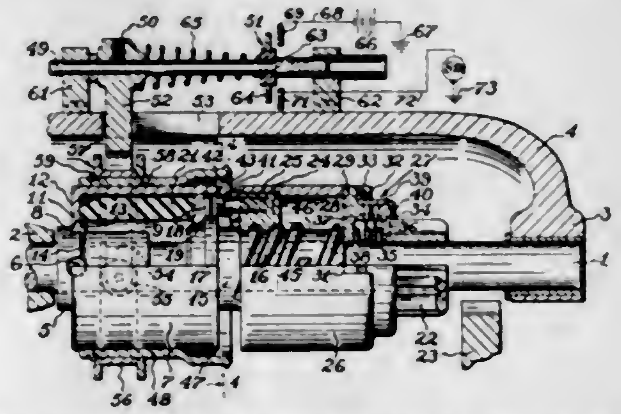
8. A process for the resolution of dl-alpha-hydroxy-beta:beta - dimethyl - gamma - butyrolactone, which comprises treating dl-alpha-hydroxybeta:beta-dimethyl-gamma - butyrolactone with chlorsulphonic acid to produce the hydrogen sulphate of said lactone, separating the d(—) and l(+) forms of said hydrogen sulphate in the form of their salts with an alkaloid selected from the group consisting of strychnine and brucine, and hydrolyzing the d(—)-alpha-hydroxy-beta:beta-dimethyl-gamma-butyrolactone from said alkaloid salt.

2,423,063
ENGINE STARTER

James E. Buxton, Elmira, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware

Application August 2, 1945, Serial No. 608,515

8 Claims. (Cl. 74—7)



1. In an engine starting mechanism, a motor shaft, an operating member mounted thereon to rotate therewith, an engine driving member slidably journalled on said shaft for movement into and out of engagement with a member of an engine to be started, means including a control member and a clutch between said operating and engine driving members for transmitting axial and rotational movement from the operating member to said engine driving member, releasable means on said control member for maintaining said engine driving member operatively connected with said engine member and means under the control of the operator for confining said releasable means.

2,423,064
RADIO DIRECTION FINDING EQUIPMENT

Charles William Earp, Ivor Reginald John James, and Richard Francis Cleaver, London W. C. 2, England, assignors to Standard Telephones and Cables Limited, London, England, a British company

Application November 23, 1942, Serial No. 466,654

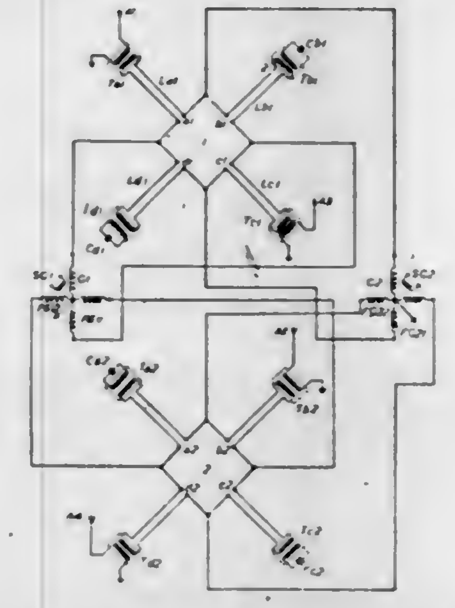
In Great Britain February 9, 1940

Section 1, Public Law 690, August 8, 1946.

Patent expires February 9, 1960

7 Claims. (Cl. 250—11)

1. In a radio direction finding apparatus two spaced non-directional aerials, two direction-finding equipments, an impedance bridge, means for coupling one aerial to a first arm of said bridge, means for coupling the other aerial to a second opposite arm of said bridge, impedances in the third and fourth arms of said bridge of such kind and magnitude as to balance said bridge, a connection from one pair of opposite corners of said bridge to one said equipment and a connection from the other pair of opposite corners of said bridge to the other said equipment.

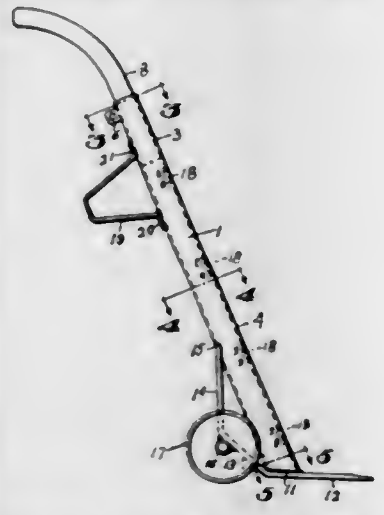


2,423,065
TWO-WHEEL WAREHOUSE TRUCK

Frank Garbarino, Waltham, Mass., assignor to Lewis-Shepard Company, Watertown, Mass., a corporation of Massachusetts

Application October 12, 1945, Serial No. 621,867

3 Claims. (Cl. 280—56)



1. A two-wheel warehouse truck comprising side rails having upper cylindrical handle sections respectively merging into longer main sections of elliptical transverse cross section in which the major diameter of said elliptical cross sections extends vertically when the side rails are in horizontal position and gradually and progressively increases from the handle sections to the lower ends of the side rails, said lower ends having flat surfaces in suitable angular relation to the longitudinal axis of the main side rail sections, a nose underlying and welded to said flat ends and extending forwardly therefrom and having integral angularly bent rearward extensions welded at their ends to the respectve side rails forming wheel hangers and suitably spaced cross bars having their ends welded to the respective side rails.

2,423,066
METAL-GLASS AND THE LIKE SEALS

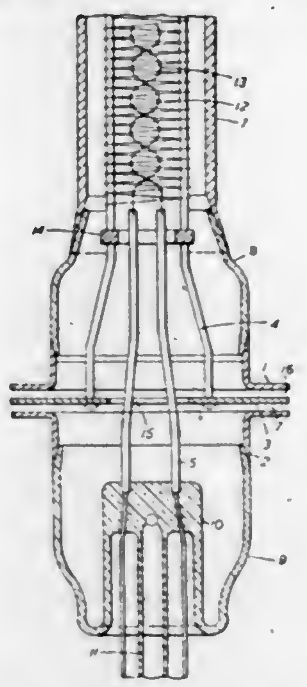
William Thomas Gibson, London, England, assignor to Standard Telephones and Cables Limited, London, England, a company of Great Britain

Application July 17, 1944, Serial No. 545,339

In Great Britain July 16, 1943

4 Claims. (Cl. 250—27.5)

(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



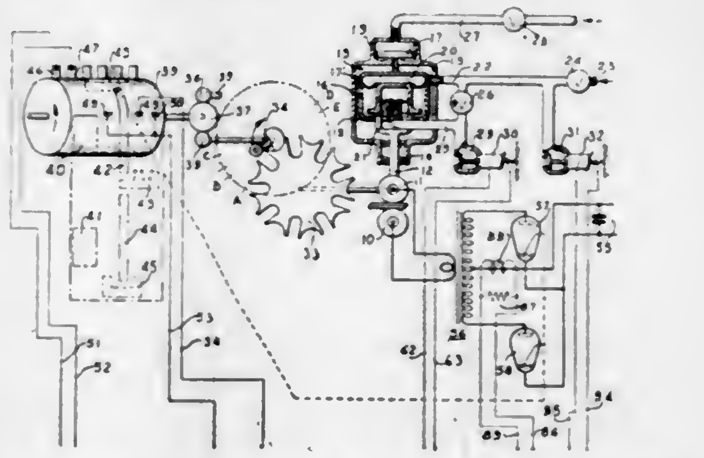
1. In an electron discharge tube of the type having an enclosing envelope comprising at least two tubular glass sections and an intervening tubular metal section, said intervening metal section being constituted of two tubular metal members each having a right-angled flange extending outwardly beyond the periphery thereof, said flanges having their external edges reversely bent and in overlapping relation relative to each other so as to provide only one exposed seam, said seam being sealed vacuum-tight.

2,423,067
WELDING APPARATUS

Hans H. Hansen and Clyde E. Smith, Warren, Ohio, assignors to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio

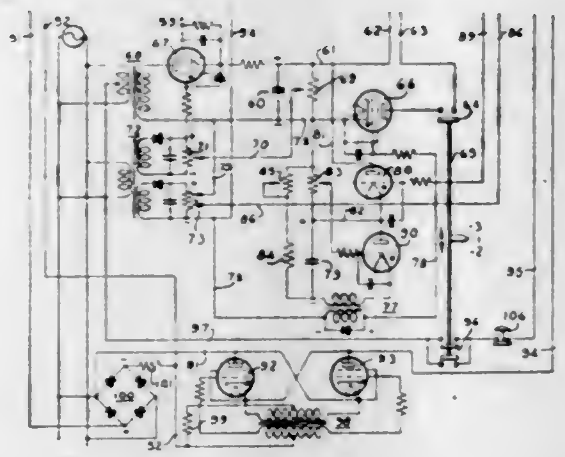
Application June 16, 1944, Serial No. 540,692

15 Claims. (Cl. 219—4)



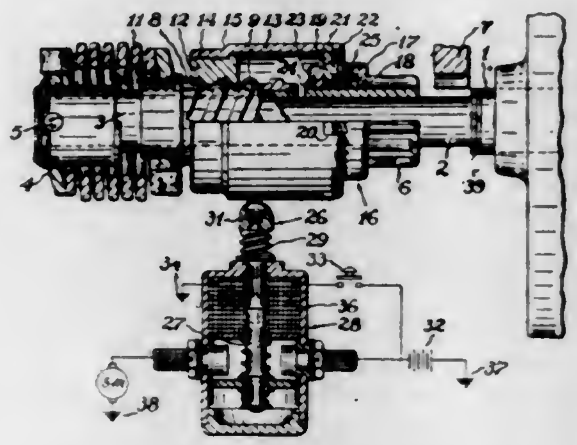
1. In electric resistance welding apparatus having a roller electrode, means to effect intermittent rolling movement of said electrode with respect to the work being welded, means to conduct welding current to said electrode at times intermediate the periods of said relative movement, and means

operable synchronously with said intermittent movement effecting means to apply welding force to said electrode during said times and to remove said force during said rolling movement.



2,423,068
ENGINE STARTER

Edwin Elliott Hood, Frank T. Christian, and James E. Buxton, Elmira, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 2, 1945, Serial No. 608,514
6 Claims. (Cl. 74—7)

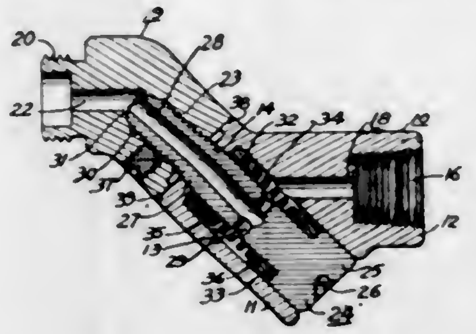


1. In an engine starter, a motor shaft, a pinion journalled thereon for traversal into and out of mesh with a gear on the engine to be started, means including an operating member driven from the motor shaft for actuating said pinion, said means further including a control member and a barrel forming an extension thereof having a circumferentially arranged shoulder, means including a clutch for connecting said control and pinion members, and means including a detent under the control of the operator cooperating with said shoulder for opposing demeshing of the pinion.

2,423,069
SWIVEL ATTACHMENT FOR COUPLERS

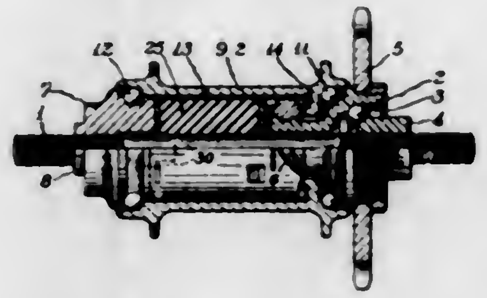
Robert T. McElhose and Richard R. Farrell, Oakmont, Pa., assignors to Universal Lubricating Systems, Inc., Oakmont, Pa.
Application February 13, 1945, Serial No. 577,703
7 Claims. (Cl. 285—96.3)

1. A swivel attachment for hydraulic lubricating systems or the like comprising a base having an inlet conduit formed therein, an angle cap having an outlet conduit formed therein, said base and said cap having juxtaposed serrated faces, means swivelably connecting said cap to said base, means for spring tensioning said cap against said base whereby the juxtaposed serrated faces yieldably lock said cap relative to said base, and means actuated by hydraulic pressure of fluid passing through said attachment for immovably locking said cap in predetermined position relative to said base.



2,423,070
COASTER BRAKE

Theo C. Sayles, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 9, 1945, Serial No. 577,065
11 Claims. (Cl. 192—6)



1. In a wheel hub brake, an axle, a driving member journaled thereon, an anchor member fixed on the axle in spaced relation to the driving member, a hub journaled on the driving and anchor members, an expansible brake member within the hub non-rotatably connected to the anchor member, a block of elastically deformable material within the brake member between the driving and anchor members, and means responsive to backward movement of the driving member for compressing the elastically deformable material axially so as to cause it to expand radially and press the brake member into frictional engagement with the interior of the hub.

2,423,071
ALICYCLIC GUANAMINES

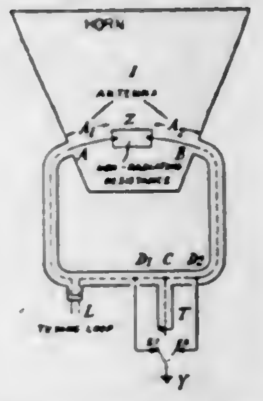
Jack Theo Thurston, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 30, 1941, Serial No. 409,146
8 Claims. (Cl. 260—249.5)

1. A method of preparing an alicyclic guanamine which comprises dissolving a biguanide and an ester of an alicyclic carboxylic acid in a common solvent whereby reaction and precipitation of the resultant guanamine is instituted, continuing the reaction until precipitation substantially ceases, and collecting the resultant guanamine.

3. A carboxy-endomethylene-tetrahydrobenzoguanamine.

2,423,072
ANTENNA SYSTEM

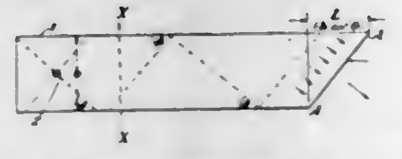
Eric Osborne Wilioughhby, London W. C. 2, England, assignor to Standard Telephones and Cables Limited, London, England, a British company
Application June 2, 1942, Serial No. 445,506
In Great Britain May 2, 1941
Section 1, Public Law 690, August 8, 1946.
Patent expires May 2, 1961
14 Claims. (Cl. 250—11)



1. An antenna system, the direction of whose principal radiation lobe can be varied comprising a reflector, a conductor antenna system located in front of said reflector, said antenna forming part of a circuit which can be tuned into resonance at the operating frequency, said circuit being coupled to a translation device, and means for varying the position of the centroid of current distribution in the conductor antenna in front of the reflector.

2,423,073
ELECTROMAGNETIC WAVE RADIATOR

Eric Osborne Willoughby, London W. C. 2, England, assignor to Standard Telephones and Cables Limited, London, England, a British company
Application September 9, 1942, Serial No. 457,796
In Great Britain June 13, 1941
5 Claims. (Cl. 250—11)



1. An antenna arrangement for plane polarised waves comprising a wave guide open at one end the open end forming substantially a plane which is arranged parallel to the direction of polarisation and at an angle θ to the longitudinal axis of the guide, such that $b \sin \theta = \lambda/2$, where b is the dimension between the sides of the guide perpendicular to the direction of polarisation and λ is the working wave length, whereby a substantially plane wave front is produced at said open end.

2,423,074
SOLUBLE COMPOUNDS OF RIBOFLAVIN AND PROCESS OF MANUFACTURE THEREOF

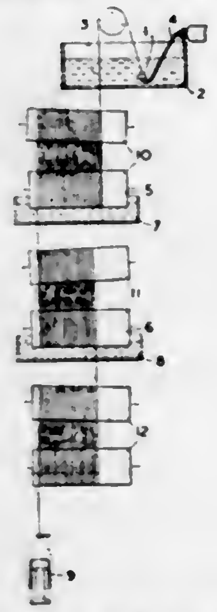
Margaret Rose Zentner, Newark, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application August 2, 1945, Serial No. 608,606
8 Claims. (Cl. 260—211)

1. A process of preparing a riboflavin modification, which comprises reacting in the presence of heat riboflavin with gallic acid in the presence of a dilute acid selected from the group consisting of sulphuric acid, phosphoric acid, and hydrochloric acid.

5. The product produced by the process of claim 1.

2,423,075
MANUFACTURE OF ALGINATE THREADS

Ronald Bertram Hall, Coventry, England, assignor to Courtaulds Limited, London, England, a company of Great Britain
Application September 13, 1943, Serial No. 502,227
In Great Britain September 1, 1942
3 Claims. (Cl. 18—54)



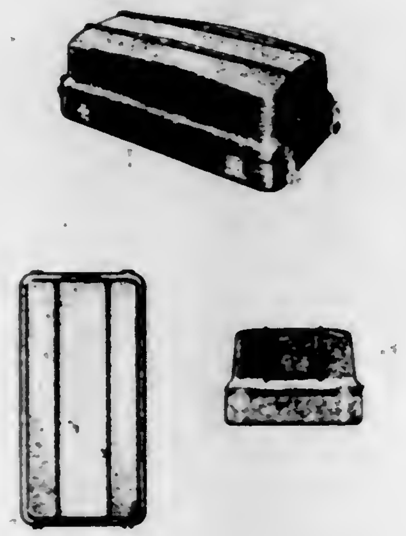
3. A process of producing alginate threads free from stuck filaments which using thread advancing helices which comprises extruding in the absence of oil an aqueous solution of alkali alginate into an oil free coagulating bath containing an aqueous solution of a salt of an alkaline earth metal, a mineral acid and of the order of about 0.1% of a wetting agent chosen from the group consisting of cationic and non-ionogenic wetting agents, passing the thread in the form of helices on to a thread-advancing device, treating the advancing thread with a neutral aqueous solution free from oil and containing a salt of an alkaline earth metal and of the order of about 0.1% of a wetting agent chosen from the group consisting of cationic and non-ionogenic wetting agents.

DESIGNS

JUNE 24, 1947

146,954
DESIGN FOR A RADIO CABINET OR THE LIKE

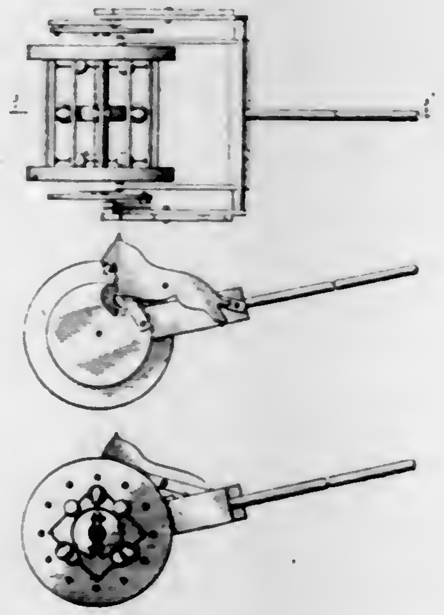
Donal G. Erskine, Baltimore County, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application March 11, 1946, Serial No. 127,324
Term of patent 3½ years
(Cl. D56—4)



The ornamental design for a radio cabinet or the like, as shown.

146,955
DESIGN FOR A TRUNDLE TOY

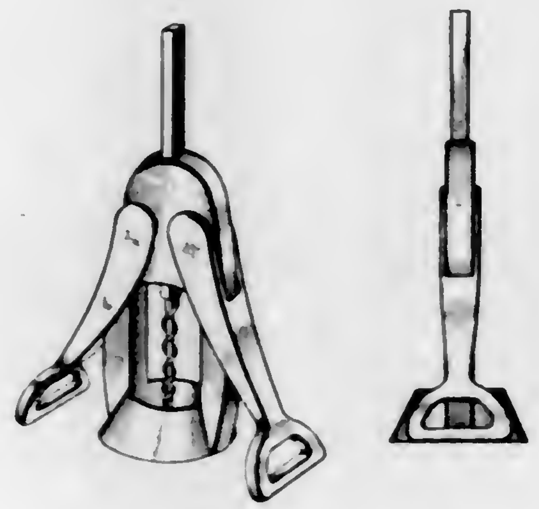
Jesse Hill, New York, N. Y.
Application April 19, 1946, Serial No. 128,771
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a trundle toy, as shown.

146,956
DESIGN FOR A CORKSCREW

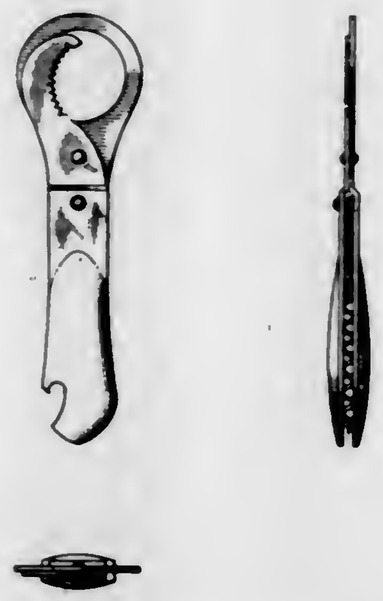
Henry C. Howells, Bethesda, Md., assignor to United States Industries, Incorporated, Washington, D. C., a corporation of Delaware
Application March 8, 1946, Serial No. 127,269
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a corkscrew, as shown.

146,957
DESIGN FOR A COMBINATION BOTTLE OPENER AND CORKSCREW

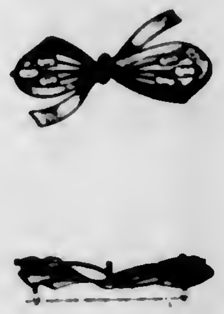
Max Kaderli, Old Greenwich, Conn.
Application January 10, 1946, Serial No. 125,436
Term of patent 7 years
(Cl. D44—29)



The ornamental design for a combination bottle opener and cork screw, as shown.

146,958
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

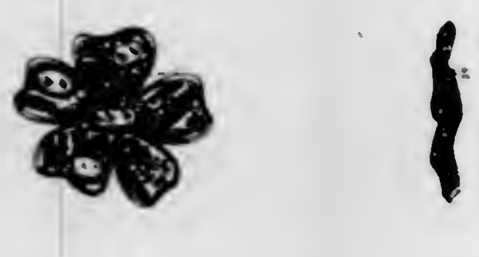
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 24, 1946, Serial No. 125,907
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,959
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

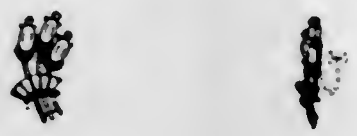
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application May 31, 1946, Serial No. 130,257
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown and described.

146,960
DESIGN FOR AN EARRING

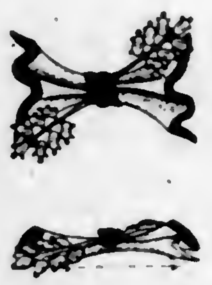
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 26, 1946, Serial No. 131,050
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring, substantially as shown.

146,961
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

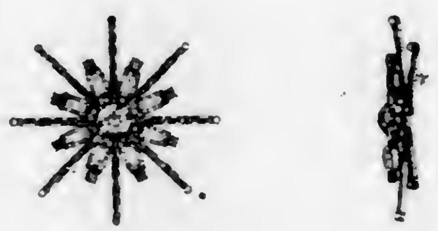
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 26, 1946, Serial No. 131,051
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,962
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

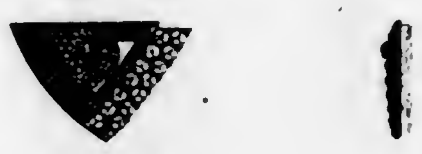
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 26, 1946, Serial No. 131,053
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,963
DESIGN FOR A CLIP OR SIMILAR ARTICLE

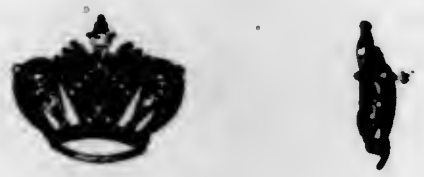
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 26, 1946, Serial No. 131,055
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a clip or similar article, substantially as shown.

146,964
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

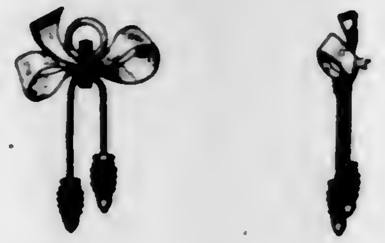
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 26, 1946, Serial No. 131,056
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,965
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

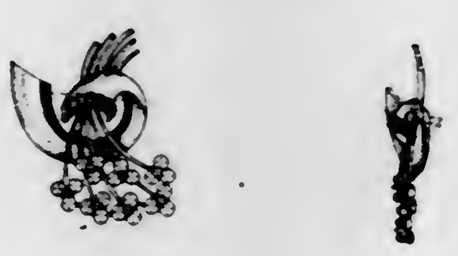
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 27, 1946, Serial No. 131,080
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,966
DESIGN FOR A BROOCH OR SIMILAR ARTICLE

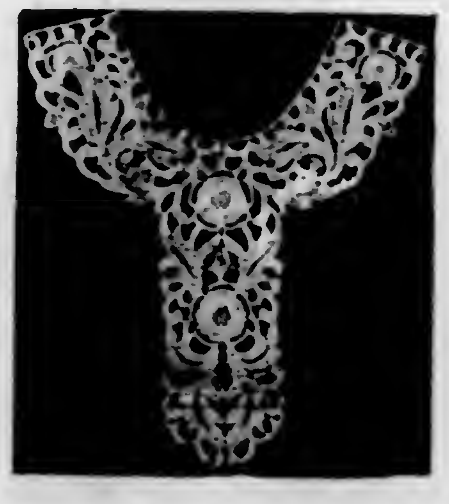
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 27, 1946, Serial No. 131,084
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

146,967
DESIGN FOR AN EMBROIDERED LACE YOKE

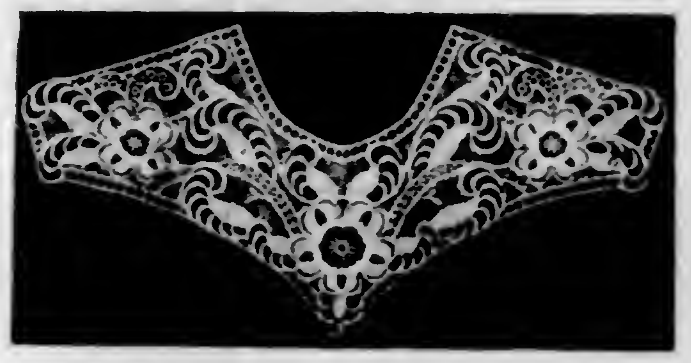
Herman Kaufman, New York, N. Y.
Application January 31, 1947, Serial No. 136,563
Term of patent 7 years
(Cl. D3—9)



The ornamental design for an embroidered lace yoke, substantially as shown and described.

146,968
DESIGN FOR AN EMBROIDERED LACE YOKE

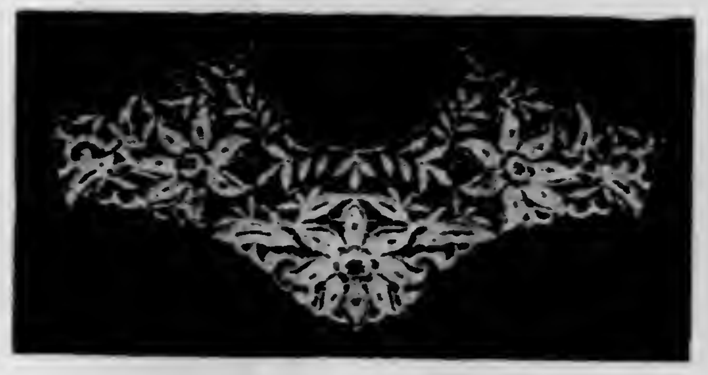
Herman Kaufman, New York, N. Y.
Application February 6, 1947, Serial No. 136,725
Term of patent 7 years
(Cl. D3—9)



The ornamental design for an embroidered lace yoke, substantially as shown and described.

146,969
DESIGN FOR A LACE YOKE

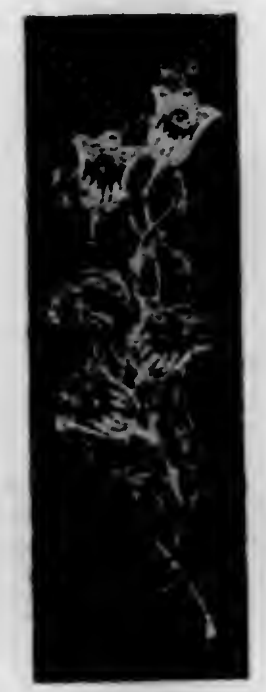
Herman Kaufman, New York, N. Y.
Application February 26, 1947, Serial No. 137,189
Term of patent 7 years
(Cl. D3—9)



The ornamental design for a lace yoke, substantially as shown and described.

146,970
DESIGN FOR AN EMBROIDERED APPLIQUE

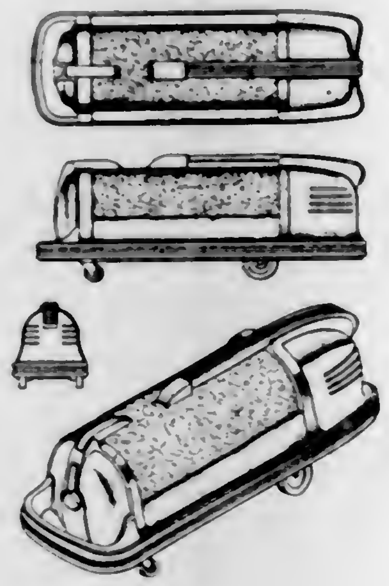
Herman Kaufman, New York, N. Y.
Application March 3, 1947, Serial No. 137,289
Term of patent 7 years
(Cl. D3—9)



The ornamental design for an embroidered appliqué, substantially as shown and described.

146,971
DESIGN FOR A VACUUM CLEANER CASING

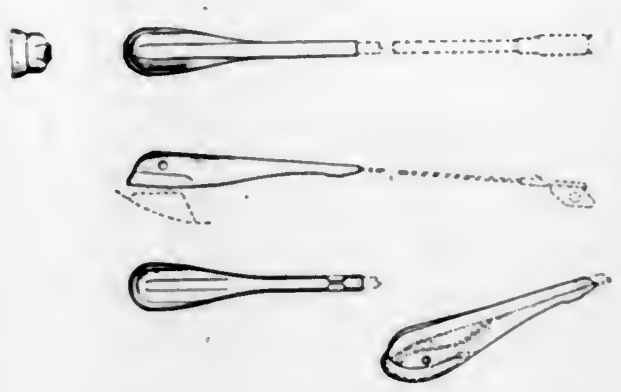
Henry A. Kroenlein, Jackson, Mich.
Application February 2, 1946, Serial No. 126,212
Term of patent 7 years
(Cl. D9—2)



The ornamental design for a vacuum cleaner casing, substantially as shown and described.

146,972
DESIGN FOR A SHROUD FOR WINDSHIELD WIPER ARM

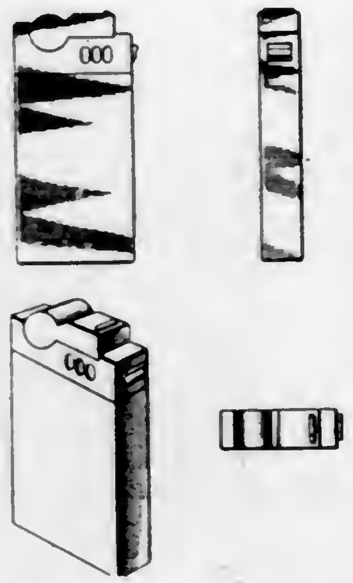
Fred A. Krohm, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application January 5, 1946, Serial No. 125,301
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a shroud for windshield wiper arm, substantialy as shown and de-

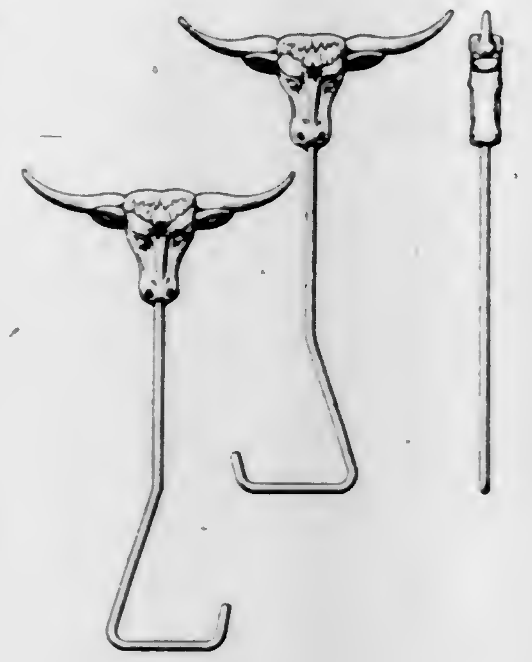
146,973
DESIGN FOR A LIGHTER

Richard F. Landwehr, Laurelton, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application December 29, 1945, Serial No. 125,187
Term of patent 14 years
(Cl. D48—27)



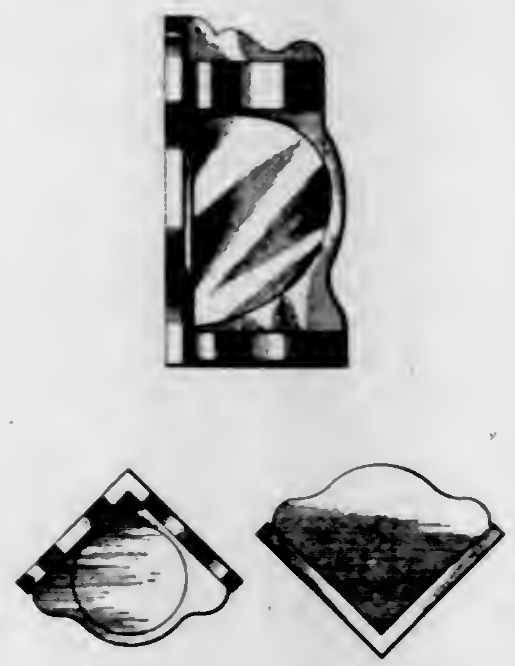
The ornamental design for a lighter, as shown.

146,974
DESIGN FOR A BOOT HOOK
Arthur S. Leitner, Los Angeles, Calif.
Application September 7, 1946, Serial No. 133,157
Term of patent 14 years
(Cl. D7—2)

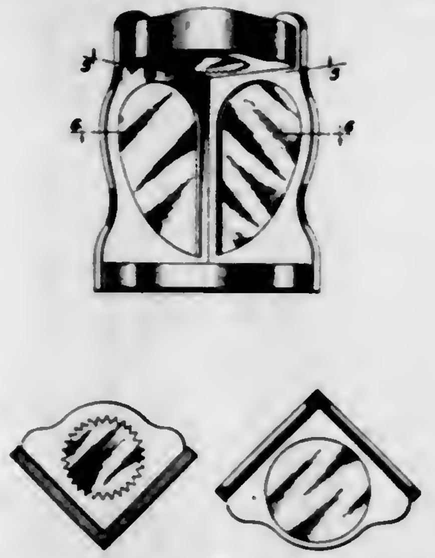


The ornamental design for a boot hook, substantially as shown.

146,975
DESIGN FOR A WALL LAMP OR SIMILAR ARTICLE
Joseph Lerman, Brooklyn, N. Y.
Application March 21, 1946, Serial No. 127,756
Term of patent 14 years
(Cl. D48—23)

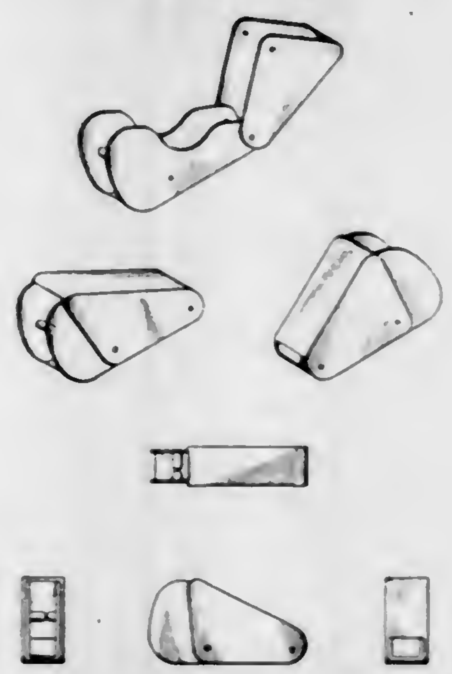


146,975—Continued



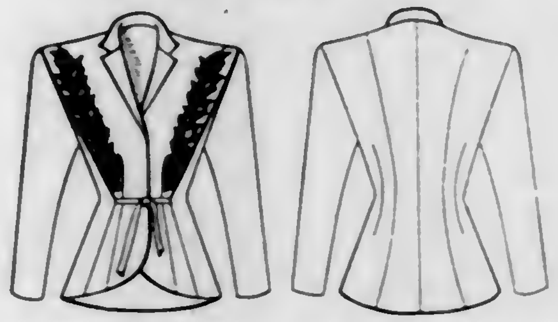
The ornamental design for a wall lamp or similar article, as shown.

146,976
DESIGN FOR A KEY HOLDER
Oliver R. Lesley, Clayton, Mo.
Application April 30, 1946, Serial No. 129,134
Term of patent 7 years
(Cl. D17—14)



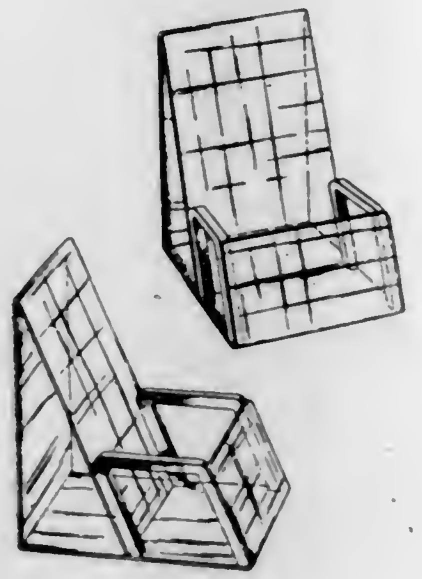
The ornamental design for a key holder, as shown and described.

146,977
DESIGN FOR A JACKET
Leon Leventhal, New York, N. Y.
Application December 9, 1946, Serial No. 135,346
Term of patent 3½ years
(Cl. D3—4)



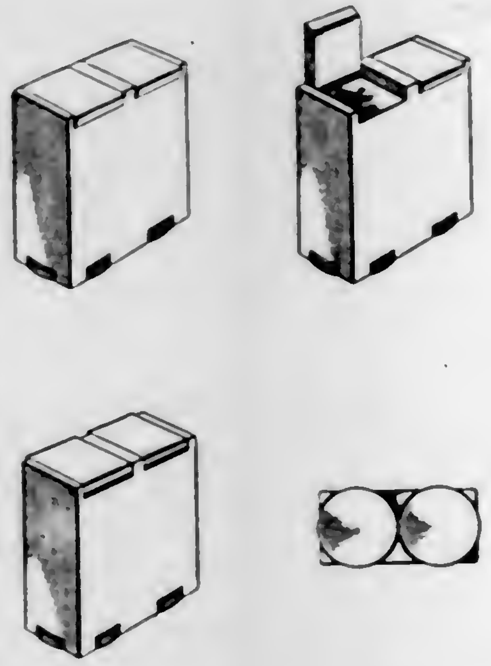
The ornamental design for a jacket, substantially as shown.

146,978
DESIGN FOR AN ADVERTISING LITERATURE HOLDER
John B. Mack, Jr., Freeport, N. Y., assignor to The American Bankers Association, New York, N. Y., an unincorporated organization
Application April 10, 1946, Serial No. 128,467
Term of patent 14 years
(Cl. D1—10)



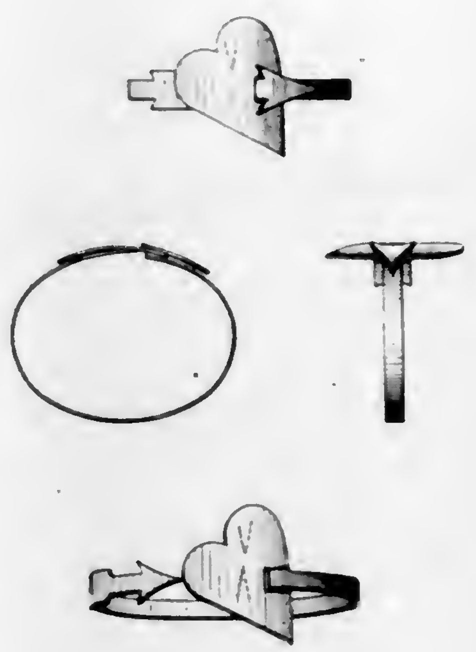
The ornamental design for an advertising literature holder, as shown.

146,979
DESIGN FOR A CONDIMENT SHAKER
Norman J. Mangini, Los Angeles, Calif.
Application March 18, 1946, Serial No. 127,616
Term of patent 7 years
(Cl. D44—22)



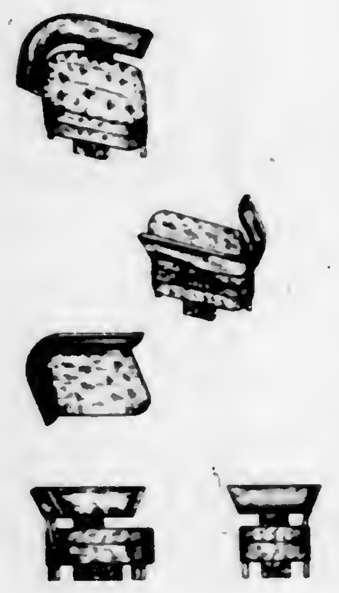
The ornamental design for a condiment shaker, as shown.

146,980
DESIGN FOR A BRACELET
Charles Mucci, Detroit, Mich.
Application June 27, 1946, Serial No. 131,092
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet, as shown.

146,981
DESIGN FOR A LOVE SEAT OR SIMILAR ARTICLE
Josef W. Noll, Philadelphia, Pa.
Application March 27, 1946, Serial No. 128,009
Term of patent 7 years
(Cl. D15—8)

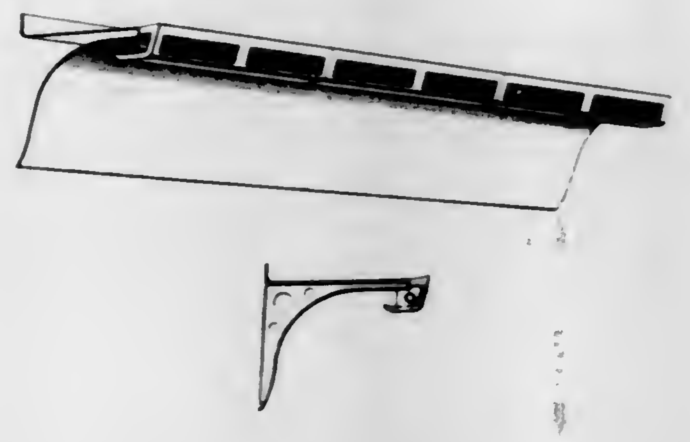


The ornamental design for a love seat or similar article, as shown.

146,982

DESIGN FOR A COMBINED LUGGAGE RACK AND LIGHT FIXTURE

Leonard R. Phillips, Teaneck, N. J., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application December 4, 1945, Serial No. 124,340
Term of patent 7 years
(Cl. D66—2)

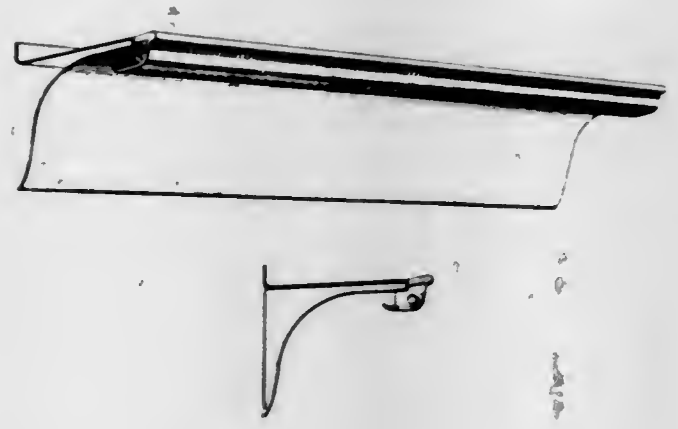


The ornamental design for a combined luggage rack and light fixture, substantially as shown and described.

146,983

DESIGN FOR A COMBINED LUGGAGE RACK AND LIGHT FIXTURE

Leonard R. Phillips, Teaneck, N. J., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application December 4, 1945, Serial No. 124,342
Term of patent 7 years
(Cl. D66—2)

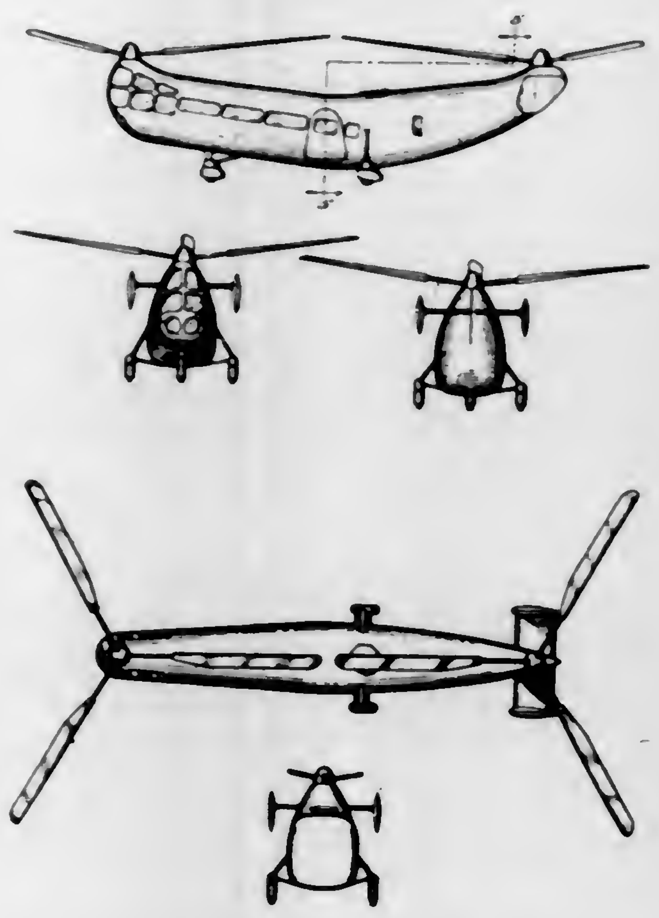


The ornamental design for a combined luggage rack and light fixture, substantially as shown and described.

146,984

DESIGN FOR A HELICOPTER

Frank N. Piasecki, Lansdowne, Pa., assignor to Piasecki Helicopter Corporation
Application March 7, 1946, Serial No. 127,207
Term of patent 14 years
(Cl. D71—1)

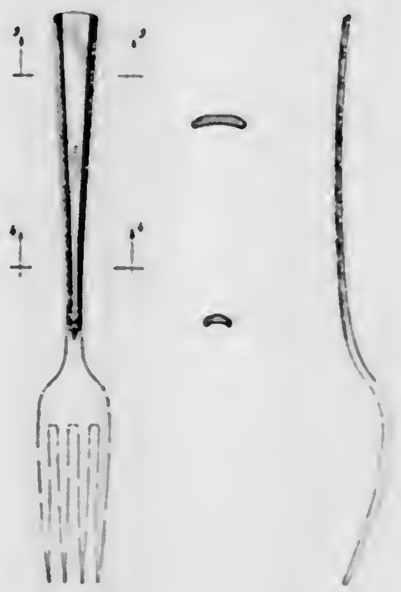


The ornamental design for a helicopter, as shown.

146,985

DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE

James Russell Price, Cranston, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application July 1, 1946, Serial No. 131,214
Term of patent 14 years
(Cl. D54—12)

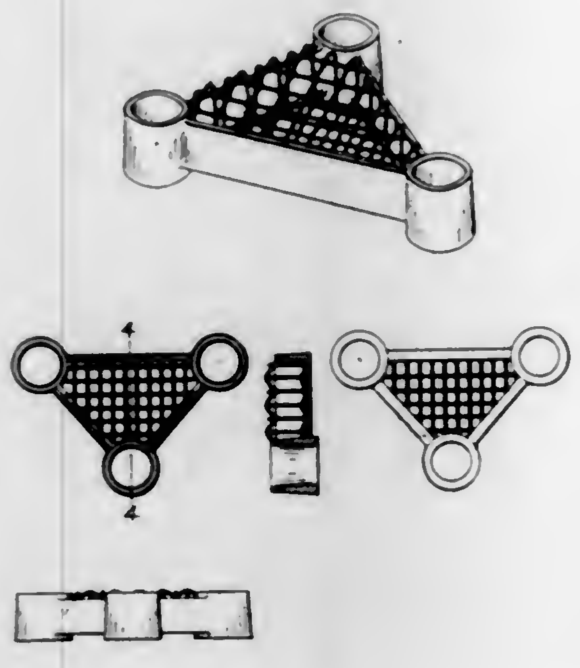


The ornamental design for a fork or other article of flatware, as shown.

146,986

DESIGN FOR A CANDLE AND FLOWER HOLDER

Jeanne T. Purcell, Bern Township, Berks County, Pa.
Application October 31, 1945, Serial No. 123,344
Term of patent 14 years
(Cl. D48—2)

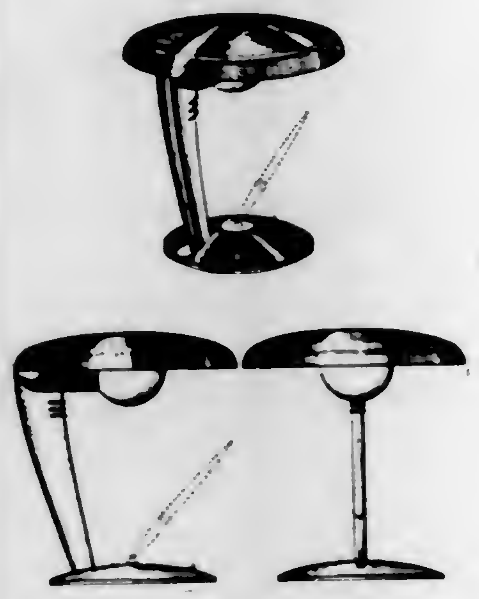


The ornamental design for a candle and flower holder, as shown.

146,987

DESIGN FOR A LAMP

Jean O. Reinecke, Oak Park, Ill., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application January 7, 1946, Serial No. 125,335
Term of patent 14 years
(Cl. D48—20)

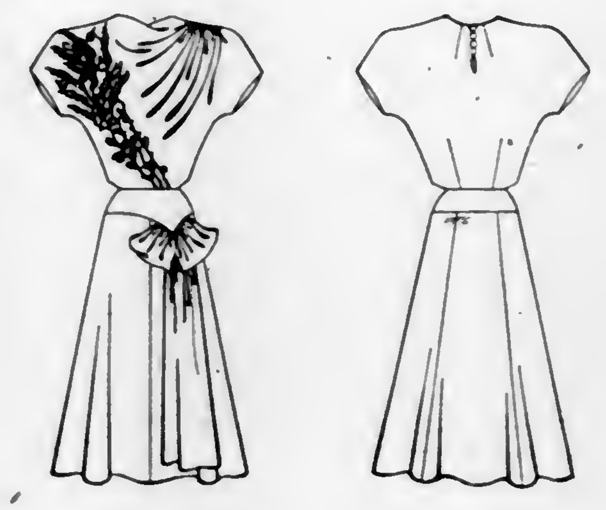


The ornamental design for a lamp, substantially as shown.

146,988

DESIGN FOR A DRESS

Samuel Ruchman, New York, N. Y.
Application February 19, 1947, Serial No. 137,013
Term of patent 3½ years
(Cl. D3—26)

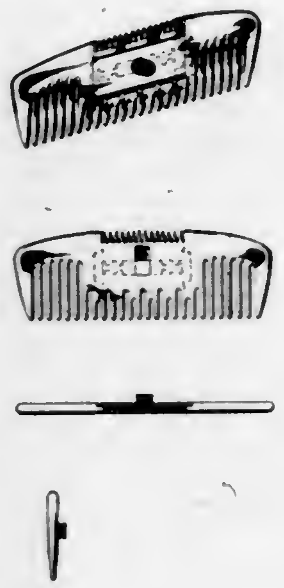


The ornamental design for a dress, substantially as shown.

146,989

DESIGN FOR A HAIR CUTTING COMB

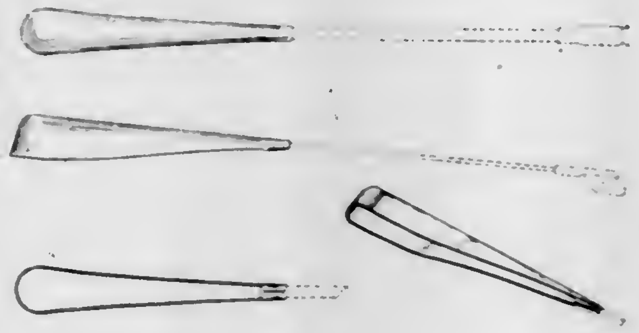
Sanford E. A. Sanders, Los Angeles, Calif., assignor to Sta-Neet Corporation, a corporation of California
Application June 8, 1946, Serial No. 130,561
Term of patent 14 years
(Cl. D86—8)



The ornamental design for a hair cutting comb, substantially as shown and described.

146,990
DESIGN FOR A SHROUD FOR WINDSHIELD WIPER ARM

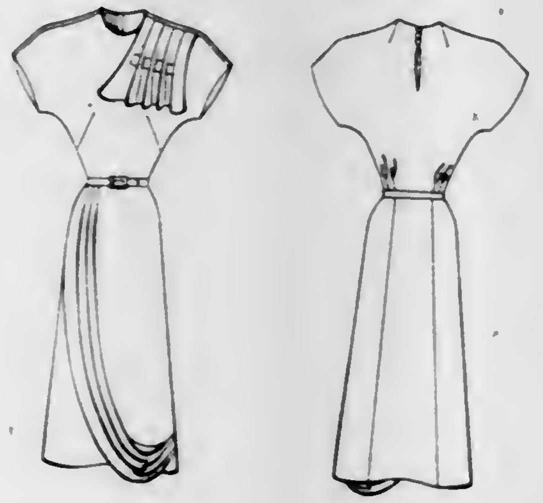
Theodore J. Smulski, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application May 12, 1945, Serial No. 119,522
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a shroud for windshield wiper arm, as shown and described.

146,991
DESIGN FOR A DRESS

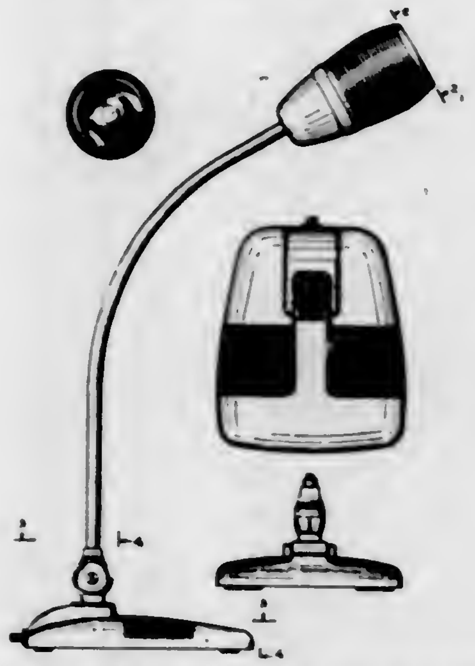
Harold H. Stahl, New York, N. Y.
Application December 30, 1946, Serial No. 135,833
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

146,992
DESIGN FOR A TRANSCRIBER LISTENING DEVICE

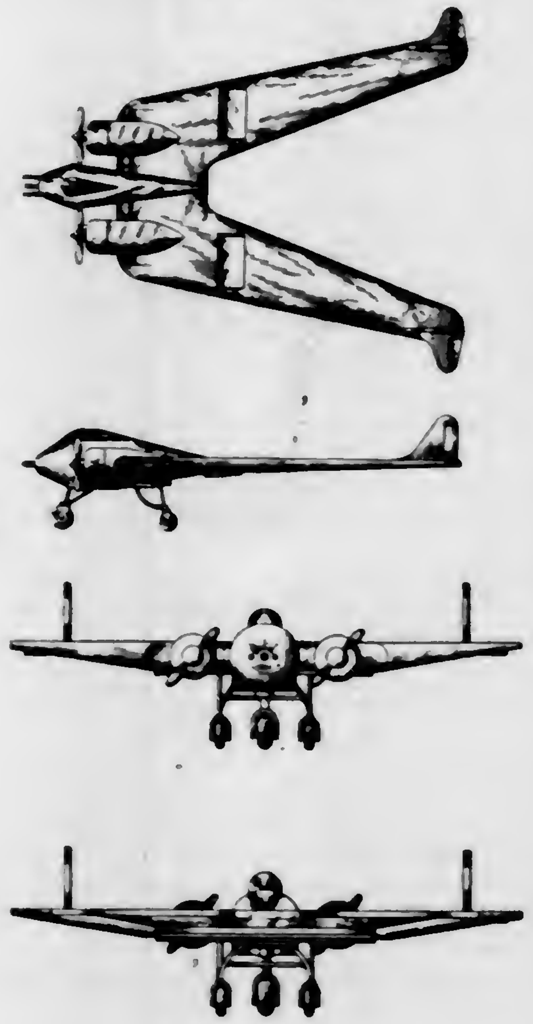
Robert L. Stone, Guilford, Conn., and Earl F. Rutan, New York, N. Y., assignors to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application March 27, 1946, Serial No. 127,980
Term of patent 14 years
(Cl. D26—14)



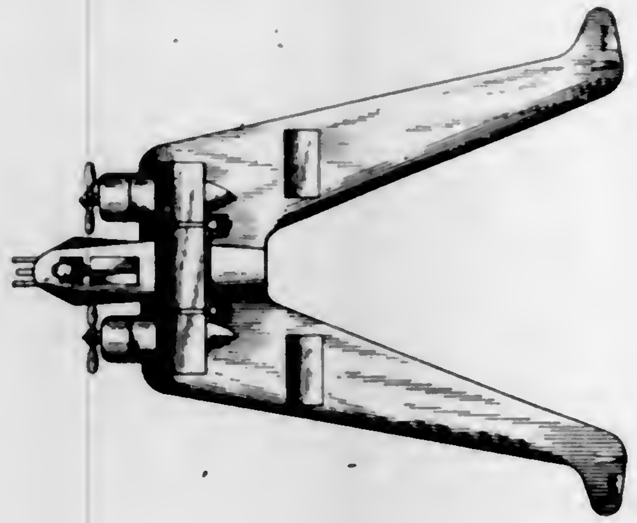
The ornamental design for a transcriber listening device, as shown.

146,993
DESIGN FOR AN AIRPLANE

Luane Eldon Swanson, Cherokee, Iowa
Application September 21, 1945, Serial No. 122,219
Term of patent 3½ years
(Cl. D71—1)



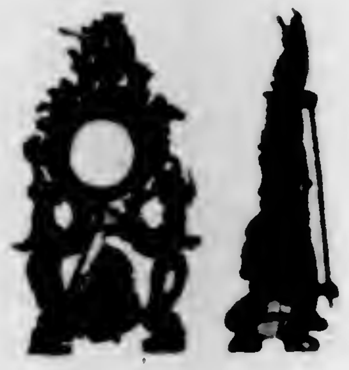
146,993—Continued



The ornamental design for an airplane, as shown.

146,994
DESIGN FOR A LAPEL WATCH FRAME

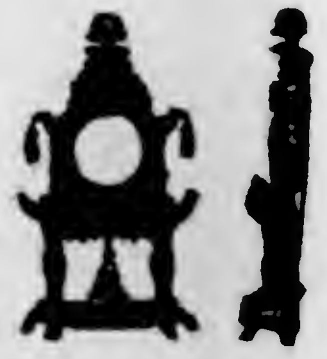
David Taylor, Great Neck, N. Y.
Application April 18, 1946, Serial No. 128,742
Term of patent 7 years
(Cl. D42—8)



The ornamental design for a lapel watch frame, as shown and described.

146,995
DESIGN FOR A LAPEL WATCH FRAME

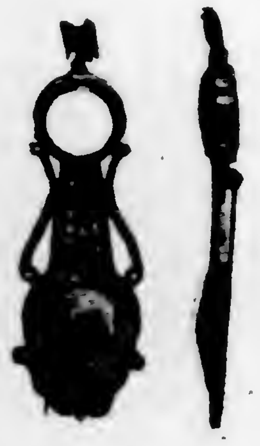
David Taylor, Great Neck, N. Y.
Application April 18, 1946, Serial No. 128,743
Term of patent 7 years
(Cl. D42—8)



The ornamental design for a lapel watch frame, as shown and described.

146,996
DESIGN FOR A LAPEL WATCH FRAME

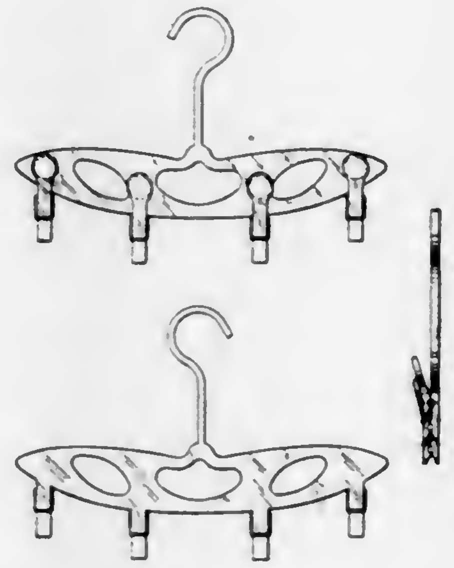
David Taylor, Great Neck, N. Y.
Application April 18, 1946, Serial No. 128,744
Term of patent 7 years
(Cl. D42—8)



The ornamental design for a lapel watch frame, as shown and described.

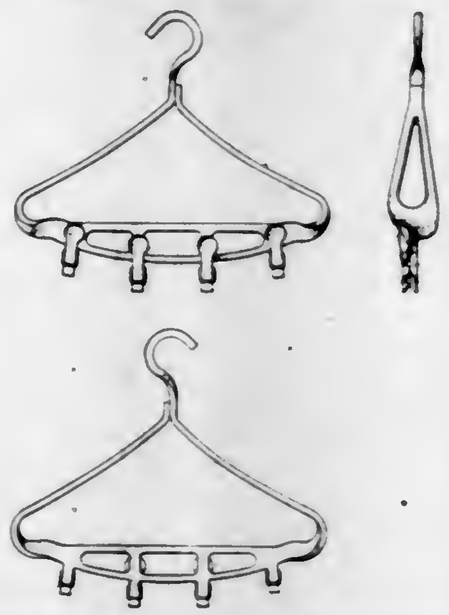
146,997
DESIGN FOR A GARMENT HANGER

Margaret H. Townsend and Robert C. Townsend, Fort Worth, Tex.
Application April 19, 1946, Serial No. 128,774
Term of patent 14 years
(Cl. D80—8)



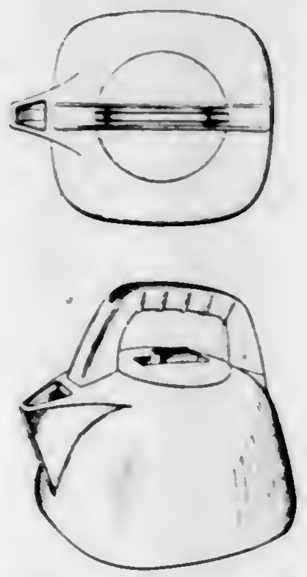
The ornamental design for a garment hanger, substantially as shown.

146,998
DESIGN FOR A GARMENT HANGER
Margaret H. Townsend and Robert C. Townsend, Fort Worth, Tex.
Application May 28, 1946, Serial No. 130,174
Term of patent 14 years
(Cl. D80—8)



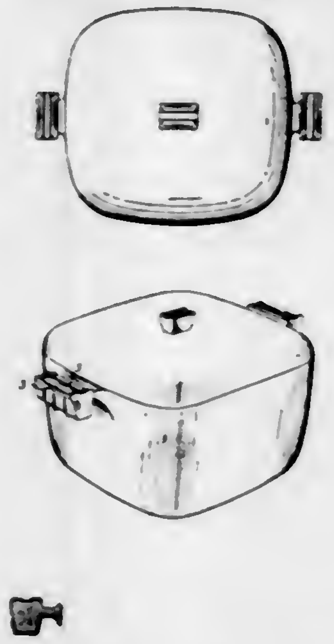
The ornamental design for a garment hanger, substantially as shown.

146,999
DESIGN FOR A TEA KETTLE
Robert B. Wemyss, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application March 2, 1946, Serial No. 127,055
Term of patent 3½ years
(Cl. D44—25)



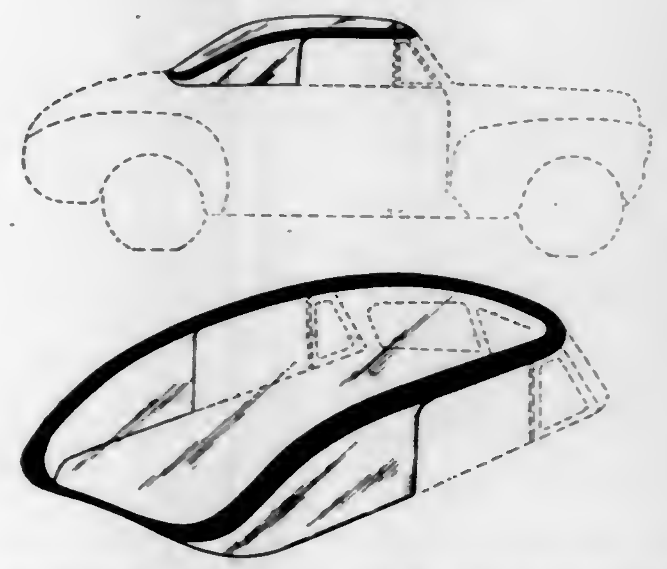
The ornamental design for a tea kettle, as shown.

147,000
DESIGN FOR A DUTCH OVEN
Robert B. Wemyss, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application March 2, 1946, Serial No. 127,056
Term of patent 3½ years
(Cl. D44—1)



The ornamental design for a Dutch oven, as shown.

147,001
DESIGN FOR AN AUTOMOBILE TOP
Clarkson C. Wormer, III, Detroit, Mich.
Application October 17, 1945, Serial No. 122,926
Term of patent 14 years
(Cl. D14—28)



The ornamental design for an automobile top, substantially as shown and described.

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